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(54) Title: ANTIGEN-BINDING PROTEINS TARGETING SHARED NEOANTIGENS

(57) Abstract: Provided herein are target HLA-PEPTIDE antigens, e.g., HLA-PEPTIDE neoantigens and shared tumor HLA-PEPTIDE antigens, and antigen binding proteins (ABPs) that bind the target HLA- PEPTIDE antigens. Also disclosed are methods for identifying target HLA-PEPTIDE antigens as well as identifying one or more antigen binding proteins that bind a given HLA-PEPTIDE target antigen.

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# ANTIGEN-BINDING PROTEINS TARGETING SHARED NEOANTIGENS

## RELATED APPLICATIONS

**[0001]** This application claims the benefit of U.S. Provisional Application Nos: 62/936,303 filed November 15, 2019 and 63/030,774 filed May 27, 2020, each of which is hereby incorporated in its entirety by reference for all purposes.

## SEQUENCE LISTING

**[0002]** The instant application contains a Sequence Listing which has been filed electronically in ASCII format and is hereby incorporated by reference in its entirety. Said ASCII copy, created on November 13, 2020, is named GSO-080WO_SL.txt and is 6,925,625 bytes in size.

## BACKGROUND

**[0003]** It is recognized that MHCs display intracellularly processed protein fragments on the cell surface. In humans, MHC is referred to as human leukocyte antigen or HLA. In particular, MHC class I molecules are expressed on the surface of virtually all nucleated cells in the body. They are dimeric molecules comprising a transmembrane heavy chain, comprising the peptide antigen binding cleft, and a smaller extracellular chain termed beta2-microglobulin. MHC class I molecules present peptides derived from the degradation of cytosolic proteins by the proteasome, a multi-unit structure in the cytoplasm, (Niedermann G., 2002. Curr Top Microbiol Immunol. 268:91-136; for processing of bacterial antigens, refer to Wick M J, and Ljunggren H G., 1999. Immunol Rev. 172:153-62). Cleaved peptides are transported into the lumen of the endoplasmic reticulum (ER) by the transporter associated with antigen processing (TAP) where they are bound to the groove of the assembled class I molecule, and the resultant MHC/peptide complex is transported to the cell membrane to enable antigen presentation to T lymphocytes (Yewdell J W., 2001. Trends Cell Biol. 11:294-7; Yewdell J W. and Bennink J R., 2001. Curr Opin Immunol. 13:13-8). Alternatively, cleaved peptides can be loaded onto MHC class I molecules in a TAP-independent manner and can also present extracellularly-derived proteins through a process of cross-presentation.

**[0004]** MHC genes are highly polymorphic across species populations, comprising multiple common alleles for each individual gene. As such, a given MHC allele/peptide complex

comprising a specific HLA subtype and a specific peptide fragment presents a novel protein structure on the cell surface that can be targeted by a novel antigen-binding protein (e.g., TCRs or antigen binding fragments thereof). However, such TCR-based approaches first require the identification of the complex's structure (peptide sequence and MHC subtype).

**[0005]** Tumor cells can express neoantigens and may display such antigens on the surface of the tumor cell via MHC presentation. Such tumor-associated neoantigens, comprising the novel protein structure formed by the peptide-MHC subtype complex, can be used for development of novel immunotherapeutic reagents for the specific targeting of tumor cells. For example, tumor-associated antigens can be used to identify therapeutic antigen binding proteins, e.g., TCRs, or antigen-binding fragments thereof. However, accurate identification of such neoantigens has been challenging.

**[0006]** Initial methods have been proposed incorporating mutation-based analysis using next-generation sequencing, RNA gene expression, and prediction of MHC binding affinity of candidate neoantigen peptides [8]. However, these proposed methods can fail to model the entirety of the epitope generation process, which contains many steps (e.g., TAP transport, proteasomal cleavage, and/or TCR recognition) in addition to gene expression and MHC binding[9]. Consequently, existing methods are likely to suffer from reduced low positive predictive value (PPV).

**[0007]** Indeed, analyses of peptides presented by tumor cells performed by multiple groups have shown that <5% of peptides predicted to be presented using gene expression and MHC binding affinity are actually found on the tumor surface MHC[10,11]. This low correlation between binding predicted and actual MHC presentation was further reinforced by recent observations of the lack of predictive accuracy improvement of binding-restricted neoantigens for checkpoint inhibitor response over the number of mutations alone.[12]

**[0008]** This low positive predictive value (PPV) of existing methods for predicting presentation presents a problem for neoantigen-based immunotherapy design. If immunotherapies are designed using predictions with a low PPV, many of them will be clinically ineffective.

**[0009]** Accordingly, there is a need for the discovery and identification of tumor-associated HLA-peptide complexes with high positive predictive value, and a need for the development of TCR-based immunotherapies targeting such complexes.

## SUMMARY

**[0010]** Provided herein is an antigen binding protein (ABP) that specifically binds to an HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA Class I molecule and the HLA-restricted peptide are each selected from an HLA-PEPTIDE antigen as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP comprises a T cell receptor (TCR) or antigen-binding fragment thereof.

**[0011]** In some aspects, the HLA-restricted peptide is between about 5-15 amino acids in length. In some aspects, the HLA-restricted peptide is between about 8-12 amino acids in length, optionally 8, 9, 10, 11, or 12 amino acids in length.

**[0012]** In some aspects, the HLA-PEPTIDE antigen is selected from the group consisting of: a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK; a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a CTNNB1_S45P MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide TTAPPLSGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK; a TP53_K132N MHC Class I antigen comprising HLA-A*24:02 and the restricted peptide TYSPALNNMF; a CTNNB1_S37Y MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide YLDSGIHYGA; a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK; a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK; a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY; and a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**[0013]** In some aspects, the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:06; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*41:02; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*48:01; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-C*08:03; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*03:02; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*68:01; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:05; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*03:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*26:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*31:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*68:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*07:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*13:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*15:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a

RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*37:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*38:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:03; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*48:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*50:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*57:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*01:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*02:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:03; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:04; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*04:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*05:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*07:04; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:03; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*16:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*17:01; the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-B*41:02; the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-C*07:04; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:05; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-

A*02:06; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*25:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*26:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*30:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*32:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*68:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*07:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*13:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*14:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*15:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*39:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*41:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*44:05; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*50:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*51:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02; the restricted peptide comprises a RAS_G12V mutation,

and wherein the HLA Class I molecule is HLA-C*01:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:03; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:04; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*08:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*14:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*17:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*07:02; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:03; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:08; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*38:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-C*04:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*01:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*23:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*29:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*30:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*33:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*68:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*07:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*18:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the

restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*38:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*40:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*44:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*03:04; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*05:01; or the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*08:02.

**[0014]** In some aspects, the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is C*08:02 or A*11:01; the restricted peptide comprises a KRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a TP53_R249M mutation, and wherein the HLA Class I molecule is B*35:12, B*35:03, or B*35:01; the restricted peptide comprises a CTNNB1_S45P mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, A*68:01, or A*03:02; the restricted peptide comprises a CTNNB1_S45F mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, or A*68:01; the restricted peptide comprises a ERBB2_Y772_A775dup mutation, and wherein the HLA Class I molecule is B*18:01; the restricted peptide comprises a KRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02; the restricted peptide comprises a NRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02; the restricted peptide comprises a KRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a CTNNB1_T41A mutation, and wherein the HLA Class I molecule is A*03:01, A*03:02, A*11:01, B*15:10, C*03:03, or C*03:04; the restricted peptide comprises a TP53_K132N mutation, and wherein the HLA Class I molecule is A*24:02 or A*23:01; the restricted peptide comprises a KRAS_G12A mutation, and wherein the HLA Class I molecule is A*03:01 or A*11:01; the restricted peptide comprises a KRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a TP53_R213L mutation, and wherein the HLA Class I molecule is A*02:07, C*08:02, or

A*02:01; the restricted peptide comprises a BRAF_G466V mutation, and wherein the HLA Class I molecule is B*15:01, or B*15:03; the restricted peptide comprises a KRAS_G12V mutation, and wherein the HLA Class I molecule is A*03:01, A*03:02, A*11:01, or C*01:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a CTNNB1_S37F mutation, and wherein the HLA Class I molecule is A*01:01, A*23:01, A*24:02, B*15:10, B*39:06, C*05:01, C*14:02, or C*14:03; the restricted peptide comprises a TP53_S127Y mutation, and wherein the HLA Class I molecule is A*11:01 or A*03:01; the restricted peptide comprises a TP53_K132E mutation, and wherein the HLA Class I molecule is A*24:02, C*14:03, or A*23:01; the restricted peptide comprises a KRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01; the restricted peptide comprises a NRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01; the restricted peptide comprises a EGFR_L858R mutation, and wherein the HLA Class I molecule is A*11:01, or A*03:01; the restricted peptide comprises a TP53_Y220C mutation, and wherein the HLA Class I molecule is A*02:01; or the restricted peptide comprises a TP53_ R175H mutation, and wherein the HLA Class I molecule is A*02:01.

**[0015]** In some aspects, the HLA-PEPTIDE antigen is selected from: a CTNNB1_S45P MHC Class I antigen comprising A*11:01 and the restricted peptide TTAPPLSGK; a CTNNB1_T41AMHC Class I antigen comprising A*11:01 and the restricted peptide ATAPSLSGK; a RAS_G12D MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGADGVGK; a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGAVGVGK; a KRAS_Q61R MHC Class I antigen comprising A*01:01 and the restricted peptide ILDTAGREEY; and a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**[0016]** In some aspects, the HLA-restricted peptide comprises a RAS G12 mutation. In some aspects, the G12 mutation is a G12C, a G12D, a G12V, or a G12A mutation. In some aspects,

the HLA-PEPTIDE antigen comprises an HLA Class I molecule selected from HLA-A*02:01, HLA-A*11:01, HLA-A*31:01, HLA-C*01:02, and HLA-A*03:01. In some aspects, the RAS G12 mutation is any one or more of: a KRAS, NRAS, and HRAS mutation. In some aspects, the HLA-PEPTIDE antigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK; a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK. In some aspects, the HLA-PEPTIDE antigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK. In some aspects, the HLA-PEPTIDE antigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; and a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK. In some aspects, the HLA-

PEPTIDE antigen is a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV. In some aspects, the HLA-PEPTIDE antigen is a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK. In some aspects, the HLA-PEPTIDE antigen is a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK.

**[0017]** In some aspects, the HLA-restricted peptide comprises a RAS Q61 mutation. In some aspects, the Q61 mutation is a Q61H, a Q61K, a Q61R, or a Q61L mutation. In some aspects, the HLA-PEPTIDE antigen is a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY.

**[0018]** In some aspects, the HLA-restricted peptide comprises a TP53 mutation. In some aspects, the TP53 mutation comprises a R213L, S127Y, Y220C, R175H, or R249M mutation. In some aspects, the HLA-PEPTIDE antigen is a TP53 R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**[0019]** In some aspects, the antigen binding protein binds to the HLA-PEPTIDE antigen through at least one contact point with the HLA Class I molecule and through at least one contact point with the HLA-restricted peptide.

**[0020]** In some aspects, the antigen binding protein binds to a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV, and wherein the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising a different RAS G12 mutation. In some aspects, the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule In some aspects, the ABP does not bind to an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule.

**[0021]** In some aspects, the antigen binding protein is linked to a scaffold, optionally wherein the scaffold comprises serum albumin or Fc, optionally wherein Fc is human Fc and is an IgG (IgG1, IgG2, IgG3, IgG4), an IgA (IgA1, IgA2), an IgD, an IgE, or an IgM isotype Fc.

**[0022]** In some aspects, the antigen binding protein is linked to a scaffold via a linker, optionally wherein the linker is a peptide linker, optionally wherein the peptide linker is a hinge region of a human antibody.

**[0023]** In some aspects, the TCR or antigen-binding portion thereof comprises a TCR variable region. In some aspects, the TCR or antigen-binding portion thereof comprises one

or more TCR complementarity determining regions (CDRs). In some aspects, the TCR comprises an alpha chain and a beta chain. In some aspects, the TCR comprises a gamma chain and a delta chain. In some aspects, the TCR comprises a single chain TCR (scTCR). In some aspects, the TCR comprises recombinant TCR sequences. In some aspects, the TCR comprises human TCR sequences, optionally wherein the human TCR sequences are fully-human TCR sequences. In some aspects, the TCR comprises a modified TCRα constant (TRAC) region, a modified TCRβ constant (TRBC) region, or a modified TRAC region and a modified TRBC region.

**[0024]** In some aspects, the antigen binding protein comprises a modification that extends half-life.

**[0025]** In some aspects, the antigen binding protein is a portion of a chimeric antigen receptor (CAR) comprising: an extracellular portion comprising the antigen binding protein; and an intracellular signaling domain. In some aspects, the intracellular signaling domain comprises an ITAM. In some aspects, the intracellular signaling domain comprises a signaling domain of a zeta chain of a CD3-zeta (CD3) chain.

**[0026]** In some aspects, the antigen binding protein further comprises a transmembrane domain linking the extracellular domain and the intracellular signaling domain. In some aspects, the transmembrane domain comprises a transmembrane portion of CD28.

**[0027]** In some aspects, the antigen binding protein further comprises an intracellular signaling domain of a T cell costimulatory molecule. In some aspects, the T cell costimulatory molecule is CD28, 4-1BB, OX-40, ICOS, or any combination thereof.

**[0028]** Also provided for herein is a medicament comprising any one of the ABPs described herein.

**[0029]** Also provided for herein is an ABP for use in treatment of cancer, optionally wherein the cancer expresses or is predicted to express the HLA-PEPTIDE antigen a medicament, comprising any one of the ABPs described herein. In some aspects, the cancer is selected from a solid tumor and a hematological tumor.

**[0030]** Also provided for herein is an antigen binding protein (ABP) that competes for binding with any one of the ABPs described herein.

**[0031]** Also provided for herein is an antigen binding protein (ABP) that binds the same HLA-PEPTIDE antigen epitope bound by any one of the ABPs described herein.

**[0032]** Also provided for herein is an engineered cell expressing a receptor comprising the antigen binding protein of any one of the ABPs described herein. In some aspects, the engineered cell is a T cell. In some aspects, the T cell is selected from the group consisting of: a naive T (TN) cell, an effector T cell (TEFF), a memory T cell, a stem cell memory T cell (TSCM), a central memory T cell (TCM), an effector memory T cell (TEM), a terminally differentiated effector memory T cell, a tumor-infiltrating lymphocyte (TIL), an immature T cell, a mature T cell, a helper T cell, a cytotoxic T cell, a mucosa-associated invariant T (MALT) cell, a regulatory T cell (Treg), a TH1 cell, a TH2 cell, a TH3 cell, a TH17 cell, a TH9 cell, a TH22 cell, a follicular helper T cell, an natural killer T cell (NKT), an alpha-beta T cell, and a gamma-delta T cell. In some aspects, the T cell is a cytotoxic T cell (CTL). In some aspects, the engineered cell is a human cell or a human-derived cell. In some aspects, the engineered cell is an autologous cell of a subject. In some aspects, the subject is known or suspected to have cancer. In some aspects, the autologous cell is an isolated cell from a subject. In some aspects, the isolated cell is an an ex vivo cultured cell, optionally wherein the vivo cultured cell is a stimulated cell. In some aspects, the autologous cell is an *in vivo*-engineered cell. In some aspects, the antigen binding protein is expressed from a heterologous promoter. In some aspects, the ABP comprises a T cell receptor (TCR) or an antigen-binding portion thereof, and wherein a polynucleotide encoding the T cell receptor (TCR) or antigen-binding portion thereof is inserted in an endogenous TCR locus. In some aspects, the engineered cell does not express an endogenous ABP.

**[0033]** Also provided for herein is an isolated polynucleotide or set of polynucleotides encoding the ABP of any one of the ABPs described herein. Also provided for herein is a vector or set of vectors comprising any one of the polynucleotides or set of polynucleotides described herein. Also provided for herein is a virus comprising any one of the polynucleotides or set of polynucleotides described herein. In some aspects, the virus is a filamentous phage.

**[0034]** Also provided for herein is a yeast cell comprising any one of the polynucleotides or set of polynucleotides described herein.

**[0035]** Also provided for herein is a host cell comprising any one of the polynucleotides or set of polynucleotides described herein, optionally wherein the host cell is CHO or HEK293, or optionally wherein the host cell is a T cell.

**[0036]** Also provided for herein is a method of producing an antigen binding protein comprising expressing the antigen binding protein with any one of the host cells described herein and isolating the expressed antigen binding protein.

**[0037]** Also provided for herein is a pharmaceutical composition comprising any one of the antigen binding proteins described herein and a pharmaceutically acceptable excipient.

**[0038]** Also provided for herein is a method of treating cancer in a subject, comprising administering to the subject any one of the antigen binding proteins described herein, any one of the engineered cells described herein, or any one of the pharmaceutical compositions described herein, optionally wherein the cancer is selected from a solid tumor and a hematological tumor.

**[0039]** Also provided for herein is a method of stimulating an immune response in a subject, comprising administering to the subject any one of the antigen binding proteins described herein, any one of the engineered cells described herein, or any one of the pharmaceutical compositions described herein, optionally wherein the cancer is selected from a solid tumor and a hematological tumor.

**[0040]** Also provided for herein is a method of killing a target cell in a subject, comprising administering to the subject any one of the antigen binding proteins described herein, any one of the engineered cells described herein, or any one of the pharmaceutical compositions described herein, optionally wherein the cancer is selected from a solid tumor and a hematological tumor.

**[0041]** In some aspects, the subject is a human subject.

**[0042]** In some aspects, the cancer expresses or is predicted to express an HLA-PEPTIDE antigen or HLA Class I molecule as described in any one of In some aspects, the cancer expresses or is predicted to express an HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA Class I molecule and the HLA-restricted peptide are each selected from an HLA-PEPTIDE antigen as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP binds to the HLA-PEPTIDE antigen. In some aspects, the HLA-PEPTIDE antigen is selected from the group consisting of: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK;

a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK; a CTNNB1_S45P MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide TTAPPLSGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK; a TP53_K132N MHC Class I antigen comprising HLA-A*24:02 and the restricted peptide TYSPALNNMF; a CTNNB1_S37Y MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide YLDSGIHYGA; a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK; a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK; a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY; and a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**[0043]** In some aspects, the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:06; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*41:02; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*48:01; the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-C*08:03; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*03:01; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*03:02; the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*68:01; the restricted peptide comprises a RAS_G12C mutation,

and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:05; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*03:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*26:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*31:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*68:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*07:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*13:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*15:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*37:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*38:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:03; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*48:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*50:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*57:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*01:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*02:02; the restricted

peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:03; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:04; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*04:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*05:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*07:04; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:02; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:03; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*16:01; the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*17:01; the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-B*41:02; the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-C*07:04; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:05; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:06; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*25:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*26:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*30:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*32:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*68:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA

Class I molecule is HLA-B*07:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*13:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*14:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*15:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*27:05; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*39:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*41:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*44:05; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*50:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*51:01; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:03; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:04; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*08:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*14:02; the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*17:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*07:02; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:03; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:08; the

restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*38:01; the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-C*04:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*01:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*02:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*23:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*29:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*30:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*33:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*68:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*07:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*08:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*18:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*35:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*38:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*40:01; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*44:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*03:04; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*05:01; or the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*08:02.

**[0044]** In some aspects, the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is C*08:02 or A*11:01; the restricted peptide comprises a KRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a TP53_R249M mutation, and wherein the HLA Class I molecule is B*35:12, B*35:03, or B*35:01; the restricted peptide comprises a

CTNNB1_S45P mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, A*68:01, or A*03:02; the restricted peptide comprises a CTNNB1_S45F mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, or A*68:01; the restricted peptide comprises a ERBB2_Y772_A775dup mutation, and wherein the HLA Class I molecule is B*18:01; the restricted peptide comprises a KRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02; the restricted peptide comprises a NRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02; the restricted peptide comprises a KRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a CTNNB1_T41A mutation, and wherein the HLA Class I molecule is A*03:01, A*0302, A*11:01, B*15:10, C*03:03, or C*03:04; the restricted peptide comprises a TP53_K132N mutation, and wherein the HLA Class I molecule is A*24:02 or A*23:01; the restricted peptide comprises a KRAS_G12A mutation, and wherein the HLA Class I molecule is A*03:01 or A*11:01; the restricted peptide comprises a KRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a TP53_R213L mutation, and wherein the HLA Class I molecule is A*02:07, C*08:02, or A*02:01; the restricted peptide comprises a BRAF_G466V mutation, and wherein the HLA Class I molecule is B*15:01, or B*15:03; the restricted peptide comprises a KRAS_G12V mutation, and wherein the HLA Class I molecule is A*03:01, A*03:02, A*11:01, or C*01:02; the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a NRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01; the restricted peptide comprises a CTNNB1_S37F mutation, and wherein the HLA Class I molecule is A*01:01, A*23:01, A*24:02, B*15:10, B*39:06, C*05:01, C*14:02, or C*14:03; the restricted peptide comprises a TP53_S127Y mutation, and wherein the HLA Class I molecule is A*11:01 or A*03:01; the restricted peptide comprises a TP53_K132E mutation, and wherein the HLA Class I molecule is A*24:02, C*14:03, or A*23:01; the restricted peptide comprises a KRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01; the restricted peptide comprises a NRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01; the restricted peptide comprises a EGFR_L858R mutation,

and wherein the HLA Class I molecule is A*11:01, or A*03:01; the restricted peptide comprises a TP53_Y220C mutation, and wherein the HLA Class I molecule is A*02:01; or

**[0045]** the restricted peptide comprises a TP53_ R175H mutation, and wherein the HLA Class I molecule is A*02:01.

**[0046]** In some aspects, the HLA-PEPTIDE antigen is selected from: a CTNNB1_S45P MHC Class I antigen comprising A*11:01 and the restricted peptide TTAPPLSGK; a CTNNB1_T41A MHC Class I antigen comprising A*11:01 and the restricted peptide ATAPSLSGK; a RAS_G12D MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGADGVGK; a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGAVGVGK; a KRAS_Q61R MHC Class I antigen comprising A*01:01 and the restricted peptide ILDTAGREEY; and a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**[0047]** In some aspects, the HLA-PEPTIDE antigen comprises an HLA-restricted peptide which is a peptide fragment of RAS comprising a RAS G12 mutation. In some aspects, the G12 mutation is a G12C, a G12D, a G12V, or a G12A mutation. In some aspects, the HLA-PEPTIDE antigen comprises an HLA Class I molecule selected from HLA-A*02:01, HLA-A*11:01, HLA-A*31:01, HLA-C*01:02, and HLA-A*03:01. In some aspects, the RAS G12 mutation is any one or more of: a KRAS, NRAS, and HRAS mutation. In some aspects, the HLA-PEPTIDE antigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK; a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide

VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK. In some aspects, the HLA-PEPTIDE antigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide VVVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK. In some aspects, the HLA-PEPTIDE antigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; or a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK. In some aspects, the antigen binding protein binds to a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV, and wherein the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising a different RAS G12 mutation. In some aspects, the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule. In some aspects, the ABP does not bind to an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule.

**[0048]** In some aspects, the HLA-PEPTIDE antigen comprises an HLA-restricted peptide which is a peptide fragment of RAS comprising a RAS Q61 mutation. In some aspects, the Q61 mutation is a Q61H, a Q61K, a Q61R, or a Q61L mutation. In some aspects, the HLA-PEPTIDE antigen is a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY.

**[0049]** In some aspects, the HLA-PEPTIDE antigen comprises an HLA-restricted peptide which is a peptide fragment of TP53 comprising a TP53 mutation. In some aspects, the TP53 mutation comprises a R213L, S127Y, Y220C, R175H, or R249M mutation. In some aspects, the HLA-PEPTIDE antigen is a TP53 R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**[0050]** In some aspects, the method comprises, prior to the administering, determining or having determined the presence of any one or more of the HLA-PEPTIDE antigen, the peptide of the HLA-PEPTIDE antigen, the somatic mutation associated with the HLA-PEPTIDE antigen, and the HLA molecule of the HLA-PEPTIDE antigen in a biological sample obtained from the subject.

**[0051]** In some aspects, the biological sample is a blood sample or a tumor sample. In some aspects, the blood sample is a plasma or serum sample.

**[0052]** In some aspects, the determining comprises RNASeq, microarray, PCR, Nanostring, in situ hybridization (ISH), Mass spectrometry, sequencing, or immunohistochemistry (IHC).

**[0053]** In some aspects of the method, the method comprises, after having determined the presence of the HLA-PEPTIDE antigen, peptide, or HLA in the biological sample obtained from the subject, administering to the subject an ABP that selectively binds to the HLA-PEPTIDE antigen.

**[0054]** Also provided herein is a kit comprising the antigen binding protein disclosed herein or a pharmaceutical composition disclosed herein and instructions for use.

**[0055]** Also provided herein is a system, comprising: an isolated HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, and wherein the HLA-PEPTIDE antigen is selected from an HLA-PEPTIDE antigen described in any one of SEQ ID NOs:10,755 to 29,364; and a phage display library.

**[0056]** In some aspects, the HLA-PEPTIDE antigen is attached to a solid support. In some aspects, the solid support comprises a bead, well, membrane, tube, column, plate, sepharose, magnetic bead, cell, or chip. In some aspects, the HLA-PEPTIDE antigen comprises a first member of an affinity binding pair and the solid support comprises a second member of the affinity binding pair. In some aspects, the first member is streptavidin and the second member is biotin.

**[0057]** In some aspects, the phage display library is a human library. In some aspects, the phage display library is a humanized library.

**[0058]** In some aspects, the system further comprises a negative control HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, and wherein the negative control HLA-PEPTIDE antigen comprises a different restricted peptide, a different HLA Class I molecule, or a different restricted peptide and a different HLA Class I molecule. In some aspects, the negative control HLA-PEPTIDE antigen comprises a different restricted peptide but the same HLA Class I molecule as the HLA-PEPTIDE antigen.

**[0059]** In some aspects, the system comprises a reaction mixture, the reaction mixture comprising the HLA-PEPTIDE antigen and a plurality of phages from the phage display library.

**[0060]** Also provided herein is use of a system disclosed herein for identifying an antigen binding protein that selectively binds the isolated HLA-PEPTIDE antigen.

**[0061]** Also provided herein is a composition comprising an HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755 to 29,364, wherein the HLA-PEPTIDE antigen is covalently linked to an affinity tag. In some aspects, the affinity tag is a biotin tag.

**[0062]** Also provided herein is a composition comprising an HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755 to 29,364 complexed with a detectable label. In some aspects, the detectable label comprises a $\beta_2$-microglobulin binding molecule. In some aspects, the $\beta_2$-microglobulin binding molecule is a labeled antibody. In some aspects, the labeled antibody is a fluorochrome-labeled antibody.

**[0063]** Also provided herein is a composition comprising an HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755 to 29,364 attached to a solid support. In some aspects, the solid support comprises a bead, well, membrane, tube, column, plate, sepharose, magnetic bead, cell, or chip. In some aspects, the HLA-PEPTIDE antigen comprises a first member of an affinity binding pair and the solid support comprises a second member of the affinity binding pair. In some aspects, the first member is streptavidin and the second member is biotin.

**[0064]** Also provided herein is a host cell comprising a heterologous HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755-29,364. Also provided herein is a host cell

which expresses an HLA subtype as defined by any one of the HLA-PEPTIDE antigens described in SEQ ID NOs:10,755-29,364. Also provided herein is a host cell comprising a polynucleotide encoding an HLA-restricted peptide as defined by any one of the HLA-PEPTIDE antigens in SEQ ID NOs:10,755-29,364.

**[0065]** In some aspects, the host cell does not comprise endogenous MHC. In some aspects, the host cell comprises an exogenous HLA. In some aspects, the host cell is a K562 or A375 cell. In some aspects, the host cell is a cultured cell from a tumor cell line. In some aspects, the tumor cell line expresses an HLA subtype as defined by the same HLA-PEPTIDE antigen that describes the HLA-restricted peptide. In some aspects, the tumor cell line is selected from the group consisting of HCC-1599, NCI-H510A, A375, LN229, NCI-H358, ZR-75-1, MS751, OE19, MOR, BV173, MCF-7, NCI-H82, Colo829, SK-MEL-28, KYSE270, 59M, and NCI-H146.

**[0066]** Also provided herein is a cell culture system comprising a host cell disclosed herein, and a cell culture medium. In some aspects, the host cell expresses an HLA subtype as defined by any one of the HLA-PEPTIDE antigens in SEQ ID NOs:10,755-21,015 and SEQ ID NOs: 21,016-29,364, and wherein the cell culture medium comprises a restricted peptide as defined by the same HLA-PEPTIDE antigen as the HLA subtype. In some aspects, the host cell is a K562 cell which comprises an exogenous HLA, wherein the exogenous HLA is an HLA subtype as defined by any one of the HLA-PEPTIDE antigens in SEQ ID NOs:10,755-29,364, and the cell culture medium comprises a restricted peptide as defined by the same HLA-PEPTIDE antigen defining the HLA subtype.

**[0067]** Also provided herein is a method of identifying an antigen binding protein disclosed herein, comprising providing at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364; and binding the at least one target with the antigen binding protein, thereby identifying the antigen binding protein.

**[0068]** In some aspects, the antigen binding protein is present in a phage display library comprising a plurality of distinct antigen binding proteins. In some aspects, the phage display library is substantially free of antigen binding proteins that non-specifically bind the HLA of the HLA-PEPTIDE antigen.

**[0069]** In some aspects, the binding step is performed more than once, optionally at least three times.

**[0070]** In some aspects, the method further comprises contacting the antigen binding protein with one or more peptide-HLA complexes that are distinct from the HLA-PEPTIDE antigen to determine if the antigen binding protein selectively binds the HLA-PEPTIDE antigen, optionally wherein selectivity is determined by measuring binding affinity of the antigen binding protein to soluble target HLA-PEPTIDE complexes versus soluble HLA-PEPTIDE complexes that are distinct from target complexes, optionally wherein selectivity is determined by measuring binding affinity of the antigen binding protein to target HLA-PEPTIDE complexes expressed on the surface of one or more cells versus HLA-PEPTIDE complexes that are distinct from target complexes expressed on the surface of one or more cells.

**[0071]** Also provided herein is a method of identifying an antigen binding protein disclosed herein, comprising obtaining at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364; administering the HLA-PEPTIDE antigen to a subject, optionally in combination with an adjuvant; and isolating the antigen binding protein from the subject.

**[0072]** In some aspects, isolating the antigen binding protein comprises screening the serum of the subject to identify the antigen binding protein.

**[0073]** In some aspects, the method further comprises contacting the antigen binding protein with one or more peptide-HLA complexes that are distinct from the HLA-PEPTIDE antigen to determine if the antigen binding protein selectively binds to the HLA-PEPTIDE antigen, optionally wherein selectivity is determined by measuring binding affinity of the antigen binding protein to the HLA-PEPTIDE antigen versus soluble HLA-PEPTIDE complexes that are distinct from the HLA-PEPTIDE antigen, optionally wherein selectivity is determined by measuring binding affinity of the antigen binding protein to the HLA-PEPTIDE antigen expressed on the surface of one or more cells versus HLA-PEPTIDE complexes that are distinct from the HLA-PEPTIDE antigen expressed on the surface of one or more cells.

**[0074]** In some aspects, the subject is a mouse, a rabbit, or a llama.

**[0075]** In some aspects, isolating the antigen binding protein comprises isolating a B cell from the subject that expresses the antigen binding protein and optionally directly cloning sequences encoding the antigen binding protein from the isolated B cell. In some aspects, the method further comprises creating a hybridoma using the B cell. In some aspects, the method further comprises cloning CDRs from the B cell. In some aspects, the method further comprises immortalizing the B cell, optionally via EBV transformation.

**[0076]** In some aspects, the method further comprises creating a library that comprises the antigen binding protein of the B cell, optionally wherein the library is phage display or yeast display.

**[0077]** In some aspects, the method further comprises humanizing the antigen binding protein.

**[0078]** Also provided herein is a method of identifying an antigen binding protein disclosed herein, comprising obtaining a cell comprising the antigen binding protein; contacting the cell with an HLA-multimer comprising at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364; and identifying the antigen binding protein via binding between the HLA-multimer and the antigen binding protein. In some aspects, the method further comprises contacting the cell comprising the antigen binding protein with an HLA-multimer comprising a corresponding wildtype sequence of the at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364, and excluding the antigen binding protein if the antigen binding protein binds the HLA-multimer comprising the corresponding wildtype sequence

**[0079]** Also provided herein is a method of identifying an antigen binding protein disclosed herein, comprising providing at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364; and identifying the antigen binding protein using the target.

**[0080]** Also provided herein is an antigen binding protein (ABP) that specifically binds to an HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA Class I molecule and the HLA-restricted peptide are each selected from an HLA-PEPTIDE antigen as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Tables 1C.1, 1C.2, 1C.3, and 1D.

**[0081]** In some aspects, the ABP further comprises an alpha variable ("V") segment, an alpha joining ("J") segment, a beta variable ("V") segment, a beta joining ("J") segment, optionally a beta diversity ("D") segment, and optionally a beta constant region selected from the group consisting of the regions shown in Tables 1C.1, 1C.2, 1C.3, and 1D corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence. In

some aspects, the ABP comprises an alpha variable region and corresponding beta variable region comprising the amino acid sequences selected from the sequences shown in Tables 1A.1, 1A.2, 1A.3, and 1B corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

**[0082]** Also provided herein is an antigen binding protein (ABP) that specifically binds to an HLA-PEPTIDE antigen comprising an HLA-restricted RAS peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA-restricted RAS peptide comprises at least one alteration that makes HLA-restricted RAS peptide sequence distinct from the corresponding peptide sequence of a wild-type RAS peptide, and wherein the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Tables 1C.1, 1C.2, 1C.3, and 1D.

**[0083]** In some aspects, the HLA-PEPTIDE antigen is selected from Table 5A. In some aspects, the HLA-PEPTIDE antigen is selected from Table 5B. In some aspects, the HLA-PEPTIDE antigen is selected from Table 6. In some aspects, HLA-PEPTIDE antigen is selected from Table 7.

**[0084]** In some aspects, HLA-restricted peptide comprises a RAS G12 mutation. In some aspects, the G12 mutation is a G12C, a G12D, a G12V, or a G12A mutation In some aspects, the HLA-PEPTIDE antigen comprises an HLA Class I molecule selected from HLA-A*02:01, HLA-A*11:01, HLA-A*31:01, HLA-C*01:02, and HLA-A*03:01. In some aspects, the RAS G12 mutation is any one or more of: a KRAS, NRAS, and HRAS mutation.

**[0085]** In some aspects, the HLA-PEPTIDE antigen is a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV. In some aspects, the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Table 1C.2. In some aspects, ABP further comprises an alpha variable ("V") segment, an alpha joining ("J") segment, a beta variable ("V") segment, a beta joining ("J") segment, optionally a beta diversity ("D") segment, and optionally a beta constant region selected from the group consisting of the regions shown in Table 1C.2 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence. In some aspects, the ABP comprises an alpha variable region and corresponding beta variable region comprising the

amino acid sequences selected from the sequences shown in Table 1A.2 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

**[0086]** In some aspects, the HLA-PEPTIDE antigen is a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK. In some aspects, the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Table 1C.3. In some aspects, the ABP further comprises an alpha variable ("V") segment, an alpha joining ("J") segment, a beta variable ("V") segment, a beta joining ("J") segment, optionally a beta diversity ("D") segment, and optionally a beta constant region selected from the group consisting of the regions shown in Table 1C.3 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence. In some aspects, the ABP comprises an alpha variable region and corresponding beta variable region comprising the amino acid sequences selected from the sequences shown in Table 1A.3 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

## BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

**[0087]** These and other features, aspects, and advantages of the present invention will become better understood with regard to the following description, and accompanying drawings, where:

**[0088] FIG. 1** shows the general structure of a Human Leukocyte Antigen (HLA) Class I molecule. By User atropos235 on en.wikipedia - Own work, CC BY 2.5, https://commons.wikimedia.org/w/index.php?curid=1805424

**[0089] FIG. 2** depicts flow-cytometry analysis of enriched naïve and memory T cells. Shown are cells labeled using a pool of 6 neoantigen-MHC tetramers ("HLA/SNA") to identify neoantigen specific T cells (left panel, X-axis) and a pool of MHC-tetramers for the corresponding wildtype peptides ("HLA/wild-type"; left panel, Y-axis). Also shown are cells labled for the memory T cell phenotype marker CD45RO (right panel).

**[0090] FIG. 3A** depicts flow-cytometry analysis of expanded T cells that were previously sorted using a pool of 6 neoantigen-MHC tetramers ("HLA/SNA"). Shown are the expanded cells labeled with each of the 6 neoantigen-MHC tetramers and their corresponding wildtype peptide-MHC tetramer.

**[0091] FIG. 3B** depicts flow-cytometry analysis of expanded T cells that were previously sorted using neoantigen-MHC tetramers ("HLA/SNA"). Shown are the expanded cells

labeled with each of the 4 neoantigen-MHC tetramers and their corresponding wildtype peptide-MHC tetramer.

**[0092] FIG. 4** depicts the correlation between EDGE score and the probability of detection of candidate shared neoantigen peptides by targeted Mass Spectrometry.

**[0093] FIG. 5A** depicts flow cytometry gating strategy for detecting CD8+ T cells.

**[0094] FIG. 5B** depicts flow cytometry results demonstrating that a large proportion of CD8+ T cells exhibit binding to the RAS G12V:HLA*1101 pHLA.

**[0095] FIG. 6** depicts depicts flow-cytometry analysis of expanded T cells that were previously sorted using a single neoantigen-MHC tetramer for two different donors. Shown are expanded cells labeled with each of 3 neoantigen-MHC tetramers and their corresponding wildtype peptide-MHC tetramer.

**[0096] FIG. 7** shows titration of DOX administration in regulating expression of a representative neoantigen under a Tet-On system in multiple K562-HLA cell-lines.

**[0097] FIG. 8** shows a representative KRAS G12V peptide VVGAVGVGK observed by mass-spectrometry in a HLA-A*11:01 expressing K562 cell line. Top panels shows detection was DOX dependent (left column no DOX; right panel DOX added), and bottom panels show detection of the heavy peptide control standard was equivalent.

**[0098] FIG. 9** depicts expanded naïve CD8 T gated on CD137+ following neoantigen (left panel) and DMSO (right panel) stimulation.

**[0099]** FIG. 10 illustrates a summary of *in silico* analysis for shared TCR sequences among (i) neoantigen-tetramer labeled cells; (ii) CD137+ neoantigen-stimulated cells; and (iii) CD137+ DMSO-stimulated cells.

**[00100] FIG. 11A** depicts a representative flow cytometry assessment for TCR clone 01CA019_064_F05_0047. Shown are activation markers CD25 (left panels), CD69 (middle panels), and CD137 (right panels) in primary T cells transduced with the indicated TCR and stimulated with a cognate neoantigen (bottom panels) or corresponding wildtype peptide (top panels.

**[00101] FIG. 11B** depicts a representative flow cytometry assessment for TCR clone 01CA019_064_F05_0005. Shown are activation markers CD25 (left panels), CD69 (middle panels), and CD137 (right panels) in primary T cells transduced with the indicated TCR and stimulated with a cognate neoantigen (bottom panels) or corresponding wildtype peptide (top panels.

**[00102]** **FIG. 12** depicts proliferation of primary T cells transduced with indicated candidate TCRs. Shown is the percentage of T cells with diluted CellTrace Violet dye following co-culture with peptide-loaded APCs.

## DETAILED DESCRIPTION

**[00103]** Unless otherwise defined, all terms of art, notations and other scientific terminology used herein are intended to have the meanings commonly understood by those of skill in the art. In some cases, terms with commonly understood meanings are defined herein for clarity and/or for ready reference, and the inclusion of such definitions herein should not necessarily be construed to represent a difference over what is generally understood in the art. The techniques and procedures described or referenced herein are generally well understood and commonly employed using conventional methodologies by those skilled in the art, such as, for example, the widely utilized molecular cloning methodologies described in Sambrook et al., *Molecular Cloning: A Laboratory Manual* 4th ed. (2012) Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY. As appropriate, procedures involving the use of commercially available kits and reagents are generally carried out in accordance with manufacturer-defined protocols and conditions unless otherwise noted.

**[00104]** As used herein, the singular forms "a," "an," and "the" include the plural referents unless the context clearly indicates otherwise. The terms "include," "such as," and the like are intended to convey inclusion without limitation, unless otherwise specifically indicated.

**[00105]** As used herein, the term "comprising" also specifically includes embodiments "consisting of" and "consisting essentially of" the recited elements, unless specifically indicated otherwise.

**[00106]** The term "about" indicates and encompasses an indicated value and a range above and below that value. In certain embodiments, the term "about" indicates the designated value ± 10%, ± 5%, or ± 1%. In certain embodiments, where applicable, the term "about" indicates the designated value(s) ± one standard deviation of that value(s).

**[00107]** The term "antigen binding protein" or "ABP" is used herein in its broadest sense and includes certain types of molecules comprising one or more antigen-binding domains that specifically bind to an antigen or epitope.

**[00108]** In some embodiments, the ABP comprises a TCR. In some embodiments, the ABP consists of a TCR. In some embodiments, the ABP consists essentially of a TCR. An ABP specifically includes intact TCR, TCR fragments, and ABP fragments. In some embodiments,

the ABP comprises an alternative scaffold. In some embodiments, the ABP consists of an alternative scaffold. In some embodiments, the ABP consists essentially of an alternative scaffold. In some embodiments, the ABP comprises a TCRfragment. In some embodiments, the ABP consists of a TCRfragment. In some embodiments, the ABP consists essentially of a TCRfragment.

**[00109]** An "HLA-PEPTIDE ABP," "anti-HLA-PEPTIDE ABP," or "HLA-PEPTIDE-specific ABP" is an ABP, as provided herein, which specifically binds to the antigen HLA-PEPTIDE. An ABP includes proteins comprising one or more antigen-binding domains that specifically bind to an antigen or epitope via a variable region, such as a variable region derived from a T cell (e.g., a TCR).

**[00110]** As used herein, "variable region" refers to a variable sequence that arises from a recombination event, for example, it can include a V, J, and/or D segment of a T cell receptor (TCR) sequence from a T cell, such as an activated T cell.

**[00111]** The term "antigen-binding domain" means the portion of an ABP that is capable of specifically binding to an antigen or epitope. An antigen-binding domain can include TCR CDRs, e.g., αCDR1, αCDR2, αCDR3, βCDR1, βCDR2, and βCDR3. TCR CDRs are described herein.

**[00112]** The amino acid sequence boundaries of a TCR CDR can be determined by one of skill in the art using any of a number of known numbering schemes, including but not limited to the IMGT unique numbering, as described by LeFranc, M.-P, Immunol Today. 1997 Nov;18(11):509; Lefranc, M.-P., "IMGT Locus on Focus: A new section of Experimental and Clinical Immunogenetics", Exp. Clin. Immunogenet., 15, 1-7 (1998); Lefranc and Lefranc, The T Cell Receptor FactsBook; and M.-P. Lefranc/ Developmental and Comparative Immunology 27 (2003) 55–77, all of which are incorporated by reference.

**[00113]** An "ABP fragment" comprises a portion of an intact ABP, such as the antigen-binding or variable region of an intact ABP. ABP fragments include, for example, TCR fragments.

**[00114]** The term "alternative scaffold" refers to a molecule in which one or more regions may be diversified to produce one or more antigen-binding domains that specifically bind to an antigen or epitope. In some embodiments, the antigen-binding domain binds the antigen or epitope with specificity and affinity similar to that of an ABP. Exemplary alternative scaffolds include those derived from fibronectin (e.g., Adnectins$^{TM}$), the β-sandwich (e.g.,

iMab), lipocalin (e.g., Anticalins®), EETI-II/AGRP, BPTI/LACI-D1/ITI-D2 (e.g., Kunitz domains), thioredoxin peptide aptamers, protein A (e.g., Affibody®), ankyrin repeats (e.g., DARPins), gamma-B-crystallin/ubiquitin (e.g., Affilins), $CTLD_3$ (e.g., Tetranectins), Fynomers, and (LDLR-A module) (e.g., Avimers). Additional information on alternative scaffolds is provided in Binz et al., *Nat. Biotechnol.*, 2005 23:1257-1268; Skerra, *Current Opin. in Biotech.*, 2007 18:295-304; and Silacci et al., *J. Biol. Chem.*, 2014, 289:14392-14398; each of which is incorporated by reference in its entirety. An alternative scaffold is one type of ABP.

**[00115]** "Affinity" refers to the strength of the sum total of non-covalent interactions between a single binding site of a molecule (e.g., an ABP) and its binding partner (e.g., an antigen or epitope). Unless indicated otherwise, as used herein, "affinity" refers to intrinsic binding affinity, which reflects a 1:1 interaction between members of a binding pair (e.g., ABP and antigen or epitope). The affinity of a molecule X for its partner Y can be represented by the dissociation equilibrium constant ($K_D$). The kinetic components that contribute to the dissociation equilibrium constant are described in more detail below. Affinity can be measured by common methods known in the art, including those described herein, such as surface plasmon resonance (SPR) technology (e.g., BIACORE®) or biolayer interferometry (e.g., FORTEBIO®).

**[00116]** With regard to the binding of an ABP to a target molecule, the terms "bind," "specific binding," "specifically binds to," "specific for," "selectively binds," and "selective for" a particular antigen (e.g., a polypeptide target) or an epitope on a particular antigen mean binding that is measurably different from a non-specific or non-selective interaction (e.g., with a non-target molecule). Specific binding can be measured, for example, by measuring binding to a target molecule and comparing it to binding to a non-target molecule. Specific binding can also be determined by competition with a control molecule that mimics the epitope recognized on the target molecule. In that case, specific binding is indicated if the binding of the ABP to the target molecule is competitively inhibited by the control molecule. In some aspects, the affinity of a HLA-PEPTIDE ABP for a non-target molecule is less than about 50% of the affinity for HLA-PEPTIDE. In some aspects, the affinity of a HLA-PEPTIDE ABP for a non-target molecule is less than about 40% of the affinity for HLA-PEPTIDE. In some aspects, the affinity of a HLA-PEPTIDE ABP for a non-target molecule is less than about 30% of the affinity for HLA-PEPTIDE. In some aspects, the affinity of a

HLA-PEPTIDE ABP for a non-target molecule is less than about 20% of the affinity for HLA-PEPTIDE. In some aspects, the affinity of a HLA-PEPTIDE ABP for a non-target molecule is less than about 10% of the affinity for HLA-PEPTIDE. In some aspects, the affinity of a HLA-PEPTIDE ABP for a non-target molecule is less than about 1% of the affinity for HLA-PEPTIDE. In some aspects, the affinity of a HLA-PEPTIDE ABP for a non-target molecule is less than about 0.1% of the affinity for HLA-PEPTIDE.

**[00117]** The term "$k_d$" ($sec^{-1}$), as used herein, refers to the dissociation rate constant of a particular ABP - antigen interaction. This value is also referred to as the $k_{off}$ value.

**[00118]** The term "$k_a$" ($M^{-1} \times sec^{-1}$), as used herein, refers to the association rate constant of a particular ABP -antigen interaction. This value is also referred to as the $k_{on}$ value.

**[00119]** The term "$K_D$" (M), as used herein, refers to the dissociation equilibrium constant of a particular ABP -antigen interaction. $K_D = k_d/k_a$. In some embodiments, the affinity of an ABP is described in terms of the $K_D$ for an interaction between such ABP and its antigen. For clarity, as known in the art, a smaller $K_D$ value indicates a higher affinity interaction, while a larger $K_D$ value indicates a lower affinity interaction.

**[00120]** The term "$K_A$" ($M^{-1}$), as used herein, refers to the association equilibrium constant of a particular ABP-antigen interaction. $K_A = k_a/k_d$.

**[00121]** An "immunoconjugate" is an ABP conjugated to one or more heterologous molecule(s), such as a therapeutic (cytokine, for example) or diagnostic agent.

**[00122]** When used herein in the context of two or more ABPs, the term "competes with" or "cross-competes with" indicates that the two or more ABPs compete for binding to an antigen (e.g., HLA-PEPTIDE). In one exemplary assay, HLA-PEPTIDE is coated on a surface and contacted with a first HLA-PEPTIDE ABP, after which a second HLA-PEPTIDE ABP is added. In another exemplary assay, a first HLA-PEPTIDE ABP is coated on a surface and contacted with HLA-PEPTIDE, and then a second HLA-PEPTIDE ABP is added. If the presence of the first HLA-PEPTIDE ABP reduces binding of the second HLA-PEPTIDE ABP, in either assay, then the ABPs compete with each other. The term "competes with" also includes combinations of ABPs where one ABP reduces binding of another ABP, but where no competition is observed when the ABPs are added in the reverse order. However, in some embodiments, the first and second ABPs inhibit binding of each other, regardless of the order in which they are added. In some embodiments, one ABP reduces binding of another ABP to its antigen by at least 25%, at least 50%, at least 60%, at least 70%, at least 80%, at least

85%, at least 90%, or at least 95%. A skilled artisan can select the concentrations of the ABPs used in the competition assays based on the affinities of the ABPs for HLA-PEPTIDE and the valency of the ABPs. The assays described in this definition are illustrative, and a skilled artisan can utilize any suitable assay to determine if ABPs compete with each other. Suitable assays are described, for example, in Cox et al., "Immunoassay Methods," in *Assay Guidance Manual [Internet]*, Updated December 24, 2014 (www.ncbi.nlm.nih.gov/books/NBK92434/; accessed September 29, 2015); Silman et al., *Cytometry*, 2001, 44:30-37; and Finco et al., *J. Pharm. Biomed. Anal.*, 2011, 54:351-358; each of which is incorporated by reference in its entirety.

**[00123]** The term "epitope" means a portion of an antigen that specifically binds to an ABP. Epitopes frequently consist of surface-accessible amino acid residues and/or sugar side chains and may have specific three dimensional structural characteristics, as well as specific charge characteristics. Conformational and non-conformational epitopes are distinguished in that the binding to the former but not the latter may be lost in the presence of denaturing solvents. An epitope may comprise amino acid residues that are directly involved in the binding, and other amino acid residues, which are not directly involved in the binding. The epitope to which an ABP binds can be determined using known techniques for epitope determination such as, for example, testing for ABP binding to HLA-PEPTIDE variants with different point-mutations, or to chimeric HLA-PEPTIDE variants.

**[00124]** As used herein, the term percent "identity," in the context of two or more nucleic acid or polypeptide sequences, refer to two or more sequences or subsequences that have a specified percentage of nucleotides or amino acid residues that are the same, when compared and aligned for maximum correspondence, as measured using one of the sequence comparison algorithms described below (e.g., BLASTP and BLASTN or other algorithms available to persons of skill) or by visual inspection. Depending on the application, the percent "identity" can exist over a region of the sequence being compared, e.g., over a functional domain, or, alternatively, exist over the full length of the two sequences to be compared.

**[00125]** For sequence comparison, typically one sequence acts as a reference sequence to which test sequences are compared. When using a sequence comparison algorithm, test and reference sequences are input into a computer, subsequence coordinates are designated, if necessary, and sequence algorithm program parameters are designated. The sequence

comparison algorithm then calculates the percent sequence identity for the test sequence(s) relative to the reference sequence, based on the designated program parameters. Alternatively, sequence similarity or dissimilarity can be established by the combined presence or absence of particular nucleotides, or, for translated sequences, amino acids at selected sequence positions (e.g., sequence motifs).

**[00126]** Optimal alignment of sequences for comparison can be conducted, e.g., by the local homology algorithm of Smith & Waterman, Adv. Appl. Math. 2:482 (1981), by the homology alignment algorithm of Needleman & Wunsch, J. Mol. Biol. 48:443 (1970), by the search for similarity method of Pearson & Lipman, Proc. Nat'l. Acad. Sci. USA 85:2444 (1988), by computerized implementations of these algorithms (GAP, BESTFIT, FASTA, and TFASTA in the Wisconsin Genetics Software Package, Genetics Computer Group, 575 Science Dr., Madison, Wis.), or by visual inspection (see generally Ausubel et al., infra).

**[00127]** One example of an algorithm that is suitable for determining percent sequence identity and sequence similarity is the BLAST algorithm, which is described in Altschul et al., J. Mol. Biol. 215:403-410 (1990). Software for performing BLAST analyses is publicly available through the National Center for Biotechnology Information.

**[00128]** A "conservative substitution" or a "conservative amino acid substitution," refers to the substitution an amino acid with a chemically or functionally similar amino acid. Conservative substitution tables providing similar amino acids are well known in the art. By way of example, the groups of amino acids provided in Tables 2-4 are, in some embodiments, considered conservative substitutions for one another.

**Table 2.** Selected groups of amino acids that are considered conservative substitutions for one another, in certain embodiments.

| | |
|---|---|
| *Acidic Residues* | D and E |
| *Basic Residues* | K, R, and H |
| *Hydrophilic Uncharged Residues* | S, T, N, and Q |
| *Aliphatic Uncharged Residues* | G, A, V, L, and I |
| *Non-polar Uncharged Residues* | C, M, and P |
| *Aromatic Residues* | F, Y, and W |

**Table 3.** Additional selected groups of amino acids that are considered conservative substitutions for one another, in certain embodiments.

| | |
|---|---|
| *Group 1* | A, S, and T |
| *Group 2* | D and E |
| *Group 3* | N and Q |
| *Group 4* | R and K |
| *Group 5* | I, L, and M |
| *Group 6* | F, Y, and W |

**Table 4.** Further selected groups of amino acids that are considered conservative substitutions for one another, in certain embodiments.

| | |
|---|---|
| *Group A* | A and G |
| *Group B* | D and E |
| *Group C* | N and Q |
| *Group D* | R, K, and H |
| *Group E* | I, L, M, V |
| *Group F* | F, Y, and W |
| *Group G* | S and T |
| *Group H* | C and M |

**[00129]** Additional conservative substitutions may be found, for example, in Creighton, *Proteins: Structures and Molecular Properties* 2nd ed. (1993) W. H. Freeman & Co., New York, NY. An ABP generated by making one or more conservative substitutions of amino acid residues in a parent ABP is referred to as a "conservatively modified variant."

**[00130]** The term "amino acid" refers to the twenty common naturally occurring amino acids. Naturally occurring amino acids include alanine (Ala; A), arginine (Arg; R), asparagine (Asn; N), aspartic acid (Asp; D), cysteine (Cys; C); glutamic acid (Glu; E), glutamine (Gln; Q), Glycine (Gly; G); histidine (His; H), isoleucine (Ile; I), leucine (Leu; L), lysine (Lys; K), methionine (Met; M), phenylalanine (Phe; F), proline (Pro; P), serine (Ser; S), threonine (Thr; T), tryptophan (Trp; W), tyrosine (Tyr; Y), and valine (Val; V).

**[00131]** The term "vector," as used herein, refers to a nucleic acid molecule capable of propagating another nucleic acid to which it is linked. The term includes the vector as a self-replicating nucleic acid structure as well as the vector incorporated into the genome of a host cell into which it has been introduced. Certain vectors are capable of directing the expression of nucleic acids to which they are operatively linked. Such vectors are referred to herein as "expression vectors."

**[00132]** The terms "host cell," "host cell line," and "host cell culture" are used interchangeably and refer to cells into which an exogenous nucleic acid has been introduced, and the progeny of such cells. Host cells include "transformants" (or "transformed cells") and "transfectants" (or "transfected cells"), which each include the primary transformed or transfected cell and progeny derived therefrom. Such progeny may not be completely identical in nucleic acid content to a parent cell, and may contain mutations.

**[00133]** The term "treating" (and variations thereof such as "treat" or "treatment") refers to clinical intervention in an attempt to alter the natural course of a disease or condition in a subject in need thereof. Treatment can be performed both for prophylaxis and during the course of clinical pathology. Desirable effects of treatment include preventing occurrence or recurrence of disease, alleviation of symptoms, diminishment of any direct or indirect pathological consequences of the disease, preventing metastasis, decreasing the rate of disease progression, amelioration or palliation of the disease state, and remission or improved prognosis.

**[00134]** As used herein, the term "therapeutically effective amount" or "effective amount" refers to an amount of an ABP or pharmaceutical composition provided herein that, when administered to a subject, is effective to treat a disease or disorder.

**[00135]** As used herein, the term "subject" means a mammalian subject. Exemplary subjects include humans, monkeys, dogs, cats, mice, rats, cows, horses, camels, goats, rabbits, and sheep. In certain embodiments, the subject is a human. In some embodiments the subject has a disease or condition that can be treated with an ABP provided herein. In some aspects, the disease or condition is a cancer. In some aspects, the disease or condition is a viral infection.

**[00136]** The term "package insert" is used to refer to instructions customarily included in commercial packages of therapeutic or diagnostic products (e.g., kits) that contain information about the indications, usage, dosage, administration, combination therapy, contraindications and/or warnings concerning the use of such therapeutic or diagnostic products.

**[00137]** The term "tumor" refers to all neoplastic cell growth and proliferation, whether malignant or benign, and all pre-cancerous and cancerous cells and tissues. The terms "cancer," "cancerous," "cell proliferative disorder," "proliferative disorder" and "tumor" are not mutually exclusive as referred to herein. The terms "cell proliferative disorder" and

"proliferative disorder" refer to disorders that are associated with some degree of abnormal cell proliferation. In some embodiments, the cell proliferative disorder is a cancer. In some aspects, the tumor is a solid tumor. In some aspects, the tumor is a hematologic malignancy.

**[00138]** The term "pharmaceutical composition" refers to a preparation which is in such form as to permit the biological activity of an active ingredient contained therein to be effective in treating a subject, and which contains no additional components which are unacceptably toxic to the subject in the amounts provided in the pharmaceutical composition.

**[00139]** The terms "modulate" and "modulation" refer to reducing or inhibiting or, alternatively, activating or increasing, a recited variable.

**[00140]** The terms "increase" and "activate" refer to an increase of 10%, 20%, 30%, 40%, 50%, 60%, 70%, 75%, 80%, 85%, 90%, 95%, 100%, 2-fold, 3-fold, 4-fold, 5-fold, 10-fold, 20-fold, 50-fold, 100-fold, or greater in a recited variable.

**[00141]** The terms "reduce" and "inhibit" refer to a decrease of 10%, 20%, 30%, 40%, 50%, 60%, 70%, 75%, 80%, 85%, 90%, 95%, 2-fold, 3-fold, 4-fold, 5-fold, 10-fold, 20-fold, 50-fold, 100-fold, or greater in a recited variable.

**[00142]** The term "agonize" refers to the activation of receptor signaling to induce a biological response associated with activation of the receptor. An "agonist" is an entity that binds to and agonizes a receptor.

**[00143]** The term "antagonize" refers to the inhibition of receptor signaling to inhibit a biological response associated with activation of the receptor. An "antagonist" is an entity that binds to and antagonizes a receptor.

**[00144]** The terms "nucleic acids" and "polynucleotides" may be used interchangeably herein to refer to polymeric form of nucleotides of any length, either deoxyribonucleotides or ribonucleotides, or analogs thereof. Polynucleotides can include, but are not limited to coding or non-coding regions of a gene or gene fragment, loci (locus) defined from linkage analysis, exons, introns, messenger RNA (mRNA), cDNA, recombinant polynucleotides, branched polynucleotides, plasmids, vectors, isolated DNA, isolated RNA, nucleic acid probes, and primers. A polynucleotide may comprise modified nucleotides, such as methylated nucleotides and nucleotide analogs. Exemplary modified nucleotides include, e.g., 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-( carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine,

inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-substituted adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthioN6- isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2- thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5- oxyacetic acid methylester, 3-(3-amino-3-N-2-carboxypropyl) uracil, and 2,6-diaminopurine.

**[00145]** As used herein the term "antigen" is a substance that induces an immune response. An antigen can be a neoantigen. An antigen can be a "shared antigen" that is an antigen found among a specific population, *e.g.*, a specific population of cancer patients. Antigens can include HLA-PEPTIDE antigens.

**[00146]** As used herein the term "neoantigen" is an antigen that has at least one alteration that makes it distinct from the corresponding wild-type antigen, e.g., via mutation in a tumor cell or post-translational modification specific to a tumor cell. In some embodiments, the alteration occurs in tumor or cancer cells. In some embodiments, the alteration does not occur in a non-tumor or a non-cancer cell. In some embodiments, the alteration is absent from normal tissue. A neoantigen can include a polypeptide sequence or a nucleotide sequence. A mutation can include a frameshift or nonframeshift indel, missense or nonsense substitution, splice site alteration, genomic rearrangement or gene fusion, or any genomic or expression alteration giving rise to a neoORF. A mutation can also include a splice variant. Post-translational modifications specific to a tumor cell can include aberrant phosphorylation. Post-translational modifications specific to a tumor cell can also include a proteasome-generated spliced antigen. *See* Liepe et al., A large fraction of HLA class I ligands are proteasome-generated spliced peptides; Science. 2016 Oct 21;354(6310):354-358. A neoantigen can be a shared neoantigen if it can be found among multiple patients in a specific population (e.g., a specific population of cancer patients). Neoantigens can include HLA-PEPTIDE neoantigens.

**[00147]** As used herein, the terms "HLA-PEPTIDE," "pHLA," "peptide-HLA," and "peptide-HLA complex," are used interchangeably herein to refer to an antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of

the HLA Class I molecule. Such antigens are defined by a specific HLA-restricted peptide having a defined amino acid sequence complexed with a specific HLA Class I subtype.

**[00148]** In some embodiments, an "HLA-PEPTIDE neoantigen," a "pHLA neoantigen," and a "peptide-HLA neoantigen" are used interchangeably herein to refer to an HLA-PEPTIDE that comprises at least one alteration that makes it distinct from the corresponding wild-type HLA-PEPTIDE antigen, e.g., via mutation in a tumor cell or post-translational modification specific to a tumor cell. In some embodiments, the at least one alteration is in the restricted peptide sequence, such that the restricted peptide of the HLA-PEPTIDE neoantigen is distinguished from a corresponding restricted peptide sequence without the alteration, e.g., a restricted peptide containing the wild-type sequence.

**[00149]** Exemplary HLA-PEPTIDE neoantigens and shared HLA-PEPTIDE neoantigens are shown in Table A (SEQ ID NO:10,755-21,015), in the AACR GENIE Results (SEQ ID NO:21,016-29,357), and in SEQ ID NOs 29358-29364; corresponding genes and somatic alterations associated with each antigen are also shown. Such pHLA neoantigens and shared pHLA neoantigens are useful for inducing an immune response in a subject via administration.The subject can be identified for administration through the use of various diagnostic methods, e.g., patient selection methods described herein.

**[00150]** As used herein the term "tumor antigen" is a antigen present in a subject's tumor cell or tissue but not in the subject's corresponding normal cell or tissue, or derived from a polypeptide known to or have been found to have altered expression in a tumor cell or cancerous tissue in comparison to a normal cell or tissue.

**[00151]** As used herein the term "candidate antigen" is a mutation or other aberration giving rise to a sequence that may represent an antigen.

**[00152]** As used herein the term "coding region" is the portion(s) of a gene that encode protein.

**[00153]** As used herein the term "coding mutation" is a mutation occurring in a coding region.

**[00154]** As used herein the term "ORF" means open reading frame.

**[00155]** As used herein the term "NEO-ORF" is a tumor-specific ORF arising from a mutation or other aberration such as splicing.

**[00156]** As used herein the term "missense mutation" is a mutation causing a substitution from one amino acid to another.

**[00157]** As used herein the term "nonsense mutation" is a mutation causing a substitution from an amino acid to a stop codon or causing removal of a canonical start codon.

**[00158]** As used herein the term "frameshift mutation" is a mutation causing a change in the frame of the protein.

**[00159]** As used herein the term "indel" is an insertion or deletion of one or more nucleic acids.

**[00160]** As used herein the term "non-stop or read-through" is a mutation causing the removal of the natural stop codon.

## HLA-PEPTIDE ANTIGENS

**[00161]** The major histocompatibility complex (MHC) is a complex encoded by a group of linked loci, which are collectively termed H-2 in the mouse and HLA in humans. The two principal classes of the MHC antigens, class I and class II, each comprise a set of cell surface glycoproteins which play a role in determining tissue type and transplant compatibility. In transplantation reactions, cytotoxic T-cells (CTLs) respond mainly against class I glycoproteins, while helper T-cells respond mainly against class II glycoproteins.

**[00162]** Human major histocompatibility complex (MHC) class I molecules, referred to interchangeably herein as HLA Class I molecules, are expressed on the surface of nearly all cells. These molecules function in presenting peptides which are mainly derived from endogenously synthesized proteins to, e.g., CD8+ T cells via an interaction with the alpha-beta T-cell receptor. The class I MHC molecule comprises a heterodimer composed of a 46-kDa α chain which is non-covalently associated with the 12-kDa light chain beta-2 microglobulin. The α chain generally comprises α1 and α2 domains which form a groove for presenting an HLA-restricted peptide, and an α3 plasma membrane-spanning domain which interacts with the CD8 co-receptor of T-cells. FIG. 1 depicts the general structure of a Class I HLA molecule. Some TCRs can bind MHC class I independently of CD8 coreceptor (see, e.g., Kerry SE, Buslepp J, Cramer LA, et al. Interplay between TCR Affinity and Necessity of Coreceptor Ligation: High-Affinity Peptide-MHC/TCR Interaction Overcomes Lack of CD8 Engagement. Journal of immunology (Baltimore, Md : 1950). 2003;171(9):4493-4503.)

**[00163]** Class I MHC-restricted peptides (also referred to interchangeably herein as HLA-restricted antigens, HLA-restricted peptides, antigenic peptides, MHC-restricted antigens, restricted peptides, or peptides) generally bind to the heavy chain alpha1-alpha2 groove via about two or three anchor residues that interact with corresponding binding pockets in the

MHC molecule. The beta-2 microglobulin chain plays an important role in MHC class I intracellular transport, peptide binding, and conformational stability. For most class I molecules, the formation of a heterotrimeric complex of the MHC class I heavy chain, peptide (self, non-self, and/or antigenic) and beta-2 microglobulin leads to protein maturation and export to the cell-surface.

**[00164]** Binding of a given HLA subtype to an HLA-restricted peptide forms a complex with a unique and novel surface that can be specifically recognized by an ABP such as, e.g., a TCR on a T cell.

**[00165]** Accordingly, provided herein are HLA-PEPTIDE antigens comprising a specific HLA-restricted peptide having a defined amino acid sequence complexed with a specific HLA subtype.

**[00166]** HLA-PEPTIDE antigens identified herein may be useful for cancer immunotherapy. In some embodiments, the HLA-PEPTIDE antigens identified herein are presented on the surface of a tumor cell. The HLA-PEPTIDE antigens identified herein may be expressed by tumor cells in a human subject. The HLA-PEPTIDE antigens identified herein may be expressed by tumor cells in a population of human subjects. For example, the HLA-PEPTIDE antigens identified herein may be shared HLA-PEPTIDE antigens which are commonly expressed in a population of human subjects with cancer.

**[00167]** The HLA-PEPTIDE antigens identified herein may have a prevalence with an individual tumor type The prevalence with an individual tumor type may be about 0.1%, 0.2%, 0.3%, 0.4%, 0.5%, 0.6%, 0.7%, 0.8%, 0.9%, 1%, 1%, 2%, 3%, 4%, 5%, 6%, 7%, 8%, 9%, 10%, 11%, 12%, 13%, 14%, 15%, 16%, 17%, 18%, 19%, 20%, 21%, 22%, 23%, 24%, 25%, 26%, 27%, 28%, 29%, 30%, 31%, 32%, 33%, 34%, 35%, 36%, 37%, 38%, 39%, 40%, 41%, 42%, 43%, 44%, 45%, 46%, 47%, 48%, 49%, 50%, 51%, 52%, 53%, 54%, 55%, 56%, 57%, 58%, 59%, 60%, 61%, 62%, 63%, 64%, 65%, 66%, 67%, 68%, 69%, 70%, 71%, 72%, 73%, 74%, 75%, 76%, 77%, 78%, 79%, 80%, 81%, 82%, 83%, 84%, 85%, 86%, 87%, 88%, 89%, 90%, 91%, 92%, 93%, 94%, 95%, 96%, 97%, 98%, 99%, or 100%. The prevalence with an individual tumor type may be about 0.1%-100%, 0.2-50%, 0.5-25%, or 1-10%.

***Exemplary HLA Class I subtypes of the pHLA neoantigens***

**[00168]** In humans, there are many MHC haplotypes (referred to interchangeably herein as MHC subtypes, HLA subtypes, MHC types, and HLA types). Exemplary HLA subtypes include, by way of example only, 2 digit, 4 digit, 6 digit, and 8 digit subtypes. A full list of

HLA Class Alleles can be found on http://hla.alleles.org/alleles/. For example, a full list of HLA Class I Alleles can be found on http://hla.alleles.org/alleles/class1.html. Exemplary HLA Class I subtypes include any of the HLA subtypes disclosed in in Table A (see SEQ ID NO:10,755-21,015) in the AACR GENIE results (see SEQ ID NO: 21,016-29,357), and in SEQ ID NOs: 29358-29364 disclosed herein. Table A neoantigens and the AACR GENIE Results are disclosed in PCT/US2019/033830, filed on May 23, 2019, which application is hereby incorporated by reference in its entirety.

***Exemplary HLA-restricted peptides***

**[00169]** The HLA-restricted peptides (referred to interchangeably herein) as "restricted peptides" can be peptide fragments of tumor-associated neoantigens, e.g., shared neoantigens. The peptide fragments can include any of the amino acid sequences disclosed in Table A (see SEQ ID NO:10,755-21,015), in the AACR GENIE results (see SEQ ID NO: 21,016-29,357), and in SEQ ID NOs: 29358-29364 disclosed herein. Table A neoantigens and the AACR GENIE Results are disclosed in PCT/US2019/033830, filed on May 23, 2019, which application is hereby incorporated by reference in its entirety.

**[00170]** Accordingly, disclosed herein are isolated peptides that comprise tumor specific mutations identified by the methods disclosed herein, peptides that comprise known tumor specific mutations, and mutant polypeptides or fragments thereof identified by methods disclosed herein. Neoantigen peptides can be described in the context of their coding sequence where a neoantigen includes the nucleotide sequence (e.g., DNA or RNA) that codes for the related polypeptide sequence.

**[00171]** Also disclosed herein are peptides, e.g., restricted peptides derived from any polypeptide known to or have been found to have altered expression in a tumor cell or cancerous tissue in comparison to a normal cell or tissue, for example any polypeptide known to or have been found to be aberrantly expressed in a tumor cell or cancerous tissue in comparison to a normal cell or tissue. Suitable polypeptides from which the restricted peptides can be derived can be found for example in the COSMIC database. COSMIC curates comprehensive information on somatic mutations in human cancer. In some embodiments, the restricted peptide contains the tumor specific mutation.

**[00172]** One or more restricted peptides can comprise at least one of: a binding affinity with MHC with an IC50 value of less than 1000nM, for MHC Class I peptides a length of 8-15, 8, 9, 10, 11, 12, 13, 14, or 15 amino acids, presence of sequence motifs within or near the

peptide promoting proteasome cleavage, and presence or sequence motifs promoting TAP transport.

**[00173]** The restricted peptides may have a size of about 5, about 6, about 7, about 8, about 9, about 10, about 11, about 12, about 13, about 14, or about 15 amino acid residues, and any range derivable therein. In particular embodiments, the restricted peptide has a size of about 8, about 9, about 10, about 11, or about 12 amino molecule residues. The restricted peptide may be about 5-15 amino acids in length, preferably may be about 7-13 amino acids in length, or more preferably may be about 8-12 amino acids in length.

***Exemplary shared HLA-PEPTIDE neoantigens***

**[00174]** Exemplary shared HLA-PEPTIDE neoantigens are shown in Table A (see SEQ ID NO:10,755-21,015), in the AACR GENIE results (see SEQ ID NO: 21,016-29,357), and in SEQ ID NOs: 29358-29364 disclosed herein. Table A neoantigens and the AACR GENIE Results are disclosed in PCT/US2019/033830, filed on May 23, 2019, which application is hereby incorporated by reference in its entirety.

**[00175]** One or more HLA-PEPTIDE neoantigens can be presented on the surface of a tumor.

**[00176]** One or more HLA-PEPTIDE neoantigens can be immunogenic in a subject having a tumor, e.g., capable of eliciting a T cell response or a B cell response in the subject.

**[00177]** If desirable, a longer peptide can be designed in several ways. In one case, when presentation likelihoods of peptides on HLA alleles are predicted or known, a longer peptide could consist of either: (1) individual presented peptides with an extensions of 2-5 amino acids toward the N- and C-terminus of each corresponding gene product; (2) a concatenation of some or all of the presented peptides with extended sequences for each. In another case, when sequencing reveals a long (>10 residues) neoepitope sequence present in the tumor (e.g. due to a frameshift, read-through or intron inclusion that leads to a novel peptide sequence), a longer peptide would consist of: (3) the entire stretch of novel tumor-specific amino acids--thus bypassing the need for computational or in vitro test-based selection of the strongest HLA-presented shorter peptide. In both cases, use of a longer peptide allows endogenous processing by patient cells and may lead to more effective antigen presentation and induction of T cell responses.

**[00178]** Antigenic peptides and polypeptides can be presented on an HLA protein. In some aspects antigenic peptides and polypeptides are presented on an HLA protein with greater

affinity than a wild-type peptide. In some aspects, a antigenic peptide or polypeptide can have an IC50 of at least less than 5000 nM, at least less than 1000 nM, at least less than 500 nM, at least less than 250 nM, at least less than 200 nM, at least less than 150 nM, at least less than 100 nM, at least less than 50 nM or less.

**[00179]** In some aspects, antigenic peptides and polypeptides do not induce an autoimmune response and/or invoke immunological tolerance when administered to a subject.

**[00180]** Also provided are compositions comprising at least two or more antigenic peptides. In some embodiments the composition contains at least two distinct peptides. At least two distinct peptides can be derived from the same polypeptide. By distinct polypeptides is meant that the peptide vary by length, amino acid sequence, or both. The peptides are derived from any polypeptide known to or have been found to contain a tumor specific mutation or peptides derived from any polypeptide known to or have been found to have altered expression in a tumor cell or cancerous tissue in comparison to a normal cell or tissue, for example any polypeptide known to or have been found to be aberrantly expressed in a tumor cell or cancerous tissue in comparison to a normal cell or tissue. Suitable polypeptides from which the antigenic peptides can be derived can be found for example in the COSMIC database or the AACR Genomics Evidence Neoplasia Information Exchange (GENIE) database. COSMIC curates comprehensive information on somatic mutations in human cancer. AACR GENIE aggregates and links clinical-grade cancer genomic data with clinical outcomes from tens of thousands of cancer patients. The peptide contains the tumor specific mutation. In some aspects the tumor specific mutation is a driver mutation for a particular cancer type.

**[00181]** Antigenic peptides and polypeptides having a desired activity or property can be modified to provide certain desired attributes, e.g., improved pharmacological characteristics, while increasing or at least retaining substantially all of the biological activity of the unmodified peptide to bind the desired MHC molecule and activate the appropriate T cell. For instance, antigenic peptide and polypeptides can be subject to various changes, such as substitutions, either conservative or non-conservative, where such changes might provide for certain advantages in their use, such as improved MHC binding, stability or presentation. By conservative substitutions is meant replacing an amino acid residue with another which is biologically and/or chemically similar, e.g., one hydrophobic residue for another, or one polar residue for another. The substitutions include combinations such as Gly, Ala; Val, Ile, Leu,

Met; Asp, Glu; Asn, Gln; Ser, Thr; Lys, Arg; and Phe, Tyr. The effect of single amino acid substitutions may also be probed using D-amino acids. Such modifications can be made using well known peptide synthesis procedures, as described in e.g., Merrifield, Science 232:341-347 (1986), Barany & Merrifield, The Peptides, Gross & Meienhofer, eds. (N.Y., Academic Press), pp. 1-284 (1979); and Stewart & Young, Solid Phase Peptide Synthesis, (Rockford, Ill., Pierce), 2d Ed. (1984).

**[00182]** Modifications of peptides and polypeptides with various amino acid mimetics or unnatural amino acids can be particularly useful in increasing the stability of the peptide and polypeptide in vivo. Stability can be assayed in a number of ways. For instance, peptidases and various biological media, such as human plasma and serum, have been used to test stability. See, e.g., Verhoef et al., Eur. J. Drug Metab Pharmacokin. 11:291-302 (1986). Half-life of the peptides can be conveniently determined using a 25% human serum (v/v) assay. The protocol is generally as follows. Pooled human serum (Type AB, non-heat inactivated) is delipidated by centrifugation before use. The serum is then diluted to 25% with RPMI tissue culture media and used to test peptide stability. At predetermined time intervals a small amount of reaction solution is removed and added to either 6% aqueous trichloracetic acid or ethanol. The cloudy reaction sample is cooled (4 degrees C) for 15 minutes and then spun to pellet the precipitated serum proteins. The presence of the peptides is then determined by reversed-phase HPLC using stability-specific chromatography conditions.

**[00183]** The peptides and polypeptides can be modified to provide desired attributes other than improved serum half-life. For instance, the ability of the peptides to induce CTL activity can be enhanced by linkage to a sequence which contains at least one epitope that is capable of inducing a T helper cell response. Immunogenic peptides/T helper conjugates can be linked by a spacer molecule. The spacer is typically comprised of relatively small, neutral molecules, such as amino acids or amino acid mimetics, which are substantially uncharged under physiological conditions. The spacers are typically selected from, e.g., Ala, Gly, or other neutral spacers of nonpolar amino acids or neutral polar amino acids. It will be understood that the optionally present spacer need not be comprised of the same residues and thus can be a hetero- or homo-oligomer. When present, the spacer will usually be at least one or two residues, more usually three to six residues. Alternatively, the peptide can be linked to the T helper peptide without a spacer.

**[00184]** An antigenic peptide can be linked to the T helper peptide either directly or via a spacer either at the amino or carboxy terminus of the peptide. The amino terminus of either the antigenic peptide or the T helper peptide can be acylated. Exemplary T helper peptides include tetanus toxoid 830-843, influenza 307-319, malaria circumsporozoite 382-398 and 378-389.

**[00185]** Proteins or peptides can be made by any technique known to those of skill in the art, including the expression of proteins, polypeptides or peptides through standard molecular biological techniques, the isolation of proteins or peptides from natural sources, or the chemical synthesis of proteins or peptides. The nucleotide and protein, polypeptide and peptide sequences corresponding to various genes have been previously disclosed, and can be found at computerized databases known to those of ordinary skill in the art. One such database is the National Center for Biotechnology Information's Genbank and GenPept databases located at the National Institutes of Health website. The coding regions for known genes can be amplified and/or expressed using the techniques disclosed herein or as would be known to those of ordinary skill in the art. Alternatively, various commercial preparations of proteins, polypeptides and peptides are known to those of skill in the art.

**[00186]** In some embodiments, an antigen can include a nucleic acid (e.g. polynucleotide) that encodes a antigenic peptide or portion thereof. The polynucleotide can be, e.g., DNA, cDNA, PNA, CNA, RNA (e.g., mRNA), either single- and/or double-stranded, or native or stabilized forms of polynucleotides, such as, e.g., polynucleotides with a phosphorothiate backbone, or combinations thereof and it may or may not contain introns.

**[00187]** A still further aspect provides an expression vector capable of expressing a polypeptide or portion thereof. Expression vectors for different cell types are well known in the art and can be selected without undue experimentation. Generally, DNA is inserted into an expression vector, such as a plasmid, in proper orientation and correct reading frame for expression. If necessary, DNA can be linked to the appropriate transcriptional and translational regulatory control nucleotide sequences recognized by the desired host, although such controls are generally available in the expression vector. The vector is then introduced into the host through standard techniques. Guidance can be found e.g. in Sambrook et al. (1989) Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.

**[00188]** HLA Class I molecules which do not associate with a restricted peptide ligand are generally unstable. Accordingly, the association of the restricted peptide with the α1/α2 groove of the HLA molecule may stabilize the non-covalent association of the β2-microglobulin subunit of the HLA subtype with the α-subunit of the HLA subtype.

**[00189]** Stability of the non-covalent association of the β2-microglobulin subunit of the HLA subtype with the α-subunit of the HLA subtype can be determined using any suitable means. For example, such stability may be assessed by dissolving insoluble aggregates of HLA molecules in high concentrations of urea (e.g., about 8M urea), and determining the ability of the HLA molecule to refold in the presence of the restricted peptide during urea removal, e.g., urea removal by dialysis. Such refolding approaches are described in, e.g., Proc. Natl. Acad. Sci. USA Vol. 89, pp. 3429-3433, April 1992, hereby incorporated by reference.

**[00190]** For other example, such stability may be assessed using conditional HLA Class I ligands. Conditional HLA Class I ligands are generally designed as short restricted peptides which stabilize the association of the β2 and α subunits of the HLA Class I molecule by binding to the α1/α2 groove of the HLA molecule, and which contain one or more amino acid modifications allowing cleavage of the restricted peptide upon exposure to a conditional stimulus. Upon cleavage of the conditional ligand, the β2 and α-subunits of the HLA molecule dissociate, unless such conditional ligand is exchanged for a restricted peptide which binds to the α1/α2 groove and stabilizes the HLA molecule. Conditional ligands can be designed by introducing amino acid modifications in either known HLA peptide ligands or in predicted high-affinity HLA peptide ligands. For HLA alleles for which structural information is available, water-accessibility of side chains may also be used to select positions for introduction of the amino acid modifications. Use of conditional HLA ligands may be advantageous by allowing the batch preparation of stable HLA-peptide complexes which may be used to interrogate test restricted peptides in a high throughput manner. Conditional HLA Class I ligands, and methods of production, are described in, e.g., Proc Natl Acad Sci U S A. 2008 Mar 11; 105(10): 3831–3836; Proc Natl Acad Sci U S A. 2008 Mar 11; 105(10): 3825–3830; J Exp Med. 2018 May 7; 215(5): 1493–1504; Choo, J. A. L. et al. Bioorthogonal cleavage and exchange of major histocompatibility complex ligands by employing azobenzene-containing peptides. Angew Chem Int Ed Engl 53, 13390–13394 (2014); Amore, A. et al. Development of a Hypersensitive Periodate-Cleavable Amino Acid

that is Methionine- and Disulfide-Compatible and its Application in MHC Exchange Reagents for T Cell Characterisation. ChemBioChem 14, 123–131 (2012); Rodenko, B. et al. Class I Major Histocompatibility Complexes Loaded by a Periodate Trigger. J Am Chem Soc 131, 12305–12313 (2009); and Chang, C. X. L. et al. Conditional ligands for Asian HLA variants facilitate the definition of CD8+ T-cell responses in acute and chronic viral diseases. Eur J Immunol 43, 1109–1120 (2013). These references are incorporated by reference in their entirety.

**[00191]** Accordingly, in some embodiments, the ability of an HLA-restricted peptide described herein, e.g., described in Table A (SEQ ID NO:10,755-21,015), AACR GENIE results (SEQ ID NOs: 21,016-29,357), or in SEQ ID NOs: 29358-29364, to stabilize the association of the β2- and α-subunits of the HLA molecule, is assessed by performing a conditional ligand mediated-exchange reaction and assay for HLA stability. HLA stability can be assayed using any suitable method, including, e.g., mass spectrometry analysis, immunoassays (e.g., ELISA), size exclusion chromatography, and HLA multimer staining followed by flow cytometry assessment of T cells.

**[00192]** Other exemplary methods for assessing stability of the non- covalent association of the β2-microglobulin subunit of the HLA subtype with the α-subunit of the HLA subtype include peptide exchange using dipeptides. Peptide exchange using dipeptides has been described in, e.g., Proc Natl Acad Sci U S A. 2013 Sep 17, 110(38):15383-8; Proc Natl Acad Sci U S A. 2015 Jan 6, 112(1):202-7, which is hereby incorporated by reference.

**[00193]** The HLA-PEPTIDE antigen may be isolated and/or in substantially pure form. For example, the HLA-PEPTIDE antigens may be isolated from their natural environment, or may be produced by means of a technical process. In some cases, the HLA-PEPTIDE antigen is provided in a form which is substantially free of other peptides or proteins.

**[00194]** The HLA-PEPTIDE antigens may be presented in soluble form, and optionally may be a recombinant HLA-PEPTIDE antigen complex. The skilled artisan may use any suitable method for producing and purifying recombinant HLA-PEPTIDE antigens. Suitable methods include, e.g., use of E. coli expression systems, insect cells, and the like. Other methods include synthetic production, e.g., using cell free systems. An exemplary suitable cell free system is described in WO2017089756, which is hereby incorporated by reference in its entirety.

**[00195]** Also provided herein are compositions comprising an HLA-PEPTIDE antigen.

**[00196]** In some cases, the composition comprises an HLA-PEPTIDE antigen attached to a solid support. Exemplary solid supports include, but are not limited to, beads, wells, membranes, tubes, columns, plates, sepharose, magnetic beads, and chips. Exemplary solid supports are described in, e.g., Catalysts 2018, 8, 92; doi:10.3390/catal8020092, which is hereby incorporated by reference in its entirety.

**[00197]** The HLA-PEPTIDE antigen may be attached to the solid support by any suitable methods known in the art. In some cases, the HLA-PEPTIDE antigen is covalently attached to the solid support.

**[00198]** In some cases, the HLA-PEPTIDE antigen is attached to the solid support by way of an affinity binding pair. Affinity binding pairs generally involved specific interactions between two molecules. A ligand having an affinity for its binding partner molecule can be covalently attached to the solid support, and thus used as bait for immobilizing. Common affinity binding pairs include, e.g., streptavidin and biotin, avidin and biotin; polyhistidine tags with metal ions such as copper, nickel, zinc, and cobalt; and the like. Accordingly, provided herein are compositions comprising an HLA-PEPTIDE antigen disclosed herein, wherein the HLA-PEPTIDE antigen is covalently linked to an affinity tag.

**[00199]** The HLA-PEPTIDE antigen may comprise a detectable label. In some embodiments, the HLA-PEPTIDE antigen is complexed with the detectable label. In some embodiments, the detectable label comprises a $\beta_2$-microglobulin binding molecule. e.g., a labeled antibody, e.g., a fluorochrome labeled antibody.

**[00200]** Also provided herein are pharmaceutical compositions comprising HLA-PEPTIDE antigens.

**[00201]** The composition comprising an HLA-PEPTIDE antigen may be a pharmaceutical composition. Such a composition may comprise multiple HLA-PEPTIDE antigens. Exemplary pharmaceutical compositions are described herein. The composition may be capable of eliciting an immune response. The composition may comprise an adjuvant. Suitable adjuvants include, but are not limited to 1018 ISS, alum, aluminium salts, Amplivax, AS15, BCG, CP-870,893, CpG7909, CyaA, dSLIM, GM-CSF, IC30, IC31, Imiquimod, ImuFact IMP321, IS Patch, ISS, ISCOMATRIX, JuvImmune, LipoVac, MF59, monophosphoryl lipid A, Montanide IMS 1312, Montanide ISA 206, Montanide ISA 50V, Montanide ISA-51, OK-432, OM-174, OM-197-MP-EC, ONTAK, PepTel vector system, PLG microparticles, resiquimod, SRL172, Virosomes and other Virus-like particles, YF-17D,

VEGF trap, R848, beta-glucan, Pam3Cys, Aquila's QS21 stimulon (Aquila Biotech, Worcester, Mass., USA) which is derived from saponin, mycobacterial extracts and synthetic bacterial cell wall mimics, and other proprietary adjuvants such as Ribi's Detox. Quil or Superfos. Adjuvants such as incomplete Freund's or GM-CSF are useful. Several immunological adjuvants (e.g., MF59) specific for dendritic cells and their preparation have been described previously (Dupuis M, et al., Cell Immunol. 1998; 186(1):18-27; Allison A C; Dev Biol Stand. 1998; 92:3-11). Also cytokines can be used. Several cytokines have been directly linked to influencing dendritic cell migration to lymphoid tissues (e.g., TNF-alpha), accelerating the maturation of dendritic cells into efficient antigen-presenting cells for T-lymphocytes (e.g., GM-CSF, IL-1 and IL-4) (U.S. Pat. No. 5,849,589, specifically incorporated herein by reference in its entirety) and acting as immunoadjuvants (e.g., IL-12) (Gabrilovich D I, et al., J Immunother Emphasis Tumor Immunol. 1996 (6):414-418). HLA surface expression and processing of intracellular proteins into peptides to present on HLA can also be enhanced by interferon-gamma (IFN-γ). See, e.g., York IA, Goldberg AL, Mo XY, Rock KL. Proteolysis and class I major histocompatibility complex antigen presentation. Immunol Rev. 1999;172:49-66; and Rock KL, Goldberg AL. Degradation of cell proteins and the generation of MHC class I-presented peptides. Ann Rev Immunol. 1999;17: 12. 739-779, which are incorporated herein by reference in their entirety.

**[00202]** Also provided herein are host cells comprising an HLA-PEPTIDE antigen disclosed herein. In some embodiments, the host cell comprises a polynucleotide encoding an HLA-restricted peptide as defined by the HLA-PEPTIDE antigen. In some embodiments, the polynucleotide is heterologous to the host cell. In some embodiments, the host cell does not comprise endogenous MHC. In some embodiments, the host cell comprises an exogenous HLA Class I molecule. In some embodiments, the host cell is a K562 or A375 cell. In some embodiments, the host cell is a cultured cell from a tumor cell line. In some embodiments, the tumor cell line expresses an HLA subtype as defined by the HLA-PEPTIDE antigen.

**[00203]** Also provided herein are cell culture systems comprising a host cell disclosed herein and a cell culture medium. In some embodiments, the host cell expresses the HLA Class I subtype as defined by the HLA-PEPTIDE antigen and the cell culture medium comprises the restricted peptide as defined by the HLA-PEPTIDE antigen.

**ABPs**

**[00204]** Also provided herein are ABPs that specifically bind to an HLA-PEPTIDE antigen disclosed herein. In some embodiments, an ABP disclosed herein specifically binds to an HLA-PEPTIDE neoantigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA Class I molecule and the HLA-restricted peptide are each selected from an HLA-PEPTIDE neoantigen as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP comprises a TCR or antigen-binding fragment thereof. For example, for an ABP disclosed herein, the target of the ABP is an HLA Class I molecule and the associated HLA-restricted peptide that are each selected from a single HLA-PEPTIDE neoantigen described in any one of the aforementioned SEQ ID NOs, *i.e.*, the HLA Class I molecule and the HLA-restricted peptide are each selected from the same SEQ ID NO. For example, the target of an ABP against SEQ ID NO: 19865 would bind to HLA-A*11:01 in complex with a restricted peptide of the sequence: VVVGADGVGK.

**[00205]** The HLA-PEPTIDE neoantigen may be expressed on the surface of any suitable target cell including a tumor cell.

**[00206]** In some embodiments, the ABP specifically binds a complex comprising HLA and an HLA-restricted peptide (HLA-PEPTIDE), e.g., derived from a tumor. In some embodiments, the ABP does not bind to the HLA in the absence of the HLA-restricted peptide. In some embodiments, the ABP does not bind HLA-restricted peptide in the absence of the HLA. In some embodiments, the ABP binds tumor cells presenting human MHC complexed with the HLA - restricted peptide, optionally wherein the HLA restricted peptide is a tumor antigen characterizing the cancer. In some aspects, the ABP binds a complex comprising HLA and HLA-restricted peptide when naturally presented on a cell such as a tumor cell.

**[00207]** An ABP can bind to each portion of an HLA-PEPTIDE complex (i.e., HLA and peptide representing each portion of the complex), which when bound together form a novel target and protein surface for interaction with and binding by the ABP, distinct from a surface presented by the peptide alone or HLA subtype alone. Generally the novel target and protein surface formed by binding of HLA to peptide does not exist in the absence of each portion of the HLA-PEPTIDE complex. In some embodiments, the ABP binds to the HLA-PEPTIDE

neoantigen through at least one contact point with the HLA Class I molecule and through at least one contact point with the HLA-restricted peptide.

**[00208]** In some embodiments, an ABP provided herein modulates binding of HLA-PEPTIDE to one or more ligands of HLA-PEPTIDE.

**[00209]** In more particular embodiments, the ABP specifically binds to a neoantigen described in Table 5A. In more particular embodiments, the ABP specifically binds to a neoantigen described in Table 5B. In more particular embodiments, the ABP specifically binds to a neoantigen described in Table 6. In more particular embodiments, the ABP specifically binds to a neoantigen described in Table 7.

**[00210]** In some embodiments of the ABP, the HLA-restricted peptide comprises a RAS mutation. In some embodiments of the ABP, the RAS mutation is a RAS G12 mutation. The RAS may be KRAS, NRAS, or HRAS. In some embodiments of the ABP, the HLA-restricted peptide comprises a RAS G12 mutation. In some embodiments of the ABP, the HLA-restricted peptide comprises a NRAS G12 mutation. In some embodiments of the ABP, the HLA-restricted peptide comprises a HRAS G12 mutation. Because amino acid positions 1-50 of HRAS, KRAS, and NRAS are identical, a skilled artisan understands that an HLA-Class I restricted peptide comprising a RAS G12 mutation corresponds to the KRAS G12, NRAS G12, and HRAS G12 mutation. By way of example only, SEQ ID NO: 14954, described as a KRAS G12C neoantigen, and SEQ ID NO: 14955, described as an NRAS G12C neoantigen, both have identical HLA-PEPTIDE pairings (HLA-A*02:01_ KLVVVGACGV). Accordingly, SEQ ID NOs 14954 and 14955 describe identical KRAS/NRAS/HRAS G12C HLA-PEPTIDE neoantigens.

**[00211]** In some embodiments, the G12 mutation is a G12C, a G12D, a G12V, or a G12A mutation. In some embodiments wherein the HLA-restricted peptide comprises the RAS G12 mutation, the HLA Class I molecule is selected from HLA-A*02:01, HLA-A*11:01, HLA-A*31:01, HLA-C*01:02, and HLA-A*03:01.

**[00212]** In particular embodiments of the ABP, the HLA-PEPTIDE neoantigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Asp Gly Val Gly Lys; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Gly Ala Asp Gly Val Gly Lys ; a RAS_G12V MHC Class I antigen comprising

HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys; a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Gly Ala Val Gly Val Gly Lys; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide Ala Val Gly Val Gly Lys Ser Ala Leu ; and a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys.

**[00213]** In some embodiments of the ABP, the HLA-PEPTIDE neoantigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Asp Gly Val Gly Lys; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Gly Ala Asp Gly Val Gly Lys ; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys; a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys; a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Gly Ala Val Gly Val Gly Lys; a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide Ala Val Gly Val Gly Lys Ser Ala Leu ; and a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys.

**[00214]** In some embodiments of the ABP, the HLA-PEPTIDE neoantigen is selected from: a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val ; a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Asp Gly Val Gly Lys ; and a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys. In some embodiments of the ABP, the antigen comprises HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val. In some embodiments of the ABP, the antigen comprises HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Asp Gly Val Gly Lys. In some embodiments of the ABP, the antigen comprises HLA-A*11:01 and the restricted peptide Val Val Val Gly Ala Val Gly Val Gly Lys.

**[00215]** In some embodiments of an ABP that binds to a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val, the ABP binds to such RAS_G12 MHC Class I antigen at a higher affinity than a RAS_G12C MHC Class I antigen comprising the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val and a different HLA subtype. In some embodiments, the ABP binds to such RAS_G12 MHC Class I antigen at a higher affinity than a RAS_G12C MHC Class I antigen comprising the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val and a different HLA-A2 subtype. In some embodiments, the ABP does not bind to a RAS_G12C MHC Class I antigen comprising the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val and a different HLA-A2 subtype.

**[00216]** In some embodiments of an ABP that binds to an antigen comprising a particular RAS G12 mutation, the ABP does not binds to the particular antigen at a lower affinity than an antigen comprising a different RAS G12 mutation. For example, an ABP that binds to a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val does not bind to that RAS_G12C MHC Class I antigen at a lower affinity than an antigen comprising a different RAS G12 mutation. In some embodiments of an ABP that binds to an antigen comprising a particular RAS G12 mutation, the ABP binds to the particular antigen at a higher affinity than an antigen comprising a different RAS G12 mutation. For example, an ABP that binds to a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val may bind to that RAS_G12C MHC Class I antigen at a higher affinity than an antigen comprising a different RAS G12 mutation. In some embodiments, the ABP binds a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide Lys Leu Val Val Val Gly Ala Cys Gly Val at a higher affinity than an antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule. In particular embodiments, such ABP does not bind to an antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule.

**[00217]** In some embodiments, the higher affinity is at least 2-fold, at least 5-fold, or at least 10-fold.

**[00218]** Affinity differences can be determined by any means known in the art. In some embodiments, such affinity differences are assessed by MSD-ECL, SPR, BLI, or flow cytometry.

**[00219]** In some embodiments, an ABP is an ABP that competes with an illustrative ABP provided herein. In some aspects, the ABP that competes with the illustrative ABP provided herein binds the same epitope as an illustrative ABP provided herein.

**[00220]** In some embodiments, the ABPs described herein are referred to herein as "variants." In some embodiments, a variant is derived from any of the sequences provided herein, wherein one or more conservative amino acid substitutions are made. Conservative amino acid substitutions are described herein. In preferred embodiments, the non-conservative amino acid substitution does not interfere with or inhibit the biological activity of the functional variant. In yet more preferred embodiments, the non-conservative amino acid substitution enhances the biological activity of the functional variant, such that the biological activity of the functional variant is increased as compared to the parent ABP.

**TCRs**

**[00221]** In an aspect, the ABPs provided herein, e.g., ABPs that specifically bind HLA-PEPTIDE targets disclosed herein, include T cell receptors (TCRs). The TCRs may be isolated and purified.

**[00222]** In a majority of T-cells, the TCR is a heterodimer polypeptide having an alpha (α) chain and beta- (β) chain, encoded by TRA and TRB, respectively. The alpha chain generally comprises an alpha variable region, encoded by TRAV, an alpha joining region, encoded by TRAJ, and an alpha constant region, encoded by TRAC. The beta chain generally comprises a beta variable region, encoded by TRBV, a beta diversity region, encoded by TRBD, a beta joining region, encoded by TRBJ, and a beta constant region, encoded by TRBC. The TCR-alpha chain is generated by VJ recombination of alpha V and J segments, and the beta chain receptor is generated by V(D)J recombination of beta V, D, and J segments. Additional TCR diversity stems from junctional diversity. Several bases may be deleted and others added (called N and P nucleotides) at each of the junctions. In a minority of T-cells, the TCRs include gamma and delta chains. The TCR gamma chain is generated by VJ recombination, and the TCR delta chain is generated by V(D)J recombination (Kenneth Murphy, Paul Travers, and Mark Walport, Janeway's Immunology 7th edition, Garland Science, 2007, which is herein incorporated by reference in its entirety). The antigen binding site of a TCR generally comprises six complementarity determining regions (CDRs). The alpha chain contributes three CDRs, alpha ("α") CDR1, αCDR2, and αCDR3. The beta chain also contributes three CDR: beta ("β") CDR1,

βCDR2, and βCDR3. In general, the αCDR3 and βCDR3 are the regions most affected by V(D)J recombination and account for most of the variation in a TCR repertoire.

**[00223]** TCRs can specifically recognize HLA-PEPTIDE targets, such as an HLA-PEPTIDE target disclosed in Table 7, Table A, the AACR GENIE Results, or SEQ ID NOs 29358-29364 described herein (SEQ ID NOs: 10,755-29,364); thus TCRs can be ABPs that specifically bind to HLA-PEPTIDE. TCRs can be soluble, e.g., similar to an antibody secreted by a B cell. TCRs can also be membrane-bound, e.g., on a cell such as a T cell or natural killer (NK) cell. Thus, TCRs can be used in a context that corresponds to soluble antibodies and/or membrane-bound CARs.

**[00224]** Any of the TCRs disclosed herein may comprise an alpha variable ("V") segment, an alpha joining ("J") segment, optionally an alpha constant region, a beta variable ("V") segment, optionally a beta diversity ("D") segment, a beta joining ("J") segment, and optionally a beta constant region.

**[00225]** In some embodiments, the TCR or CAR is a recombinant TCR or CAR. The recombinant TCR or CAR may include any of the TCRs identified herein but include one or more modifications. Exemplary modifications, e.g., amino acid substitutions, are described herein. Amino acid substitutions described herein may be made with reference to IMGT nomenclature and amino acid numbering as found at www.imgt.org.

**[00226]** The recombinant TCR or CAR may be a human TCR or CAR, comprising fully human sequences, e.g., natural human sequences. The recombinant TCR or CAR may retain its natural human variable domain sequences but contain modifications to the α constant region, β constant region, or both α and β constant regions. Such modifications to the TCR constant regions may improve TCR assembly and expression for TCR gene therapy by, e.g., driving preferential pairings of the exogenous TCR chains.

**[00227]** In some embodiments, the α and β constant regions are modified by substituting the entire human constant region sequences for mouse constant region sequences. Such "murinized" TCRs and methods of making them are described in Cancer Res. 2006 Sep 1;66(17):8878-86, which is hereby incorporated by reference in its entirety.

**[00228]** In some embodiments, the α and β constant regions are modified by making one or more amino acid substitutions in the human TCR α constant (TRAC) region, the TCR β constant (TRBC) region, or the TRAC and TRAB regions, which swap particular human residues for murine residues (human → murine amino acid exchange). The one or more amino acid substitutions in the TRAC region may include a Ser substitution at residue 90, an

Asp substitution at residue 91, a Val substitution at residue 92, a Pro substitution at residue 93, or any combination thereof. The one or more amino acid substitutions in the human TRBC region may include a Lys substitution at residue 18, an Ala substitution at residue 22, an Ile substitution at residue 133, a His substitution at residue 139, or any combination of the above. Such targeted amino acid substitutions are described in J Immunol June 1, 2010, 184 (11) 6223-6231, which is hereby incorporated by reference in its entirety.

**[00229]** In some embodiments, the human TRAC contains an Asp substitution at residue 210 and the human TRBC contains a Lys substitution at residue 134. Such substitutions may promote the formation of a salt bridge between the alpha and beta chains and formation of the TCR interchain disulfide bond. These targeted substitutions are described in J Immunol June 1, 2010, 184 (11) 6232-6241, which is hereby incorporated by reference in its entirety.

**[00230]** In some embodiments, the human TRAC and human TRBC regions are modified to contain introduced cysteines which may improve preferential pairing of the exogenous TCR chains through formation of an additional disulfide bond. For example, the human TRAC may contain a Cys substitution at residue 48 and the human TRBC may contain a Cys substitution at residue 57, described in Cancer Res. 2007 Apr 15;67(8):3898-903 and Blood. 2007 Mar 15;109(6):2331-8, which are hereby incorporated by reference in their entirety.

**[00231]** The recombinant TCR or CAR may comprise other modifications to the α and β chains.

**[00232]** In some embodiments, the α and β chains are modified by linking the extracellular domains of the α and β chains to a complete human CD3ζ (CD3-zeta) molecule. Such modifications are described in J Immunol June 1, 2008, 180 (11) 7736-7746; Gene Ther. 2000 Aug;7(16):1369-77; and The Open Gene Therapy Journal, 2011, 4: 11-22, which are hereby incorporated by reference in their entirety.

**[00233]** In some embodiments, the α chain is modified by introducing hydrophobic amino acid substitutions in the transmembrane region of the α chain, as described in J Immunol June 1, 2012, 188 (11) 5538-5546; hereby incorporated by reference in their entirety.

**[00234]** The alpha or beta chain may be modified by altering any one of the N-glycosylation sites in the amino acid sequence, as described in J Exp Med. 2009 Feb 16; 206(2): 463–475; hereby incorporated by reference in its entirety.

**[00235]** The alpha and beta chain may each comprise a dimerization domain, e.g., a heterologous dimerization domain. Such a heterologous domain may be a leucine zipper, a

5H3 domain or hydrophobic proline rich counter domains, or other similar modalities, as known in the art. In one example, the alpha and beta chains may be modified by introducing 30mer segments to the carboxyl termini of the alpha and beta extracellular domains, wherein the segments selectively associate to form a stable leucine zipper. Such modifications are described in PNAS November 22, 1994. 91 (24) 11408-11412; https://doi.org/10.1073/pnas.91.24.11408; hereby incorporated by reference in its entirety.

**[00236]** TCRs identified herein may be modified to include mutations that result in increased affinity or half-life, such as those described in WO2012/013913, hereby incorporated by reference in its entirety.

**[00237]** The recombinant TCR or CAR may be a single chain TCR (scTCR). Such scTCR may comprise an α chain variable region sequence fused to the N terminus of a TCR α chain constant region extracellular sequence, a TCR β chain variable region fused to the N terminus of a TCR β chain constant region extracellular sequence, and a linker sequence linking the C terminus of the α segment to the N terminus of the β segment, or vice versa. In some embodiments, the constant region extracellular sequences of the α and β segments of the scTCR are linked by a disulfide bond. In some embodiments, the length of the linker sequence and the position of the disulfide bond being such that the variable region sequences of the α and β segments are mutually orientated substantially as in native αβ T cell receptors. Exemplary scTCRs are described in U.S. Patent No. 7,569,664, which is hereby incorporated by reference in its entirety.

**[00238]** In some cases, the variable regions of the scTCR may be covalently joined by a short peptide linker, such as described in Gene Therapy volume 7, pages 1369–1377 (2000). The short peptide linker may be a serine rich or glycine rich linker. For example, the linker may be $(Gly_4Ser)_3$, as described in Cancer Gene Therapy (2004) 11, 487–496, incorporated by reference in its entirety.

**[00239]** The recombinant TCR or antigen binding fragment thereof may be expressed as a fusion protein. For instance, the TCR or antigen binding fragment thereof may be fused with a toxin. Such fusion proteins are described in Cancer Res. 2002 Mar 15;62(6):1757-60. The TCR or antigen binding fragment thereof may be fused with an antibody Fc region. Such fusion proteins are described in J Immunol May 1, 2017, 198 (1 Supplement) 120.9.

**[00240]** The antigen recognition domain of a receptor such as a TCR or CAR can be linked to one or more intracellular signaling components, such as signaling components that mimic

activation through an antigen receptor complex, such as a TCR complex and/or signal via another cell surface receptor. For example, the HLA-PEPTIDE-specific binding component (e.g., an ABP such as a TCR) can be linked to one or more transmembrane and/or intracellular signaling domains. In some embodiments, the transmembrane domain is fused to the extracellular domain. In one embodiment, a transmembrane domain that naturally is associated with one of the domains in the receptor, e.g., CAR, is used. In some instances, the transmembrane domain is selected or modified by amino acid substitution to avoid binding of such domains to the transmembrane domains of the same or different surface membrane proteins to minimize interactions with other members of the receptor complex.

**[00241]** The transmembrane domain in some embodiments is derived either from a natural or from a synthetic source. Where the source is natural, the domain in some aspects is derived from any membrane-bound or transmembrane protein. Transmembrane regions include those derived from (i.e. comprise at least the transmembrane region(s) of) the alpha, beta or zeta chain of the T-cell receptor, CD28, CD3 epsilon, CD45, CD4, CD5, CDS, CD9, CD 16, CD22, CD33, CD37, CD64, CD80, CD86, CD 134, CD137, and/or CD 154. Alternatively the transmembrane domain in some embodiments is synthetic. In some aspects, the synthetic transmembrane domain comprises predominantly hydrophobic residues such as leucine and valine. In some aspects, a triplet of phenylalanine, tryptophan and valine will be found at each end of a synthetic transmembrane domain. In some embodiments, the linkage is by linkers, spacers, and/or transmembrane domain(s).

**[00242]** Among the intracellular signaling domains are those that mimic or approximate a signal through a natural antigen receptor, a signal through such a receptor in combination with a costimulatory receptor, and/or a signal through a costimulatory receptor alone. In some embodiments, a short oligo- or polypeptide linker, for example, a linker of between 2 and 10 amino acids in length, such as one containing glycines and serines, e.g., glycine-serine doublet, is present and forms a linkage between the transmembrane domain and the cytoplasmic signaling domain of the receptor.

**[00243]** The receptor, e.g., the TCR or CAR, can include at least one intracellular signaling component or components. In some embodiments, the receptor includes an intracellular component of a TCR complex, such as a TCR CD3 chain that mediates T-cell activation and cytotoxicity, e.g., CD3 zeta chain. For example, the HLA-PEPTIDE-binding ABP (e.g., a TCR or CAR) is linked to one or more cell signaling modules. In some embodiments, cell signaling

modules include CD3 transmembrane domain, CD3 intracellular signaling domains, and/or other CD transmembrane domains. In some embodiments, the receptor, e.g., a TCR or CAR, further includes a portion of one or more additional molecules such as Fc receptor-gamma, CD8, CD4, CD25, or CD16. For example, in some aspects, the TCR or CAR includes a chimeric molecule between CD3-zeta or Fc receptor-gamma and CD8, CD4, CD25 or CD16.

**[00244]** In some embodiments, upon ligation of the TCR or CAR, the cytoplasmic domain or intracellular signaling domain of the receptor activates at least one of the normal effector functions or responses of the immune cell, e.g., T cell engineered to express the receptor. For example, in some contexts, the receptor induces a function of a T cell such as cytolytic activity or T-helper activity, such as secretion of cytokines or other factors. In some embodiments, a truncated portion of an intracellular signaling domain of an antigen receptor component or costimulatory molecule is used in place of an intact immunostimulatory chain, for example, if it transduces the effector function signal. In some embodiments, the intracellular signaling domain or domains include the cytoplasmic sequences of the T cell receptor (TCR), and in some aspects also those of co-receptors that in the natural context act in concert with such receptor to initiate signal transduction following antigen receptor engagement, and/or any derivative or variant of such molecules, and/or any synthetic sequence that has the same functional capability.

**[00245]** In the context of a natural TCR, full activation generally requires not only signaling through the TCR, but also a costimulatory signal. Thus, in some embodiments, to promote full activation, a component for generating secondary or co-stimulatory signal is also included in the receptor. In other embodiments, the receptor does not include a component for generating a costimulatory signal. In some aspects, an additional receptor is expressed in the same cell and provides the component for generating the secondary or costimulatory signal.

**[00246]** T cell activation is in some aspects described as being mediated by two classes of cytoplasmic signaling sequences: those that initiate antigen-dependent primary activation through the TCR (primary cytoplasmic signaling sequences), and those that act in an antigen-independent manner to provide a secondary or co-stimulatory signal (secondary cytoplasmic signaling sequences). In some aspects, the receptor includes one or both of such signaling components.

**[00247]** In some aspects, the receptor includes a primary cytoplasmic signaling sequence that regulates primary activation of the TCR complex. Primary cytoplasmic signaling sequences that act in a stimulatory manner may contain signaling motifs which are known as immunoreceptor

tyrosine-based activation motifs or ITAMs. Examples of ITAM containing primary cytoplasmic signaling sequences include those derived from TCR or CD3 zeta, FcR gamma, FcR beta, CD3 gamma, CD3 delta, CD3 epsilon, CDS, CD22, CD79a, CD79b, and CD66d. In some embodiments, cytoplasmic signaling molecule(s) in the CAR contain(s) a cytoplasmic signaling domain, portion thereof, or sequence derived from CD3 zeta.

**[00248]** In some embodiments, the receptor includes a signaling domain and/or transmembrane portion of a costimulatory receptor, such as CD28, 4-1BB, OX40, DAP10, and ICOS. In some aspects, the same receptor includes both the activating and costimulatory components.

**[00249]** In some embodiments, the activating domain is included within one receptor, whereas the costimulatory component is provided by another receptor recognizing another antigen. In some embodiments, the receptors include activating or stimulatory receptors, and costimulatory receptors, both expressed on the same cell (see WO2014/055668). In some aspects, the HLA-PEPTIDE-targeting receptor is the stimulatory or activating receptor; in other aspects, it is the costimulatory receptor. In some embodiments, the cells further include inhibitory receptors (e.g., iCARs, see Fedorov et al., Sci. Transl. Medicine, 5(215) (December, 2013), such as a receptor recognizing an antigen other than HLA-PEPTIDE, whereby an activating signal delivered through the HLA-PEPTIDE-targeting receptor is diminished or inhibited by binding of the inhibitory receptor to its ligand, e.g., to reduce off-target effects.

**[00250]** In certain embodiments, the intracellular signaling domain comprises a CD28 transmembrane and signaling domain linked to a CD3 (e.g., CD3-zeta) intracellular domain. In some embodiments, the intracellular signaling domain comprises a chimeric CD28 and CD137 (4-1BB, TNFRSF9) co-stimulatory domains, linked to a CD3 zeta intracellular domain.

**[00251]** In some embodiments, the receptor encompasses one or more, e.g., two or more, costimulatory domains and an activation domain, e.g., primary activation domain, in the cytoplasmic portion. Exemplary receptors include intracellular components of CD3-zeta, CD28, and 4-1BB.

**[00252]** In some embodiments, the CAR (or other antigen receptor such as a TCR) further includes a marker, such as a cell surface marker, which may be used to confirm transduction or engineering of the cell to express the receptor, such as a truncated version of a cell surface receptor, such as truncated EGFR (tEGFR). In some aspects, the marker includes all or part (e.g., truncated form) of CD34, a nerve growth factor receptor (NGFR), or epidermal growth factor

receptor (e.g., tEGFR). In some embodiments, the nucleic acid encoding the marker is operably linked to a polynucleotide encoding for a linker sequence, such as a cleavable linker sequence or a ribosomal skip sequence, e.g., T2A. See WO2014031687. In some embodiments, introduction of a construct encoding the CAR and EGFRt separated by a T2A ribosome switch can express two proteins from the same construct, such that the EGFRt can be used as a marker to detect cells expressing such construct. In some embodiments, a marker, and optionally a linker sequence, can be any as disclosed in published patent application No. WO2014031687. For example, the marker can be a truncated EGFR (tEGFR) that is, optionally, linked to a linker sequence, such as a T2A ribosomal skip sequence.

**[00253]** In some embodiments, the marker is a molecule, e.g., cell surface protein, not naturally found on T cells or not naturally found on the surface of T cells, or a portion thereof.

**[00254]** In some embodiments, the molecule is a non-self molecule, e.g., non-self protein, i.e., one that is not recognized as "self" by the immune system of the host into which the cells will be adoptively transferred.

**[00255]** In some embodiments, the marker serves no therapeutic function and/or produces no effect other than to be used as a marker for genetic engineering, e.g., for selecting cells successfully engineered. In other embodiments, the marker may be a therapeutic molecule or molecule otherwise exerting some desired effect, such as a ligand for a cell to be encountered in vivo, such as a costimulatory or immune checkpoint molecule to enhance and/or dampen responses of the cells upon adoptive transfer and encounter with ligand.

**[00256]** The TCR or CAR may comprise one or modified synthetic amino acids in place of one or more naturally-occurring amino acids. Exemplary modified amino acids include, but are not limited to, aminocyclohexane carboxylic acid, norleucine, α-amino n-decanoic acid, homoserine, S-acetylaminomethylcysteine, trans-3- and trans-4-hydroxyproline, 4-aminophenylalanine, 4- nitrophenylalanine, 4-chlorophenylalanine, 4-carboxyphenylalanine, (3-phenylserine (3-hydroxyphenylalanine, phenylglycine, α-naphthylalanine, cyclohexylalanine, cyclohexylglycine, indoline-2-carboxylic acid, 1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid, aminomalonic acid, aminomalonic acid monoamide, N' -benzyl-N'-methyl-lysine, N',N' -dibenzyl-lysine, 6- hydroxylysine, ornithine, α-aminocyclopentane carboxylic acid, α-aminocyclohexane carboxylic acid, α-aminocycloheptane carboxylic acid, α-(2-amino-2-norbomane )-carboxylic acid, α,γ -diaminobutyric acid, α,γ -diaminopropionic acid, homophenylalanine, and α-tertbutylglycine.

**[00257]** In some cases, CARs are referred to as first, second, and/or third generation CARs. In some aspects, a first generation CAR is one that solely provides a CD3-chain induced signal upon antigen binding; in some aspects, a second-generation CARs is one that provides such a signal and costimulatory signal, such as one including an intracellular signaling domain from a costimulatory receptor such as CD28 or CD137; in some aspects, a third generation CAR in some aspects is one that includes multiple costimulatory domains of different costimulatory receptors.

**[00258]** In some embodiments, the chimeric antigen receptor includes an extracellular portion containing a TCR or fragment described herein. In some aspects, the chimeric antigen receptor includes an extracellular portion containing a TCR or fragment described herein and an intracellular signaling domain. In some embodiments, the intracellular domain contains an ITAM. In some aspects, the intracellular signaling domain includes a signaling domain of a zeta chain of a CD3-zeta (CD3) chain. In some embodiments, the chimeric antigen receptor includes a transmembrane domain linking the extracellular domain and the intracellular signaling domain.

**[00259]** In some aspects, the transmembrane domain contains a transmembrane portion of CD28. The extracellular domain and transmembrane can be linked directly or indirectly. In some embodiments, the extracellular domain and transmembrane are linked by a spacer, such as any described herein. In some embodiments, the chimeric antigen receptor contains an intracellular domain of a T cell costimulatory molecule, such as between the transmembrane domain and intracellular signaling domain. In some aspects, the T cell costimulatory molecule is CD28 or 41BB.

**[00260]** In some embodiments, the CAR contains a TCR, e.g., a TCR fragment, a transmembrane domain that is or contains a transmembrane portion of CD28 or a functional variant thereof, and an intracellular signaling domain containing a signaling portion of CD28 or functional variant thereof and a signaling portion of CD3 zeta or functional variant thereof. In some embodiments, the CAR contains a TCR, e.g., a TCR fragment, a transmembrane domain that is or contains a transmembrane portion of CD28 or a functional variant thereof, and an intracellular signaling domain containing a signaling portion of a 4-1BB or functional variant thereof and a signaling portion of CD3 zeta or functional variant thereof. In some such embodiments, the receptor further includes a spacer containing a portion of an Ig molecule, such as a human Ig molecule, such as an Ig hinge, e.g. an IgG4 hinge, such as a hinge-only spacer.

**[00261]** In some embodiments, the transmembrane domain of the receptor, e.g., the TCR or CAR, is a transmembrane domain of human CD28 or variant thereof, e.g., a 27-amino acid transmembrane domain of a human CD28 (Accession No.: P10747.1).

**[00262]** In some embodiments, the chimeric antigen receptor contains an intracellular domain of a T cell costimulatory molecule. In some aspects, the T cell costimulatory molecule is CD28 or 41BB.

**[00263]** In some embodiments, the intracellular signaling domain comprises an intracellular costimulatory signaling domain of human CD28 or functional variant or portion thereof, such as a 41 amino acid domain thereof and/or such a domain with an LL to GG substitution at positions 186-187 of a native CD28 protein. In some embodiments, the intracellular domain comprises an intracellular costimulatory signaling domain of 41BB or functional variant or portion thereof, such as a 42-amino acid cytoplasmic domain of a human 4-1BB (Accession No. Q07011.1) or functional variant or portion thereof.

**[00264]** In some embodiments, the intracellular signaling domain comprises a human CD3 zeta stimulatory signaling domain or functional variant thereof, such as a 112 AA cytoplasmic domain of isoform 3 of human CD3.zeta. (Accession No.: P20963.2) or a CD3 zeta signaling domain as described in U.S. Pat. No. 7,446,190 or U.S. Pat. No. 8,911,993.

**[00265]** In some aspects, the spacer contains only a hinge region of an IgG, such as only a hinge of IgG4 or IgG1. In other embodiments, the spacer is an Ig hinge, e.g., and IgG4 hinge, linked to a CH2 and/or CH3 domains. In some embodiments, the spacer is an Ig hinge, e.g., an IgG4 hinge, linked to CH2 and CH3 domains. In some embodiments, the spacer is an Ig hinge, e.g., an IgG4 hinge, linked to a CH3 domain only. In some embodiments, the spacer is or comprises a glycine-serine rich sequence or other flexible linker such as known flexible linkers.

**[00266]** For example, in some embodiments, the CAR includes a TCR or fragment thereof, such as any of the HLA-PEPTIDE specific TCRs, a spacer such as any of the Ig-hinge containing spacers, a CD28 transmembrane domain, a CD28 intracellular signaling domain, and a CD3 zeta signaling domain. In some embodiments, the CAR includes a TCR or fragment, such as any of the HLA-PEPTIDE specific TCRs, a spacer such as any of the Ig-hinge containing spacers, a CD28 transmembrane domain, a CD28 intracellular signaling domain, and a CD3 zeta signaling domain.

**Nucleotides, Vectors, Host Cells, and Related Methods**

**[00267]** Also provided are isolated nucleic acids encoding the ABPs or antigens disclosed herein, vectors comprising the nucleic acids, and host cells comprising the vectors and nucleic acids, as well as recombinant techniques for the production of the ABPs.

**[00268]** The nucleic acids may be recombinant. The recombinant nucleic acids may be constructed outside living cells by joining natural or synthetic nucleic acid segments to nucleic acid molecules that can replicate in a living cell, or replication products thereof. For purposes herein, the replication can be in vitro replication or in vivo replication.

**[00269]** For recombinant production of an ABP, the nucleic acid(s) encoding it may be isolated and inserted into a replicable vector for further cloning (i.e., amplification of the DNA) or expression. In some aspects, the nucleic acid may be produced by homologous recombination, for example as described in U.S. Patent No. 5,204,244, incorporated by reference in its entirety.

**[00270]** Many different vectors are known in the art. The vector components generally include one or more of the following: a signal sequence, an origin of replication, one or more marker genes, an enhancer element, a promoter, and a transcription termination sequence, for example as described in U.S. Patent No. 5,534,615, incorporated by reference in its entirety.

**[00271]** Exemplary vectors or constructs suitable for expressing an ABP, e.g., a CAR, or antigen binding fragment thereof, include, e.g., the pUC series (Fermentas Life Sciences), the pBluescript series (Stratagene, LaJolla, CA), the pET series (Novagen, Madison, WI), the pGEX series (Pharmacia Biotech, Uppsala, Sweden), and the pEX series (Clontech, Palo Alto, CA). Bacteriophage vectors, such as AGTlO, AGTl 1, AZapII (Stratagene), AEMBL4, and ANMl 149, are also suitable for expressing an ABP disclosed herein.

**[00272]** Illustrative examples of suitable host cells are provided below. These host cells are not meant to be limiting, and any suitable host cell may be used to produce the ABPs provided herein.

**[00273]** Suitable host cells include any prokaryotic (e.g., bacterial), lower eukaryotic (e.g., yeast), or higher eukaryotic (e.g., mammalian) cells. Suitable prokaryotes include eubacteria, such as Gram-negative or Gram-positive organisms, for example, Enterobacteriaceae such as *Escherichia* (*E. coli*), *Enterobacter*, *Erwinia*, *Klebsiella*, *Proteus*, *Salmonella* (*S. typhimurium*), *Serratia* (*S. marcescans*), *Shigella*, *Bacilli* (*B. subtilis* and *B. licheniformis*), *Pseudomonas* (*P. aeruginosa*), and *Streptomyces*. One useful *E. coli* cloning host is *E. coli*

294, although other strains such as *E. coli* B, *E. coli* X1776, and *E. coli* W3110 are also suitable.

**[00274]** In addition to prokaryotes, eukaryotic microbes such as filamentous fungi or yeast are also suitable cloning or expression hosts for ABP-encoding vectors. *Saccharomyces cerevisiae*, or common baker's yeast, is a commonly used lower eukaryotic host microorganism. However, a number of other genera, species, and strains are available and useful, such as *Schizosaccharomyces pombe*, *Kluyveromyces* (*K. lactis*, *K. fragilis, K. bulgaricus K. wickeramii*, *K. waltii*, *K. drosophilarum*, *K. thermotolerans*, and *K. marxianus*), *Yarrowia*, *Pichia pastoris*, *Candida* (*C. albicans*), *Trichoderma reesia*, *Neurospora crassa*, *Schwanniomyces* (*S. occidentalis*), and filamentous fungi such as, for example *Penicillium*, *Tolypocladium*, and *Aspergillus* (*A. nidulans* and *A. niger*).

**[00275]** Useful mammalian host cells include COS-7 cells, HEK293 cells; baby hamster kidney (BHK) cells; Chinese hamster ovary (CHO); mouse sertoli cells; African green monkey kidney cells (VERO-76), and the like.

**[00276]** The host cells used to produce the HLA-PEPTIDE ABP may be cultured in a variety of media. Commercially available media such as, for example, Ham's F10, Minimal Essential Medium (MEM), RPMI-1640, and Dulbecco's Modified Eagle's Medium (DMEM) are suitable for culturing the host cells. In addition, any of the media described in Ham et al., *Meth. Enz.*, 1979, 58:44; Barnes et al., *Anal. Biochem.*, 1980, 102:255; and U.S. Patent Nos. 4,767,704, 4,657,866, 4,927,762, 4,560,655, and 5,122,469; or WO 90/03430 and WO 87/00195 may be used. Each of the foregoing references is incorporated by reference in its entirety.

**[00277]** Any of these media may be supplemented as necessary with hormones and/or other growth factors (such as insulin, transferrin, or epidermal growth factor), salts (such as sodium chloride, calcium, magnesium, and phosphate), buffers (such as HEPES), nucleotides (such as adenosine and thymidine), antibiotics, trace elements (defined as inorganic compounds usually present at final concentrations in the micromolar range), and glucose or an equivalent energy source. Any other necessary supplements may also be included at appropriate concentrations that would be known to those skilled in the art.

**[00278]** The culture conditions, such as temperature, pH, and the like, are those previously used with the host cell selected for expression, and will be apparent to the ordinarily skilled artisan.

**[00279]** When using recombinant techniques, the ABP can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the ABP is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. For example, Carter et al. (*Bio/Technology*, 1992, 10:163-167, incorporated by reference in its entirety) describes a procedure for isolating ABPs which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation.

**[00280]** In some embodiments, the ABP is produced in a cell-free system. In some aspects, the cell-free system is an *in vitro* transcription and translation system as described in Yin et al., *mAbs*, 2012, 4:217-225, incorporated by reference in its entirety. In some aspects, the cell-free system utilizes a cell-free extract from a eukaryotic cell or from a prokaryotic cell. In some aspects, the prokaryotic cell is *E. coli*. Cell-free expression of the ABP may be useful, for example, where the ABP accumulates in a cell as an insoluble aggregate, or where yields from periplasmic expression are low.

**[00281]** Where the ABP is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon® or Millipore® Pellcon® ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

**[00282]** The ABP composition prepared from the cells can be purified using, for example, hydroxylapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography, with affinity chromatography being a particularly useful purification technique. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the ABP. Protein A can be used to purify ABPs that comprise human γ1, γ2, or γ4 heavy chains (Lindmark et al., *J. Immunol. Meth.*, 1983, 62:1-13, incorporated by reference in its entirety). Protein G is useful for all mouse isotypes and for human γ3 (Guss et al., *EMBO J.*, 1986, 5:1567-1575, incorporated by reference in its entirety).

**[00283]** The matrix to which the affinity ligand is attached is most often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or

poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the ABP comprises a $C_{H3}$ domain, the BakerBond ABX® resin is useful for purification.

**[00284]** Other techniques for protein purification, such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin Sepharose®, chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available, and can be applied by one of skill in the art.

**[00285]** Following any preliminary purification step(s), the mixture comprising the ABP of interest and contaminants may be subjected to low pH hydrophobic interaction chromatography using an elution buffer at a pH between about 2.5 to about 4.5, generally performed at low salt concentrations (e.g., from about 0 to about 0.25 M salt).

## Methods of Making HLA-PEPTIDE ABPs

### *HLA-PEPTIDE Antigen Preparation*

**[00286]** The HLA-PEPTIDE antigen used for isolation or creation of the ABPs provided herein may be intact HLA-PEPTIDE or a fragment of HLA-PEPTIDE. The HLA-PEPTIDE antigen may be, for example, in the form of isolated protein or a protein expressed on the surface of a cell.

**[00287]** In some embodiments, the HLA-PEPTIDE antigen is a non-naturally occurring variant of HLA-PEPTIDE, such as a HLA-PEPTIDE protein having an amino acid sequence or post-translational modification that does not occur in nature.

**[00288]** In some embodiments, the HLA-PEPTIDE antigen is truncated by removal of, for example, intracellular or membrane-spanning sequences, or signal sequences. In some embodiments, the HLA-PEPTIDE antigen is fused at its C-terminus to a human IgG1 Fc domain or a polyhistidine tag.

### *Methods and Systems for Identifying ABPs*

**[00289]** ABPs that bind HLA-PEPTIDE can be identified using any method known in the art, e.g., phage display, immunization of a subject, or isolation of an ABP expressing cell and subsequent sequencing of the ABP.

**[00290]** One method of identifying an antigen binding protein includes providing at least one HLA-PEPTIDE target; and binding the at least one target with an antigen binding

protein, thereby identifying the antigen binding protein. The antigen binding protein can be present in a library comprising a plurality of distinct antigen binding proteins.

**[00291]** In some embodiments, the library is a phage display library. The phage display library can be developed so that it is substantially free of antigen binding proteins that non-specifically bind the HLA of the HLA-PEPTIDE target. The antigen binding protein can be present in a yeast display library comprising a plurality of distinct antigen binding proteins. The yeast display library can be developed so that it is substantially free of antigen binding proteins that non-specifically bind the HLA of the HLA-PEPTIDE target.

**[00292]** In some embodiments, the library is a yeast display library.

**[00293]** In some aspects, the binding step is performed more than once, optionally at least three times, e.g., at least 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10x.

**[00294]** In addition, the method can also include contacting the antigen binding protein with one or more peptide-HLA complexes that are distinct from the HLA-PEPTIDE target to determine if the antigen binding protein selectively binds the HLA-PEPTIDE target.

**[00295]** Accordingly, provided herein are systems for identifying an ABP that selectively binds one or more antigens described herein. In some embodiments, the system comprises (a) an isolated antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, and wherein the antigen is selected from an antigen described in any one of SEQ ID NOs:10,755 to 29,364; and (b) a library comprising a plurality of distinct antigen binding proteins. In some embodiments, the library is a phage display library.

**[00296]** In some embodiments of the system, the antigen is attached to a solid support. The solid support can cormpise, e.g., a bead, well, membrane, tube, column, plate, sepharose, magnetic bead, cell, or chip. In some embodiments, the antigen comprises a first member of an affinity binding pair and the solid support comprises a second member of the affinity binding pair. In some embodiments, the first member is streptavidin and the second member is biotin. In some embodiments, the antigen attached to a solid support is an HLA-multimer (e.g., a tetramer) comprising at least one HLA-PEPTIDE target.

**[00297]** In some embodiments of the system, the library (e.g., the phage display library) is a human library. In some embodiments of the system, the library (e.g., the phage display library) is a humanized library.

**[00298]** In some embodiments, the system further comprises a negative control antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, and wherein the negative control antigen comprises a different restricted peptide, a different HLA Class I molecule, or a different restricted peptide and a different HLA Class I molecule. In some embodiments, the negative control antigen comprises a different restricted peptide but the same HLA Class I molecule as the antigen.

**[00299]** In some embodiments, the system comprises a reaction mixture, the reaction mixture comprising the antigen and a plurality of phages from the phage display library.

**[00300]** Another method of identifying an antigen binding protein can include obtaining at least one HLA-PEPTIDE target; administering the HLA-PEPTIDE target to a subject (e.g., a mouse, rabbit or a llama), optionally in combination with an adjuvant; and isolating the antigen binding protein from the subject. Isolating the antigen binding protein can include screening the serum of the subject to identify the antigen binding protein. The method can also include contacting the antigen binding protein with one or more peptide-HLA complexes that are distinct from the HLA-PEPTIDE target, e.g., to determine if the antigen binding protein selectively binds to the HLA-PEPTIDE target. An antigen binding protein that is identified can be humanized.

**[00301]** In some aspects, isolating the antigen binding protein comprises isolating a T cell from the subject that expresses the antigen binding protein. The T cell can be used to create a hybridoma. The T cell can also be used for cloning one or more of its CDRs. The T cell can also be immortalized, for example, by using EBV transformation. Sequences encoding an antigen binding protein can be cloned from immortalized T cells or can be cloned directly from T cells isolated from an immunized subject. A library that comprises the antigen binding protein of the T cell can also be created, optionally wherein the library is phage display or yeast display.

**[00302]** Another method of identifying an antigen binding protein can include obtaining a cell comprising the antigen binding protein (ABP); contacting the cell with an HLA-multimer (e.g., a tetramer) comprising at least one HLA-PEPTIDE target; and identifying the antigen binding protein via binding between the HLA-multimer and the antigen binding protein.

**[00303]** Another method of identifying an antigen binding protein can include obtaining a cell comprising the antigen binding protein (ABP) and determining the sequence of the ABP.

For example, the method can include contacting the cell with an HLA-multimer (e.g., a tetramer) comprising at least one HLA-PEPTIDE target; isolating the cell, optionally using flow cytometry (*e.g.* fluorescent activated cell sorting "FACS"), magnetic separation, or single cell separation; and sequencing polynucleotides from the isolated cell to determine the sequence of the ABP.

**[00304]** In some embodiments, isolation is carried out by enrichment for a particular cell population by positive selection, or depletion of a particular cell population, by negative selection. In some embodiments, positive or negative selection is accomplished by incubating cells with one or more antibodies or other binding agent that specifically bind to one or more surface markers expressed or expressed (marker+) at a relatively higher level (marker$^{high}$) on the positively or negatively selected cells, respectively. For example, a population of cells known or suspected to contain T cells can be positively sorted based on binding to a tetramer containing a HLA-PEPTIDE of interest (*e.g.*, a neoantigen). FACS isolation can also include removing cells that bind to a HLA-PEPTIDE target that is not of interest. For example, cells can be positively sorted based on binding to a tetramer containing a HLA-PEPTIDE of interest (*e.g.*, a neoantigen) and negatively sorted based on binding to a tetramer containing a HLA-PEPTIDE not of interest (*e.g.*, the wildtype peptide sequence corresponding to a neoantigen of interest).

**[00305]** Isolation of cells expressing an ABP-containing protein (*e.g*, FACS-based isolation of T cells), can include isolation of subject-derived cells. Subject-derived cells can be isolated from a variety of biological samples including, but not limited to, body fluids, such as blood, plasma, serum, cerebrospinal fluid, synovial fluid, urine and sweat, tissue and organ samples. The biological sample can be a sample obtained directly from a biological source or a sample that is processed. The sample from which the subject-derived cells are derived or isolated can be a blood or a blood-derived sample, or can be derived from an apheresis or leukapheresis product. Exemplary samples include whole blood, peripheral blood mononuclear cells (PBMCs), leukocytes, bone marrow, thymus, tissue biopsy, tumor, leukemia, lymphoma, lymph node, gut associated lymphoid tissue, mucosa associated lymphoid tissue, spleen, other lymphoid tissues, liver, lung, stomach, intestine, colon, kidney, pancreas, breast, bone, prostate, cervix, testes, ovaries, tonsil, or other organ, and/or cells derived therefrom. Exemplary cells and cell populations expressing an ABP-containing protein include, but are not limited to, an activated T cell, a tumor infiltrating lymphocyte

(TIL), a PBMC, a cultured (*e.g.*, expanded) T cell, a naive T (TN) cell, an effector T cell (TEFF), a memory T cell, a stem cell memory T cell (TSCM), a central memory T cell (TCM), an effector memory T cell (TEM), a terminally differentiated effector memory T cell, an immature T cell, a mature T cell, a helper T cell, a cytotoxic T cell, a mucosa-associated invariant T (MALT) cell, a regulatory T cell (Treg), a TH1 cell, a TH2 cell, a TH3 cell, a TH17 cell, a TH9 cell, a TH22 cell, a follicular helper T cell, an natural killer T cell (NKT), an alpha-beta T cell, and a gamma-delta T cell.

**[00306]** Sequencing of cells expressing an ABP-containing protein can carried out by techniques known to those skilled in the art, such as the Chromium Single Cell Immune Profiling system (10x Genomics).

**[00307]** Another method of identifying an antigen binding protein can include obtaining one or more cells comprising the antigen binding protein; activating the one or more cells with at least one HLA-PEPTIDE target presented on at least one antigen presenting cell (APC); and identifying the antigen binding protein via selection of one or more cells activated by interaction with at least one HLA-PEPTIDE target.

**[00308]** The cell can be, e.g., a T cell, optionally a CTL, or an NK cell, for example. The method can further include isolating the cell, optionally using flow cytometry, magnetic separation, or single cell separation. The method can further include sequencing the antigen binding protein.

### Methods for Engineering Cells with ABPs

**[00309]** Also provided are methods, nucleic acids, compositions, and kits, for expressing the ABPs, including receptors comprising TCRs, CARs, and the like, and for producing genetically engineered cells expressing such ABPs. The genetic engineering generally involves introduction of a nucleic acid encoding the recombinant or engineered component into the cell, such as by retroviral transduction, transfection, or transformation.

**[00310]** In some embodiments, gene transfer is accomplished by first stimulating the cell, such as by combining it with a stimulus that induces a response such as proliferation, survival, and/or activation, e.g., as measured by expression of a cytokine or activation marker, followed by transduction of the activated cells, and expansion in culture to numbers sufficient for clinical applications.

**[00311]** In some contexts, overexpression of a stimulatory factor (for example, a lymphokine or a cytokine) may be toxic to a subject. Thus, in some contexts, the engineered

cells include segments that cause the cells to be susceptible to negative selection in vivo, such as upon administration in adoptive immunotherapy. For example in some aspects, the cells are engineered so that they can be eliminated as a result of a change in the in vivo condition of the patient to which they are administered. The negative selectable phenotype may result from the insertion of a gene that confers sensitivity to an administered agent, for example, a compound. Negative selectable genes include the Herpes simplex virus type I thymidine kinase (HSV-I TK) gene (Wigler et al., Cell II: 223, 1977) which confers ganciclovir sensitivity; the cellular hypoxanthine phosphribosyltransferase (HPRT) gene, the cellular adenine phosphoribosyltransferase (APRT) gene, bacterial cytosine deaminase, (Mullen et al., Proc. Natl. Acad. Sci. USA. 89:33 (1992)).

**[00312]** In some aspects, the cells are further engineered to promote expression of cytokines or other factors. Various methods for the introduction of genetically engineered components, such as antigen receptors (e.g., TCRs), are well known and may be used with the provided methods and compositions. Exemplary methods include those for transfer of nucleic acids encoding the receptors, including via viral, e.g., retroviral or lentiviral transduction, transposons, nuclease mediated gene-editing (*e.g.*, CRISPR, TALEN, meganuclease, or ZFN editing systems), and electroporation. For example, nuclease mediated gene-editing, particularly for editing T cells, is described in more detail in international applications WO/2018/232356 and PCT/US2018/058230, herein incorporated by reference for all purposes.

**[00313]** In some embodiments, recombinant nucleic acids are transferred into cells using recombinant infectious virus particles, such as, e.g., vectors derived from simian virus 40 (SV40), adenoviruses, adeno-associated virus (AAV). In some embodiments, recombinant nucleic acids are transferred into T cells using recombinant lentiviral vectors or retroviral vectors, such as gamma-retroviral vectors (see, e.g., Koste et al. (2014) Gene Therapy 2014 Apr. 3. doi: 10.1038/gt.2014.25; Carlens et al. (2000) Exp Hematol 28(10): 1137-46; Alonso-Camino et al. (2013) Mol Ther Nucl Acids 2, e93; Park et al., Trends Biotechnol. 2011 Nov. 29(11): 550-557.

**[00314]** In some embodiments, the retroviral vector has a long terminal repeat sequence (LTR), e.g., a retroviral vector derived from the Moloney murine leukemia virus (MoMLV), myeloproliferative sarcoma virus (MPSV), murine embryonic stem cell virus (MESV), murine stem cell virus (MSCV), spleen focus forming virus (SFFV), or adeno-associated

virus (AAV). Most retroviral vectors are derived from murine retroviruses. In some embodiments, the retroviruses include those derived from any avian or mammalian cell source. The retroviruses typically are amphotropic, meaning that they are capable of infecting host cells of several species, including humans. In one embodiment, the gene to be expressed replaces the retroviral gag, pol and/or env sequences. A number of illustrative retroviral systems have been described (e.g., U.S. Pat. Nos. 5,219,740; 6,207,453; 5,219,740; Miller and Rosman (1989) BioTechniques 7:980-990; Miller, A. D. (1990) Human Gene Therapy 1:5-14; Scarpa et al. (1991) Virology 180:849-852; Burns et al. (1993) Proc. Natl. Acad. Sci. USA 90:8033-8037; and Boris-Lawrie and Temin (1993) Cur. Opin. Genet. Develop. 3:102-109.

**[00315]** Methods of lentiviral transduction are known. Exemplary methods are described in, e.g., Wang et al. (2012) J. Immunother. 35(9): 689-701; Cooper et al. (2003) Blood. 101:1637-1644; Verhoeyen et al. (2009) Methods Mol Biol. 506: 97-114; and Cavalieri et al. (2003) Blood. 102(2): 497-505.

**[00316]** In some embodiments, recombinant nucleic acids are transferred into T cells via electroporation (see, e.g., Chicaybam et al, (2013) PLoS ONE 8(3): e60298; Van Tedeloo et al. (2000) Gene Therapy 7(16): 1431-1437; and Roth et al. (2018) Nature 559:405–409). In some embodiments, recombinant nucleic acids are transferred into T cells via transposition (see, e.g., Manuri et al. (2010) Hum Gene Ther 21(4): 427-437; Sharma et al. (2013) Molec Ther Nucl Acids 2, e74; and Huang et al. (2009) Methods Mol Biol 506: 115-126). Other methods of introducing and expressing genetic material in immune cells include calcium phosphate transfection (e.g., as described in Current Protocols in Molecular Biology, John Wiley & Sons, New York. N.Y.), protoplast fusion, cationic liposome-mediated transfection; tungsten particle-facilitated microparticle bombardment (Johnston, Nature, 346: 776-777 (1990)); and strontium phosphate DNA co-precipitation (Brash et al., Mol. Cell Biol., 7: 2031-2034 (1987)).

**[00317]** Other approaches and vectors for transfer of the nucleic acids encoding the recombinant products are those described, e.g., in international patent application, Publication No.: WO2014055668, and U.S. Pat. No. 7,446,190.

**[00318]** Among additional nucleic acids, e.g., genes for introduction are those to improve the efficacy of therapy, such as by promoting viability and/or function of transferred cells; genes to provide a genetic marker for selection and/or evaluation of the cells, such as to

assess in vivo survival or localization; genes to improve safety, for example, by making the cell susceptible to negative selection in vivo as described by Lupton S. D. et al., Mol. and Cell Biol., 11:6 (1991); and Riddell et al., Human Gene Therapy 3:319-338 (1992); see also the publications of PCT/US91/08442 and PCT/US94/05601 by Lupton et al. describing the use of bifunctional selectable fusion genes derived from fusing a dominant positive selectable marker with a negative selectable marker. See, e.g., Riddell et al., U.S. Pat. No. 6,040,177, at columns 14-17.

**Preparation of Engineered Cells**

**[00319]** In some embodiments, preparation of the engineered cells includes one or more culture and/or preparation steps. The cells for introduction of the HLA-PEPTIDE-ABP, e.g., TCRs, can be isolated from a sample, such as a biological sample, e.g., one obtained from or derived from a subject. In some embodiments, the subject from which the cell is isolated is one having the disease or condition or in need of a cell therapy or to which cell therapy will be administered. The subject in some embodiments is a human in need of a particular therapeutic intervention, such as the adoptive cell therapy for which cells are being isolated, processed, and/or engineered.

**[00320]** Accordingly, the cells in some embodiments are primary cells, e.g., primary human cells. The samples include tissue, fluid, and other samples taken directly from the subject, as well as samples resulting from one or more processing steps, such as separation, centrifugation, genetic engineering (e.g. transduction with viral vector), washing, and/or incubation. The biological sample can be a sample obtained directly from a biological source or a sample that is processed. Biological samples include, but are not limited to, body fluids, such as blood, plasma, serum, cerebrospinal fluid, synovial fluid, urine and sweat, tissue and organ samples, including processed samples derived therefrom.

**[00321]** In some aspects, the sample from which the cells are derived or isolated is blood or a blood-derived sample, or is or is derived from an apheresis or leukapheresis product. Exemplary samples include whole blood, peripheral blood mononuclear cells (PBMCs), leukocytes, bone marrow, thymus, tissue biopsy, tumor, leukemia, lymphoma, lymph node, gut associated lymphoid tissue, mucosa associated lymphoid tissue, spleen, other lymphoid tissues, liver, lung, stomach, intestine, colon, kidney, pancreas, breast, bone, prostate, cervix, testes, ovaries, tonsil, or other organ, and/or cells derived therefrom. Samples include, in the

context of cell therapy, e.g., adoptive cell therapy, samples from autologous and allogeneic sources.

**[00322]** In some embodiments, the cells are derived from cell lines, e.g., T cell lines. The cells in some embodiments are obtained from a xenogeneic source, for example, from mouse, rat, non-human primate, or pig.

**[00323]** In some embodiments, isolation of the cells includes one or more preparation and/or non-affinity based cell separation steps. In some examples, cells are washed, centrifuged, and/or incubated in the presence of one or more reagents, for example, to remove unwanted components, enrich for desired components, lyse or remove cells sensitive to particular reagents. In some examples, cells are separated based on one or more property, such as density, adherent properties, size, sensitivity and/or resistance to particular components.

**[00324]** In some examples, cells from the circulating blood of a subject are obtained, e.g., by apheresis or leukapheresis. The samples, in some aspects, contain lymphocytes, including T cells, monocytes, granulocytes, B cells, other nucleated white blood cells, red blood cells, and/or platelets, and in some aspects contains cells other than red blood cells and platelets.

**[00325]** In some embodiments, the blood cells collected from the subject are washed, e.g., to remove the plasma fraction and to place the cells in an appropriate buffer or media for subsequent processing steps. In some embodiments, the cells are washed with phosphate buffered saline (PBS). In some embodiments, the wash solution lacks calcium and/or magnesium and/or many or all divalent cations. In some aspects, a washing step is accomplished a semi-automated "flow-through" centrifuge (for example, the Cobe 2991 cell processor, Baxter) according to the manufacturer's instructions. In some aspects, a washing step is accomplished by tangential flow filtration (TFF) according to the manufacturer's instructions. In some embodiments, the cells are resuspended in a variety of biocompatible buffers after washing, such as, for example, Ca++/Mg++ free PBS. In certain embodiments, components of a blood cell sample are removed and the cells directly resuspended in culture media.

**[00326]** In some embodiments, the methods include density-based cell separation methods, such as the preparation of white blood cells from peripheral blood by lysing the red blood cells and centrifugation through a Percoll or Ficoll gradient.

**[00327]** In some embodiments, the isolation methods include the separation of different cell types based on the expression or presence in the cell of one or more specific molecules, such as surface markers, e.g., surface proteins, intracellular markers, or nucleic acid. In some embodiments, any known method for separation based on such markers may be used. In some embodiments, the separation is affinity- or immunoaffinity-based separation. For example, the isolation in some aspects includes separation of cells and cell populations based on the cells' expression or expression level of one or more markers, typically cell surface markers, for example, by incubation with an antibody or binding partner that specifically binds to such markers, followed generally by washing steps and separation of cells having bound the antibody or binding partner, from those cells having not bound to the antibody or binding partner.

**[00328]** Such separation steps can be based on positive selection, in which the cells having bound the reagents are retained for further use, and/or negative selection, in which the cells having not bound to the antibody or binding partner are retained. In some examples, both fractions are retained for further use. In some aspects, negative selection can be particularly useful where no antibody is available that specifically identifies a cell type in a heterogeneous population, such that separation is best carried out based on markers expressed by cells other than the desired population.

**[00329]** The separation need not result in 100% enrichment or removal of a particular cell population or cells expressing a particular marker. For example, positive selection of or enrichment for cells of a particular type, such as those expressing a marker, refers to increasing the number or percentage of such cells, but need not result in a complete absence of cells not expressing the marker. Likewise, negative selection, removal, or depletion of cells of a particular type, such as those expressing a marker, refers to decreasing the number or percentage of such cells, but need not result in a complete removal of all such cells.

**[00330]** In some examples, multiple rounds of separation steps are carried out, where the positively or negatively selected fraction from one step is subjected to another separation step, such as a subsequent positive or negative selection. In some examples, a single separation step can deplete cells expressing multiple markers simultaneously, such as by incubating cells with a plurality of antibodies or binding partners, each specific for a marker targeted for negative selection. Likewise, multiple cell types can simultaneously be positively

selected by incubating cells with a plurality of antibodies or binding partners expressed on the various cell types.

**[00331]** For example, in some aspects, specific subpopulations of T cells, such as cells positive or expressing high levels of one or more surface markers, e.g., CD28+, CD62L+, CCR7+, CD27+, CD127+, CD4+, CD8+, CD45RA+, and/or CD45RO+ T cells, are isolated by positive or negative selection techniques.

**[00332]** For example, CD3+, CD28+ T cells can be positively selected using CD3/CD28 conjugated magnetic beads (e.g., DYNABEADS.RTM. M-450 CD3/CD28 T Cell Expander).

**[00333]** In some embodiments, isolation is carried out by enrichment for a particular cell population by positive selection, or depletion of a particular cell population, by negative selection. In some embodiments, positive or negative selection is accomplished by incubating cells with one or more antibodies or other binding agent that specifically bind to one or more surface markers expressed or expressed (marker+) at a relatively higher level (marker$^{high}$) on the positively or negatively selected cells, respectively.

**[00334]** In some embodiments, T cells are separated from a peripheral blood mononuclear cell (PBMC) sample by negative selection of markers expressed on non-T cells, such as B cells, monocytes, or other white blood cells, such as CD14. In some aspects, a CD4+ or CD8+ selection step is used to separate CD4+ helper and CD8+ cytotoxic T cells. Such CD4+ and CD8+ populations can be further sorted into sub-populations by positive or negative selection for markers expressed or expressed to a relatively higher degree on one or more naive, memory, and/or effector T cell subpopulations.

**[00335]** In some embodiments, CD8+ cells are further enriched for or depleted of naive, central memory, effector memory, and/or central memory stem cells, such as by positive or negative selection based on surface antigens associated with the respective subpopulation. In some embodiments, enrichment for central memory T (TCM) cells is carried out to increase efficacy, such as to improve long-term survival, expansion, and/or engraftment following administration, which in some aspects is particularly robust in such sub-populations. See Terakura et al. (2012) Blood. 1:72-82; Wang et al. (2012) J Immunother. 35(9):689-701. In some embodiments, combining TCM-enriched CD8+ T cells and CD4+ T cells further enhances efficacy.

**[00336]** In embodiments, memory T cells are present in both CD62L+ and CD62L- subsets of CD8+ peripheral blood lymphocytes. Peripheral blood mononuclear cell (PBMC) can be enriched for or depleted of CD62L-CD8+ and/or CD62L+CD8+ fractions, such as using anti-CD8 and anti-CD62L antibodies.

**[00337]** In some embodiments, the enrichment for central memory T (TCM) cells is based on positive or high surface expression of CD45RO, CD62L, CCR7, CD28, CD3, and/or CD 127; in some aspects, it is based on negative selection for cells expressing or highly expressing CD45RA and/or granzyme B. In some aspects, isolation of a CD8+ population enriched for TCM cells is carried out by depletion of cells expressing CD4, CD14, CD45RA, and positive selection or enrichment for cells expressing CD62L. In one aspect, enrichment for central memory T (TCM) cells is carried out starting with a negative fraction of cells selected based on CD4 expression, which is subjected to a negative selection based on expression of CD14 and CD45RA, and a positive selection based on CD62L. Such selections in some aspects are carried out simultaneously and in other aspects are carried out sequentially, in either order. In some aspects, the same CD4 expression-based selection step used in preparing the CD8+ cell population or subpopulation, also is used to generate the CD4+ cell population or sub-population, such that both the positive and negative fractions from the CD4-based separation are retained and used in subsequent steps of the methods, optionally following one or more further positive or negative selection steps.

**[00338]** In a particular example, a sample of PBMCs or other white blood cell sample is subjected to selection of CD4+ cells, where both the negative and positive fractions are retained. The negative fraction then is subjected to negative selection based on expression of CD14 and CD45RA or ROR1, and positive selection based on a marker characteristic of central memory T cells, such as CD62L or CCR7, where the positive and negative selections are carried out in either order.

**[00339]** CD4+ T helper cells are sorted into naive, central memory, and effector cells by identifying cell populations that have cell surface antigens. CD4+ lymphocytes can be obtained by standard methods. In some embodiments, naive CD4+ T lymphocytes are CD45RO-, CD45RA+, CD62L+, CD4+ T cells. In some embodiments, central memory CD4+ cells are CD62L+ and CD45RO+. In some embodiments, effector CD4+ cells are CD62L- and CD45RO-.

**[00340]** In one example, to enrich for CD4+ cells by negative selection, a monoclonal antibody cocktail typically includes antibodies to CD14, CD20, CD11b, CD16, HLA-DR, and CD8. In some embodiments, the antibody or binding partner is bound to a solid support or matrix, such as a magnetic bead or paramagnetic bead, to allow for separation of cells for positive and/or negative selection. For example, in some embodiments, the cells and cell populations are separated or isolated using immune-magnetic (or affinity-magnetic) separation techniques (reviewed in Methods in Molecular Medicine, vol. 58: Metastasis Research Protocols, Vol. 2: Cell Behavior In Vitro and In Vivo, p 17-25 Edited by: S. A. Brooks and U. Schumacher Humana Press Inc., Totowa, N.J.).

**[00341]** In some aspects, the sample or composition of cells to be separated is incubated with small, magnetizable or magnetically responsive material, such as magnetically responsive particles or microparticles, such as paramagnetic beads (e.g., such as Dynabeads or MACS beads). The magnetically responsive material, e.g., particle, generally is directly or indirectly attached to a binding partner, e.g., an antibody, that specifically binds to a molecule, e.g., surface marker, present on the cell, cells, or population of cells that it is desired to separate, e.g., that it is desired to negatively or positively select.

**[00342]** In some embodiments, the magnetic particle or bead comprises a magnetically responsive material bound to a specific binding member, such as an antibody or other binding partner. There are many well-known magnetically responsive materials used in magnetic separation methods. Suitable magnetic particles include those described in Molday, U.S. Pat. No. 4,452,773, and in European Patent Specification EP 452342 B, which are hereby incorporated by reference. Colloidal sized particles, such as those described in Owen U.S. Pat. No. 4,795,698, and Liberti et al., U.S. Pat. No. 5,200,084 are other examples.

**[00343]** The incubation generally is carried out under conditions whereby the antibodies or binding partners, or molecules, such as secondary antibodies or other reagents, which specifically bind to such antibodies or binding partners, which are attached to the magnetic particle or bead, specifically bind to cell surface molecules if present on cells within the sample.

**[00344]** In some aspects, the sample is placed in a magnetic field, and those cells having magnetically responsive or magnetizable particles attached thereto will be attracted to the magnet and separated from the unlabeled cells. For positive selection, cells that are attracted to the magnet are retained; for negative selection, cells that are not attracted (unlabeled cells)

are retained. In some aspects, a combination of positive and negative selection is performed during the same selection step, where the positive and negative fractions are retained and further processed or subject to further separation steps.

**[00345]** In certain embodiments, the magnetically responsive particles are coated in primary antibodies or other binding partners, secondary antibodies, lectins, enzymes, or streptavidin. In certain embodiments, the magnetic particles are attached to cells via a coating of primary antibodies specific for one or more markers. In certain embodiments, the cells, rather than the beads, are labeled with a primary antibody or binding partner, and then cell-type specific secondary antibody- or other binding partner (e.g., streptavidin)-coated magnetic particles, are added. In certain embodiments, streptavidin-coated magnetic particles are used in conjunction with biotinylated primary or secondary antibodies.

**[00346]** In some embodiments, the magnetically responsive particles are left attached to the cells that are to be subsequently incubated, cultured and/or engineered; in some aspects, the particles are left attached to the cells for administration to a patient. In some embodiments, the magnetizable or magnetically responsive particles are removed from the cells. Methods for removing magnetizable particles from cells are known and include, e.g., the use of competing non-labeled antibodies, magnetizable particles or antibodies conjugated to cleavable linkers, etc. In some embodiments, the magnetizable particles are biodegradable.

**[00347]** In some embodiments, the affinity-based selection is via magnetic-activated cell sorting (MACS) (Miltenyi Biotech, Auburn, Calif.). Magnetic Activated Cell Sorting (MACS) systems are capable of high-purity selection of cells having magnetized particles attached thereto. In certain embodiments, MACS operates in a mode wherein the non-target and target species are sequentially eluted after the application of the external magnetic field. That is, the cells attached to magnetized particles are held in place while the unattached species are eluted. Then, after this first elution step is completed, the species that were trapped in the magnetic field and were prevented from being eluted are freed in some manner such that they can be eluted and recovered. In certain embodiments, the non-target cells are labelled and depleted from the heterogeneous population of cells.

**[00348]** In certain embodiments, the isolation or separation is carried out using a system, device, or apparatus that carries out one or more of the isolation, cell preparation, separation, processing, incubation, culture, and/or formulation steps of the methods. In some aspects, the system is used to carry out each of these steps in a closed or sterile environment, for example,

to minimize error, user handling and/or contamination. In one example, the system is a system as described in International Patent Application, Publication Number WO2009/072003, or US 20110003380 A1.

**[00349]** In some embodiments, the system or apparatus carries out one or more, e.g., all, of the isolation, processing, engineering, and formulation steps in an integrated or self-contained system, and/or in an automated or programmable fashion. In some aspects, the system or apparatus includes a computer and/or computer program in communication with the system or apparatus, which allows a user to program, control, assess the outcome of, and/or adjust various aspects of the processing, isolation, engineering, and formulation steps.

**[00350]** In some aspects, the separation and/or other steps is carried out using CliniMACS system (Miltenyi Biotec), for example, for automated separation of cells on a clinical-scale level in a closed and sterile system. Components can include an integrated microcomputer, magnetic separation unit, peristaltic pump, and various pinch valves. The integrated computer in some aspects controls all components of the instrument and directs the system to perform repeated procedures in a standardized sequence. The magnetic separation unit in some aspects includes a movable permanent magnet and a holder for the selection column. The peristaltic pump controls the flow rate throughout the tubing set and, together with the pinch valves, ensures the controlled flow of buffer through the system and continual suspension of cells.

**[00351]** The CliniMACS system in some aspects uses antibody-coupled magnetizable particles that are supplied in a sterile, non-pyrogenic solution. In some embodiments, after labelling of cells with magnetic particles the cells are washed to remove excess particles. A cell preparation bag is then connected to the tubing set, which in turn is connected to a bag containing buffer and a cell collection bag. The tubing set consists of pre-assembled sterile tubing, including a pre-column and a separation column, and are for single use only. After initiation of the separation program, the system automatically applies the cell sample onto the separation column. Labeled cells are retained within the column, while unlabeled cells are removed by a series of washing steps. In some embodiments, the cell populations for use with the methods described herein are unlabeled and are not retained in the column. In some embodiments, the cell populations for use with the methods described herein are labeled and are retained in the column. In some embodiments, the cell populations for use with the

methods described herein are eluted from the column after removal of the magnetic field, and are collected within the cell collection bag.

**[00352]** In certain embodiments, separation and/or other steps are carried out using the CliniMACS Prodigy system (Miltenyi Biotec). The CliniMACS Prodigy system in some aspects is equipped with a cell processing unity that permits automated washing and fractionation of cells by centrifugation. The CliniMACS Prodigy system can also include an onboard camera and image recognition software that determines the optimal cell fractionation endpoint by discerning the macroscopic layers of the source cell product. For example, peripheral blood may be automatically separated into erythrocytes, white blood cells and plasma layers. The CliniMACS Prodigy system can also include an integrated cell cultivation chamber which accomplishes cell culture protocols such as, e.g., cell differentiation and expansion, antigen loading, and long-term cell culture. Input ports can allow for the sterile removal and replenishment of media and cells can be monitored using an integrated microscope. *See, e.g.,* Klebanoff et al. (2012) J Immunother. 35(9): 651-660, Terakura et al. (2012) Blood. 1:72-82, and Wang et al. (2012) J Immunother. 35(9):689-701.

**[00353]** In some embodiments, a cell population described herein is collected and enriched (or depleted) via flow cytometry, in which cells stained for multiple cell surface markers are carried in a fluidic stream. In some embodiments, a cell population described herein is collected and enriched (or depleted) via preparative scale fluorescence activated cell sorting (FACS). In certain embodiments, a cell population described herein is collected and enriched (or depleted) by use of microelectromechanical systems (MEMS) chips in combination with a FACS-based detection system (see, e.g., WO 2010/033140, Cho et al. (2010) Lab Chip 10, 1567-1573; and Godin et al. (2008) J Biophoton. 1(5):355-376. In both cases, cells can be labeled with multiple markers, allowing for the isolation of well-defined T cell subsets at high purity.

**[00354]** In some embodiments, the antibodies or binding partners are labeled with one or more detectable marker, to facilitate separation for positive and/or negative selection. For example, separation may be based on binding to fluorescently labeled antibodies. In some examples, separation of cells based on binding of antibodies or other binding partners specific for one or more cell surface markers are carried in a fluidic stream, such as by fluorescence-activated cell sorting (FACS), including preparative scale (FACS) and/or microelectromechanical systems (MEMS) chips, e.g., in combination with a flow-cytometric

detection system. Such methods allow for positive and negative selection based on multiple markers simultaneously.

**[00355]** In some embodiments, the preparation methods include steps for freezing, e.g., cryopreserving, the cells, either before or after isolation, incubation, and/or engineering. In some embodiments, the freeze and subsequent thaw step removes granulocytes and, to some extent, monocytes in the cell population. In some embodiments, the cells are suspended in a freezing solution, e.g., following a washing step to remove plasma and platelets. Any of a variety of known freezing solutions and parameters in some aspects may be used. One example involves using PBS containing 20% DMSO and 8% human serum albumin (HSA), or other suitable cell freezing media. This can then be diluted 1:1 with media so that the final concentration of DMSO and HSA are 10% and 4%, respectively. Other examples include Cryostor®, CTL-Cryo™ ABC freezing media, and the like. The cells are then frozen to -80 degrees C at a rate of 1degree per minute and stored in the vapor phase of a liquid nitrogen storage tank.

**[00356]** In some embodiments, the provided methods include cultivation, incubation, culture, and/or genetic engineering steps. For example, in some embodiments, provided are methods for incubating and/or engineering the depleted cell populations and culture-initiating compositions.

**[00357]** Thus, in some embodiments, the cell populations are incubated in a culture-initiating composition. The incubation and/or engineering may be carried out in a culture vessel, such as a unit, chamber, well, column, tube, tubing set, valve, vial, culture dish, bag, or other container for culture or cultivating cells.

**[00358]** In some embodiments, the cells are incubated and/or cultured prior to or in connection with genetic engineering. The incubation steps can include culture, cultivation, stimulation, activation, and/or propagation. In some embodiments, the compositions or cells are incubated in the presence of stimulating conditions or a stimulatory agent. Such conditions include those designed to induce proliferation, expansion, activation, and/or survival of cells in the population, to mimic antigen exposure, and/or to prime the cells for genetic engineering, such as for the introduction of a recombinant antigen receptor.

**[00359]** The conditions can include one or more of particular media, temperature, oxygen content, carbon dioxide content, time, agents, e.g., nutrients, amino acids, antibiotics, ions,

and/or stimulatory factors, such as cytokines, chemokines, antigens, binding partners, fusion proteins, recombinant soluble receptors, and any other agents designed to activate the cells.

**[00360]** In some embodiments, the stimulating conditions or agents include one or more agent, e.g., ligand, which is capable of activating an intracellular signaling domain of a TCR complex. In some aspects, the agent turns on or initiates TCR/CD3 intracellular signaling cascade in a T cell. Such agents can include antibodies, such as those specific for a TCR component and/or costimulatory receptor, e.g., anti-CD3, anti-CD28, for example, bound to solid support such as a bead, and/or one or more cytokines. Optionally, the expansion method may further comprise the step of adding anti-CD3 and/or anti CD28 antibody to the culture medium (e.g., at a concentration of at least about 0.5 ng/ml). In some embodiments, the stimulating agents include IL-2 and/or IL-15, for example, an IL-2 concentration of at least about 10 units/mL.

**[00361]** In some aspects, incubation is carried out in accordance with techniques such as those described in U.S. Pat. No. 6,040,177 to Riddell et al., Klebanoff et al. (2012) J Immunother. 35(9): 651-660, Terakura et al. (2012) Blood. 1:72-82, and/or Wang et al. (2012) J Immunother. 35(9):689-701.

**[00362]** In some embodiments, the T cells are expanded by adding to the culture-initiating composition feeder cells, such as non-dividing peripheral blood mononuclear cells (PBMC), (e.g., such that the resulting population of cells contains at least about 5, 10, 20, or 40 or more PBMC feeder cells for each T lymphocyte in the initial population to be expanded); and incubating the culture (e.g. for a time sufficient to expand the numbers of T cells). In some aspects, the non-dividing feeder cells can comprise gamma-irradiated PBMC feeder cells. In some embodiments, the PBMC are irradiated with gamma rays in the range of about 3000 to 3600 rads to prevent cell division. In some embodiments, the PBMC feeder cells are inactivated with Mytomicin C. In some aspects, the feeder cells are added to culture medium prior to the addition of the populations of T cells.

**[00363]** In some embodiments, the stimulating conditions include temperature suitable for the growth of human T lymphocytes, for example, at least about 25 degrees Celsius, generally at least about 30 degrees, and generally at or about 37 degrees Celsius. Optionally, the incubation may further comprise adding non-dividing EBV-transformed lymphoblastoid cells (LCL) as feeder cells. LCL can be irradiated with gamma rays in the range of about

6000 to 10,000 rads. The LCL feeder cells in some aspects is provided in any suitable amount, such as a ratio of LCL feeder cells to initial T lymphocytes of at least about 10:1.

**[00364]** In embodiments, antigen-specific T cells, such as antigen-specific CD4+ and/or CD8+ T cells, are obtained by stimulating naive or antigen specific T lymphocytes with antigen. For example, antigen-specific T cell lines or clones can be generated to cytomegalovirus antigens by isolating T cells from infected subjects and stimulating the cells in vitro with the same antigen.

**Assays**

**[00365]** A variety of assays known in the art may be used to identify and characterize an HLA-PEPTIDE ABP provided herein.

***Binding, Competition, and Epitope Mapping Assays***

**[00366]** Specific antigen-binding activity of an ABP provided herein may be evaluated by any suitable method, including using SPR, BLI, RIA, Carterra biosensor, and MSD-SET, as described elsewhere in this disclosure. Additionally, antigen-binding activity may be evaluated by ELISA assays, using flow cytometry, and/or Western blot assays.

**[00367]** Assays for measuring competition between two ABPs, or an ABP and another molecule (e.g., one or more ligands of HLA-PEPTIDE such as a TCR) are described elsewhere in this disclosure and, for example, in Harlow and Lane, *ABPs: A Laboratory Manual* ch.14, 1988, Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y, incorporated by reference in its entirety.

**[00368]** Assays for mapping the epitopes to which an ABP provided herein bind are described, for example, in Morris "Epitope Mapping Protocols," in *Methods in Molecular Biology* vol. 66, 1996, Humana Press, Totowa, N.J., incorporated by reference in its entirety. In some embodiments, the epitope is determined by peptide competition. In some embodiments, the epitope is determined by mass spectrometry. In some embodiments, the epitope is determined by mutagenesis. In some embodiments, the epitope is determined by crystallography.

***Assays for Effector Functions***

**[00369]** Effector function following treatment with an ABP and/or cell provided herein may be evaluated using a variety of *in vitro* and *in vivo* assays known in the art, including those described in Ravetch and Kinet, *Annu. Rev. Immunol.*, 1991, 9:457-492; U.S. Pat. Nos.

5,500,362, 5,821,337; Hellstrom et al., *Proc. Nat'l Acad. Sci. USA*, 1986, 83:7059-7063; Hellstrom et al., *Proc. Nat'l Acad. Sci. USA*, 1985, 82:1499-1502; Bruggemann et al., *J. Exp. Med.*, 1987, 166:1351-1361; Clynes et al., *Proc. Nat'l Acad. Sci. USA*, 1998, 95:652-656; WO 2006/029879; WO 2005/100402; Gazzano-Santoro et al., *J. Immunol. Methods*, 1996, 202:163-171; Cragg et al., *Blood*, 2003, 101:1045-1052; Cragg et al. *Blood*, 2004, 103:2738-2743; and Petkova et al., *Int'l. Immunol.*, 2006, 18:1759-1769; each of which is incorporated by reference in its entirety.

### Pharmaceutical Compositions

**[00370]** An ABP, cell, or HLA-PEPTIDE target provided herein can be formulated in any appropriate pharmaceutical composition and administered by any suitable route of administration. Suitable routes of administration include, but are not limited to, the intra-arterial, intradermal, intramuscular, intraperitoneal, intravenous, nasal, parenteral, pulmonary, and subcutaneous routes.

**[00371]** The pharmaceutical composition may comprise one or more pharmaceutical excipients. Any suitable pharmaceutical excipient may be used, and one of ordinary skill in the art is capable of selecting suitable pharmaceutical excipients. Accordingly, the pharmaceutical excipients provided below are intended to be illustrative, and not limiting. Additional pharmaceutical excipients include, for example, those described in the *Handbook of Pharmaceutical Excipients*, Sheskey et al. (Eds.) 8th Ed. (2017), incorporated by reference in its entirety.

**[00372]** In some embodiments, the pharmaceutical composition comprises a carrier.

### Methods of Treatment

**[00373]** For therapeutic applications, ABPs and/or cells are administered to a mammal, generally a human, in a pharmaceutically acceptable dosage form such as those known in the art and those discussed above. For example, ABPs and/or cells may be administered to a human intravenously as a bolus or by continuous infusion over a period of time, by intramuscular, intraperitoneal, intra-cerebrospinal, subcutaneous, intra-articular, intrasynovial, intrathecal, or intratumoral routes. The ABPs also are suitably administered by peritumoral, intralesional, or perilesional routes, to exert local as well as systemic therapeutic effects. The intraperitoneal route may be particularly useful, for example, in the treatment of ovarian tumors.

**[00374]** The ABPs and/or cells provided herein can be useful for the treatment of any disease or condition involving HLA-PEPTIDE antigen. In some embodiments, the disease or condition is a disease or condition that can benefit from treatment with an anti-HLA-PEPTIDE ABP and/or cell. In some embodiments, the disease or condition is a tumor. In some embodiments, the disease or condition is a cell proliferative disorder. In some embodiments, the disease or condition is a cancer.

**[00375]** In some embodiments, the ABPs and/or cells provided herein are provided for use as a medicament. In some embodiments, the ABPs and/or cells provided herein are provided for use in the manufacture or preparation of a medicament. In some embodiments, the medicament is for the treatment of a disease or condition that can benefit from an anti-HLA-PEPTIDE ABP and/or cell. In some embodiments, the disease or condition is a tumor. In some embodiments, the disease or condition is a cell proliferative disorder. In some embodiments, the disease or condition is a cancer.

**[00376]** Provided herein is a method of treating a disease or condition in a subject in need thereof by administering an effective amount of an ABP and/or cell provided herein to the subject. In some aspects, the disease or condition is a cancer.

**[00377]** Also provided herein is a method of treating a disease or condition in a subject in need thereof by administering an effective amount of an ABP and/or cell provided herein to the subject, wherein the disease or condition is a cancer, and the cancer is selected from a solid tumor and a hematological tumor.

**[00378]** Also provided herein is a method of modulating an immune response in a subject in need thereof, comprising administering to the subject an effective amount of an ABP and/or cell or a pharmaceutical composition disclosed herein.

**[00379]** A modulated immune response in the subject may be evaluated by any means known in the art.

**[00380]** In some embodiments, a modulated immune response in the subject comprises an increase in or induction of antibody-dependent cellular toxicity (ADCC), e.g., of a target cell with surface expression of the neoantigen target of the ABP. ADCC can be evaluated by any means known in the art.

**[00381]** In some embodiments, a modulated immune response in the subject comprises an increase in or induction of complement dependent cytotoxicity (CDC), e.g., of a target cell

with surface expression of the neoantigen target of the ABP. CDC can be evaluated by any means known in the art.

**[00382]** By way of example only, immune response in the subject can be evaluated by evaluating lymphocytes obtained from the subject or the subject's tumor for binding to the HLA-PEPTIDE antigen. In some embodiments, tumor-infiltrating lymphocytes from the subject or evaluated for binding to the HLA-PEPTIDE antigen. By way of other example only, modulated immune response in the subject can include an expansion of pre-existing neoantigen-specific T cell population, a broader repertoire of new T-cell specificities in the subject, or both. Methods for evaluating such modulated immune response are described in Ott et al., An immunogenic personal neoantigen vaccine for patients with melanoma, Nature 547, 217-221 (13 July 2017), which is hereby incorporated be reference in its interity. Methods for evaluating immune response are also described in Sahin et al., Personalized RNA mutanome vaccines mobilize poly-specific therapeutic immunity against cancer, Nature 547, 222–226 (13 July 2017), which is hereby incorporated by reference in its entirety.

**[00383]** To perform immune monitoring, PBMCs are commonly used. PBMCs can be isolated before prime vaccination, and after prime vaccination (e.g. 4 weeks and 8 weeks). PBMCs can be harvested just prior to boost vaccinations and after each boost vaccination (e.g. 4 weeks and 8 weeks).

**[00384]** In some embodiments, a modulated immune response in the subject comprises a modulated T cell response. T cell responses can be measured using one or more methods known in the art such as ELISpot, intracellular cytokine staining, cytokine secretion and cell surface capture, T cell proliferation, MHC multimer staining, or by cytotoxicity assay. T cell responses to HLA-PEPTIDE antigens disclosed herein can be monitored from PBMCs by measuring induction of cytokines, such as IFN-gamma, using an ELISpot assay. Specific CD4 or CD8 T cell responses to HLA-PEPTIDE antigens disclosed herein can be monitored from PBMCs by measuring induction of cytokines captured intracellularly or extracellularly, such as IFN-gamma, using flow cytometry. Specific CD4 or CD8 T cell responses to HLA-PEPTIDE antigens disclosed herein can be monitored from PBMCs by measuring T cell populations expressing T cell receptors specific for epitope/MHC class I complexes using MHC multimer staining. Specific CD4 or CD8 T cell responses to HLA-PEPTIDE antigens disclosed herein can be monitored from PBMCs by measuring the ex vivo expansion of T cell populations following 3H-thymidine, bromodeoxyuridine and carboxyfluoresceine-diacetate–

succinimidylester (CFSE) incorporation. The antigen recognition capacity and lytic activity of PBMC-derived T cells that are specific HLA-PEPTIDE antigens disclosed herein can be assessed functionally by chromium release assay or alternative colorimetric cytotoxicity assays.

**[00385]** In particular embodiments, immune response in the subject is evaluated by enzyme linked immunospot (ELISPOT) analysis.

**[00386]** Also provided herein is a method of killing a target cell in a subject in need thereof, comprising administering to the subject an effective amount of an ABP and/or cell or a pharmaceutical composition disclosed herein. In some embodiments, the subject has cancer. In some embodiments, the target cell is a cancer cell.

**[00387]** In some embodiments, the cancer or cancer cell expresses or is predicted to express an HLA-PEPTIDE antigen or HLA Class I molecule as described in any one of SEQ ID NOs:10,755 to 29,364. In some embodiments, the cancer or cancer cell is determined or predicted to comprise the somatic mutation in the gene that is associated with the HLA-PEPTIDE antigen. In some embodiments, the ABP selectively binds to the HLA-PEPTIDE antigen. In some embodiments, the ABP selectively binds to the HLA Class I subtype comprised in the HLA-PEPTIDE antigen.

**[00388]** In some embodiments, prior to administering the ABP to the subject, the cancer or cancer cell of the subject, or a biological sample from the subject, is determined to express the HLA-PEPTIDE antigen . In some embodiments, prior to administering the ABP to the subject, the cancer or cancer cell of the subject, or a biological sample from the subject, is determined to comprise the HLA Class I subtype of the HLA-PEPTIDE antigen. By way of example only, prior to administering an ABP that selectively binds to RAS G12D neoantigen HLA-A*11:01_VVVGADGVGK ("SNA30"), the cancer or cancer cell of the subject, or a biological sample from the subject, is determined to comprise HLA-A*11:01. In some embodiments, prior to administering the ABP to the subject, the cancer or cancer cell of the subject, or a biological sample from the subject, is determined to comprise the somatic mutation in the gene that is associated with the HLA-PEPTIDE antigen. By way of example only, prior to administering an ABP that selectively binds to RAS G12D neoantigen HLA-A*11:01_VVVGADGVGK ("SNA30"), the cancer or cancer cell of the subject, or a biological sample from the subject, is determined to comprise a RAS G12D mutation. In some embodiments, prior to administering the ABP to the subject, the cancer or cancer cell of

the subject, or a biological sample from the subject, is determined to comprise the HLA Class I subtype of the HLA-PEPTIDE antigen and the cancer or cancer cell of the subject expresses or is predicted to express the gene associated with the somatic alteration encompassed by the HLA-PEPTIDE antigen. By way of example only, prior to administering an ABP that selectively binds to RAS G12D neoantigen HLA-A*11:01_VVVGADGVGK ("SNA30"), the cancer or cancer cell of the subject, or a biological sample from the subject is determined to comprise HLA-A*11:01 and the cancer or cancer cell of the subject expresses RAS, e.g., KRAS, NRAS, or HRAS. In some embodiments, prior to administering the ABP to the subject, the cancer, cancer cell, or biological sample of the subject is determined to comprise the somatic mutation in the gene that is associated with the HLA-PEPTIDE antigen, and the subject is determined to express the HLA Class I subtype comprised in the HLA-PEPTIDE antigen. By way of example only, prior to administering an ABP that selectively binds to RAS G12D neoantigen HLA-A*11:01_VVVGADGVGK ("SNA30"), the cancer or cancer cell of the subject, or a biological sample from the subject is determined to comprise HLA-A*11:01 and a RAS G12D mutation. In some embodiments, a biological sample obtained from the subject is determined to be positive for the HLA-PEPTIDE antigen or HLA Class I subtype comprised in the HLA-PEPTIDE antigen. In some embodiments, a cancer or cancer cell of the subject is determined to express the gene associated with the somatic alteration, the mutation, or both the gene and the somatic alteration, above a predefined threshold. In some embodiments, loss of the HLA Class I subtype in the cancer or cancer cell of the subject is not detected.

**[00389]** Biological samples include, but are not limited to, body fluids, such as blood, plasma, serum, cerebrospinal fluid, synovial fluid, urine and sweat, tissue and organ samples, including processed samples derived therefrom. In some embodiments, the biological sample comprises a tumor sample, e.g., a solid tumor sample. In some embodiments, the solid tumor sample is a fresh tumor sample. In some embodiments, the solid tumor sample is a frozen tumor sample. In some embodiments, the tumor sample is a formalin-fixed, paraffin-embedded (FFPE) sample. In some embodiments, the tumor sample is a tumor biopsy or resection preserved in an agent formulated to prevent RNA degradation in the sample. Such agents are known in the art, and include, but are not limited to, RNAlater. In some embodiments, the biological sample is a liquid sample. In particular embodiments, the liquid sample is a blood sample. In particular embodiments, the blood sample is a whole blood

sample. In particular embodiments, the blood sample is a plasma sample. In particular embodiments, the blood sample is a serum sample.

**[00390]** By way of example only, if a cancer, cancer cell, or biological sample of the subject is determined to comprise a CREB3L1 V414I mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 10755. By way of other example only, if the subject is determined to express the HLA Class I allele HLA-A*02:06, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 10755. By way of yet other example only, if the subject is determined to express the HLA Class I allele HLA-A*02:06 and a cancer, cancer cell, or biological sample of the subject is determined to comprise a CREB3L1 V414I mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 10755.

**[00391]** By way of example only, if a cancer, cancer cell, or biological sample of the subject is determined to comprise a RAS G12C mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 14954 and 14955. By way of other example only, if the subject is determined to express the HLA Class I allele HLA-A*02:01, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 14954 and 14955. By way of yet other example only, if the subject is determined to express the HLA Class I allele HLA-A*02:01 and a cancer, cancer cell, or biological sample of the subject is determined to comprise a RAS G12C mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 14954 and 14955.

**[00392]** By way of example only, if a cancer, cancer cell, or biological sample of the subject is determined to comprise a RAS G12D mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 19865. By way of other example only, if the subject is determined to express the HLA Class I allele HLA-A*11:01, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 19865. By way of yet other example only, if the subject is determined to express the HLA Class I allele HLA-A*11:01 and a cancer, cancer cell, or biological sample of the subject is determined to

comprise a RAS G12D mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 19865.

**[00393]** By way of example only, if a cancer, cancer cell, or biological sample of the subject is determined to comprise a RAS G12V mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 19,976. By way of other example only, if the subject is determined to express the HLA Class I allele HLA-A*11:01, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 19,976. By way of yet other example only, if the subject is determined to express the HLA Class I allele HLA-A*11:01 and a cancer, cancer cell, or biological sample of the subject is determined to comprise a RAS G12V mutation, the subject may be selected for treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 19,976.

**[00394]** Expression of the antigen, presence of the somatic mutation in the gene associated with the antigen, or expression of the HLA Class I subtype comprised in the antigen can be determined by any means known in the art.

**[00395]** Expression or presence of the antigen can be determined at the RNA or protein level by any means known in the art. Exemplary methods include, but are not limited to RNASeq, microarray, PCR, Nanostring, in situ hybridization (ISH), Mass spectrometry, or immunohistochemistry (IHC). Thresholds for positivity of gene expression is established by several methods, including: (1) predicted probability of presentation of the epitope by the HLA allele at various gene expression levels, (2) correlation of gene expression and HLA epitope presentation as measured by mass spectrometry, and/or (3) clinical benefits of ABP-based immunotherapy attained for patients expressing the genes at various levels.

**[00396]** For example, presence of the somatic mutation associated with the antigen can be determined by sequencing. In some embodiments, polynucleotides are isolated from the biological sample and sequenced. The polynucleotides can comprise DNA. The polynucleotides can comprise cDNA. The polynucleotides can comprise RNA. The sequencing can comprise whole exome sequencing, whole genome sequencing, targeted sequencing of a panel of cancer genes, or targeted sequencing of a single cancer gene. Exemplary gene panels include, but are not limited to FoundationOne, FoundationOne CDx, Guardant 360, Guardant OMNI, and MSK IMPACT. Presence of the somatic mutation associated with the antigen can also be determined by PCR based assays such as cobas®

KRAS Mutation Test. Presence of the somatic mutation associated with the antigen can also be determined by mass-spec based assays such as MassARRAY, described in Ibarrola-Villava, Maider et al. "Determination of somatic oncogenic mutations linked to target-based therapies using MassARRAY technology." *Oncotarget* vol. 7,16 (2016): 22543-55. doi:10.18632/oncotarget.8002, which is hereby incorporated by reference in its entirety.

**[00397]** For example, presence of the HLA Class I subtype in the subject or biological sample of the subject can be determined by sequencing, e.g., next generation sequencing (NGS) of the HLA genes and analysis with a bioinformatic tool such as OptiType, standard sequence-specific oligonucleotide (SSO) and sequence-specific primer (SSP) technologies, or any other methods known in the art.

### Combination Therapies

**[00398]** In some embodiments, an ABP and/or cell provided herein is administered with at least one additional therapeutic agent. Any suitable additional therapeutic agent may be administered with an ABP and/or cell provided herein. In some embodiments, the additional therapeutic agent is an ABP.

### Diagnostic Methods

**[00399]** Also provided are methods for predicting and/or detecting the presence of a given HLA-PEPTIDE on a cell from a subject. Such methods may be used, for example, to predict and evaluate responsiveness to treatment with an ABP and/or cell provided herein.

**[00400]** In some embodiments, a blood or tumor sample is obtained from a subject and the fraction of cells expressing HLA-PEPTIDE is determined. In some aspects, the relative amount of HLA-PEPTIDE expressed by such cells is determined. The fraction of cells expressing HLA-PEPTIDE and the relative amount of HLA-PEPTIDE expressed by such cells can be determined by any suitable method. In some embodiments, flow cytometry is used to make such measurements. In some embodiments, fluorescence assisted cell sorting (FACS) is used to make such measurement. *See* Li et al., *J. Autoimmunity*, 2003, 21:83-92 for methods of evaluating expression of HLA-PEPTIDE in peripheral blood.

**[00401]** In some embodiments, detecting the presence of a given HLA-PEPTIDE on a cell from a subject is performed using immunoprecipitation and mass spectrometry. This can be performed by obtaining a tumor sample (e.g., a frozen tumor sample) such as a primary tumor specimen and applying immunoprecipitation to isolate one or more peptides. The HLA alleles

of the tumor sample can be determined experimentally or obtained from a third party source. The one or more peptides can be subjected to mass spectrometry (MS) to determine their sequence(s). The spectra from the MS can then be searched against a database. An example is provided in the Examples section below.

**[00402]** In some embodiments, predicting the presence of a given HLA-PEPTIDE on a cell from a subject is performed using a computer-based model applied to the peptide sequence and/or RNA measurements of one or more genes comprising that peptide sequence (e.g., RNA seq or RT-PCR, or nanostring) from a tumor sample. The model used can be as described in international patent application no. PCT/US2016/067159, herein incorporated by reference, in its entirety, for all purposes.

**Kits**

**[00403]** Also provided are kits comprising an ABP and/or cell provided herein. The kits may be used for the treatment, prevention, and/or diagnosis of a disease or disorder, as described herein.

**[00404]** In some embodiments, the kit comprises a container and a label or package insert on or associated with the container. Suitable containers include, for example, bottles, vials, syringes, and IV solution bags. The containers may be formed from a variety of materials, such as glass or plastic. The container holds a composition that is by itself, or when combined with another composition, effective for treating, preventing and/or diagnosing a disease or disorder. The container may have a sterile access port. For example, if the container is an intravenous solution bag or a vial, it may have a port that can be pierced by a needle. At least one active agent in the composition is an ABP provided herein. The label or package insert indicates that the composition is used for treating the selected condition.

**[00405]** In some embodiments, the kit comprises (a) a first container with a first composition contained therein, wherein the first composition comprises an ABP and/or cell provided herein; and (b) a second container with a second composition contained therein, wherein the second composition comprises a further therapeutic agent. The kit in this embodiment can further comprise a package insert indicating that the compositions can be used to treat a particular condition, e.g., cancer.

**[00406]** Alternatively, or additionally, the kit may further comprise a second (or third) container comprising a pharmaceutically-acceptable excipient. In some aspects, the excipient

is a buffer. The kit may further include other materials desirable from a commercial and user standpoint, including filters, needles, and syringes.

## EXAMPLES

**[00407]** Below are examples of specific embodiments for carrying out the present invention. The examples are offered for illustrative purposes only, and are not intended to limit the scope of the present invention in any way. Efforts have been made to ensure accuracy with respect to numbers used (e.g., amounts, temperatures, etc.), but some experimental error and deviation should, of course, be allowed for.

**[00408]** The practice of the present invention will employ, unless otherwise indicated, conventional methods of protein chemistry, biochemistry, recombinant DNA techniques and pharmacology, within the skill of the art. Such techniques are explained fully in the literature. See, e.g., T.E. Creighton, *Proteins: Structures and Molecular Properties* (W.H. Freeman and Company, 1993); A.L. Lehninger, *Biochemistry* (Worth Publishers, Inc., current addition); Sambrook, et al., *Molecular Cloning: A Laboratory Manual* (2nd Edition, 1989); *Methods In Enzymology* (S. Colowick and N. Kaplan eds., Academic Press, Inc.); *Remington's Pharmaceutical Sciences*, 18th Edition (Easton, Pennsylvania: Mack Publishing Company, 1990); Carey and Sundberg *Advanced Organic Chemistry 3rd Ed.* (Plenum Press) Vols A and B(1992).

### Example 1: Identification of Shared HLA-PEPTIDE neoantigens

**[00409]** We identified shared HLA-PEPTIDE neoantigens using a series of steps. We obtained a list of common driver mutations classified as "confirmed somatic" from the COSMIC database. For each mutation, we generated candidate neoepitopes (8 to 11-mer peptides), used a TPM of 100, and ran our EDGE prediction model (a model trained on HLA presented peptides sequenced by MS/MS, as described in US Pat No. 10,055,540, US Application Pub. No. US20200010849A1, international patent application publications WO/2018/195357 and WO/2018/208856, US App. No. 16/606,577, and international patent application PCT/US2020/021508, each herein incorporated by reference, in their entirety, for all purposes) across all modeled HLA alleles. Note that each peptide contained at least one mutant amino acid and was not a self-peptide. We then recorded any peptide with an HLA allele that has an EDGE score >0.001. The results are shown in Table A. A total of 10261

shared HLA-PEPTIDE neoantigen sequences were thus identified and are described in SEQ ID NO: 10,755-21,015. The corresponding HLA allele(s) for each sequence are shown.

**[00410]** The initial list provided in Table A was further analyzed for level of neoantigen/HLA prevalence in the patient population. "Antigen/HLA prevalence" or "is calculated as the frequency of a given mutation "(A)" in a given population multiplied by the frequency of an HLA allele "(B)" in the given population. Antigen/HLA prevalence can also refer to mutation/HLA prevalence or neoantigen/HLA prevalence. As part of this analysis, for each mutation, its (A) frequency was obtained across common tumor types in TCGA and recorded at its highest frequency amongst tumor types. (B) For each HLA allele in EDGE, the HLA allele frequency TCGA (a predominantly Caucasian population) was recorded. HLA allele frequencies are described in more detail in Shukla, S. A. *et al.* (*Nat. Biotechnol.* **33,** 1152–1158 2015), herein incorporated by reference for all purposes. The neoantigen/HLA prevalence was calculated as (A) multiplied by (B). Any restricted peptide/HLA pair in Table A that is >0.1% prevalence using this methodology is identified with a "Most Common 1" (2387/10261).

**[00411]** Additionally, we characterized the prevalence of cancer driver mutations across a large cohort of patient samples representative of the advanced cancer patient population relevant for potential clinical studies. EDGE prediction was performed using the publicly-released AACR Genie v4.1 dataset, which has over 40,000 patients sequenced on NGS cancer gene panels ranging from 50 to 500 genes, from major academic cancer centers including Dana-Farber, Johns Hopkins, MD Anderson, MSKCC, and Vanderbilt. We selected base substitution and indel mutations in lung, microsatellite stable colon, and pancreatic cancers, and required coverage across multiple gene panels. We analyzed each neoantigen peptide paired with each of greater than 90 Class I HLA alleles covered in our EDGE antigen presentation prediction model and recorded the epitopes and corresponding HLA alleles with an EDGE probability of HLA presentation score of >0.001. We then determined the neoantigen/HLA prevalence of those peptide with an EDGE score >0.001, calculated as A*B, where A is the highest frequency of the mutation amongst the three tumor types and B is the HLA allele frequency. We used HLA allele frequencies representative of the population in the USA by examining HLA alleles from the TCGA population and tabulating the frequency for each HLA allele (Shukla, S. A. *et al.*). Peptides and corresponding HLA alleles that

demonstrated a neoantigen/HLA prevalence >0.01% from the analysis are described in SEQ ID NO:21,016-29,357 and referred to as AACR GENIE Results.

**Example 2: Validation of Shared HLA-PEPTIDE Neoantigen Presentation**

**[00412]** Mass spectrometry (MS) validation of candidate shared HLA-PEPTIDE neoantigens was performed using targeted mass spectrometry methods. Nearly 500 frozen resected lung, colorectal and pancreatic tumor samples were homogenized and used for both RNASeq transcriptome sequencing and immunoprecipitation of the HLA/peptide complexes. A peptide target list was generated for each sample by analysis of the transcriptome, whereby recurrent cancer driver mutations, as defined in the AACR Genie v4.1 dataset, were identified and RNA expression levels assessed. The EDGE model of antigen presentation was then applied to the mutation sequence and expression data to prioritize peptides for the targeting list. The peptides from the HLA molecules were eluted and collected using size exclusion to isolate the presented peptides prior to mass spectrometry. Synthetic heavy labeled peptide with the same amino acid sequence was co-loaded with each sample for targeted mass spectrometry. Both coelution of the heavy labeled peptide with the experimental peptide and analysis of the fragmentation pattern we were used to validate a candidate epitope. Mass spectrometry analysis methods are described in more detail in Gillette *et al.* (*Nat Methods.* 2013 Jan;10(1):28-34), herein incorporated by reference in its entirety for all purposes. Shared HLA-PEPTIDE neoantigens from driver mutations validated in this manner with sufficient prevalence for further consideration are summarized in Table 5A below, along with sample tumor type and associated HLA alleles.

**Table 5A: Expression of MS-validated HLA-PEPTIDE neoantigens**

| Patient ID | Tumor Type | Presenting HLA* | Gene_Mutation | Peptide Elution Time (min.) | Targeted Peptide |
|---|---|---|---|---|---|
| A0002082 | CRC | HLA-A*03:01 | CTNNB1_S45P | 17.2 | TTAPPLSGK |
| A0001877 | Lung | HLA-A*02:01 | KRAS_G12C | 46.7 | KLVVVGACGV |
| A0002129 | Lung | HLA-A*02:01 | KRAS_G12C | 46.5 | KLVVVGACGV |
| A0001947 | CRC | HLA-A*11:01 | KRAS_G12D | 12 (pep. #1) | VVGADGVGK |
| A0001947 | CRC | HLA-A*11:01 | KRAS_G12D | 23.4 (pep. #2) | VVVGADGVGK |
| A0001474 | Gastric | HLA-A*11:01 | KRAS_G12V | 30.4 | VVVGAVGVGK |
| A0001730 | Pancreatic | HLA-A*11:01 | KRAS_G12V | 18.4 (pep. #1) | VVGAVGVGK |
| A0001730 | Pancreatic | HLA-A*11:01 | KRAS_G12V | 31.6 (pep. #2) | VVVGAVGVGK |
| A0001896 | Lung | HLA-C*01:02 | KRAS_G12V | 23.6 | AVGVGKSAL |
| A0001966 | CRC | HLA-A*03:01 | KRAS_G12V | 27.8 | VVVGAVGVGK |
| A0001973 | Ovarian | HLA-A*24:02 | TP53_K132N | 97.7 | TYSPALNNMF |
| A0001983 | Ovarian | HLA-A*02:01 | CTNNB1_S37Y | 50.9 | YLDSGIHYGA |
| A0000799 | CRC | HLA-B*08:01 | CHD4_K73fs | 43.3 | TVRAATIL |

* When the same peptide was predicted to be presented by multiple HLA alleles for a patient and detected by MS/MS, it was inferred to be presented by the highest scoring HLA allele by EDGE or both alleles if the scores were sufficiently close

**[00413]** Selected HLA-PEPTIDE neoantigens were also validated by *in vitro* assay. Briefly, cell lines were engineered to express a single specific HLA alleles and inducibly express a candidate shared neoantigen according to methods described below.

**[00414]** Materials and Methods for validation of selected HLA-PEPTIDE neoantigens by *in vitro* assay.

**[00415]** Single HLA allele expressing K562 cell lines were created by traditional transfection methods using reagent kits and the instructions provided.

**[00416]** To create virus particles for transduction of the HLA genes into K562 cells the plasmids were transfection into Phoenix-ampho cells. Phoenix-ampho cells were introduced into 6 well plates at a density of $5x10^5$ cells per well and incubated at 37C overnight prior to transfection. 10ug of purified DNA was mixed with 10uL Plus Reagent and brought to 100uL with pre-warmed Opti-MEM media. Lipofectamine reagent was prepared by mixing 8uL of Lipofectamine with 92uL of the pre-warmed Opti-MEM. Both mixtures were incubated at room temperature for 15 prior to mixing the 100uL of Lipofectamine reagent with the 100uL of DNA solution and allowing the combined solution to incubate at room temperature for

another 15min. The Phoenix-ampho cells were washed gently by aspirating the media and adding 6mL of pre-warmed Opti-MEM media to wash the cells. The media was removed from the plated cells. 800uL of the pre-warmed Opti-MEM was added to the DNA/Lipofectamine mixture to make 1mL and that solution was added to the plated cells. After the plate was incubated for 3hrs at 37C, 3mL of complete media was added and the cells were incubated overnight at 37C. The complete media was exchanged after the incubation and the cells incubated for another 2 days. Virus particles were collected after the supernatant was passed through a 45um filter into a new 6 well plate. 20uL of Plus reagent and 8uL of Lipofectamine was added to each well with a 15 min room temperature incubation after each addition.

**[00417]** K562 cells were suspended complete media at a concentration of $5x10^6$ per mL. 100uL of K562 cells were added to each well of the 6 well plate containing the virus particles. The plate was centrifuged at 700xg for 20 min and the cells were incubated for 6 hrs at 37C. Cells and virus were collected and transferred to T25 flasks with the addition of 7mL of complete media. The cells were incubated for 3 days prior to a media change which included selection with Puromyocin antibiotic. Live cells were collected and passaged to create stocks of K562 cells expressing a single HLA allele. Overall 25 of these cell lines were created, each with a different HLA expressed, to provide a reagent pool for future experiments.

**[00418]** A shared neoantigen cassette was created to express 20 shared neoantigens with the mutation centered in a 25mer amino acid chain and was created with no linkers between the entries. This cassette was subcloned into a lentiviral Tet-One Inducible Expression vector system (Clontech) and lentivirus was produced in 293T cells by cotransfecting the shared neoantigen expression vector with ViraPower (Thermo) packaging plasmids according to manufacturer's specifications. Single HLA Allele expressing K562 cell lines were then transduced with this virus as described above and single cell clones were characterized for shared neoantigen expression. Briefly, expression of the shared neoantigen cassette was placed under control of a doxycycline (DOX)-controlled TRE3G promoter, where administration of DOX leads to expression of the neoantigens via stabilization of the Tet-On 3G transactivator protein that is constitutively expressed on the same plasmid. The TREG3 promoter – Tet-On 3G transactivator system allows titration of DOX to control the level of

expression. As shown in FIG. 7, expression of a representative neoantigen increased as the concentration of DOX administered increased, demonstrating regulatable expression.

**[00419]** Cells containing both the single HLA allele and the shared neoantigen cassette were grown to ~$2.5x10^8$ cells and pelleted into 15mL vials. Additionally, cells were plated in limited dilution to prepare single clones of the HLA/Cassette pairing. These single clones were tested to achieve a variety of expression levels of the cassette. Use of cell lines with differing expression levels of the cassette allows for analysis of the system at close to endogenous expression levels. Single clones were also grown to ~$2.5x10^8$ cells and pelleted into 15mL vials. All pellets were washed 2x with cold PBS and frozen to allow for processing for mass spectrometry detection of HLA peptides. Expression levels of the HLA and the cassette was performed using SmartSeq or Taqman assays with appropriate probes.

**[00420]** For isolation of HLA peptides, each cell pellet was lysed with lysis buffer and centrifuged at 20,000 x g for 1 hr to clarify the lysate and the HLA peptide complexes were enriched. Heavy peptides -- peptides synthesized with amino acids containing isotopically heavy amino acids -- were added to the peptides prior to analysis by MS to aid in confirmation of the identity of the peptides detected.

**[00421]** As shown in FIG. 8, a representative KRAS G12V peptide VVGAVGVGK was observed by mass-spectrometry in a HLA-A*11:01 expressing K562 cell line, in a DOX-dependent manner (FIG. 8, top panels). Detection of the heavy peptide control standard was equivalent (FIG. 8, bottom panels). Thus, validation of HLA-specific presentation of predicted neoantigens was demonstrated using the single-HLA K562 *in vitro* system.

**[00422]** The *in vitro* system described above was used to validate HLA-specific presentation of predicted neoantigens.

**[00423]** Results are shown in Table 5B, below.

**Table 5B: Validated HLA-PEPTIDE neoantigens by *in vitro* assay**

| Gene | HLA Type | Peptide Detected | Peptide sequence |
|---|---|---|---|
| CTNNB1_S45P | A*11:01 | 9-mer | TTAPPLSGK |
| CTNNB1_T41A | A*11:01 | 9-mer | ATAPSLSGK |
| KRAS_G12D | A*11:01 | 10-mer | VVVGADGVGK |
| KRAS_G12V | A*03:01 | 9-mer | VVGAVGVGK |
| KRAS_G12V | A*03:01 | 10-mer | VVVGAVGVGK |
| KRAS_G12V | A*11:01 | 9-mer | VVGAVGVGK |
| KRAS_G12V | A*11:01 | 10-mer | VVVGAVGVGK |
| KRAS_Q61R | A*01:01 | 10-mer | ILDTAGREEY |
| TP53_R213L | A*02:01 | 9-mer | YLDDRNTFL |

**[00424]** We further evaluated the MS data with respect to mutations for which peptides were *not* detected in order to assess the value of narrowly targeting patients with specific HLAs for treatment, *e.g.*, requiring patients to have at least one validated or predicted HLA allele that presents a restricted peptide disclosed herein.

**[00425]** For example, in the case of KRAS, we counted the number of patient samples in which KRAS restricted peptides for particular HLA alleles were detected or not detected. (When the same peptide was predicted to be presented by multiple HLA alleles for a patient and detected by MS/MS, it was inferred to be presented by the highest scoring HLA allele by EDGE or both alleles if the scores were sufficiently close). Results are presented in Table 6. Based on these results, several common HLA alleles are not expected to present a given KRAS restricted peptide and these KRAS restricted peptide/HLA pairs can be excluded for purposes of selection criteria for immunotherapy design and patient selection in this instance. For example, Table 7 directed to selected HLA-PEPTIDE neoantigen targets for immunotherapy does not include predicted HLA-PEPTIDE neoantigen HLA-A*02:01_RAS G12D, on the basis that the restricted peptide was not detected in 17 samples tested, and likewise did not include G12V/A*02:01 on the basis that the peptide was not detected in 9 samples tested. In contrast, neoantigen/HLA pair G12D/A*11:01 was considered validated on the basis that the peptide was detected in 1/5 samples tested, and likewise G12V/A*11:01 was considered validated on the basis that the peptide was detected in 2/6 samples tested.

**[00426]** These results highlight the importance of identifying the relevant restricted peptide/HLA pairs for proper HLA type selection in patient selection for treatment with a shared neoantigen immunotherapy, such as that described in Table 7. Specifically, several common KRAS restricted peptide/HLA pairs were excluded for purposes of selection criteria in this case as the MS data suggested a shared HLA-PEPTIDE neoantigen ABP would unlikely provide a benefit to a patient with that predicted KRAS neoantigen/HLA pair (*e.g.*, G12D/A*02:01 or G12V/A*02:01).

**Table 6**

| Gene_mutation | HLA | HLA Peptide confirmation by MS/MS | Number of tested patient samples with MS/MS result |
|---|---|---|---|
| KRAS_G12A | HLA-A*02:01 | N | 2 |
| KRAS_G12A | HLA-A*02:06 | N | 1 |
| KRAS_G12A | HLA-A*03:01 | N | 3 |
| KRAS_G12A | HLA-B*27:05 | N | 1 |
| KRAS_G12A | HLA-B*35:01 | N | 1 |
| KRAS_G12A | HLA-B*41:02 | N | 1 |
| KRAS_G12A | HLA-B*48:01 | N | 1 |
| KRAS_G12A | HLA-C*08:03 | N | 1 |
| KRAS_G12C | HLA-A*02:01 | Y | 2 |
| KRAS_G12C | HLA-A*02:01 | N | 2 |
| KRAS_G12C | HLA-A*03:01 | N | 8 |
| KRAS_G12C | HLA-A*03:02 | N | 1 |
| KRAS_G12C | HLA-A*68:01 | N | 1 |
| KRAS_G12C | HLA-B*27:05 | N | 1 |
| KRAS_G12D | HLA-A*02:01 | N | 17 |
| KRAS_G12D | HLA-A*02:05 | N | 2 |
| KRAS_G12D | HLA-A*03:01 | N | 4 |
| KRAS_G12D | HLA-A*11:01 | Y | 1 |
| KRAS_G12D | HLA-A*11:01 | N | 4 |
| KRAS_G12D | HLA-A*26:01 | N | 2 |
| KRAS_G12D | HLA-A*31:01 | N | 4 |
| KRAS_G12D | HLA-A*68:01 | N | 3 |
| KRAS_G12D | HLA-B*07:02 | N | 4 |
| KRAS_G12D | HLA-B*08:01 | N | 1 |
| KRAS_G12D | HLA-B*13:02 | N | 1 |
| KRAS_G12D | HLA-B*15:01 | N | 5 |
| KRAS_G12D | HLA-B*27:05 | N | 2 |
| KRAS_G12D | HLA-B*35:01 | N | 2 |
| KRAS_G12D | HLA-B*37:01 | N | 1 |
| KRAS_G12D | HLA-B*38:01 | N | 2 |

| Gene_mutation | HLA | HLA Peptide confirmation by MS/MS | Number of tested patient samples with MS/MS result |
|---|---|---|---|
| KRAS_G12D | HLA-B*40:01 | N | 3 |
| KRAS_G12D | HLA-B*40:02 | N | 3 |
| KRAS_G12D | HLA-B*44:02 | N | 1 |
| KRAS_G12D | HLA-B*44:03 | N | 4 |
| KRAS_G12D | HLA-B*48:01 | N | 1 |
| KRAS_G12D | HLA-B*50:01 | N | 1 |
| KRAS_G12D | HLA-B*57:01 | N | 1 |
| KRAS_G12D | HLA-C*01:02 | N | 1 |
| KRAS_G12D | HLA-C*02:02 | N | 1 |
| KRAS_G12D | HLA-C*03:03 | N | 3 |
| KRAS_G12D | HLA-C*03:04 | N | 2 |
| KRAS_G12D | HLA-C*04:01 | N | 8 |
| KRAS_G12D | HLA-C*05:01 | N | 2 |
| KRAS_G12D | HLA-C*07:04 | N | 1 |
| KRAS_G12D | HLA-C*08:02 | N | 2 |
| KRAS_G12D | HLA-C*08:03 | N | 1 |
| KRAS_G12D | HLA-C*16:01 | N | 1 |
| KRAS_G12D | HLA-C*17:01 | N | 1 |
| KRAS_G12R | HLA-B*41:02 | N | 1 |
| KRAS_G12R | HLA-C*07:04 | N | 1 |
| KRAS_G12V | HLA-A*02:01 | N | 9 |
| KRAS_G12V | HLA-A*02:05 | N | 1 |
| KRAS_G12V | HLA-A*02:06 | N | 1 |
| KRAS_G12V | HLA-A*03:01 | Y | 1 |
| KRAS_G12V | HLA-A*03:01 | N | 4 |
| KRAS_G12V | HLA-A*11:01 | Y | 2 |
| KRAS_G12V | HLA-A*11:01 | N | 4 |
| KRAS_G12V | HLA-A*25:01 | N | 3 |
| KRAS_G12V | HLA-A*26:01 | N | 2 |
| KRAS_G12V | HLA-A*30:01 | N | 2 |
| KRAS_G12V | HLA-A*31:01 | N | 2 |
| KRAS_G12V | HLA-A*32:01 | N | 1 |
| KRAS_G12V | HLA-A*68:02 | N | 1 |
| KRAS_G12V | HLA-B*07:02 | N | 6 |
| KRAS_G12V | HLA-B*08:01 | N | 1 |
| KRAS_G12V | HLA-B*13:02 | N | 2 |
| KRAS_G12V | HLA-B*14:02 | N | 1 |
| KRAS_G12V | HLA-B*15:01 | N | 2 |
| KRAS_G12V | HLA-B*27:05 | N | 2 |
| KRAS_G12V | HLA-B*39:01 | N | 1 |
| KRAS_G12V | HLA-B*40:01 | N | 1 |
| KRAS_G12V | HLA-B*40:02 | N | 1 |

| Gene_mutation | HLA | HLA Peptide confirmation by MS/MS | Number of tested patient samples with MS/MS result |
|---|---|---|---|
| KRAS_G12V | HLA-B*41:02 | N | 1 |
| KRAS_G12V | HLA-B*44:05 | N | 1 |
| KRAS_G12V | HLA-B*50:01 | N | 1 |
| KRAS_G12V | HLA-B*51:01 | N | 1 |
| KRAS_G12V | HLA-C*01:02 | Y | 1 |
| KRAS_G12V | HLA-C*01:02 | N | 1 |
| KRAS_G12V | HLA-C*03:03 | N | 1 |
| KRAS_G12V | HLA-C*03:04 | N | 2 |
| KRAS_G12V | HLA-C*08:02 | N | 2 |
| KRAS_G12V | HLA-C*14:02 | N | 1 |
| KRAS_G12V | HLA-C*17:01 | N | 2 |
| KRAS_G13D | HLA-A*02:01 | N | 2 |
| KRAS_G13D | HLA-B*07:02 | N | 1 |
| KRAS_G13D | HLA-B*08:01 | N | 1 |
| KRAS_G13D | HLA-B*35:01 | N | 1 |
| KRAS_G13D | HLA-B*35:03 | N | 1 |
| KRAS_G13D | HLA-B*35:08 | N | 1 |
| KRAS_G13D | HLA-B*38:01 | N | 1 |
| KRAS_G13D | HLA-C*04:01 | N | 3 |
| KRAS_Q61H | HLA-A*01:01 | N | 1 |
| KRAS_Q61H | HLA-A*02:01 | N | 2 |
| KRAS_Q61H | HLA-A*23:01 | N | 2 |
| KRAS_Q61H | HLA-A*29:01 | N | 1 |
| KRAS_Q61H | HLA-A*30:02 | N | 1 |
| KRAS_Q61H | HLA-A*33:01 | N | 1 |
| KRAS_Q61H | HLA-A*68:01 | N | 1 |
| KRAS_Q61H | HLA-B*07:02 | N | 1 |
| KRAS_Q61H | HLA-B*08:01 | N | 1 |
| KRAS_Q61H | HLA-B*18:01 | N | 1 |
| KRAS_Q61H | HLA-B*35:01 | N | 1 |
| KRAS_Q61H | HLA-B*38:01 | N | 1 |
| KRAS_Q61H | HLA-B*40:01 | N | 1 |
| KRAS_Q61H | HLA-B*44:02 | N | 1 |
| KRAS_Q61H | HLA-C*03:04 | N | 1 |
| KRAS_Q61H | HLA-C*05:01 | N | 2 |
| KRAS_Q61H | HLA-C*08:02 | N | 1 |

**Example 3: Selection of Shared HLA-PEPTIDE neoantigens for immunotherapy**

**[00427]** A selection of clinically useful HLA-PEPTIDE neoantigen targets for immunotherapy ("GO-005") containing 20 shared HLA-PEPTIDE neoantigens was constructed. Table 7 describes features of the HLA-PEPTIDE neoantigens selected for the

selection. Shared HLA-PEPTIDE neoantigens directly detected on the surface of tumor cells by mass spectrometry, as described above in Table 5A, were included in the cassette and the HLA of the epitope was added to the eligible HLA list for the mutations. HLA-PEPTIDE neoantigens not independently verified as being presented in our assays were considered validated and added if there was compelling literature evidence of tumor presentation (*e.g.*, tumor-infiltrating lymphocytes (TIL) recognizing the neoantigen). KRAS G12D presented by HLA-C*08:02 was considered validated and added based on literature evidence of adoptive cell therapy targeting this HLA-PEPTIDE neoantigen causing tumor regression in a patient with CRC (Tran *et al. N Engl J Med.* 2016 Dec 8; 375(23): 2255–2262.). HLA-PEPTIDE neoantigens with validated HLA alleles occupied 6 out of 20 slots.

**[00428]** Additional, rarer HLA-PEPTIDE neoantigens predicted to be presented by tumor cells, but not yet validated by MS, were used to complement the initial set. Mutations with high EDGE scores were prioritized for inclusion as predicted HLA-PEPTIDE neoantigens given the strong dependence we observed between EDGE score and probability of detection of candidate shared HLA-PEPTIDE neoantigen peptides by targeted mass spectrometry (MS) validation experiments described herein. Results showing the correlation between EDGE score and the probability of detection of candidate shared HLA-PEPTIDE neoantigen peptides by targeted MS are shown in FIG. 4. Specifically, predicted HLA-PEPTIDE neoantigens with an EDGE HLA presentation score of at least 0.3 and the highest cumulative neoantigen/HLA prevalence across NSCLC, CRC and Pancreatic cancer were included in the selection. Combined HLA frequency was required to be at least 5 – 10% (*e.g.*, there are 11% of the American population harboring HLA alleles B1501 or B1503). Of note, KRAS and NRAS harbors the same sequence around codons 12, 13, and 61. Validated HLAs, predicted HLAs with an EDGE score of at least 0.3, the mean EDGE score of the predicted HLAs, and neoantigen/HLA prevalence in the three cancer populations are also presented in Table 7.

**[00429]** Table 7 (below) depicts 20 exemplary shared HLA-PEPTIDE neoantigens comprising a cancer-related mutation and a particular HLA Class I allele, based on EDGE Score and prevalence in cancer patient populations. The exemplary shared HLA-PEPTIDE neoantigens are particularly useful targets for cancer immunotherapy, e.g., by treatment with an ABP that selectively binds the HLA-PEPTIDE neoantigen.

**Table 7: Selected Shared HLA-PEPTIDE neoantigens**

| Slot | Mutation | Validated HLA | Predicted HLA | Neo-Ag/ HLA Prevalence in Lung | Neo-Ag/ HLA Prevalence in CRC | Neo-Ag/ HLA Prevalence in Pancreas |
|---|---|---|---|---|---|---|
| **1** | KRAS_G13D | A1101 | C0802 | 0.07% | 0.39% | 0.06% |
| **2** | KRAS_Q61K NRAS_Q61K | A0101 | – | 0.05% | 0.37% | 0.00% |
| **3** | TP53_R249M | – | B3512, B3503, B3501 | 0.04% | 0.00% | 0.00% |
| **4** | CTNNB1_S45P | A0301, A1101 | A6801, A0302, | 0.13% | 0.00% | 0.00% |
| **5** | CTNNB1_S45F | A1101 | A0301, A6801 | 0.08% | 0.27% | 0.00% |
| **6** | ERBB2_ Y772_A775dup | – | B1801 | 0.11% | 0.00% | 0.00% |
| **7** | KRAS_G12D NRAS_G12D | A1101, A0301, C0802 | – | 0.79% | 2.28% | 5.45% |
| **8** | KRAS_Q61R NRAS_Q61R | A0101 | – | 0.06% | 0.33% | 0.47% |
| **9** | CTNNB1_T41A | A1101 | A0301, A0302, B1510, C0303, C0304 | 0.00% | 0.27% | 0.00% |
| **10** | TP53_K132N | A2402 | A2301 | 0.04% | 0.00% | 0.00% |
| **11** | KRAS_G12A | A0301, A1101 | – | 0.58% | 0.49% | 0.00% |
| **12** | KRAS_Q61L NRAS_Q61L | – | A0101 | 0.22% | 0.08% | 0.00% |
| **13** | TP53_R213L | A0201 | A0207, C0802 | 0.09% | 0.18% | 0.00% |
| **14** | BRAF_G466V | – | B1501, B1503 | 0.03% | 0.05% | 0.00% |
| **15** | KRAS_G12V | A0301, A1101, C0102 | A0302 | 2.56% | 3.43% | 9.89% |

| Slot | Mutation | Validated HLA | Predicted HLA | Neo-Ag/ HLA Prevalence in Lung | Neo-Ag/ HLA Prevalence in CRC | Neo-Ag/ HLA Prevalence in Pancreas |
|---|---|---|---|---|---|---|
| **16** | KRAS_Q61H<br>NRAS_Q61H | A0101 | – | 0.42% | 0.28% | 0.91% |
| **17** | CTNNB1_S37F | A0101 | A2301, A2402 B1510, B3906 C0501, C1402 C1403 | 0.29% | 0.00% | 0.00% |
| **18** | TP53_S127Y | – | A1101, A0301 | 0.04% | 0.00% | 0.00% |
| **19** | TP53_K132E | – | A2402, C1403, A2301 | 0.00% | 0.05% | 0.00% |
| **20** | KRAS_G12C<br>NRAS_G12C | A0201, A0301, A1101 | – | 5.00% | 1.46% | 0.63% |

**[00430]** Additionally, we determined the total population of patients with at least one HLA allele identified (*i.e.*, either validated or predicted) to present at least one shared neoantigen from Table 7 (*i.e.*, the HLA-PEPTIDE neoantigen comprising both the mutation and the HLA allele, referred to herein as GO-005 targeted patient population) and compared it to the population of patients with the mutations (agnostic of whether the patient had the identified allele). To estimate the GO-005 targeted patient population, we collected patient mutation data from AACR Genie. As such patients do not have matching HLA alleles, we sampled HLA alleles from the TCGA population and paired it to the AACR Genie dataset. Then given a tumor type, any patient from AACR Genie with matching both mutation and HLA was labeled positive, and any patient that doesn't meet the criteria was labeled negative. The percent positives give the overall addressable patient population, per tumor type, in Table 8.

**[00431]** It can be readily appreciated from Table 8 that only a subset of patients who carry a particular mutation also carry the HLA allele likely to present that mutation as a HLA-PEPTIDE neoantigen. Patients with the mutation, but without the appropriate HLA allele are less likely to benefit from therapy. As an example, whereas an estimated ~60% of pancreatic cancer patients carry appropriate mutations/neoantigens, more than 2 out of 3 of these patients do not carry the corresponding HLA allele(s). Therefore, an ABP-based immunotherapy strategy that considers the relevant mutation and HLA allele pairs as proposed will target primarily those patients who may benefit. Thus, consideration of epitope presentation by validated or high-scoring predicted HLA is an important step in determining the potential efficacy of a shared HLA-PEPTIDE neoantigen ABP.

**Table 8: Neoantigen/HLA Prevalence in Target Populations**

| | MSS CRC | Pancreas | Lung |
|---|---|---|---|
| **GO-005 Targeted Patient Population (cumulative neoantigen/HLA prevalence)** | 9.0% | 17.4% | 10.6% |
| **HLA agnostic patient population (mutation frequency only)** | 35.1% | 60.8% | 32.0% |

### Example 4: Evaluation of immune response induction by shared HLA-PEPTIDE neoantigens

**[00432]** We evaluated whether HLA-PEPTIDE neoantigens induce an immune response in patients. We obtained dissociated tumor cells from a patient with lung adenocarcinoma. Tumor cells were sequenced to determine the patient's HLA and identify mutations. The

patient expressed HLA-A*11:01 and we identified the KRAS G12V mutation in the tumor. Simultaneously, we sorted and expanded CD45+ cells from the tumor which represent tumor infiltrating lymphocytes (TIL). Expanded TILs were stained with mutated peptide HLA-A*11:01 tetramers to assess immunogenicity of this mutation in the patient. FIG. 5 shows the flow cytometry gating strategy on CD8+ cells (FIG. 5A) and the staining of CD8+ cells by KRAS-G12V/ HLA-A*11:01 tetramer (FIG. 5B). A large portion (greater than 66%) of CD8+ T cells demonstrate binding to the KRAS G12V:HLA*1101 tetramer, indicating the ability of CD8+ T cells to recognize the HLA-PEPTIDE neoantigen and indicating a pre-existing immune response to the HLA-PEPTIDE neoantigen.

**[00433]** In addition, CD8+ cells in the expanded TILs were labeled with the KRAS-G12V/ HLA-A*11:01 tetramer and sorted. The TCRs were sequenced using 10x Genomics single cell resolution paired immune TCR profiling approach (Chromium Single Cell A Chip Kit, Chromium Single Cell 5' Library & Gel Bead Kit, Chromium Single Cell 5' Library Construction kit, Chromium Single Cell 5' Feature Barcode Library Kit [10x Genomics]). Sequencing reads were processed through the 10x provided software Cell Ranger. Sequencing reads were tagged with a Chromium cellular barcodes and UMIs, which are used to assemble the V(D)J transcripts cell by cell. The assembled contigs for each cell were then annotated by mapping the assembled contigs to the Ensemble v87 V(D)J reference sequences. Clonotypes were defined as alpha, beta chain pairs containing unique CDR3 sequences. Clonotypes were filtered for single alpha and single beta chain pairs present at frequency above 2 cells to yield the final list of clonotypes per target peptide in a specific donor. As shown in Table 1B and 1D, multiple TCR sequences were identified for KRAS-G12V/ HLA-A*11:01, including to different G12V epitopes. The results demonstrate that neoantigen-specific TCRs can be identified from subject samples, such as TILs.

### Example 5: Selection of Shared HLA-PEPTIDE neoantigens and Patient Populations for HLA-PEPTIDE neoantigen-specific immunotherapy

**[00434]** An ABP (*e.g.* a TCR), or a cell engineered to express an ABP (*e.g.*, a T cell, such as a autologous T cell, engineered to express an antigen/neoantigen specific TCR), to a HLA-PEPTIDE neoantigen as described in Table 7, Table A, the AACR GENIE Results, or SEQ ID NOs 29358-29364 described herein (SEQ ID NOs: 10,755-29,364) is administered to a cancer patient. The ABP is administered to a patient, e.g., to treat cancer. In certain instances the patient is selected, *e.g.*, using a companion diagnostic or a commonly use cancer gene

panel NGS assay such as FoundationOne, FoundationOne CDx, Guardant 360, Guardant OMNI, or MSK IMPACT. Exemplary patient selection criteria are described below.

Patient Selection

**[00435]** Patient selection for ABP administration is performed by consideration of tumor gene expression, somatic mutation status, and patient HLA type. Specifically, a patient is considered eligible for the ABP-based immunotherapy therapy if the patient has cancer, and if:

(a) one or more cells of the patient expresses or is known to express an HLA Class I molecule as described in any one of SEQ ID NOs:10,755 to 29,364. In such cases, the patient may be administered an ABP that targets a HLA-PEPTIDE neoantigen described herein, such that the HLA-PEPTIDE neoantigen comprises the same HLA Class I molecule expressed by the one or more cells of the patient. By way of example only, a patient is considered eligible for ABP-based immunotherapy by administration of an ABP that selectively binds to RAS G12D neoantigen HLA-A*11:01_VVVGADGVGK ("SNA30") if one or more cells of the patient expresses or is known to express HLA-A*11:01.

(b) one or more cells of the patient expresses or is known to express an HLA Class I molecule as described in any one of SEQ ID NOs:10,755 to 29,364, and the cancer expresses or is predicted to express a gene associated with a somatic mutation. By way of example only, a patient is considered eligible for ABP-based immunotherapy by administration of an ABP that selectively binds to RAS G12D neoantigen HLA-A*11:01_VVVGADGVGK ("SNA30") if one or more cells of the patient expresses or is known to express HLA-A*11:01 and the cancer expresses or is predicted to express KRAS.

(c) one or more cells of the patient expresses or is known to express an HLA Class I molecule as described in any one of SEQ ID NOs:10,755 to 29,364, and the patient tumor or tumor nucleic acid carries the somatic mutation associated with the SEQ ID NO. By way of example only, a patient is considered eligible for ABP-based immunotherapy by administration of an ABP that selectively binds to RAS G12D neoantigen HLA-A*11:01_VVVGADGVGK ("SNA30") if one or more cells of the patient expresses or is known to express HLA-A*11:01 and a tumor sample from the patient harbors the RAS G12D somatic mutation.

(d) Same as (b) or (c), but also requiring that the patient tumor expresses the gene with the mutation above a certain threshold (e.g., 1 TPM or 10 TPM), or

(e) Same as (b) or (c), but also requiring that the patient tumor expresses the mutation above a certain threshold (e.g., at least 1 mutated read observed at the level of RNA)

(f) Same as (b) or (c), but also requiring both additional criteria in (c) and (d)

(g) Any of the above, but also optionally requiring that loss of the presenting HLA allele is not detected in the tumor

**[00436]** Gene expression may be measured at the RNA or protein level by methods including, but not limited to RNASeq, microarray, PCR, Nanostring, ISH, Mass spectrometry, or IHC. Thresholds for positivity of gene expression is established by several methods, including: (1) predicted probability of presentation of the epitope by the HLA allele at various gene expression levels, (2) correlation of gene expression and HLA epitope presentation as measured by mass spectrometry, and/or (3) clinical benefits of ABP-based immunotherapy attained for patients expressing the genes at various levels.

**[00437]** Somatic mutational status may be assessed by any of the established methods, including exome sequencing (NGS DNASeq), targeted exome sequencing (panel of genes), transcriptome sequencing (RNASeq), Sanger sequencing, PCR-based genotyping assays (e.g., Taqman or droplet digital PCR), Mass-spectrometry based methods (e.g., by Sequenom), next generation sequencing, massively parallel sequencing, or any other method known to those skilled in the art.

**Example 6: Identification of TCRs that bind HLA-PEPTIDE target neoantigens**

**Methods**

**[00438]** Peripheral blood mononuclear cells (PBMCs) were obtained by processing leukapheresis samples from healthy donors. Frozen PBMCs were thawed and enriched for different subsets of T cells through negative depletion using the following magnetic-activated cell sorting (MACS) systems (Miltenyi Biotech), as indicated below: (i) Pan T Cell Isolation Kit to enrich for naïve and memory CD4 and CD8 T cells; or a (ii) Naïve CD8 T Cell Isolation Kit & CD4 depletion kit to enrich for naïve CD8 T cells. Enriched T cells were labeled either with a single neoantigen-MHC tetramer or a pool of neoantigen-MHC tetramers of interest, as indicated below, as well as stained with live/dead and lineage markers and sorted by FACS. In addition, in some experiments the enriched T cells were labeled with a peptide-MHC tetramer containing the wildtype peptide corresponding to the

neoantigen(s) of interest. Sorted T cells were polyclonally expanded with feeder cells and IL-2 for 2-3 weeks.

**[00439]** Following polyclonal expansion, the resulting cells were either:

a. labeled again with a target peptide-MHC tetramer and resorted (bulk resort) for peptide-MHC tetramer labeled cells

b. stimulated with neoantigen (10 μM) loaded PBMCs (or a DMSO control) and resorted (bulk resort) for CD137 upregulation after a day of stimulation

**[00440]** Cells isolated after resort were sequenced using 10x Genomics single cell resolution paired immune TCR profiling approach (Chromium Single Cell A Chip Kit, Chromium Single Cell 5' Library & Gel Bead Kit, Chromium Single Cell 5' Library Construction kit, Chromium Single Cell 5' Feature Barcode Library Kit [10x Genomics]). Sequencing reads were processed through the 10x provided software Cell Ranger. Sequencing reads were tagged with a Chromium cellular barcodes and UMIs, which are used to assemble the V(D)J transcripts cell by cell. The assembled contigs for each cell were then annotated by mapping the assembled contigs to the Ensemble v87 V(D)J reference sequences. Clonotypes were defined as alpha, beta chain pairs containing unique CDR3 sequences. Clonotypes were filtered for single alpha and single beta chain pairs present at frequency above 2 cells to yield the final list of clonotypes per target peptide in a specific donor.

**Results**

**[00441]** Isolation of neoantigen specific T cells from healthy donors (*i.e.*, donors generally considered in good health with no history of tumor) was assessed. A Pan T Cell Isolation Kit was used to enrich for naïve and memory CD4 and CD8 T cells. As shown in Fig. 2, enriched naïve and memory T cells were effectively labeled using a pool of 6 neoantigen-MHC tetramers to identify neoantigen specific T cells (Fig. 2, left panel, X-axis). The neoantigen-MHC tetramer pool contained A*01:01/KRAS Q61H/K/L/R, A*02:01/KRAS G12C, and A*02:01/TP53 R213L. The labeling also demonstrated effective separation of neoantigen specific T cells from T cells specific for the corresponding wildtype peptide (wildtype specific T cells Fig. 2 left panel, Y-axis), where the wildtype peptide-MHC tetramers were A*01:01/KRAS Q61, A*02:01/KRAS G12; and A*02:01/TP53 R213. Gating on neoantigen-MHC tetramer$^{hi}$ ("SNA/HLA$^{hi}$") cells also demonstrated that about two-thirds of the neoantigen specific T cells from healthy donors were naïve, while a third demonstrated a

memory T cell phenotype (64.2% $CD45RO^-$ versus 32.4% $CD45RO^+$; Fig. 2 right panel), indicating that memory T cells (CD45RA- CD45RO+) can be a source of neoantigen-specific TCRs even from a healthy donor who has no history of KRAS or TP53 mutation.

**[00442]** Two weeks after the initial round of pooled sorting/isolation and T cell expansion, cells were divided and individually labeled with each of the 6 neoantigen-MHC tetramers. As shown in Fig. 3A, the expanded cells demonstrated the presence of at least 5 out of the 6 neoantigen specific T cells (A*01:01/KRAS Q61K/L/R/H and A*02:01/TP53 R213L), although the neoantigen specific T cells represented a generally small portion of the total CD8 population (2% or less). To increase frequency of the neoantigen-specific T cells, sorted/isolated peptide-MHC positive cells were expanded an additional week. As shown in Fig. 3B, the expanded cells demonstrated the presence of neoantigen specific T cells (A*01:01/KRAS Q61L/R/H and A*02:01/TP53 R213L), with the neoantigen specific T cells representing between about 5-24% of the total CD8 population. The labeled cell populations were resorted and subsequently processed to for TCR sequencing at single cell level, as described above.

**[00443]** In addition, isolation of neoantigen specific T cells from a naïve population of T cells isolated from healthy donors was also assessed using labeling with a single neoantigen-MHC tetramer. A Naïve CD8 T Cell Isolation Kit & CD4 depletion kit were used to enrich for naïve CD8 T cells. The neoantigen-MHC tetramers used were A*11:01/KRAS G12V, A*03:01/KRAS G12V-9mer; and A*03:01/KRAS G12V-10mer. As shown in Fig. 6, two weeks after the initial round of sorting/isolation and T cell expansion using a single neoantigen-MHC tetramer, relabeling of the expanded cells demonstrated a large population (30-55% of the total CD8 T cell population) of neoantigen specific T cells.

**[00444]** The results of the sorting/isolation experiments demonstrate that while a pooled sorting/isolation method using a mixture of neoantigen-MHC tetramers can be used to isolate neoantigen specific T cells, sorting/isolation using a single neoantigen-MHC tetramer can result in a higher frequency of neoantigen specific T cells.

**[00445]** Next, the TCR sequencing was assessed for the various cell populations isolated as described above. Cells identified using the CTNNB1_S45P tetramer HLA-A*03:01/TTAPPLSGK were also processed. The neoantigen-tetramer labeled expanded cell populations were resorted and subsequently processed for TCR sequencing at single cell level, as described above. As shown in Tables 1A.1-1A.3 and Tables 1C.1-1C.3, multiple

TCR sequences were identified for HLA-A*02:01/KLVVVGACGV, HLA-A*03:01/TTAPPLSGK, HLA-A*03:01/VVGAVGVGK, HLA-A*03:01/VVVGAVGVGK, and HLA-A*11:01/VVGAVGVGK. The results demonstrate that neoantigen-specific TCRs can be identified in a naïve population of T cells from healthy donor cells, including to TCRs specific for different epitopes and/or different HLAs.

**[00446]** In addition to neoantigen-tetramer labeling of T cells for resorting, cells were resorted based on functional signaling to a cognate peptide. Expanded naïve CD8 T cells that were originally enriched using the single neoantigen-MHC tetramers A*11:01/KRAS G12V were stimulated using PBMCs loaded with the VVGAVGVGK peptide or with DMSO (non-specific signaling control). Functional signaling was determined using CD137 upregulation as a marker. As shown in Fig. 9, after a day of stimulation, cells were gated on CD137+ for neoantigen (Fig. 9 left panel) and DMSO (Fig. 9 right panel) stimulated cells and resorted then sequenced for TCRs, as described above. The TCR sequences determined for (i) neoantigen-tetramer labeled cells; (ii) CD137+ neoantigen-stimulated cells; and (iii) CD137+ DMSO-stimulated cells were compared *in silico* for shared TCR sequences. A summary of the results is presented in Fig. 10. Specific tetramer binding determined TCR sequences for 94 clonotypes, and of those, 6 TCR sequences were shared with those cells that demonstrated peptide-specific functional signaling. The results demonstrate that functional neoantigen-specific TCRs were identified.

### Example 7: Additional identification of TCRs that bind HLA-PEPTIDE target neoantigens

**[00447]** Antigen-specific TCRs are identified using the methods described herein, including identification of neoantigen-specific TCRs. For example, TCRs specific for any of SEQ ID NOs:10,755 to 29,364 bound to their cognate HLA allele. The general workflow for identifying antigen-specific TCRs is below:

1) T cells are isolated from HLA-matched healthy donor using magnetic-activated cell sorting (MACS) using: (i) Pan T Cell Isolation Kit to enrich for naïve and memory CD4 and CD8 T cells; (ii) Naïve Pan T Cell Isolation Kit to enrich for naïve T cells; (iii) Naïve CD8 T Cell Isolation Kit & CD4 depletion kit to enrich for naïve CD8 T cells; or (iv) CD8 T Cell Isolation Kit & CD4 depletion kit to enrich for naïve and memory CD8 T cells

a) Alternatively, the source of antigen-specific T cells, may include:

i) healthy donor's memory T cells

ii) single positive CD4 T cells as well as CD4/CD8 double positive T cells

iii) patient-derived, tumor infiltrating lymphocytes (TILs) processed from commercial dissociated tumor cells (DTCs)

iv) patient-derived PBMC, such as patients vaccinated with an antigen/neoantigen of interest

v) T cells are not limited to those harboring conventional αβ heterodimeric TCRs, but can include those with rare TCR configurations such as homodimers (e.g., ββ), heterodimers (e.g., γδ), trimers (ααβ), and other combinations of TCR chains

2) peptide-MHC multimers are generated either by using prefolded monomers or commercially available monomers (e.g., Flex-T monomers - BioLegend)

3) Peptide-MHC multimers binding T cells are sorted using fluorescence-activated cell sorting (FACS) method.

4) Sorted T cells are polyclonally expanded with feeder cells and interleukins (IL2 and/or combination of IL7/IL15) for 2-3 weeks. Expansion may also be done in an antigen-specific manner using primary (whole PBMC, DCs, B cells, monocytes) and/or artificial antigen presenting cells (K562, T2, etc.).

5) Post expansion, the resulting cells are exposed to cognate peptide-MHC multimers, and multimer binding cells are sorted (also called re-sort).

6) Re-sorted T cells are sequenced at single cell level (*e.g.*, using 10x Genomics systems, as described above) to obtain TCR sequences containing αβ heterodimeric TCRs or rare TCR configurations such as homodimers (e.g., ββ), heterodimers (e.g., γδ), trimers (ααβ), and other combinations of TCR chains.

a) Expanded T cells may also be divided into 2 or more populations *e.g.*, populations of the cells are:

i) sequenced at single cell level to obtain TCR sequences.

ii) stimulated with physiological concentration of peptide and autologous APCs (PBMCs, B cells, monocytes, DCs). Captured functionally responding cells, e.g. those that secrete cytokines as an example but not limited to IFNg, TNF alpha or IL-2 are sequenced at single cell level to obtain TCR sequences and profile upregulation of activation marker mRNA transcripts.

iii) alternatively, or in addition to cytokines, expression of activation markers (e.g. CD137, CD69 or others) could be used as a sign of stimulated T cell

functional response. Selected functional cells are sequenced at single cell level (*e.g.*, using 10x Genomics systems, as described above) to obtain TCR sequences and profile upregulation of activation marker mRNA transcripts

b) Identified TCR sequences undergo quality control steps to identify high-quality and/or specific candidates, with criteria including some or all of the criteria below:

i) excluding sequences with multiple and/or missing TRA or TRB chains;

ii) excluding sequences with internal stop codons;

iii) excluding sequences with TRA or TRB chains less than 90 amino acids in length;

iv) excluding double counting sequences associated with biological and/or technical replicates (*i.e.*, only include sequence once)

v) annotating sequences with a CDR3 of a known epitope (*e.g.*, known CDR3s found in a CDR3 database, such as VDJdb);

vi) excluding sequences associated with a bystander TCR (*e.g.*, TCRs associated with T cells that are non-specific, such as activated by DMSO pulsed APCs).

**Example 8: Screening and validation of TCRs that bind HLA-PEPTIDE target neoantigens**

**Methods**

**[00448]** Candidate TCR sequences for screening were identified from healthy donors, as described above. Briefly, TCR clonotypes existing in a multimer-binding population and/or in an activated T cell population meeting the criteria for screening were selected. Criteria include excluding from the candidate library: sequences with multiple and/or missing TRA or TRB chains; sequences with internal stop codons; sequences with TRA or TRB chains less than 90 amino acids in length; sequences associated with a bystander TCR. Additionally, sequences with a CDR3 annotated to be associated a known epitope were not screened.

**[00449]** **Lentiviral transduction:** For screening assays, a CD8+ Jurkat KO (endogenous TCR knock-out) cell line was transduced with lentivirus to express antigen-specific TCRs. The HIV-derived lentivirus transfer vector was obtained from SBI Biosciences and modified to remove the EF1α promoter and introduce an MSCV promoter followed by a multiple cloning site (MCS) and the TCR constant alpha sequence. Lentivirus support plasmids expressing VSV-G (pCMV-VsvG), Rev (pRSV-Rev) and Gag-pol (pCgpV) were used to

produce virus (ViraPower Lentiviral Packaging Mix; ThermoFisher). Lentivirus was prepared by transfection of 80% confluent 10cm$^2$ plates of HEK293 cells with Lipofectamine 2000 (Thermo Fisher), using 36 µl of lipofectamine and 3 µg of the TCR containing plasmid (confirmed by Sanger sequencing) and 9 µg of ViraPower Lentiviral Packaging mix. 10 mL of the virus-containing media were harvested after 48 hours, filtered and concentrated using the Lenti-X system (Clontech), and the virus was resuspended in 100-200 µl of fresh medium. Following viral titering using qPCR, concentrated viral supernatant was added to Jurkat cells. Cells were spun at 1500 x g for 45 minutes with 8 µg/mL polybrene at a density of 8 x $10^5$ cells/mL. Following spinfection, media was added to bring the cell density to 4 x $10^5$ cells/mL with a final concentration of 4 µg/mL polybrene. Cells were incubated overnight, and the media was completely refreshed after 16 hours. After 72 hours, TCR expression was assessed and, if needed, cells were sorted to obtain high TCR-expression populations. For validation assays, primary T cells from healthy donors were transduced with lentivirus to express antigen-specific TCRs.

**[00450]** **Signaling assays:** antigen presenting cells K562 cells, constitutively expressing HLA-A*02:01 or HLA-A*11:01, as indicated, were loaded with the indicated mutant or wildtype peptide at 10µM, or the indicated concentration for antigen titration experiments, for 1 hour. Transduced Jurkat cells or primary T cells were co-cultured overnight (~20hours) with the peptide-loaded APCs at a 1:1 ratio of 75,000 TCR-expressing Jurkat cells to 75,000 APCs or a 1:4 ratio of 50,000 primary T cells to 200,000 APCs per well in 96-well plates. After co-culture, the T cell activation markers CD25, CD69, CD137 were measured using flow cytometry (antibodies from BioLegend) and IL-2 cytokine production assessed by MSD (Meso Scale Diagnostics V-PLEX Human IL-2 Kit). For proliferation assays, transduced primary T cells were labeled with CellTrace Violet dye (ThermoFisher) prior to incubation with peptide-loaded APCs. After co-culture, dilution of the CellTrace Violet dye was assessed using flow cytometry to determine proliferation.

**Results**

**[00451]** Candidate TCR sequences were identified from healthy donors and selected for screening. Candidates for screening included those sequences shown in Table 1A.2 and Table 1A.3.

**[00452]** For screening, CD8+ Jurkat KO (endogenous TCR knock-out) cells were transduced with the candidate TCR sequences. Signaling assays using a candidate TCR's

cognate neoantigen peptide or corresponding wildtype peptide were performed to assess specificity and functionality. In addition, signaling was assessed for TCRs that do not recognize a cognate peptide ("negative TCRs") and MART-1/Melan-A specific TCR DMF5 (MART-1/DMF5 TCR described in detail in Johnson et al. "Gene Transfer of Tumor-Reactive TCR Confers Both High Avidity and Tumor Reactivity to Nonreactive Peripheral Blood Mononuclear Cells and Tumor-Infiltrating Lymphocytes" J Immunol 2006 Nov 1;177(9):6548-59, herein incorporated by reference for all purposes). As shown in Table 9, activation markers and cytokine production were noticeably increased when stimulated with cognate RAS G12C and G12V neoantigens in comparison to stimulation with corresponding wildtype peptides. Notably, signaling for several candidate TCRs were comparable to the well-established MART-1/DMF5 control (fold change peptide vs DMSO vehicle only) and demonstrably better than negative TCR signaling. Accordingly, the data demonstrate that functional and specific TCR candidates were identified through screening TCR sequences isolated from healthy donors.

**[00453]** Following initial screening in Jurkat cells, TCR candidates that demonstrated functional and specific signaling were further validated in primary T cells. As shown in Table 9, activation markers in primary T cells were noticeably increased when stimulated with cognate RAS G12C and G12V neoantigens in comparison to stimulation with corresponding wildtype peptides. Notably, signaling for candidate TCRs assayed were demonstrably better than negative TCR signaling. Representative flow cytometry assessments are shown in Fig. 11A (clone 01CA019_064_F05_0005) and Fig. 11B (01CA019_064_F05_0047). Proliferation in primary T cells was also assessed for two of the TCR candidates. As shown in Fig. 12, clones 01CA019_064_F05_0047 and 01CA019_064_F05_0005 demonstrated proliferation in response to neoantigen stimulation relative to stimulation without antigen.

**Table 9 – Screening and Validation Signaling Assay Summary for TCR Candidates**

| TCR ID | CD25 Fold Change | CD69 Fold Change | IL2 Fold Change | Primary T Cell (CD25/69/137) |
|---|---|---|---|---|
| **HLA-A*0201 MART-1 TCRs (Control)** | | | | |
| DMF5 | 235x | 45x | 33x | |
| **HLA-A*0201/KLVVVGACGV G12C TCRs** | | | | |
| 01CA019_064_F05_0005 "TCR66" | 168x | 27x | 30x | 5x, 8x, 3x |
| 01CA019_064_F05_0047 "TCR61" | 25x | 17x | 11x | 4x, 10x, 3x |
| 01CA019_064_F05_0104 "TCR10" | 15x | 38x | 5x | |
| **HLA-A*1101/VVGAVGVGK G12V TCRs** | | | | |
| 01CA018_064_F10_0022 "TCR27" | 161x | 51x | 26x | 4.5x, 6x, 3x |
| 01CA018_064_F10_0001 "TCR56" | 107x | 31x | 65x | 2.5x, 4.5x, 3x |
| **Negative TCRs (Control)** | | | | |
| Negative TCR | 0.7x | 1.2x | 0.2x | 1x, 1x, 1.2x |

* Fold-change is calculated a difference in signal of cognate neoantigen peptide relative to corresponding wildtype peptide

## SEQUENCE TABLES

### Table A

**[00454]** Refer to Sequence Listing, SEQ ID NOS. 10,755-21,015.

**[00455]** Table A includes HLA-PEPTIDE neoantigens, wherein a specific restricted peptide having a specific amino acid sequence is predicted to associate with a given HLA allele with an EDGE score >0.001. The restricted peptide corresponds to a peptide fragment containing a somatic mutation associated with a cancer.

**[00456]** For clarity, each HLA-PEPTIDE neoantigen in Table A is assigned a unique SEQ ID NO. Each of the above sequence identifiers is associated with the Table identifier (i.e., Table A), the HLA Class I subtype, the gene name corresponding to the restricted peptide, the somatic mutation, whether the prevalence of the peptide:HLA pair was 0.1% or greater (noted as "1") or less than 0.1% (noted as "0"), and the amino acid sequence of the restricted peptide. For example, the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 10755 is a CREB3L1 V414I neoantigen that is HLA-PEPTIDE target HLA-A*02:06_AADGIYTA. As indicated by SEQ ID NO: 10755, the restricted peptide AADGIYTA contains the V414I mutation in the protein encoded by gene CREB3L1, and the HLA-PEPTIDE target has a prevalence less than 0.1%.

**[00457]** Table A HLA-PEPTIDE neoantigens are disclosed in PCT/US2019/033830, filed on May 23, 2019, which application is hereby incorporated by reference in its entirety.

### AACR GENIE Results

**[00458]** Refer to Sequence Listing, SEQ ID NOS. 21,016-29,357.

**[00459]** AACR GENIE results includes HLA-PEPTIDE neoantigens wherein a specific restricted peptide having a specific amino acid sequence is predicted to associate with a given HLA allele with an EDGE score >0.001 and prevalence >0.1%. The restricted peptide corresponds to a peptide fragment containing a somatic mutation associated with a cancer.

**[00460]** For clarity, each HLA-PEPTIDE neoantigen in the AACR GENIE results is assigned a unique SEQ ID. NO. Each of the above sequence identifiers includes a designation as an AACR GENIE result, the gene name corresponding to the restricted peptide, the type and nature of somatic mutation, the HLA Class I subtype, and the amino acid sequence of the restricted peptide. For the AACR GENIE results, the HLA Class I subtype designation is expressed as a single letter followed by a 4-digit code.

**[00461]** For clarity, the designation "p." indicates a change in the protein sequence, the designation "fs**number*" stands for a frameshift mutation causing a stop codon in [the designated *number*] of amino acids, the designation "dup" stands for an in-frame sequence insertion of a sequence flanked by the designated amino acids, and the designation "del" stands for an in-frame sequence deletion of the designated amino acids.

**[00462]** For example, the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 21016 is a ACVR1 neoantigen carrying point mutation S290L (denoted as "ACVR1_p.S290L") that is HLA-PEPTIDE target HLA-A*29:02_HYHEMGLLY. As indicated by SEQ ID NO: 21016, the restricted peptide HYHEMGLLY contains the S290L point mutation in the protein encoded by gene ACVR1.

**[00463]** For example, the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 25566 is an NF1 neoantigen carrying insertion or deletion mutation Y2285Tfs*5 (denoted as "NF1_p.Y2285Tfs*5") resulting in an HLA-PEPTIDE target HLA-A*11:01_KGPDTTVKF. As indicated by SEQ ID NO: 25566, the restricted peptide KGPDTTVKF contains the substitution Y2285T and subsequent sequence that is frameshifted from the normal reading frame of the NF1 gene, resulting in a stop codon in 5 amino acids.

**[00464]** For example, the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 22713 is a CDKN2A neoantigen carrying an in-frame sequence insertion T18_A19dup (denoted as "CDKN2A_p.T18_A19dup"), resulting in the HLA-PEPTIDE target HLA-A*68:01_ ATATAAARGR. As indicated by SEQ ID NO: 22713, the restricted peptide ATATAAARGR contains an insertion of amino acids T and A at amino acid positions 18 and 19, and its surrounding sequence in the CDKN2A protein.

**[00465]** For example, the HLA-PEPTIDE neoantigen designated as SEQ ID NO: 23233 is a CTNNB1 neoantigen carrying an in-frame sequence deletion S45del (denoted as "CTNNB1_p.S45del"), resulting in and HLA-PEPTIDE target HLA-A*03:01_TTTAPLSGK. As indicated by SEQ ID NO: 23233, the restricted peptide TTTAPLSGK includes the deletion S45del and its surrounding sequence in the CTNNB1 gene.

**SEQ ID NOs 29358- 29364**

| SEQ ID NO: | Gene | Mutation | HLA Class I subtype | Restricted Peptide amino acid sequence |
|---|---|---|---|---|
| 29358 | CTNNB1 | S37Y point mutation | HLA-A*02:01 | YLDSGIHYGA |
| 29359 | CHD4 | CHD4_K73fs | HLA-B*08:01 | TVRAATIL |
| 29360 | CTNNB1 | CTNNB1_S45P | A*11:01 | TTAPPLSGK |
| 29361 | CTNNB1 | CTNNB1_T41A | A*11:01 | ATAPSLSGK |
| 29362 | RAS | RAS_G12V | A*03:01 | VVGAVGVGK |
| 29363 | KRAS/NRAS | KRAS/NRAS_Q61R | A*01:01 | ILDTAGREEY |
| 29364 | TP53 | TP53_R213L | A*02:01 | YLDDRNTFL |

**Table 1A.1: Alpha VJ and beta V(D)J sequences for TCRs isolated from healthy donors**

| Clone ID | Alpha | Beta |
|---|---|---|
| 01CA0WT_066_F03_0008 | MEKNPLAAPLLILWFHLDCVSSILNVEQSPQSLHVQEGDSTNFTCSFPSSNFYALHWYRWETAKSPEALFVMTLNGDEKKKGRISATLNTKEGYSYLYIKGSQPEDSATYLCAFPMDSNYQLIWGAGTKLIIKP | MSNQVLCCVVLCFLGANTVDGGITQSPKYLFRKEGQNVTLSCEQNLNHDAMYWYRQDPGQGLRLIYYSQIVNDFQKGDIAEGYSVSREKKESFPLTVTSAQKNPTAFYLCASSLGVHGYTFGSGTRLTVV |
| 01CA019_064_F05_1114 | MWGVFLLYVSMKMGGTTGQNIDQPTEMTATEGAIVQINCTYQTSGFNGLFWYQQHAGEAPTFLSYNVLDGLEEKGRFSSFLSRSKGYSYLLLKELQMKDSASYLCAVSSGNTGKLIFGQGTTLQVKPD | MGFRLLCCVAFCLLGAGPVDSGVTQTPKHLITATGQRVTLRCSPRSGDLSVYWYQQSLDQGLQFLIQYYNGEERAKGNILERFSAQQFPDLHSELNLSSLELGDSALYFCASSVAGDSLTDTQYFGPGTRLTVL |
| 01CA0DP_064_F04_0003 | MACPGFLWALVISTCLEFSMAQTVTQSQPEMSVQEAETVTLSCTYDTSESDYYLFWYKQPPSRQMILVIRQEAYKQQNATENRFSVNFQKAAKSFSLKISDSQLGDAAMYFCAPITGAGSYQLTFGKGTKLSVIP | MGTSLLCWVVLGFLGTDHTGAGVSQSPRYKVTKRGQDVALRCDPISGHVSLYWYRQALGQGPEFLTYFNYEAQQDKSGLPNDRFSAERPEGSISTLTIQRTEQRDSAMYRCASSLAFQESNTGELFFGEGSRLTVL |
| 01DB008_064_G02_0013 | MKSLRVLLVILWLQLSWVWSQQKEVEQNSGPLSVPEGAIASLNCTYSDRGSQSFFWYRQYSGKSPELIMFIYSNGDKEDGRFTAQLNKASQYVSLLIRDSQPSDSATYLCAALNSGGYQKVTFGTGTKLQVIP | MGTRLFFYVALCLLWAGHRDAGITQSPRYKITETGRQVTLMCHQTWSHSYMFWYRQDLGHGLRLIYYSAAADITDKGEVPDGYVVSRSKTENFPLTLESATRSQTSVYFCASSPGLNEQFFGPGTRLTVL |
| 01DB008_064_G02_0023 | MKSLRVLLVILWLQLSWVWSQQKEVEQNSGPLSVPEGAIASLNCTYSDRGSQSFFWYRQYSGKSPELIMFIYSNGDKEDGRFTAQLNKASQYVSLLIRDSQPSDSATYLCAVGTNDMRFGAGTRLTVKP | MGTSLLCWMALCLLGADHADTGVSQNPRHKITKRGQNVTFRCDPISEHNRLYWYRQTLGQGPEFLTYFQNEAQLEKSRLLSDRFSAERPKGSFSTLEIQRTEQGDSAMYLCASTSPPEAFFGQGTRLTVV |
| 01CA018_064_H10_0018 | MWGVFLLYVSMKMGGTTGQNIDQPTEMTATEGAIVQINCTYQTSGFNGLFWYQQHAGEAPTFLSYNVLDGLEEKGRFSSFLSRSKGYSYLLLKELQMKDSASYLCAVRGSNDYKLSFGAGTTVTVRA | MGTSLLCWMALCLLGADHADTGVSQNPRHKITKRGQNVTFRCDPISEHNRLYWYRQTLGQGPEFLTYFQNEAQLEKSRLLSDRFSAERPKGSFSTLEIQRTEQGDSAMYLCASSSDNVKNYGYTFGSGTRLTVV |
| 01CA018_064_H10_0014 | MKSLRVLLVILWLQLSWVWSQQKEVEQNSGPLSVPEGAIASLNCTYSDRGSQSFFWYRQYSGKSPELIMFIYSNGDKEDGRFTAQLNKASQYVSLLIRDSQPSDSATYLCAVRNNNDMRFGAGTRLTVKP | MGFRLLCCVAFCLLGAGPVDSGVTQTPKHLITATGQRVTLRCSPRSGDLSVYWYQQSLDQGLQFLIQYYNGEERAKGNILERFSAQQFPDLHSELNLSSLELGDSALYFCASSVGSDTQYFGPGTRLTVL |
| 01CA018_022_E04_0155 | MWGAFLLYVSMKMGGTAGQSLEQPSEVTAVEGAIVQINCTYQTSGFYGLSWYQQHDGGAPTFLSYNALDGLEETGRFSSFLSRSDSYGYLLLQELQMKDSASYFCAGFTSGTYKYIFGTGTRLKVLA | MLLLLLLLGPGSGLGAVVSQHPSWVICKSGTSVKIECRSLDFQATTMFWYRQFPKKSLMLMATSNEGSKATYEQGVEKDKFLINHASLTLSTLTVTSAHPEDSSFYICSARVSFGVMNTEAFFGQGTRLTVV |

| Clone ID | Alpha | Beta |
|---|---|---|
| 01CA018_022_E04_0030 | MMKSLRVLLVILWLQLSWVWSQQKEVEQDPGPLSVPEGAIVSLNCTYSNSAFQYFMWYRQYSRKGPELLMYTYSSGNKEDGRFTAQVDKSSKYISLFIRDSQPSDSATYLCASYNNNDMRFGAGTRLTVKP | MASLLFFCGAFYLLGTGSMDADVTQTPRNRITKTGKRIMLECSQTKGHDRMYWYRQDPGLGLRLIYYSFDVKDINKGEISDGYSVSRQAQAKFSLSLESAIPNQTALYFCATSGRTGGNLETQYFGPGTRLLVL |
| 01CADMS_064_F09_0013 | METLLGLLILWLQLQWVSSKQEVTQIPAALSVPEGENLVLNCSFTDSAIYNLQWFRQDPGKGLTSLLLIQSSQREQTSGRLNASLDKSSGRSTLYIAASQPGDSATYLCASSNYGGSQGNLIFGKGTKLSVKP | MLLLLLLLGPGSGLGAVVSQHPSWVICKSGTSVKIECRSLDFQATTMFWYRQFPKQSLMLMATSNEGSKATYEQGVEKDKFLINHASLTLSTLTVTSAHPEDSSFYICSARAAAAYEQYFGPGTRLTVT |
| 01CA0WT_064_F06_0020 | MLLLLVPAFQVIFTLGGTRAQSVTQLDSQVPVFEEAPVELRCNYSSSVSVYLFWYVQYPNQGLQLLLKYLSGSTLVKGINGFEAEFNKSQTSFHLRKPSVHISDTAEYFCAVSEMGGTSYGKLTFGQGTILTVHP | MSLGLLCCGAFSLLWAGPVNAGVTQTPKFRVLKTGQSMTLLCAQDMNHEYMYWYRQDPGMGLRLIHYSVGEGTTAKGEVPDGYNVSRLKKQNFLLGLESAAPSQTSVYFCASSRTGTAYQPQHFGDGTRLSIL |
| 01CA018_064_G01_0167 | MWGVFLLYVSMKMGGTTGQNIDQPTEMTATEGAIVQINCTYQTSGFNGLFWYQQHAGEAPTFLSYNVLDGLEEKGRFSSFLSRSKGYSYLLLKELQMKDSASYLCAVDTGFQKLVFGTGTRLLVSP | MGSRLLCWVLLCLLGAGPVKAGVTQTPRYLIKTRGQQVTLSCSPISGHRSVSWYQQTPGQGLQFLFEYFSETQRNKGNFPGRFSGRQFSNSRSEMNVSTLELGDSALYLCASSLGSPEAFFGQGTRLTVV |

**Table 1A.2: Alpha VJC and beta V(D)JC sequences for TCRs isolated from healthy donors – G12C/HLA-A*0201**

| Clone ID | Alpha (Constant Region Bolded) | Beta (Constant Region Bolded) |
|---|---|---|
| 01CA019_064_F05_0104 | MKTFAGFSFLFLWLQLDCMSRGEDVEQSLFLSVREGDSSVINCTYTDSSSTYLYWYKQEPGAGLQLLTYIFSNMDMKQDQRLTVLLNKKDKHLSLRIADTQTGDSAIYFCAERVNTDKLIFGTGTRLQVFPN**IQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFETDTNLNFQNLSVIGFRILLLKVAGFNLLMTLRLWSS** | MLLLLLLLGPGSGLGAVVSQHPSWVICKSGTSVKIECRSLDFQATTMFWYRQFPKQSLMLMATSNEGSKATYEQGVEKDKFLINHASLTLSTLTVTSAHPEDSSFYICSASTGDSGNTIYFGEGSWLTVVE**DLNKVFPPEVAVFEPSEAEISHTQKATLVCLATGFFPDHVELSWWVNGKEVHSGVCTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSVSYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDF** |

| Clone ID | Alpha (Constant Region Bolded) | Beta (Constant Region Bolded) |
|---|---|---|
| 01CA019_064_F05_0047 | MSLSSLLKVVTASLWLGPGIAQKITQTQPGMFVQEKEAVTLDCTYDTSDQSYGLFWYKQPSSGEMIFLIYQGSYDEQNATEGRYSLNFQKARKSANLVISASQLGDSAMYFCAMRELNTDKLIFGTGTRLQVFPN**IQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFETDTNLNFQNLSVIGFRILLLKVAGFNLLMTLRLWSS** | MGFRLLCCVAFCLLGAGPVDSGVTQTPKHLITATGQRVTLRCSPRSGDLSVYWYQQSLDQGLQFLIQYYNGEERAKGNILERFSAQQFPDLHSELNLSSLELGDSALYFCASSQWDSSGNTIYFGEGSWLTVVE**DLNKVFPPEVAVFEPSEAEISHTQKATLVCLATGFFPDHVELSWWVNGKEVHSGVCTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSVSYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDF** |
| 01CA019_064_F05_0064 | MSLSSLLKVVTASLWLGPGIAQKITQTQPGMFVQEKEAVTLDCTYDTSDQSYGLFWYKQPSSGEMIFLIYQGSYDEQNATEGRYSLNFQKARKSANLVISASQLGDSAMYFCAMREPRSYNTDKLIFGTGTRLQVFPN**IQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFETDTNLNFQNLSVIGFRILLLKVAGFNLLMTLRLWSS** | MGTRLLFWVAFCLLGADHTGAGVSQSPSNKVTEKGKDVELRCDPISGHTALYWYRQSLGQGLEFLIYFQGNSAPDKSGLPSDRFSAERTGGSVSTLTIQRTQQEDSAVYLCASSLVSQVGYGYTFGSGTRLTVVE**DLNKVFPPEVAVFEPSEAEISHTQKATLVCLATGFFPDHVELSWWVNGKEVHSGVCTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSVSYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDF** |
| 01CA019_064_F05_0005 | MSLSSLLKVVTASLWLGPGIAQKITQTQPGMFVQEKEAVTLDCTYDTSDQSYGLFWYKQPSSGEMIFLIYQGSYDEQNATEGRYSLNFQKARKSANLVISASQLGDSAMYFCAMREESSYKLIFGSGTRLLVRPD**IQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKCVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFETDTNLNFQNLSVIGFRILLLKVAGFNLLMTLRLWSS** | MGFRLLCCVAFCLLGAGPVDSGVTQTPKHLITATGQRVTLRCSPRSGDLSVYWYQQSLDQGLQFLIQYYNGEERAKGNILERFSAQQFPDLHSELNLSSLELGDSALYFCASSVAGDSLTDTQYFGPGTRLTVLE**DLKNVFPPKVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVCTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSESYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDSRG** |

**Table 1A.3: Alpha VJC and beta V(D)JC sequences for TCRs isolated from healthy donors – G12V/HLA-A*1101**

| Clone ID | Alpha (Constant Region Bolded) | Beta (Constant Region Bolded) |
|---|---|---|
| 01CA018_064_F08_0007 | MAFWLRRLGLHFRPHLGRRMESFLG GVLLILWLQVDWVKSQKIEQNSEAL NIQEGKTATLTCNYTNYSPAYLQWY RQDPGRGPVFLLLIRENEKEKRKERL KVTFDTTLKQSLFHITASQPADSATYL CALGYSSASKIIFGSGTRLSIRPN**IQNP DPAVYQLRDSKSSDKSVCLFTDFDS QTNVSQSKDSDVYITDKCVLDMRS MDFKSNSAVAWSNKSDFACANAFN NSIIPEDTFFPSPESSCDVKLVEKSFE TDTNLNFQNLSVIGFRILLLKVAGF NLLMTLRLWSS** | MGPQLLGYVVLCLLGAGPLEAQVTQ NPRYLITVTGKKLTVTCSQNMNHEY MSWYRQDPGLGLRQIYYSMNVEVTD KGDVPEGYKVSRKEKRNFPLILESPSP NQTSLYFCASSLVGNEQFFGPGTRLT VLE**DLKNVFPPKVAVFEPSEAEISH TQKATLVCLATGFYPDHVELSWW VNGKEVHSGVCTDPQPLKEQPALN DSRYCLSSRLRVSATFWQNPRNHF RCQVQFYGLSENDEWTQDRAKPV TQIVSAEAWGRADCGFTSESYQQG VLSATILYEILLGKATLYAVLVSAL VLMAMVKRKDSRG** |
| 01CA018_064_F10_0022 | MAMLLGASVLILWLQPDWVNSQQK NDDQQVKQNSPSLSVQEGRISILNCD YTNSMFDYFLWYKKYPAEGPTFLISIS SIKDKNEDGRFTVFLNKSAKHLSLHI VPSQPGDSAVYFCAANGGFQKLVFG TGTRLLVSPN**IQNPDPAVYQLRDSKS SDKSVCLFTDFDSQTNVSQSKDSDV YITDKCVLDMRSMDFKSNSAVAWS NKSDFACANAFNNSIIPEDTFFPSPE SSCDVKLVEKSFETDTNLNFQNLSV IGFRILLLKVAGFNLLMTLRLWSS** | MGSRLLCWVLLCLLGAGPVKAGVTQ TPRYLIKTRGQQVTLSCSPISGHRSVS WYQQTPGQGLQFLFEYFSETQRNKG NFPGRFSGRQFSNSRSEMNVSTLELG DSALYLCASSSGRTEAFFGQGTRLTV VE**DLNKVFPPEVAVFEPSEAEISHT QKATLVCLATGFFPDHVELSWWV NGKEVHSGVCTDPQPLKEQPALND SRYCLSSRLRVSATFWQNPRNHFR CQVQFYGLSENDEWTQDRAKPVT QIVSAEAWGRADCGFTSVSYQQGV LSATILYEILLGKATLYAVLVSALV LMAMVKRKDF** |
| 01CA018_064_F10_0004 | METLLGVSLVILWLQLARVNSQQGE EDPQALSIQEGENATMNCSYKTSINN LQWYRQNSGRGLVHLILIRSNEREKH SGRLRVTLDTSKKSSSLLITASRAADT ASYFCATDAGTGGFKTIFGAGTRLFV KAN**IQNPDPAVYQLRDSKSSDKSVC LFTDFDSQTNVSQSKDSDVYITDKC VLDMRSMDFKSNSAVAWSNKSDFA CANAFNNSIIPEDTFFPSPESSCDVK LVEKSFETDTNLNFQNLSVIGFRILL LKVAGFNLLMTLRLWSS** | MGTRLLCWAALCLLGAELTEAGVAQ SPRYKIIEKRQSVAFWCNPISGHATLY WYQQILGQGPKLLIQFQNNGVVDDS QLPKDRFSAERLKGVDSTLKIQPAKL EDSAVYLCASSLESSYEQYFGPGTRL TVTE**DLNKVFPPEVAVFEPSEAEISH TQKATLVCLATGFFPDHVELSWW VNGKEVHSGVCTDPQPLKEQPALN DSRYCLSSRLRVSATFWQNPRNHF RCQVQFYGLSENDEWTQDRAKPV TQIVSAEAWGRADCGFTSVSYQQG VLSATILYEILLGKATLYAVLVSAL VLMAMVKRKDF** |
| 01CA018_064_F10_0005 | METLLGVSLVILWLQLARVNSQQGE EDPQALSIQEGENATMNCSYKTSINN LQWYRQNSGRGLVHLILIRSNEREKH SGRLRVTLDTSKKSSSLLITASRAADT ASYFCATDRGSSNTGKLIFGQGTTLQ VKPDN**IQNPDPAVYQLRDSKSSDKS VCLFTDFDSQTNVSQSKDSDVYITD KCVLDMRSMDFKSNSAVAWSNKSD FACANAFNNSIIPEDTFFPSPESSCDV KLVEKSFETDTNLNFQNLSVIGFRIL LLKVAGFNLLMTLRLWSS** | MGTRLLCWAALCLLGAELTEAGVAQ SPRYKIIEKRQSVAFWCNPISGHATLY WYQQILGQGPKLLIQFQNNGVVDDS QLPKDRFSAERLKGVDSTLKIQPAKL EDSAVYLCASSLEISYEQYFGPGTRLT VTE**DLKNVFPPKVAVFEPSEAEISH TQKATLVCLATGFYPDHVELSWW VNGKEVHSGVCTDPQPLKEQPALN DSRYCLSSRLRVSATFWQNPRNHF RCQVQFYGLSENDEWTQDRAKPV TQIVSAEAWGRADCGFTSESYQQG VLSATILYEILLGKATLYAVLVSAL VLMAMVKRKDSRG** |

| Clone ID | Alpha (Constant Region Bolded) | Beta (Constant Region Bolded) |
|---|---|---|
| 01CA018_064_F10_0002 | METLLGVSLVILWLQLARVNSQQGE EDPQALSIQEGENATMNCSYKTSINN LQWYRQNSGRGLVHLILIRSNEREKH SGRLRVTLDTSKKSSSLLITASRAADT ASYFCATDSQTGANNLFFGTGTRLTV IPY**IQNPDPAVYQLRDSKSSDKSVCL FTDFDSQTNVSQSKDSDVYITDKCV LDMRSMDFKSNSAVAWSNKSDFAC ANAFNNSIIPEDTFFPSPESSCDVKL VEKSFETDTNLNFQNLSVIGFRILLL KVAGFNLLMTLRLWSS** | MGTRLLCWAALCLLGAELTEAGVAQ SPRYKIIEKRQSVAFWCNPISGHATLY WYQQILGQGPKLLIQFQNNGVVDDS QLPKDRFSAERLKGVDSTLKIQPAKL EDSAVYLCASSLGDTYEQYFGPGTRL TVTE**DLKNVFPPKVAVFEPSEAEISH TQKATLVCLATGFYPDHVELSWW VNGKEVHSGVCTDPQPLKEQPALN DSRYCLSSRLRVSATFWQNPRNHF RCQVQFYGLSENDEWTQDRAKPV TQIVSAEAWGRADCGFTSESYQQG VLSATILYEILLGKATLYAVLVSAL VLMAMVKRKDSRG** |
| 01CA018_064_F10_0001 | METLLGVSLVILWLQLARVNSQQGE EDPQALSIQEGENATMNCSYKTSINN LQWYRQNSGRGLVHLILIRSNEREKH SGRLRVTLDTSKKSSSLLITASRAADT ASYFCATDPRELSFGAGTTVTVRANI **QNPDPAVYQLRDSKSSDKSVCLFTD FDSQTNVSQSKDSDVYITDKCVLDM RSMDFKSNSAVAWSNKSDFACANA FNNSIIPEDTFFPSPESSCDVKLVEKS FETDTNLNFQNLSVIGFRILLLKVA GFNLLMTLRLWSS** | MGTRLLCWAALCLLGAELTEAGVAQ SPRYKIIEKRQSVAFWCNPISGHATLY WYQQILGQGPKLLIQFQNNGVVDDS QLPKDRFSAERLKGVDSTLKIQPAKL EDSAVYLCASSLESSYEQYFGPGTRL TVTE**DLKNVFPPKVAVFEPSEAEISH TQKATLVCLATGFYPDHVELSWW VNGKEVHSGVCTDPQPLKEQPALN DSRYCLSSRLRVSATFWQNPRNHF RCQVQFYGLSENDEWTQDRAKPV TQIVSAEAWGRADCGFTSESYQQG VLSATILYEILLGKATLYAVLVSAL VLMAMVKRKDSRG** |

**Table 1B: Alpha VJ and beta V(D)J sequences for TCRs isolated from TILs derived from subjects with cancer**

| Clone ID | Alpha | Beta |
|---|---|---|
| 01CA018_074_E09_0061 | MWGVFLLYVSMKMGGTTGQ NIDQPTEMTATEGAIVQINCTY QTSGFNGLFWYQQHAGEAPTF LSYNVLDGLEEKGRFSSFLSRS KGYSYLLLKELQMKDSASYLC AVTDSNYQLIWGAGTKLIIKP | MGCRLLCCAVLCLLGAVPMET GVTQTPRHLVMGMTNKKSLK CEQHLGHNAMYWYKQSAKKP LELMFVYSLEERVENNSVPSRF SPECPNSSHLFLHLHTLQPEDS ALYLCASSQGTGSGANVLTFG AGSRLTVL |
| 01CA018_074_E09_0035 | METLLGLLILWLQLQWVSSKQ EVTQIPAALSVPEGENLVLNCS FTDSAIYNLQWFRQDPGKGLT SLLLIQSSQREQTSGRLNASLD KSSGRSTLYIAASQPGDSATYL CAGPNTGNQFYFGTGTSLTVIP | MLLLLLLLGPGSGLGAVVSQH PSWVICKSGTSVKIECRSLDFQ ATTMFWYRQFPKQSLMLMAT SNEGSKATYEQGVEKDKFLIN HASLTLSTLTVTSAHPEDSSFYI CSAPPGSPYEQYFGPGTRLTVT |
| 01CA0DP_074_E12_0114 | MWGVFLLYVSMKMGGTTGQ NIDQPTEMTATEGAIVQINCTY QTSGFNGLFWYQQHAGEAPTF LSYNVLDGLEEKGRFSSFLSRS | MGCRLLCCVVFCLLQAGPLDT AVSQTPKYLVTQMGNDKSIKC EQNLGHDTMYWYKQDSKKFL KIMFSYNNKELIINETVPNRFSP |

| Clone ID | Alpha | Beta |
|---|---|---|
| | KGYSYLLLKELQMKDSASYLC AVRGGSYIPTFGRGTSLIVHP | KSPDKAHLNLHINSLELGDSAV YFCASSQSEAGQGYGYTFGSG TRLTVV |
| 01CA0DP_074 _E12_0160 | MTSIRAVFIFLWLQLDLVNGEN VEQHPSTLSVQEGDSAVIKCTY SDSASNYFPWYKQELGKGPQL IIDIRSNVGEKKDQRIAVTLNKT AKHFSLHITETQPEDSAVYFCA AGGGGADGLTFGKGTHLIIQP | MGPQLLGYVVLCLLGAGPLEA QVTQNPRYLITVTGKKLTVTCS QNMNHEYMSWYRQDPGLGLR QIYYSMNVEVTDKGDVPEGYK VSRKEKRNFPLILESPSPNQTSL YFCASSDWEEGRSEQYFGPGT RLTVT |

**ble 1C.1: V(D)J Segments and CDR3 Sequences for TCRs isolated from healthy donors**

| lone ID | pHLA | TRA-V | TRA-J | TRB-V | TRB-D | TRB-J | αCDR3 | βCDR3 |
|---|---|---|---|---|---|---|---|---|
| CA0WT_066 03_0008 | HLA-A*02:01/ KLVVVGACGV | TRAV24 | TRAJ33 | TRBV19 | None* | TRBJ1-2 | CAFPMDSNYQLIW | CASSLGVHGYTF |
| CA019_064_ )5_1114 | HLA-*02:01/ KLVVVGACGV | TRAV1-2 | TRAJ37 | TRBV9 | TRBD1 | TRBJ2-3 | CAVSSGNTGKLIF | CASSVAGDSLTDTQYF |
| CA0DP_064 04_0003 | HLA-A*02:01/ KLVVVGACGV | TRAV38-2DV8 | TRAJ28 | TRBV7-6 | None | TRBJ2-2 | CAPITGAGSYQLTF | CASSLAFQESNTGELFF |
| DB008_064_ )2_0013 | HLA-A*03:01/ TTAPPLSGK | TRAV12-2 | TRAJ13 | TRBV10-2 | TRBD2 | TRBJ2-1 | CAALNSGGYQKVTF | CASSPGLNEQFF |
| DB008_064_ )2_0023 | HLA-A*03:01/ TTAPPLSGK | TRAV12-2 | TRAJ43 | TRBV7-9 | None | TRBJ1-1 | CAVGTNDMRF | CASTSPPEAFF |
| CA018_064_ 10_0018 | HLA-A*03:01/ VVGAVGVGK | TRAV1-2 | TRAJ20 | TRBV7-9 | None | TRBJ1-2 | CAVRGSNDYKLSF | CASSSDNVKNYGYTF |
| CA018_064_ 10_0014 | HLA-A*03:01/ VVGAVGVGK | TRAV12-2 | TRAJ43 | TRBV9 | None | TRBJ2-3 | CAVRNNNDMRF | CASSVGSDTQYF |
| CA018_022_ )4_0155 | HLA-A*03:01/ VVVGAVGVGK | TRAV1-1 | TRAJ40 | TRBV20-1 | None | TRBJ1-1 | CAGFTSGTYKYIF | CSARVSFGVMNTEAFF |
| CA018_022_ )4_0030 | HLA-A*03:01/ VVVGAVGVGK | TRAV12-3 | TRAJ43 | TRBV24-1 | TRBD1 | TRBJ2-5 | CASYNNNDMRF | CATSGRTGGNLETQYF |
| CADMS_064 09_0013 | HLA-A*11:01/ VVGAVGVGK | TRAV21 | TRAJ42 | TRBV20-1 | TRBD2 | TRBJ2-7 | CASSNYGGSQGNLIF | CSARAAAAYEQYF |
| CA0WT_064 06_0020 | HLA-A*11:01/ VVGAVGVGK | TRAV8-6 | TRAJ52 | TRBV6-3 | TRBD1 | TRBJ1-5 | CAVSEMGGTSYGKLTF | CASSRTGTAYQPQHF |
| CA018_064_ )1_0167 | HLA-A*11:01/ VVGAVGVGK | TRAV1-2 | TRAJ8 | TRBV5-1 | None | TRBJ1-1 | CAVDTGFQKLVF | CASSLGSPEAFF |

None" indicates sequence analysis did not map to a known TRB-D gene

**ble 1C.2: V(D)J Segments and CDR3 Sequences for TCRs isolated from healthy donors – G12C**

| Clone ID | pHLA | TRA-V | TRA-J | TRB-V | TRB-D | TRB-J | TRB-C | αCDR3 | βCDR3 |
|---|---|---|---|---|---|---|---|---|---|
| CA019_06_F05_0104 | HLA-A*02:01/ KLVVVGACGV | TRAV 5 | TRAJ34 | TRBV20-1 | TRBD1 | TRBJ1 | TRBC1 | CAERVNTDKLIF | CSASTGDSGNTIYF |
| CA019_06_F05_0047 | HLA-*02:01/ KLVVVGACGV | TRAV 14DV4 | TRAJ34 | TRBV9 | TRBD1 | TRBJ1-3 | TRBC1 | CAMRELNTDKLIF | CASSQWDSSGNTIYF |
| CA019_06_F05_0064 | HLA-A*02:01/ KLVVVGACGV | TRAV 14DV4 | TRAJ34 | TRBV7-2 | TRBD1 | TRBJ1-2 | TRBC1 | CAMREPRSYNTDKLIF | CASSLVSQVGYGYTF |
| CA019_06_F05_0005 | HLA-A*02:01/ KLVVVGACGV | TRAV 14DV4 | TRAJ12 | TRBV9 | TRBD1 | TRBJ2-3 | TRBC2 | CAMREESSYKLIF | CASSVAGDSLTDTQYF |

**ble 1C.3: V(D)J Segments and CDR3 Sequences for TCRs isolated from healthy donors – G12V**

| lone ID | pHLA | TRA-V | TRA-J | TRB-V | TRB-D | TRB-J | TRB-C | αCDR3 | βCDR3 |
|---|---|---|---|---|---|---|---|---|---|
| CA018_06_F08_0007 | HLA-A*11:01/ VVGAVGVGK | TRAV6 | TRAJ3 | TRBV27 | None* | TRBJ2-1 | TRBC2 | CALGYSSASKIIF | CASSLVGNEQFF |
| CA018_06_F10_0022 | HLA-A*11:01/ VVGAVGVGK | TRAV29DV5 | TRAJ8 | TRBV5-1 | None | TRBJ1-1 | TRBC1 | CAANGGFQKLVF | CASSSGRTEAFF |
| CA018_06_F10_0004 | HLA-A*11:01/ VVGAVGVGK | TRAV17 | TRAJ9 | TRBV11-2 | TRBD1 | TRBJ2-7 | TRBC1 | CATDAGTGGFKTIF | CASSLESSYEQYF |
| CA018_06_F10_0005 | HLA-A*11:01/ VVGAVGVGK | TRAV17 | TRAJ37 | TRBV11-2 | TRBD2 | TRBJ2-7 | TRBC2 | CATDRGSSNTGKLIF | CASSLEISYEQYF |
| CA018_06_F10_0002 | HLA-A*11:01/ VVGAVGVGK | TRAV17 | TRAJ36 | TRBV11-2 | None | TRBJ2-7 | TRBC2 | CATDSQTGANNLFF | CASSLGDTYEQYF |
| CA018_06_F10_0001 | HLA-A*11:01/ VVGAVGVGK | TRAV17 | TRAJ20 | TRBV11-2 | None | TRBJ2-7 | TRBC2 | CATDPRELSF | CASSLESSYEQYF |

None" indicates sequence analysis did not map to a known TRB-D gene

**ble 1D: V(D)J Segments and CDR3 Sequences for TCRs isolated from TILs derived from subjects with cancer**

| lone ID | pHLA | TRA-V | TRA-J | TRB-V | TRB-D | TRB-J | αCDR3 | βCDR3 |
|---|---|---|---|---|---|---|---|---|
| CA018_074_<br>)9_0061 | HLA-A*11:01/<br>VVGAVGVGK | TRAV1-2 | TRAJ33 | TRBV4-3 | TRBD1 | TRBJ2-6 | CAVTDSNYQLIW | CASSQGTGSGANVLTF |
| CA018_074_<br>)9_0035 | HLA-A*11:01/<br>VVGAVGVGK | TRAV21 | TRAJ49 | TRBV20-1 | None* | TRBJ2-7 | CAGPNTGNQFYF | CSAPPGSPYEQYF |
| CA0DP_074<br>:12_0114 | HLA-A*11:01/<br>VVVGAVGVGK | TRAV1-2 | TRAJ6 | TRBV3-1 | TRBD2 | TRBJ1-2 | CAVRGGSYIPTF | CASSQSEAGQGYGYTF |
| CA0DP_074<br>:12_0160 | HLA-A*11:01/<br>VVVGAVGVGK | TRAV13-1 | TRAJ45 | TRBV27 | TRBD2 | TRBJ2-7 | CAAGGGGADGLTF | CASSDWEEGRSEQYF |

None" indicates sequence analysis did not map to a known TRB-D gene

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## CLAIMS

**1.** An antigen binding protein (ABP) that specifically binds to an HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA Class I molecule and the HLA-restricted peptide are each selected from an HLA-PEPTIDE antigen as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP comprises a T cell receptor (TCR) or antigen-binding fragment thereof.

**2.** The ABP of claim 1, wherein the HLA-restricted peptide is between about 5-15 amino acids in length.

**3.** The ABP of claim 2, wherein the HLA-restricted peptide is between about 8-12 amino acids in length, optionally 8, 9, 10, 11, or 12 amino acids in length.

**4.** The ABP of any one of the preceding claims, wherein the HLA-PEPTIDE antigen is selected from the group consisting of:

a. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK;

b. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK;

c. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

d. a CTNNB1_S45P MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide TTAPPLSGK;

e. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK;

f. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK;

g. a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL;

h. a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK;

i. a TP53_K132N MHC Class I antigen comprising HLA-A*24:02 and the restricted peptide TYSPALNNMF;

j. a CTNNB1_S37Y MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide YLDSGIHYGA;

k. a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK;

l. a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK;

m. a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK;

n. a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY; and

o. a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**5.** The ABP of any one of claims 1-3, wherein:

a. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

b. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:06;

c. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

d. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

e. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

f. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*48:01;

g. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-C*08:03;

h. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

i. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

j. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*03:02;

k. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

l. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

m. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

n. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:05;

o. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

p. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

q. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

r. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*26:01;

s. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

t. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

u. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

v. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

w. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*13:02;

x. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*15:01;

y. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

z. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

aa. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*37:01;

bb. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

cc. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

dd. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:02;

ee. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:02;

ff. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:03;

gg. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*48:01;

hh. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*50:01;

ii. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*57:01;

jj. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

kk. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*02:02;

ll. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:03;

mm. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

nn. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*04:01;

oo. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*05:01;

pp. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*07:04;

qq. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:02;

rr. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:03;

ss. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*16:01;

tt. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*17:01;

uu. the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

vv. the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-C*07:04;

ww. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

xx. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:05;

yy. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:06;

zz. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

aaa. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

bbb. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

ccc. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

ddd. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*25:01;

eee. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*26:01;

fff. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*30:01;

ggg. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

hhh. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

iii. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*32:01;

jjj. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*68:02;

kkk. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

lll. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

mmm. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*13:02;

nnn. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*14:02;

ooo. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*15:01;

ppp. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

qqq. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*39:01;

rrr. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

sss. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:02;

ttt. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

uuu. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*44:05;

vvv. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*50:01;

www. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*51:01;

xxx. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

yyy. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

zzz. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:03;

aaaa. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

bbbb. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*08:02;

cccc. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*14:02;

dddd. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*17:01;

eeee. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

ffff. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

gggg. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

hhhh. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

iiii. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:03;

jjjj. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:08;

kkkk. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

llll. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-C*04:01;

mmmm. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*01:01;

nnnn. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

oooo. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*23:01;

pppp. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*29:01;

qqqq. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*30:02;

rrrr. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*33:01;

ssss. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

tttt. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

uuuu. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

vvvv. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*18:01;

wwww. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

xxxx. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

yyyy. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

zzzz. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*44:02;

aaaaa. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

bbbbb. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*05:01; or

ccccc. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*08:02.

**6.** The ABP of any one of claims 1-3, wherein:

a. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is C*08:02 or A*11:01;

b. the restricted peptide comprises a KRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01;

c. the restricted peptide comprises a NRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01;

d. the restricted peptide comprises a TP53_R249M mutation, and wherein the HLA Class I molecule is B*35:12, B*35:03, or B*35:01;

e. the restricted peptide comprises a CTNNB1_S45P mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, A*68:01, or A*03:02;

f. the restricted peptide comprises a CTNNB1_S45F mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, or A*68:01;

g. the restricted peptide comprises a ERBB2_Y772_A775dup mutation, and wherein the HLA Class I molecule is B*18:01;

h. the restricted peptide comprises a KRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02;

i. the restricted peptide comprises a NRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02;

j. the restricted peptide comprises a KRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01;

k. the restricted peptide comprises a NRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01;

l. the restricted peptide comprises a CTNNB1_T41A mutation, and wherein the HLA Class I molecule is A*03:01, A*03:02, A*11:01, B*15:10, C*03:03, or C*03:04;

m. the restricted peptide comprises a TP53_K132N mutation, and wherein the HLA Class I molecule is A*24:02 or A*23:01;

n. the restricted peptide comprises a KRAS_G12A mutation, and wherein the HLA Class I molecule is A*03:01 or A*11:01;

o. the restricted peptide comprises a KRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01;

p. the restricted peptide comprises a NRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01;

q. the restricted peptide comprises a TP53_R213L mutation, and wherein the HLA Class I molecule is A*02:07, C*08:02, or A*02:01;

r. the restricted peptide comprises a BRAF_G466V mutation, and wherein the HLA Class I molecule is B*15:01, or B*15:03;

s. the restricted peptide comprises a KRAS_G12V mutation, and wherein the HLA Class I molecule is A*03:01, A*03:02, A*11:01, or C*01:02;

t. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01;

u. the restricted peptide comprises a NRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01;

v. the restricted peptide comprises a CTNNB1_S37F mutation, and wherein the HLA Class I molecule is A*01:01, A*23:01, A*24:02, B*15:10, B*39:06, C*05:01, C*14:02, or C*14:03;

w. the restricted peptide comprises a TP53_S127Y mutation, and wherein the HLA Class I molecule is A*11:01 or A*03:01;

x. the restricted peptide comprises a TP53_K132E mutation, and wherein the HLA Class I molecule is A*24:02, C*14:03, or A*23:01;

y. the restricted peptide comprises a KRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01;

z. the restricted peptide comprises a NRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01;

aa. the restricted peptide comprises a EGFR_L858R mutation, and wherein the HLA Class I molecule is A*11:01, or A*03:01;

bb. the restricted peptide comprises a TP53_Y220C mutation, and wherein the HLA Class I molecule is A*02:01; or

cc. the restricted peptide comprises a TP53_ R175H mutation, and wherein the HLA Class I molecule is A*02:01.

**7.** The ABP of any one of claims 1-3, wherein the HLA-PEPTIDE antigen is selected from:

a. a CTNNB1_S45P MHC Class I antigen comprising A*11:01 and the restricted peptide TTAPPLSGK;

b. a CTNNB1_T41AMHC Class I antigen comprising A*11:01 and the restricted peptide ATAPSLSGK;

c. a RAS_G12D MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGADGVGK;

d. a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVGAVGVGK;

e. a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVVGAVGVGK;

f. a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVGAVGVGK;

g. a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGAVGVGK;

h. a KRAS_Q61R MHC Class I antigen comprising A*01:01 and the restricted peptide ILDTAGREEY; and

i. a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**8.** The ABP of any one of claims 1-3, wherein the HLA-restricted peptide comprises a RAS G12 mutation.

**9.** The ABP of claim 8, wherein the G12 mutation is a G12C, a G12D, a G12V, or a G12A mutation.

**10.** The ABP of claim 8, wherein the HLA-PEPTIDE antigen comprises an HLA Class I molecule selected from HLA-A*02:01, HLA-A*11:01, HLA-A*31:01, HLA-C*01:02, and HLA-A*03:01.

**11.** The ABP of any one of claims 8-10, wherein the RAS G12 mutation is any one or more of: a KRAS, NRAS, and HRAS mutation.

**12.** The ABP of claim 9, wherein the HLA-PEPTIDE antigen is selected from:

a. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

b. a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK;

c. a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK;

d. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK;

e. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK;

f. a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK;

g. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK;

h. a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide VVVGAVGVGK;

i. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK;

j. a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and

k. a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK.

**13.** The ABP of claim 9, wherein the HLA-PEPTIDE antigen is selected from:

a. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

b. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK;

c. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK;

d. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK;

e. a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide VVVGAVGVGK;

f. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK;

g. a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and

h. a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK.

**14.** The ABP of claim 9, wherein the HLA-PEPTIDE antigen is selected from:

a. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

b. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; and

c. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK.

**15.** The ABP of claim 9, wherein the HLA-PEPTIDE antigen is a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV.

**16.** The ABP of claim 9, wherein the HLA-PEPTIDE antigen is a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK.

**17.** The ABP of claim 9, wherein the HLA-PEPTIDE antigen is a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK.

**18.** The ABP of any one of claims 1-3, wherein the HLA-restricted peptide comprises a RAS Q61 mutation.

**19.** The ABP of claim 18, wherein the Q61 mutation is a Q61H, a Q61K, a Q61R, or a Q61L mutation.

**20.** The ABP of claim 18, wherein the HLA-PEPTIDE antigen is a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY.

**21.** The ABP of any one of claims 1-3, wherein the HLA-restricted peptide comprises a TP53 mutation.

**22.** The ABP of claim 21, wherein the TP53 mutation comprises a R213L, S127Y, Y220C, R175H, or R249M mutation.

**23.** The ABP of claim 21, wherein the HLA-PEPTIDE antigen is a TP53 R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**24.** The ABP of any one of the preceding claims, wherein the antigen binding protein binds to the HLA-PEPTIDE antigen through at least one contact point with the HLA Class I molecule and through at least one contact point with the HLA-restricted peptide.

**25.** The ABP of any one of the preceding claims, wherein the antigen binding protein binds to a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV, and wherein the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising a different RAS G12 mutation.

**26.** The ABP of claim 25, wherein the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule.

**27.** The ABP of claim 26, wherein the ABP does not bind to an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule.

**28.** The ABP of any one of the preceding claims, wherein the antigen binding protein is linked to a scaffold, optionally wherein the scaffold comprises serum albumin or Fc, optionally wherein Fc is human Fc and is an IgG (IgG1, IgG2, IgG3, IgG4), an IgA (IgA1, IgA2), an IgD, an IgE, or an IgM isotype Fc.

**29.** The ABP of any one of the preceding claims, wherein the antigen binding protein is linked to a scaffold via a linker, optionally wherein the linker is a peptide linker, optionally wherein the peptide linker is a hinge region of a human antibody.

**30.** The ABP of any one of the preceding claims, wherein the TCR or antigen-binding portion thereof comprises a TCR variable region.

**31.** The ABP of any one of the preceding claims, wherein the TCR or antigen-binding portion thereof comprises one or more TCR complementarity determining regions (CDRs).

**32.** The ABP of any one of the preceding claims, wherein the TCR comprises an alpha chain and a beta chain.

**33.** The ABP of any one of the preceding claims, wherein the TCR comprises a gamma chain and a delta chain.

**34.** The ABP of any one of the preceding claims, wherein the TCR comprises a single chain TCR (scTCR).

**35.** The ABP of any one of the preceding claims, wherein the TCR comprises recombinant TCR sequences.

**36.** The ABP of any one of the preceding claims, wherein the TCR comprises human TCR sequences, optionally wherein the human TCR sequences are fully-human TCR sequences.

**37.** The ABP of any one of the preceding claims, wherein the TCR comprises a modified TCRα constant (TRAC) region, a modified TCRβ constant (TRBC) region, or a modified TRAC region and a modified TRBC region.

**38.** The ABP of any one of the preceding claims, wherein the antigen binding protein comprises a modification that extends half-life.

**39.** The ABP of any one of the preceding claims, wherein the antigen binding protein is a portion of a chimeric antigen receptor (CAR) comprising: an extracellular portion comprising the antigen binding protein; and an intracellular signaling domain.

**40.** The ABP of claim 39, wherein the intracellular signaling domain comprises an ITAM.

**41.** The ABP of claim 39 or 40, wherein the intracellular signaling domain comprises a signaling domain of a zeta chain of a CD3-zeta (CD3) chain.

**42.** The antigen binding protein of any one of claims 39-41, further comprising a transmembrane domain linking the extracellular domain and the intracellular signaling domain.

**43.** The ABP of claim 42, wherein the transmembrane domain comprises a transmembrane portion of CD28.

**44.** The antigen binding protein of any one of claims 39-43, further comprising an intracellular signaling domain of a T cell costimulatory molecule.

**45.** The ABP of claim 44, wherein the T cell costimulatory molecule is CD28, 4-1BB, OX-40, ICOS, or any combination thereof.

**46.** The ABP of any one of the preceding claims for use as a medicament.

**47.** The ABP of any one of the preceding claims for use in treatment of cancer, optionally wherein the cancer expresses or is predicted to express the HLA-PEPTIDE antigen.

**48.** The ABP of any one of the preceding claims for use in treatment of cancer, wherein the cancer is selected from a solid tumor and a hematological tumor.

**49.** An antigen binding protein (ABP) that competes for binding with the ABP of any one of the preceding claims.

**50.** An antigen binding protein (ABP) that binds the same HLA-PEPTIDE antigen epitope bound by the ABP of any one of the preceding claims.

**51.** An engineered cell expressing a receptor comprising the antigen binding protein of any one of the preceding claims.

**52.** The engineered cell of claim 51, wherein the engineered cell is a T cell.

**53.** The engineered cell of claim 52, wherein the T cell is selected from the group consisting of: a naive T (TN) cell, an effector T cell (TEFF), a memory T cell, a stem cell memory T cell (TSCM), a central memory T cell (TCM), an effector memory T cell (TEM), a terminally differentiated effector memory T cell, a tumor-infiltrating lymphocyte (TIL), an immature T cell, a mature T cell, a helper T cell, a cytotoxic T cell, a mucosa-associated invariant T (MALT) cell, a regulatory T cell (Treg), a TH1 cell, a TH2 cell, a TH3 cell, a TH17 cell, a TH9 cell, a TH22 cell, a follicular helper T cell, an natural killer T cell (NKT), an alpha-beta T cell, and a gamma-delta T cell.

**54.** The engineered cell of claim 52, wherein the T cell is a cytotoxic T cell (CTL).

**55.** The engineered cell of any one of claims 51-54, wherein the engineered cell is a human cell or a human-derived cell.

**56.** The engineered cell of any one of claims 51-55, wherein the engineered cell is an autologous cell of a subject.

**57.** The engineered cell of claim 56, wherein the subject is known or suspected to have cancer.

**58.** The engineered cell of any one of claims 56-57, wherein the autologous cell is an isolated cell from a subject.

**59.** The engineered cell of claim 58, wherein the isolated cell is an an ex vivo cultured cell, optionally wherein the vivo cultured cell is a stimulated cell.

**60.** The engineered cell of any one of claims 56-57, wherein the autologous cell is an *in vivo*-engineered cell.

**61.** The engineered cell of any one of claims 51-60, wherein the antigen binding protein is expressed from a heterologous promoter.

**62.** The engineered cell of any one of claims 51-61, wherein the ABP comprises a T cell receptor (TCR) or an antigen-binding portion thereof, and wherein a polynucleotide encoding the T cell receptor (TCR) or antigen-binding portion thereof is inserted in an endogenous TCR locus.

**63.** The engineered cell of any one of claims 51-62, wherein the engineered cell does not express an endogenous ABP.

**64.** An isolated polynucleotide or set of polynucleotides encoding the ABP of any one of the preceding claims or an antigen-binding portion thereof.

**65.** A vector or set of vectors comprising the polynucleotide or set of polynucleotides of claim 64.

**66.** A virus comprising the isolated polynucleotide or set of polynucleotides of claim 64.

**67.** The virus of claim 66, wherein the virus is a filamentous phage.

**68.** A yeast cell comprising the isolated polynucleotide or set of polynucleotides of any of the preceding claims.

**69.** A host cell comprising the polynucleotide or set of polynucleotides of any of the preceding claims or the vector or set of vectors of claim 65, optionally wherein the host cell is CHO or HEK293, or optionally wherein the host cell is a T cell.

**70.** A method of producing an antigen binding protein comprising expressing the antigen binding protein with the host cell of claim 69 and isolating the expressed antigen binding protein.

**71.** A pharmaceutical composition comprising the antigen binding protein of any of the preceding claims and a pharmaceutically acceptable excipient.

**72.** A method of treating cancer in a subject, comprising administering to the subject the ABP of any of the preceding claims, the engineered cell of any one of claims 51-63, or a pharmaceutical composition of claim 71, optionally wherein the cancer is selected from a solid tumor and a hematological tumor.

**73.** A method of stimulating an immune response in a subject, comprising administering to the subject the ABP of any of the preceding claims, the engineered cell of any one of claims 51-63, or a pharmaceutical composition of claim 71, optionally wherein the subject has cancer, optionally wherein the cancer is selected from a solid tumor and a hematological tumor.

**74.** A method of killing a target cell in a subject, comprising administering to the subject the ABP of any of the preceding claims, the engineered cell of any one of claims 51-63, or a pharmaceutical composition of claim 71, optionally wherein the subject has cancer and the target cell is a cancer cell, optionally wherein the cancer is selected from a solid tumor and a hematological tumor.

**75.** The method of any one of claims 72-74, wherein the subject is a human subject.

**76.** The method of any one of claims 72-74, wherein the cancer expresses or is predicted to express an HLA-PEPTIDE antigen or HLA Class I molecule as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP binds to the HLA-PEPTIDE antigen.

**77.** The method of any one of claims 72-74, wherein the cancer expresses or is predicted to express an HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA Class I molecule and the HLA-restricted peptide are each selected from an HLA-PEPTIDE antigen as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP binds to the HLA-PEPTIDE antigen.

**78.** The method of claim 77, wherein the HLA-PEPTIDE antigen is selected from the group consisting of:

a. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

b. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK;

c. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK;

d. a CTNNB1_S45P MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide TTAPPLSGK;

e. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK;

f. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK;

g. a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL;

h. a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK;

i. a TP53_K132N MHC Class I antigen comprising HLA-A*24:02 and the restricted peptide TYSPALNNMF;

j. a CTNNB1_S37Y MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide YLDSGIHYGA;

k. a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK;

l. a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK;

m. a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK;

n. a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY; and

o. a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**79.** The method of claim 77, wherein:

a. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

b. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:06;

c. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

d. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

e. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

f. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*48:01;

g. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-C*08:03;

h. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

i. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

j. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

k. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*03:02;

l. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

m. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

n. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

o. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:05;

p. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

q. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

r. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

s. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*26:01;

t. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

u. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

v. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

w. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

x. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*13:02;

y. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*15:01;

z. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

aa. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

bb. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*37:01;

cc. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

dd. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

ee. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:02;

ff. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:02;

gg. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:03;

hh. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*48:01;

ii. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*50:01;

jj. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*57:01;

kk. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

ll. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*02:02;

mm. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:03;

nn. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

oo. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*04:01;

pp. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*05:01;

qq. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*07:04;

rr. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:02;

ss. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:03;

tt. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*16:01;

uu. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*17:01;

vv. the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

ww. the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-C*07:04;

xx. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

yy. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:05;

zz. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:06;

aaa. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

bbb. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

ccc. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

ddd. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

eee. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*25:01;

fff. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*26:01;

ggg. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*30:01;

hhh. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

iii. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

jjj. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*32:01;

kkk. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*68:02;

lll. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

mmm. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

nnn. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*13:02;

ooo. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*14:02;

ppp. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*15:01;

qqq. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

rrr. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*39:01;

sss. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

ttt. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:02;

uuu. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

vvv. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*44:05;

www. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*50:01;

xxx. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*51:01;

yyy. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

zzz. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

aaaa. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:03;

bbbb. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

cccc. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*08:02;

dddd. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*14:02;

eeee. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*17:01;

ffff. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

gggg. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

hhhh. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

iiii. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

jjjj. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:03;

kkkk. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:08;

llll. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

mmmm. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-C*04:01;

nnnn. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*01:01;

oooo. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

pppp. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*23:01;

qqqq. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*29:01;

rrrr. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*30:02;

ssss. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*33:01;

tttt. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

uuuu. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

vvvv. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

wwww. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*18:01;

xxxx. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

yyyy. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

zzzz. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

aaaaa. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*44:02;

bbbbb. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

ccccc. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*05:01; or

ddddd. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*08:02.

**80.** The method of claim 77, wherein:

a. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is C*08:02 or A*11:01;

b. the restricted peptide comprises a KRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01;

c. the restricted peptide comprises a NRAS_Q61K mutation, and wherein the HLA Class I molecule is A*01:01;

d. the restricted peptide comprises a TP53_R249M mutation, and wherein the HLA Class I molecule is B*35:12, B*35:03, or B*35:01;

e. the restricted peptide comprises a CTNNB1_S45P mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, A*68:01, or A*03:02;

f. the restricted peptide comprises a CTNNB1_S45F mutation, and wherein the HLA Class I molecule is A*03:01, A*11:01, or A*68:01;

g. the restricted peptide comprises a ERBB2_Y772_A775dup mutation, and wherein the HLA Class I molecule is B*18:01;

h. the restricted peptide comprises a KRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02;

i. the restricted peptide comprises a NRAS_G12D mutation, and wherein the HLA Class I molecule is A*11:01, A*03:01, or C*08:02;

j. the restricted peptide comprises a KRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01;

k. the restricted peptide comprises a NRAS_Q61R mutation, and wherein the HLA Class I molecule is A*01:01;

l. the restricted peptide comprises a CTNNB1_T41A mutation, and wherein the HLA Class I molecule is A*03:01, A*0302, A*11:01, B*15:10, C*03:03, or C*03:04;

m. the restricted peptide comprises a TP53_K132N mutation, and wherein the HLA Class I molecule is A*24:02 or A*23:01;

n. the restricted peptide comprises a KRAS_G12A mutation, and wherein the HLA Class I molecule is A*03:01 or A*11:01;

o. the restricted peptide comprises a KRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01;

p. the restricted peptide comprises a NRAS_Q61L mutation, and wherein the HLA Class I molecule is A*01:01;

q. the restricted peptide comprises a TP53_R213L mutation, and wherein the HLA Class I molecule is A*02:07, C*08:02, or A*02:01;

r. the restricted peptide comprises a BRAF_G466V mutation, and wherein the HLA Class I molecule is B*15:01, or B*15:03;

s. the restricted peptide comprises a KRAS_G12V mutation, and wherein the HLA Class I molecule is A*03:01, A*03:02, A*11:01, or C*01:02;

t. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01;

u. the restricted peptide comprises a NRAS_Q61H mutation, and wherein the HLA Class I molecule is A*01:01;

v. the restricted peptide comprises a CTNNB1_S37F mutation, and wherein the HLA Class I molecule is A*01:01, A*23:01, A*24:02, B*15:10, B*39:06, C*05:01, C*14:02, or C*14:03;

w. the restricted peptide comprises a TP53_S127Y mutation, and wherein the HLA Class I molecule is A*11:01 or A*03:01;

x. the restricted peptide comprises a TP53_K132E mutation, and wherein the HLA Class I molecule is A*24:02, C*14:03, or A*23:01;

y. the restricted peptide comprises a KRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01;

z. the restricted peptide comprises a NRAS_G12C mutation, and wherein the HLA Class I molecule is A*02:01, A*11:01, or A*03:01;

aa. the restricted peptide comprises a EGFR_L858R mutation, and wherein the HLA Class I molecule is A*11:01, or A*03:01;

bb. the restricted peptide comprises a TP53_Y220C mutation, and wherein the HLA Class I molecule is A*02:01; or

cc. the restricted peptide comprises a TP53_ R175H mutation, and wherein the HLA Class I molecule is A*02:01.

**81.** The method of claim 77, wherein the HLA-PEPTIDE antigen is selected from:

a. a CTNNB1_S45P MHC Class I antigen comprising A*11:01 and the restricted peptide TTAPPLSGK;

b. a CTNNB1_T41A MHC Class I antigen comprising A*11:01 and the restricted peptide ATAPSLSGK;

c. a RAS_G12D MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGADGVGK;

d. a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVGAVGVGK;

e. a RAS_G12V MHC Class I antigen comprising A*03:01 and the restricted peptide VVVGAVGVGK;

f. a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVGAVGVGK;

g. a RAS_G12V MHC Class I antigen comprising A*11:01 and the restricted peptide VVVGAVGVGK;

h. a KRAS_Q61R MHC Class I antigen comprising A*01:01 and the restricted peptide ILDTAGREEY; and

i. a TP53_R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**82.** The method of claim 77, wherein the HLA-PEPTIDE antigen comprises an HLA-restricted peptide which is a peptide fragment of RAS comprising a RAS G12 mutation.

**83.** The method of claim 82, wherein the G12 mutation is a G12C, a G12D, a G12V, or a G12A mutation.

**84.** The method of claim 82, wherein the HLA-PEPTIDE antigen comprises an HLA Class I molecule selected from HLA-A*02:01, HLA-A*11:01, HLA-A*31:01, HLA-C*01:02, and HLA-A*03:01.

**85.** The method of any one of claims 82-84, wherein the RAS G12 mutation is any one or more of: a KRAS, NRAS, and HRAS mutation.

**86.** The method of claim 83, wherein the HLA-PEPTIDE antigen is selected from:

a. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

b. a RAS_G12C MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGACGVGK;

c. a RAS_G12C MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGACGVGK;

d. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK;

e. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK;

f. a RAS_G12D MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGADGVGK;

g. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK;

h. a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide VVVGAVGVGK;

i. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK;

j. a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and

k. a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK.

**87.** The method of claim 83, , wherein the HLA-PEPTIDE antigen is selected from:

a. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

b. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK;

c. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGADGVGK;

d. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK;

e. a RAS_G12V MHC Class I antigen comprising HLA-A*31:01 and the restricted peptide VVVGAVGVGK;

f. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK;

g. a RAS_G12V MHC Class I antigen comprising HLA-C*01:02 and the restricted peptide AVGVGKSAL; and

h. a RAS_G12V MHC Class I antigen comprising HLA-A*03:01 and the restricted peptide VVVGAVGVGK.

**88.** The method of claim 83, wherein the HLA-PEPTIDE antigen is selected from:

a. a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV;

b. a RAS_G12D MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGADGVGK; or

c. a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVVGAVGVGK.

**89.** The method of claim 83, wherein the antigen binding protein binds to a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV, and wherein the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising a different RAS G12 mutation.

**90.** The method of claim 89, wherein the ABP binds to the RAS_G12C MHC Class I antigen at a higher affinity than an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule.

**91.** The method of claim 89, wherein the ABP does not bind to an HLA-PEPTIDE antigen comprising the restricted peptide KLVVVGAVGV and an HLA-A2 molecule.

**92.** The method of claim 77, wherein the HLA-PEPTIDE antigen comprises an HLA-restricted peptide which is a peptide fragment of RAS comprising a RAS Q61 mutation.

**93.** The method of claim 92, wherein the Q61 mutation is a Q61H, a Q61K, a Q61R, or a Q61L mutation.

**94.** The method of claim 92, wherein the HLA-PEPTIDE antigen is a RAS_Q61H MHC Class I antigen comprising HLA-A*01:01 and the restricted peptide ILDTAGHEEY.

**95.** The method of claim 77, wherein the HLA-PEPTIDE antigen comprises an HLA-restricted peptide which is a peptide fragment of TP53 comprising a TP53 mutation.

**96.** The method of claim 95, wherein the TP53 mutation comprises a R213L, S127Y, Y220C, R175H, or R249M mutation.

**97.** The method of claim 95, wherein the HLA-PEPTIDE antigen is a TP53 R213L MHC Class I antigen comprising A*02:01 and the restricted peptide YLDDRNTFL.

**98.** The method of any one of claims 72-97, comprising, prior to the administering, determining or having determined the presence of any one or more of the HLA-PEPTIDE antigen, the peptide of the HLA-PEPTIDE antigen, the somatic mutation associated with the HLA-PEPTIDE antigen, and the HLA molecule of the HLA-PEPTIDE antigen in a biological sample obtained from the subject.

**99.** The method of claim 98, wherein the biological sample is a blood sample or a tumor sample.

**100.** The method of claim 99, wherein the blood sample is a plasma or serum sample.

**101.** The method of claim 98, wherein the determining comprises RNASeq, microarray, PCR, Nanostring, in situ hybridization (ISH), Mass spectrometry, sequencing, or immunohistochemistry (IHC).

**102.** The method of claim 98, wherein after having determined the presence of the HLA-PEPTIDE antigen, peptide, or HLA in the biological sample obtained from the subject, administering to the subject an ABP that selectively binds to the HLA-PEPTIDE antigen.

**103.** A kit comprising the antigen binding protein of any of the preceding claims or a pharmaceutical composition of claim 71 and instructions for use.

**104.** A system, comprising:

a. an isolated HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide

is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, and wherein the HLA-PEPTIDE antigen is selected from an HLA-PEPTIDE antigen described in any one of SEQ ID NOs:10,755 to 29,364; and

b. a phage display library.

**105.** The system of claim 104, wherein the HLA-PEPTIDE antigen is attached to a solid support.

**106.** The system of claim 105, wherein the solid support comprises a bead, well, membrane, tube, column, plate, sepharose, magnetic bead, cell, or chip.

**107.** The system of claim 105 or 106, wherein the HLA-PEPTIDE antigen comprises a first member of an affinity binding pair and the solid support comprises a second member of the affinity binding pair.

**108.** The system of claim 107, wherein the first member is streptavidin and the second member is biotin.

**109.** The system of any one of claims 104-108, wherein the phage display library is a human library.

**110.** The system of any one of claims 104-108, wherein the phage display library is a humanized library.

**111.** The system of any one of claims 104-110, further comprising a negative control HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, and wherein the negative control HLA-PEPTIDE antigen comprises a different restricted peptide, a different HLA Class I molecule, or a different restricted peptide and a different HLA Class I molecule.

**112.** The system of claim 111, wherein the negative control HLA-PEPTIDE antigen comprises a different restricted peptide but the same HLA Class I molecule as the HLA-PEPTIDE antigen.

**113.** The system of any one of claims 104-112, comprising a reaction mixture, the reaction mixture comprising the HLA-PEPTIDE antigen and a plurality of phages from the phage display library.

**114.** Use of a system of any one of claims 104-113 for identifying an antigen binding protein that selectively binds the isolated HLA-PEPTIDE antigen.

**115.** A composition comprising an HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755 to 29,364, wherein the HLA-PEPTIDE antigen is covalently linked to an affinity tag.

**116.** The composition of claim 115, wherein the affinity tag is a biotin tag.

**117.** A composition comprising an HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755 to 29,364 complexed with a detectable label.

**118.** The composition of claim 117, wherein the detectable label comprises a $\beta_2$-microglobulin binding molecule.

**119.** The composition of claim 118, wherein the $\beta_2$-microglobulin binding molecule is a labeled antibody.

**120.** The composition of claim 119, wherein the labeled antibody is a fluorochrome-labeled antibody.

**121.** A composition comprising an HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755 to 29,364 attached to a solid support.

**122.** The composition of claim 121, wherein the solid support comprises a bead, well, membrane, tube, column, plate, sepharose, magnetic bead, cell, or chip.

**123.** The composition of claim 121 or 122, wherein the HLA-PEPTIDE antigen comprises a first member of an affinity binding pair and the solid support comprises a second member of the affinity binding pair.

**124.** The composition of claim 123, wherein the first member is streptavidin and the second member is biotin.

**125.** A host cell comprising a heterologous HLA-PEPTIDE antigen as described by any one of SEQ ID NOs:10,755-29,364.

**126.** A host cell which expresses an HLA subtype as defined by any one of the HLA-PEPTIDE antigens described in SEQ ID NOs:10,755-29,364.

**127.** A host cell comprising a polynucleotide encoding an HLA-restricted peptide as defined by any one of the HLA-PEPTIDE antigens in SEQ ID NOs:10,755-29,364.

**128.** The host cell of claim 127, which does not comprise endogenous MHC.

**129.** The host cell of claim 128, comprising an exogenous HLA.

**130.** The host cell of claim 129, which is a K562 or A375 cell.

**131.** The host cell of any one of claims 125-130, which is a cultured cell from a tumor cell line.

**132.** The host cell of claim 131, wherein the tumor cell line expresses an HLA subtype as defined by the same HLA-PEPTIDE antigen that describes the HLA-restricted peptide of claim 127.

**133.** The host cell of claim 131, wherein the tumor cell line is selected from the group consisting of HCC-1599, NCI-H510A, A375, LN229, NCI-H358, ZR-75-1, MS751, OE19, MOR, BV173, MCF-7, NCI-H82, Colo829, SK-MEL-28, KYSE270, 59M, and NCI-H146.

**134.** A cell culture system comprising

a. a host cell of any one one of claims 125-133, and
b. a cell culture medium.

**135.** The cell culture system of claim 134, wherein the host cell expresses an HLA subtype as defined by any one of the HLA-PEPTIDE antigens in SEQ ID NOs:10,755-21,015 and SEQ ID NOs: 21,016-29,364, and wherein the cell culture medium comprises a restricted peptide as defined by the same HLA-PEPTIDE antigen as the HLA subtype.

**136.** The cell culture system of claim 134, wherein the host cell is a K562 cell which comprises an exogenous HLA, wherein the exogenous HLA is an HLA subtype as defined by any one of the HLA-PEPTIDE antigens in SEQ ID NOs:10,755-29,364, and wherein the cell culture medium comprises a restricted peptide as defined by the same HLA-PEPTIDE antigen defining the HLA subtype.

**137.** A method of identifying an antigen binding protein of any of the preceding claims, comprising providing at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-

29,364; and binding the at least one target with the antigen binding protein, thereby identifying the antigen binding protein.

**138.** The method of claim 137, wherein the antigen binding protein is present in a phage display library comprising a plurality of distinct antigen binding proteins.

**139.** The method of claim 138, wherein the phage display library is substantially free of antigen binding proteins that non-specifically bind the HLA of the HLA-PEPTIDE antigen.

**140.** The method of any one of claims 137-139, wherein the binding step is performed more than once, optionally at least three times.

**141.** The method of any one of claims 137-140, further comprising contacting the antigen binding protein with one or more peptide-HLA complexes that are distinct from the HLA-PEPTIDE antigen to determine if the antigen binding protein selectively binds the HLA-PEPTIDE antigen, optionally wherein selectivity is determined by measuring binding affinity of the antigen binding protein to soluble target HLA-PEPTIDE complexes versus soluble HLA-PEPTIDE complexes that are distinct from target complexes, optionally wherein selectivity is determined by measuring binding affinity of the antigen binding protein to target HLA-PEPTIDE complexes expressed on the surface of one or more cells versus HLA-PEPTIDE complexes that are distinct from target complexes expressed on the surface of one or more cells.

**142.** A method of identifying an antigen binding protein of any of the preceding claims, comprising obtaining at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364; administering the HLA-PEPTIDE antigen to a subject, optionally in combination with an adjuvant; and isolating the antigen binding protein from the subject.

**143.** The method of claim 142, wherein isolating the antigen binding protein comprises screening the serum of the subject to identify the antigen binding protein.

**144.** The method of claim 142, further comprising contacting the antigen binding protein with one or more peptide-HLA complexes that are distinct from the HLA-PEPTIDE antigen to determine if the antigen binding protein selectively binds to the HLA-PEPTIDE antigen, optionally wherein selectivity is determined by measuring binding affinity of the antigen binding protein to the HLA-PEPTIDE antigen versus soluble HLA-PEPTIDE complexes that are distinct from the HLA-PEPTIDE antigen, optionally wherein selectivity is determined by

measuring binding affinity of the antigen binding protein to the HLA-PEPTIDE antigen expressed on the surface of one or more cells versus HLA-PEPTIDE complexes that are distinct from the HLA-PEPTIDE antigen expressed on the surface of one or more cells.

**145.** The method of claim 142, wherein the subject is a mouse, a rabbit, or a llama.

**146.** The method of claim 142, wherein isolating the antigen binding protein comprises isolating a B cell from the subject that expresses the antigen binding protein and optionally directly cloning sequences encoding the antigen binding protein from the isolated B cell.

**147.** The method of claim 146, further comprising creating a hybridoma using the B cell.

**148.** The method of claim 146, further comprising cloning CDRs from the B cell.

**149.** The method of claim 146, further comprising immortalizing the B cell, optionally via EBV transformation.

**150.** The method of claim 146, further comprising creating a library that comprises the antigen binding protein of the B cell, optionally wherein the library is phage display or yeast display.

**151.** The method of claim 142, further comprising humanizing the antigen binding protein.

**152.** A method of identifying an antigen binding protein of any of the preceding claims, comprising obtaining a cell comprising the antigen binding protein; contacting the cell with an HLA-multimer comprising at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364; and identifying the antigen binding protein via binding between the HLA-multimer and the antigen binding protein.

**153.** The method of claim 152, wherein the method further comprises contacting the cell comprising the antigen binding protein with an HLA-multimer comprising a corresponding wildtype sequence of the at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364, and excluding the antigen binding protein if the antigen binding protein binds the HLA-multimer comprising the corresponding wildtype sequence.

**154.** A method of identifying an antigen binding protein of any of the preceding claims, comprising providing at least one HLA-PEPTIDE antigen described in SEQ ID NOs:10,755-29,364; and identifying the antigen binding protein using the target.

**155.** An antigen binding protein (ABP) that specifically binds to an HLA-PEPTIDE antigen comprising an HLA-restricted peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA Class I molecule and the HLA-restricted peptide are each selected from an HLA-PEPTIDE antigen as described in any one of SEQ ID NOs:10,755 to 29,364, and wherein the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Tables 1C.1, 1C.2, 1C.3, and 1D.

**156.** The ABP of claim 155, wherein the ABP further comprises an alpha variable ("V") segment, an alpha joining ("J") segment, a beta variable ("V") segment, a beta joining ("J") segment, optionally a beta diversity ("D") segment, and optionally a beta constant region selected from the group consisting of the regions shown in Tables 1C.1, 1C.2, 1C.3, and 1D corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

**157.** The ABP of claim 155 or 156, wherein the ABP comprises an alpha variable region and corresponding beta variable region comprising the amino acid sequences selected from the sequences shown in Tables 1A.1, 1A.2, 1A.3, and 1B corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

**158.** An antigen binding protein (ABP) that specifically binds to an HLA-PEPTIDE antigen comprising an HLA-restricted RAS peptide complexed with an HLA Class I molecule, wherein the HLA-restricted peptide is located in the peptide binding groove of an α1/α2 heterodimer portion of the HLA Class I molecule, wherein the HLA-restricted RAS peptide comprises at least one alteration that makes HLA-restricted RAS peptide sequence distinct from the corresponding peptide sequence of a wild-type RAS peptide, and wherein the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Tables 1C.1, 1C.2, 1C.3, and 1D.

**159.** The ABP of claim 158, wherein:

a. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

b. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-A*02:06;

c. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

d. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

e. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

f. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-B*48:01;

g. the restricted peptide comprises a RAS_G12A mutation, and wherein the HLA Class I molecule is HLA-C*08:03;

h. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

i. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

j. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*03:02;

k. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

l. the restricted peptide comprises a RAS_G12C mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

m. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

n. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*02:05;

o. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

p. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

q. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

r. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*26:01;

s. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

t. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

u. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

v. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

w. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*13:02;

x. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*15:01;

y. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

z. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

aa. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*37:01;

bb. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

cc. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

dd. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*40:02;

ee. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:02;

ff. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*44:03;

gg. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*48:01;

hh. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*50:01;

ii. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-B*57:01;

jj. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

kk. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*02:02;

ll. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:03;

mm. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

nn. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*04:01;

oo. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*05:01;

pp. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*07:04;

qq. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:02;

rr. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*08:03;

ss. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*16:01;

tt. the restricted peptide comprises a RAS_G12D mutation, and wherein the HLA Class I molecule is HLA-C*17:01;

uu. the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

vv. the restricted peptide comprises a RAS_G12R mutation, and wherein the HLA Class I molecule is HLA-C*07:04;

ww. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

xx. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:05;

yy. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*02:06;

zz. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

aaa. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*03:01;

bbb. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

ccc. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*11:01;

ddd. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*25:01;

eee. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*26:01;

fff. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*30:01;

ggg. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

hhh. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*31:01;

iii. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*32:01;

jjj. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-A*68:02;

kkk. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

lll. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

mmm. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*13:02;

nnn. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*14:02;

ooo. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*15:01;

ppp. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*27:05;

qqq. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*39:01;

rrr. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

sss. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*40:02;

ttt. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*41:02;

uuu. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*44:05;

vvv. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*50:01;

www. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-B*51:01;

xxx. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

yyy. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*01:02;

zzz. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:03;

aaaa. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

bbbb. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*08:02;

cccc. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*14:02;

dddd. the restricted peptide comprises a RAS_G12V mutation, and wherein the HLA Class I molecule is HLA-C*17:01;

eeee. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

ffff. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

gggg. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

hhhh. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

iiii. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:03;

jjjj. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*35:08;

kkkk. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

llll. the restricted peptide comprises a KRAS_G13D mutation, and wherein the HLA Class I molecule is HLA-C*04:01;

mmmm. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*01:01;

nnnn. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*02:01;

oooo. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*23:01;

pppp. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*29:01;

qqqq. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*30:02;

rrrr. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*33:01;

ssss. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-A*68:01;

tttt. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*07:02;

uuuu. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*08:01;

vvvv. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*18:01;

wwww. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*35:01;

xxxx. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*38:01;

yyyy. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*40:01;

zzzz. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-B*44:02;

aaaaa. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*03:04;

bbbbb. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*05:01; or

ccccc. the restricted peptide comprises a KRAS_Q61H mutation, and wherein the HLA Class I molecule is HLA-C*08:02.

**160.** The ABP of claim 158 or 159, wherein the HLA-PEPTIDE antigen is a RAS_G12C MHC Class I antigen comprising HLA-A*02:01 and the restricted peptide KLVVVGACGV.

**161.** The ABP of claim 160, wherein the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Table 1C.2.

**162.** The ABP of claim 161, wherein the ABP further comprises an alpha variable ("V") segment, an alpha joining ("J") segment, a beta variable ("V") segment, a beta joining ("J") segment, optionally a beta diversity ("D") segment, and optionally a beta constant region selected from the group consisting of the regions shown in Table 1C.2 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

**163.** The ABP of claim 161 or 162, wherein the ABP comprises an alpha variable region and corresponding beta variable region comprising the amino acid sequences selected from

the sequences shown in Table 1A.2 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

**164.** The ABP of claim 158 or 159, wherein the HLA-PEPTIDE antigen is a RAS_G12V MHC Class I antigen comprising HLA-A*11:01 and the restricted peptide VVGAVGVGK.

**165.** The ABP of claim 164, wherein the ABP comprises an alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence selected from the group consisting of the sequences shown in Table 1C.3.

**166.** The ABP of claim 165, wherein the ABP further comprises an alpha variable ("V") segment, an alpha joining ("J") segment, a beta variable ("V") segment, a beta joining ("J") segment, optionally a beta diversity ("D") segment, and optionally a beta constant region selected from the group consisting of the regions shown in Table 1C.3 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

**167.** The ABP of claim 165 or 166, wherein the ABP comprises an alpha variable region and corresponding beta variable region comprising the amino acid sequences selected from the sequences shown in Table 1A.3 corresponding to the alpha-CDR3 amino acid sequence and corresponding beta-CDR3 amino acid sequence.

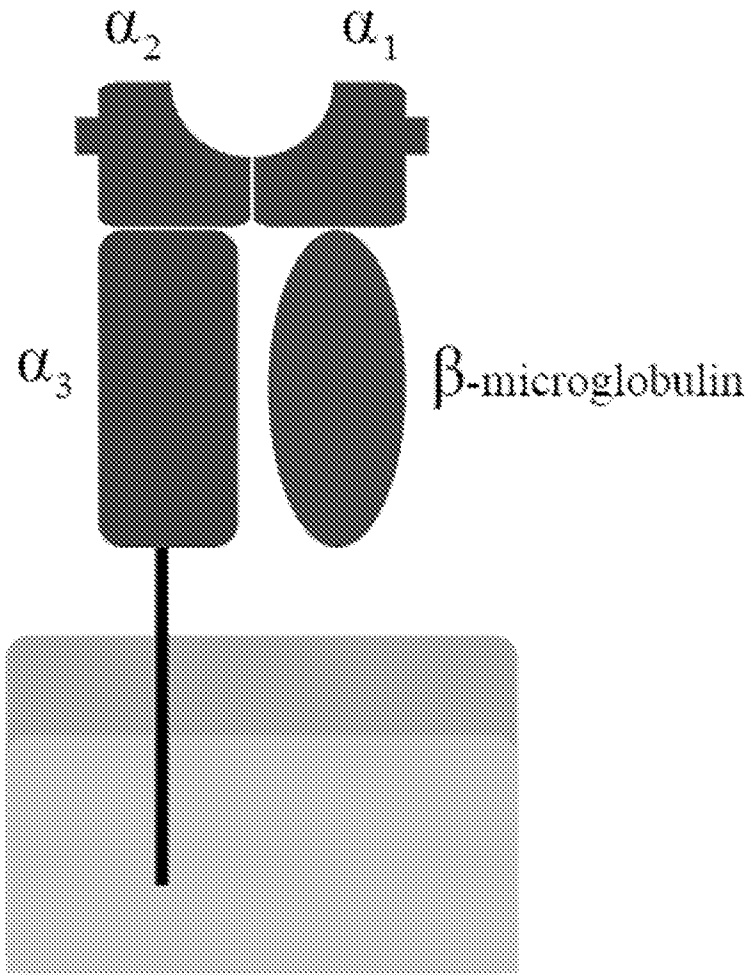



FIG. 1

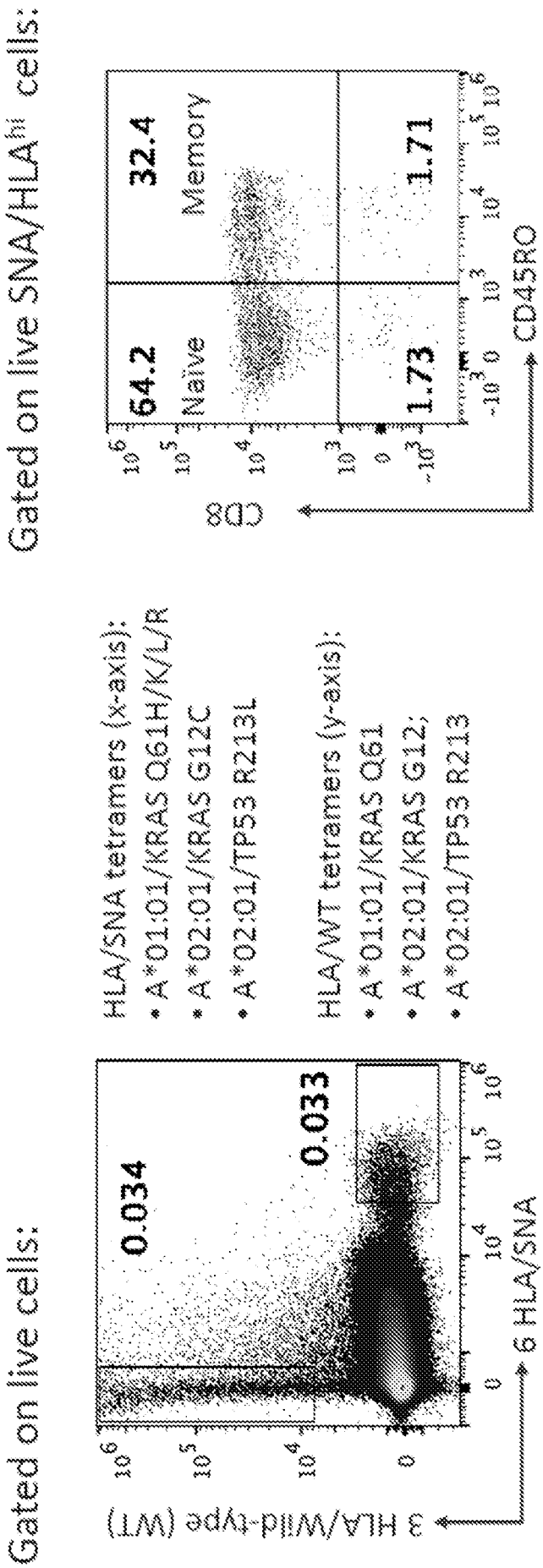

Gated on live cells:
0.034
0.033
3 HLA/Wild-type (WT)
6 HLA/SNA
HLA/SNA tetramers (x-axis):
• A*01:01/KRAS Q61H/K/L/R
• A*02:01/KRAS G12C
• A*02:01/TP53 R213L
HLA/WT tetramers (y-axis):
• A*01:01/KRAS Q61
• A*02:01/KRAS G12;
• A*02:01/TP53 R213
Gated on live SNA/HLA$^{hi}$ cells:
64.2
Naïve
32.4
Memory
1.73
1.71
CD8
CD45RO

FIG. 2

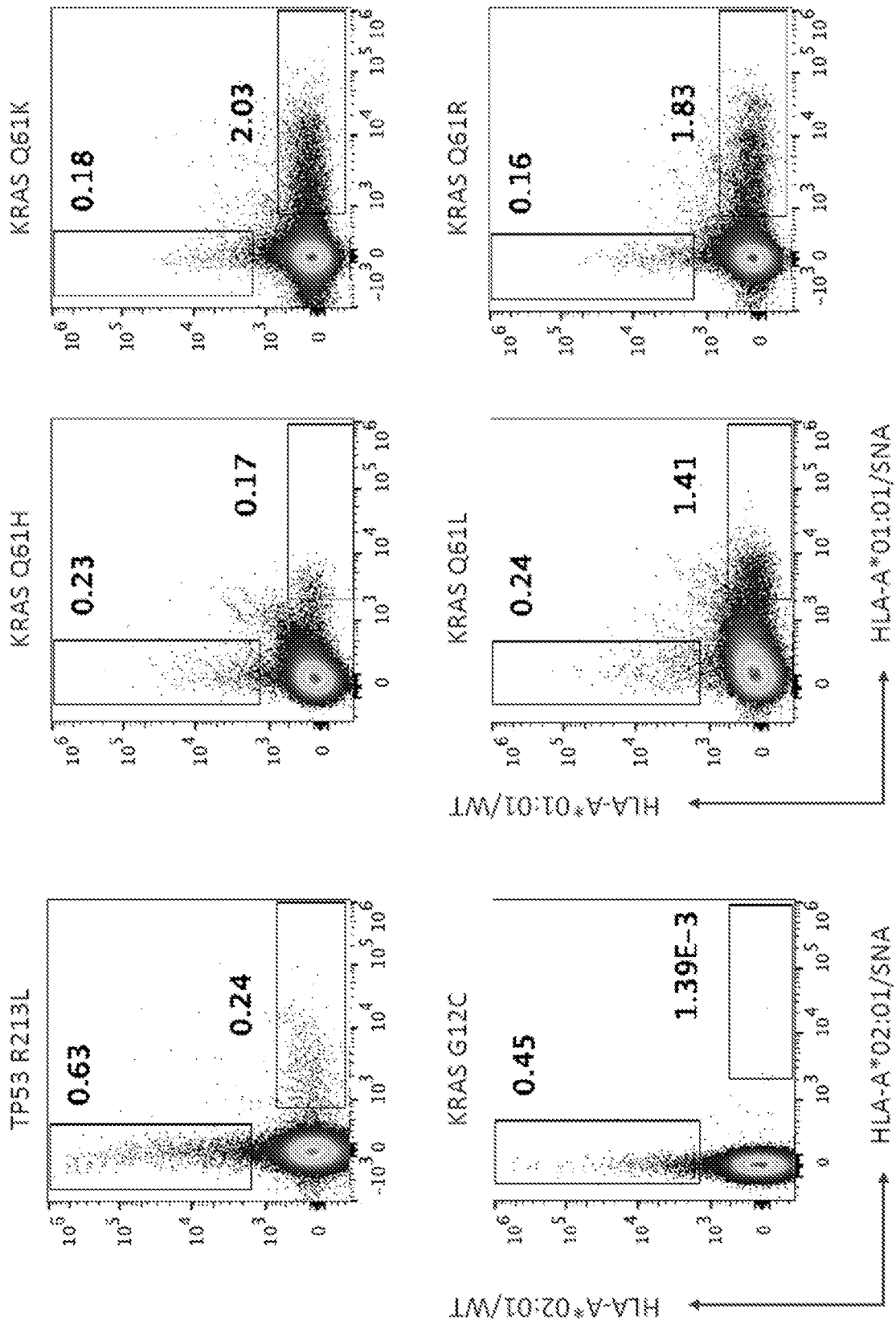

TP53 R213L
0.63
0.24
KRAS G12C
0.45
1.39E-3
KRAS Q61H
0.23
0.17
KRAS Q61L
0.24
1.41
KRAS Q61K
0.18
2.03
KRAS Q61R
0.16
1.83
HLA-A*02:01/WT
HLA-A*02:01/SNA
HLA-A*01:01/WT
HLA-A*01:01/SNA

FIG. 3A

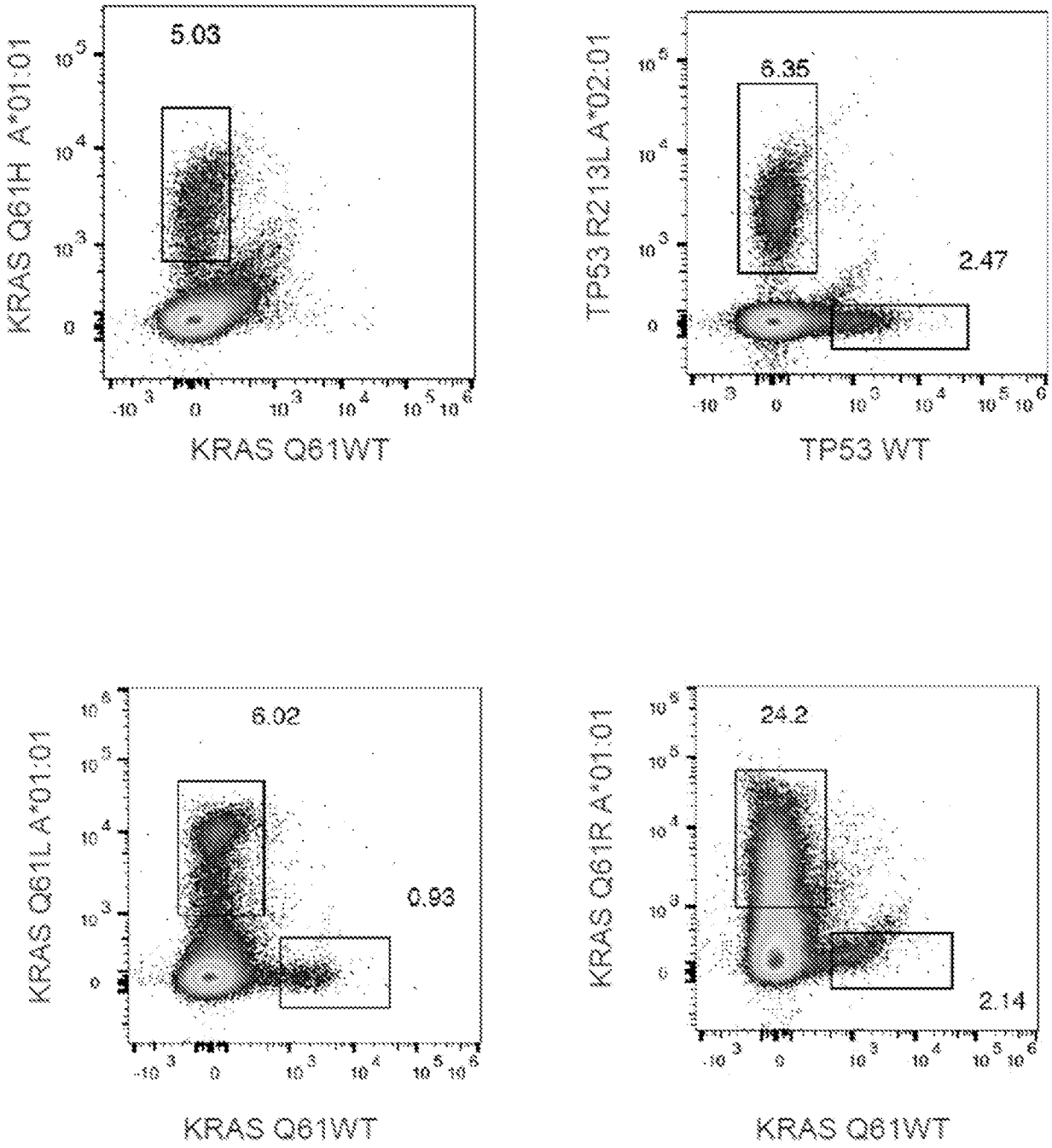

5.03
KRAS Q61H A*01:01
KRAS Q61WT
6.35
2.47
TP53 R213LA*02:01
TP53 WT
6.02
0.93
KRAS Q61LA*01:01
KRAS Q61WT
24.2
2.14
KRAS Q61RA*01:01
KRAS Q61WT

FIG. 3B

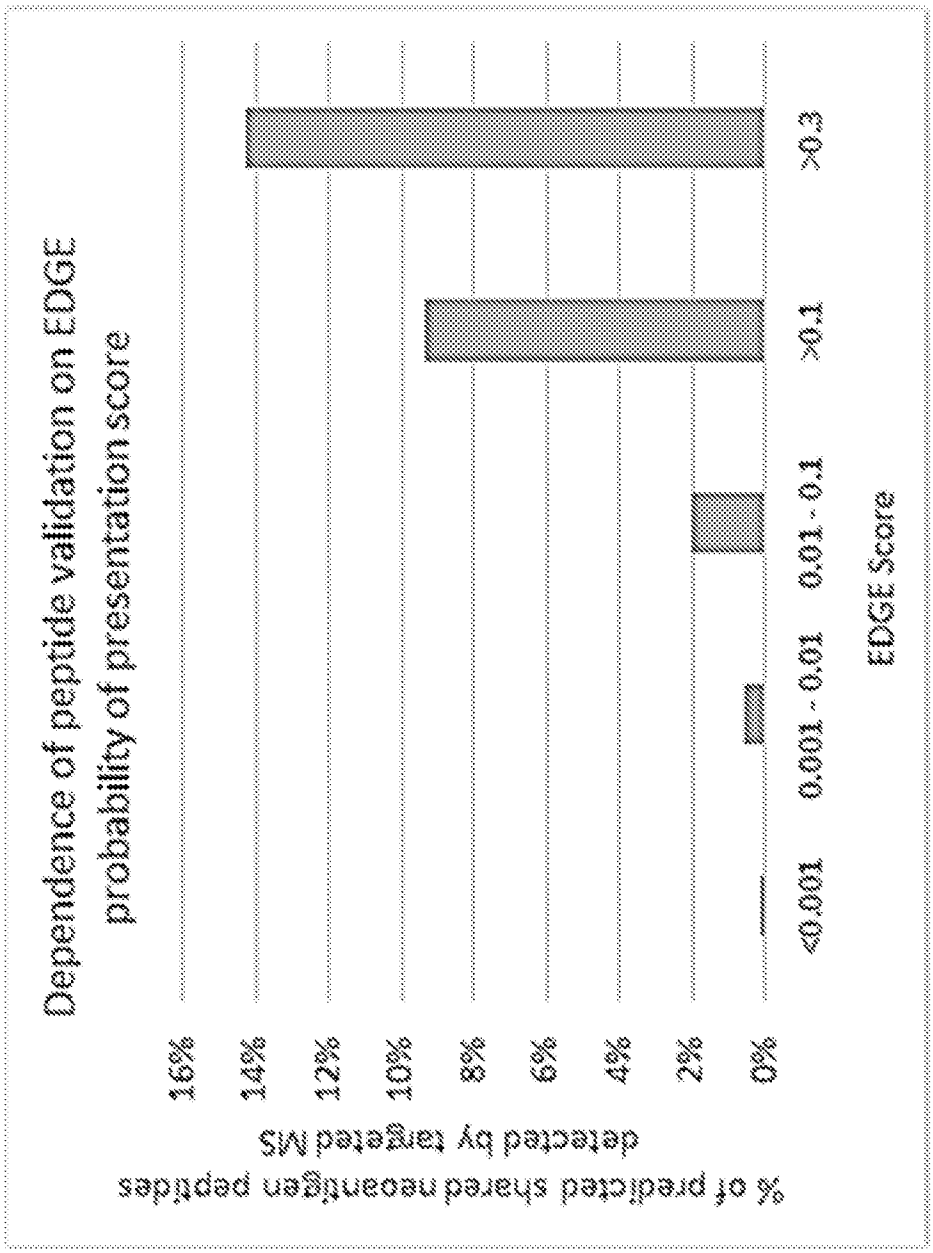

Dependence of peptide validation on EDGE
probability of presentation score
% of predicted shared neoantigen peptides
detected by targeted MS
16%
14%
12%
10%
8%
6%
4%
2%
0%
<0.001
0.001 - 0.01
0.01 - 0.1
>0.1
>0.3
EDGE Score

FIG. 4

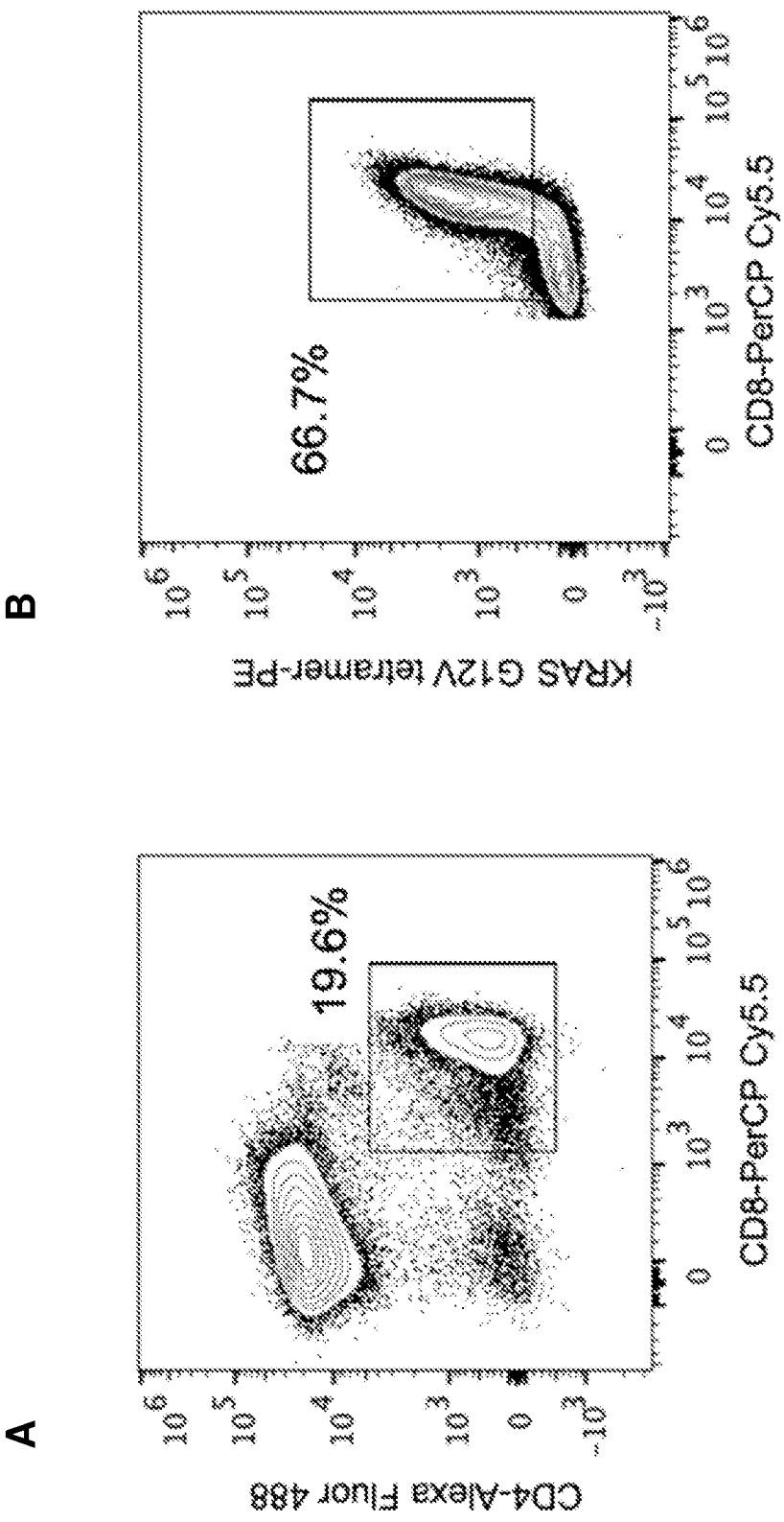

A
CD4-Alexa Fluor 488
CD8-PerCP Cy5.5
19.6%
B
KRAS G12V tetramer-PE
CD8-PerCP Cy5.5
66.7%

FIG. 5

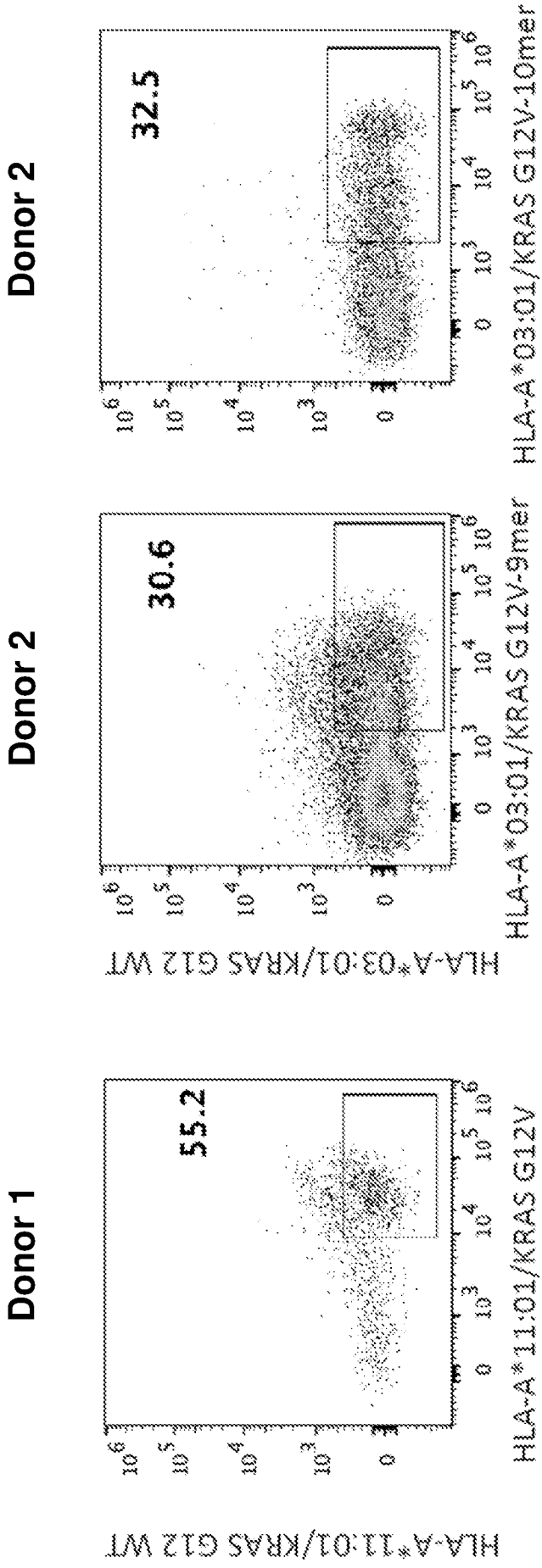

Donor 1
Donor 2
Donor 2
55.2
30.6
32.5
HLA-A*11:01/KRAS G12V
HLA-A*03:01/KRAS G12V-9mer
HLA-A*03:01/KRAS G12V-10mer
HLA-A*11:01/KRAS G12 WT
HLA-A*03:01/KRAS G12 WT

FIG. 6

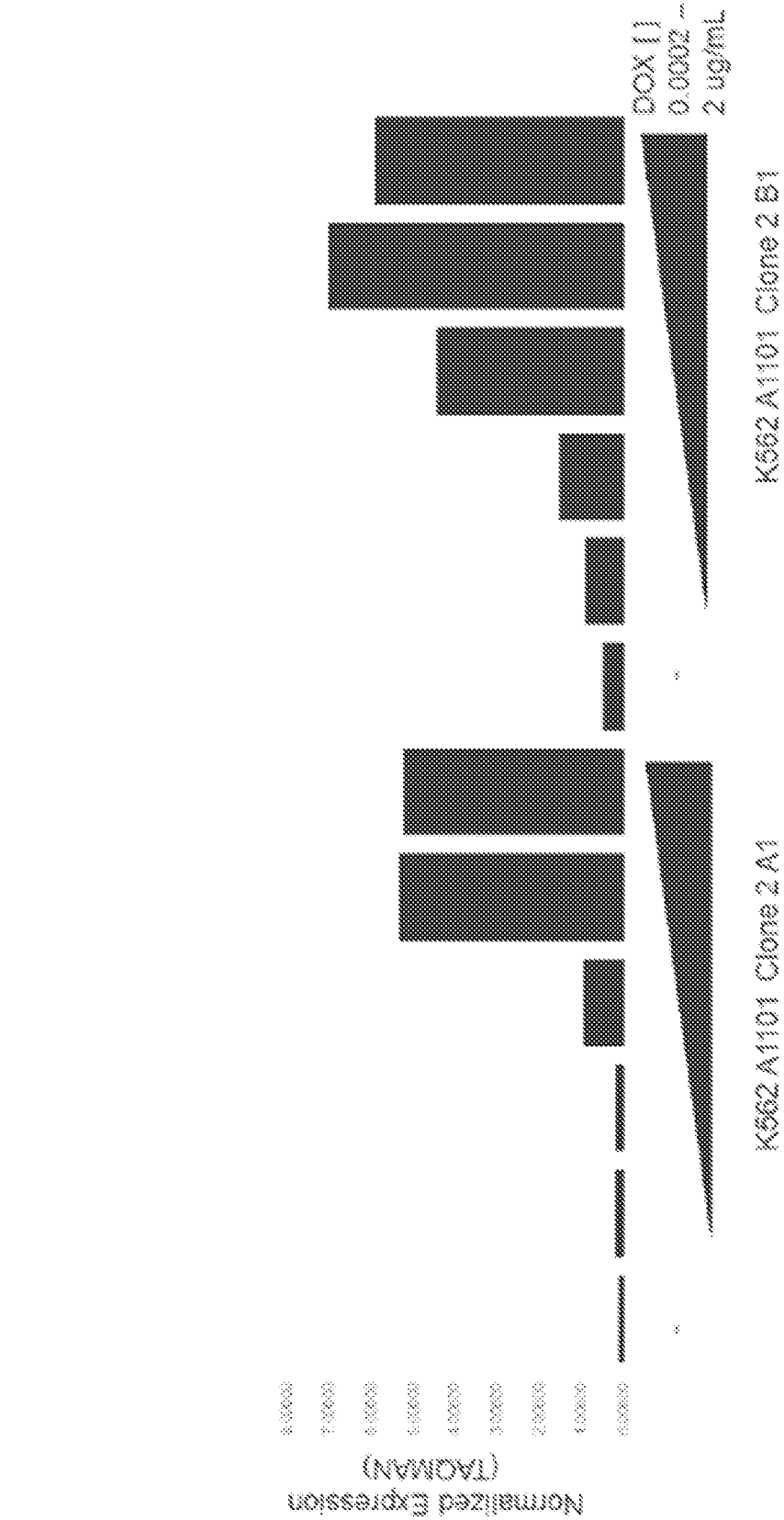

Normalized Expression
(TAQMAN)
K562 A1101 Clone 2 A1
K562 A1101 Clone 2 B1
DOX (1)
0.0002 -
2 ug/mL

FIG. 7

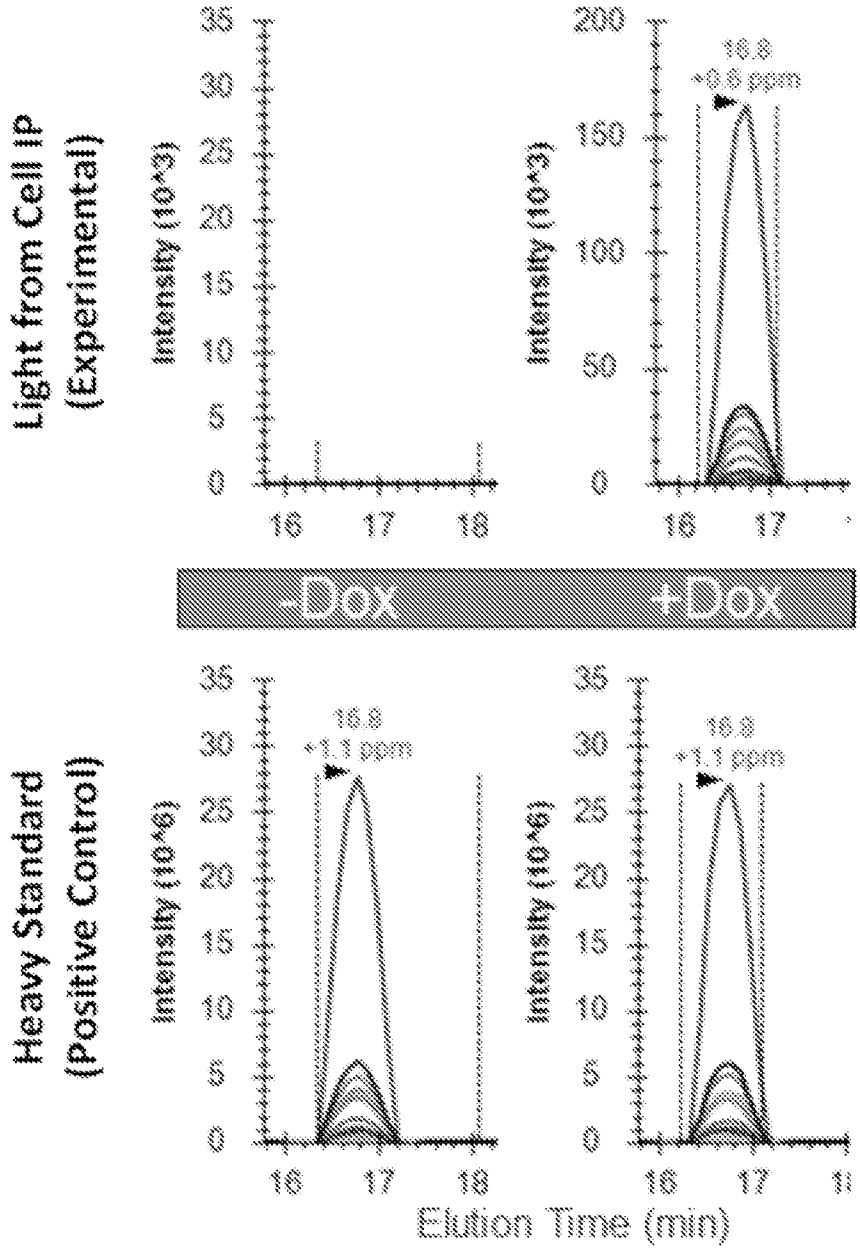

Light from Cell IP
(Experimental)
Intensity (10^3)
16.8
~0.6 ppm
-Dox
+Dox
Heavy Standard
(Positive Control)
Intensity (10^6)
16.8
~1.1 ppm
Elution Time (min)

FIG. 8

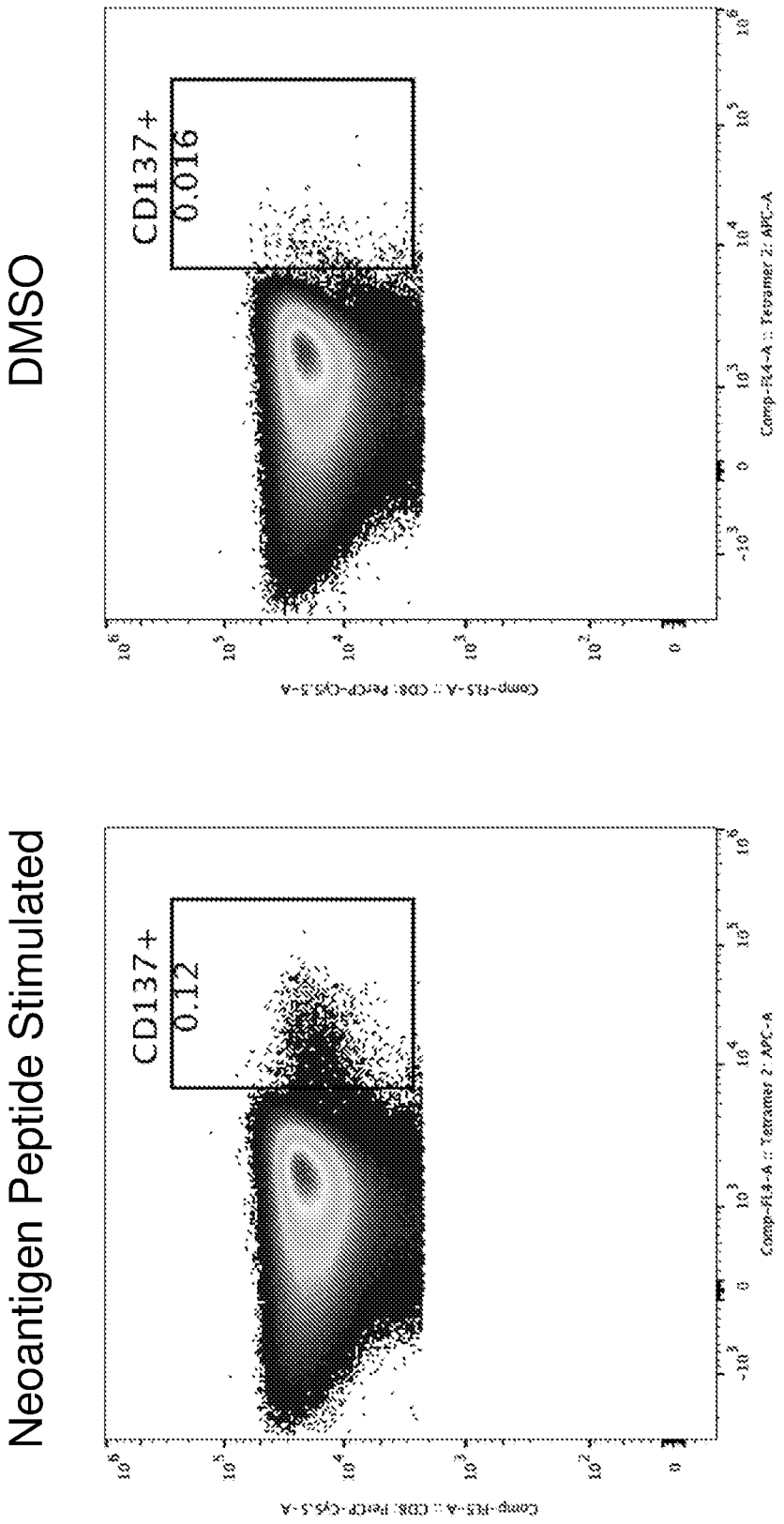



FIG. 9

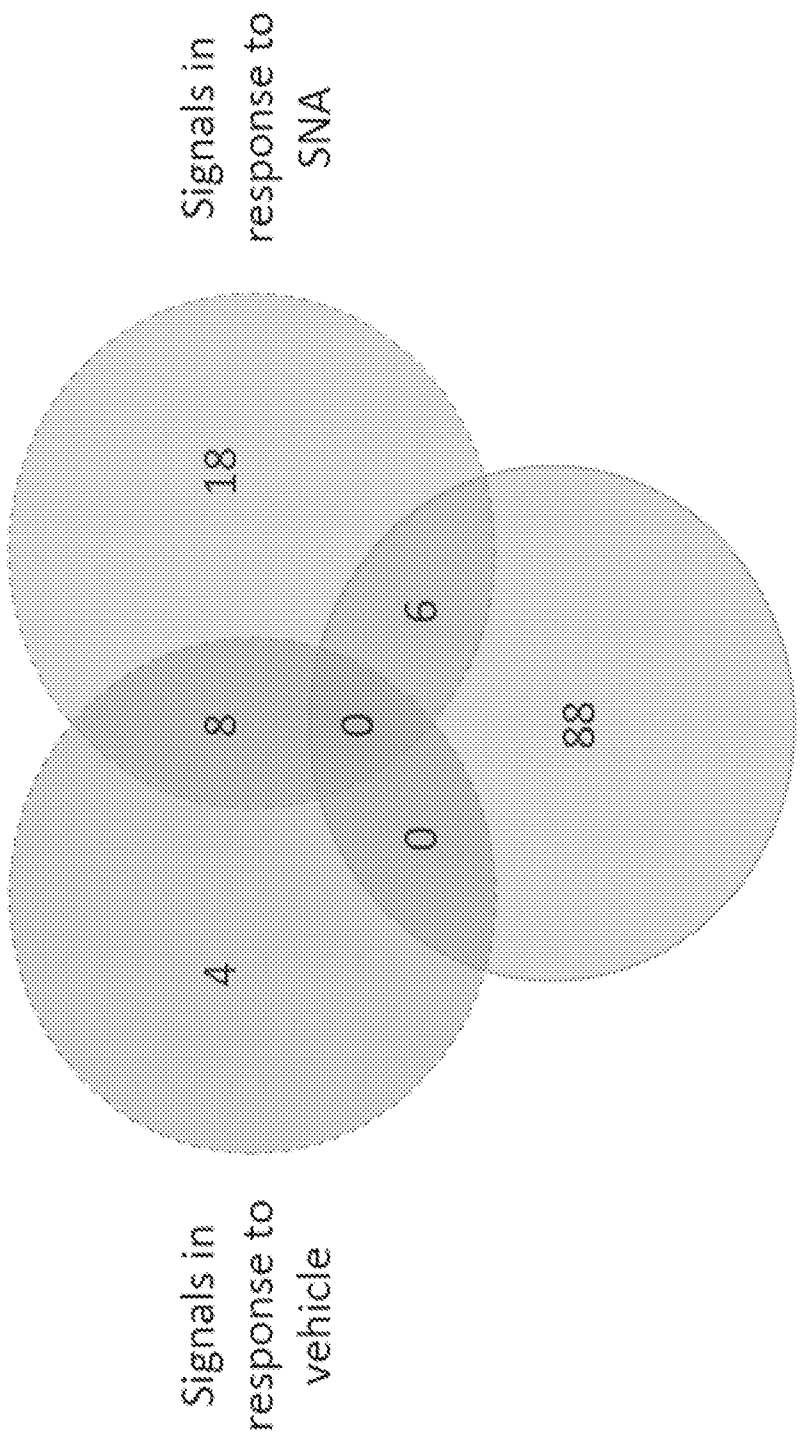

Signals in response to SNA
18
8
0
6
4
0
83
Signals in response to vehicle
Binds to HLA/SNA multimer

FIG. 10

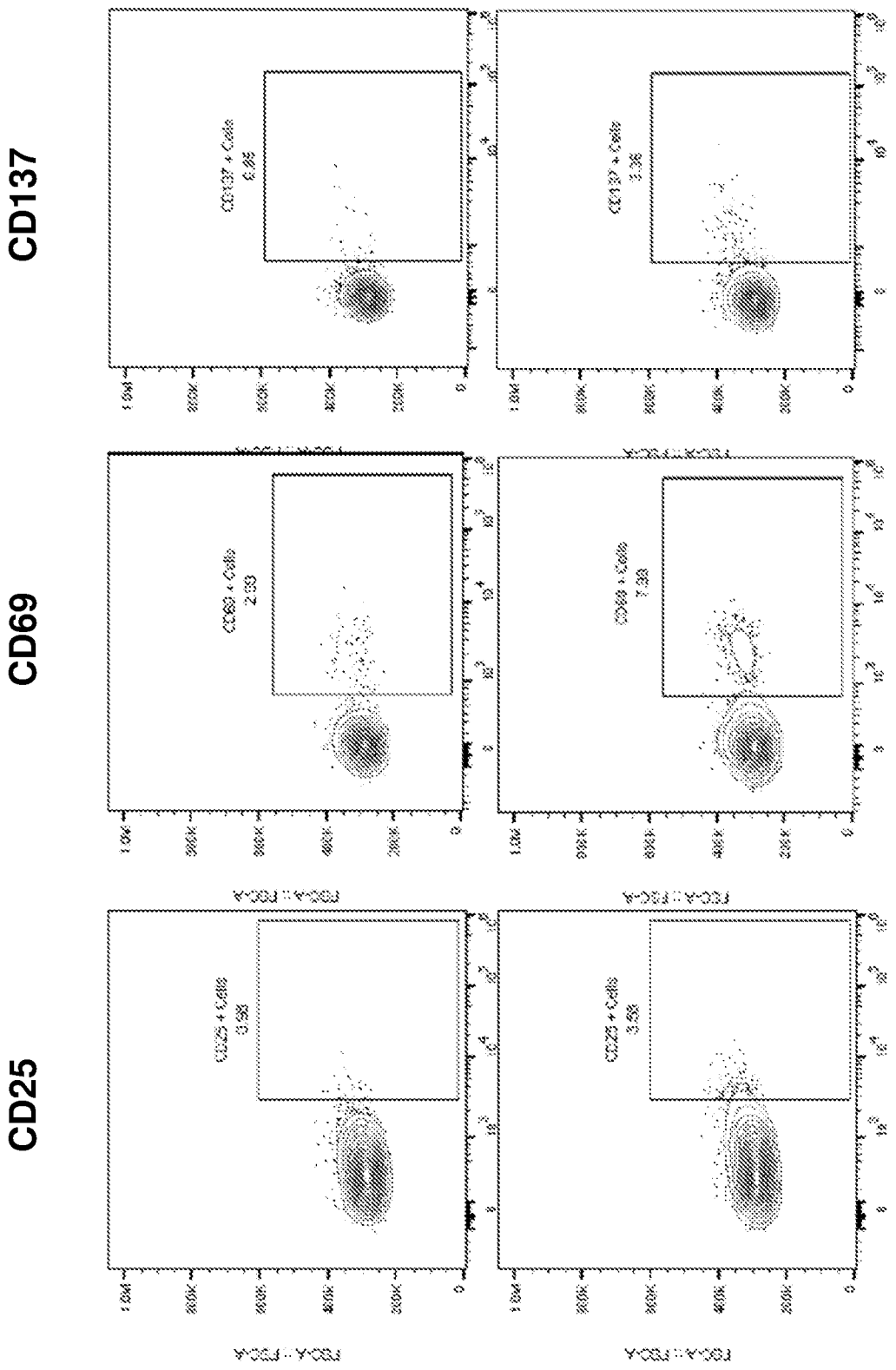

01CA019_064_F05_0047
Mutant Peptide
WT Peptide
CD25
CD69
CD137

FIG. 11A

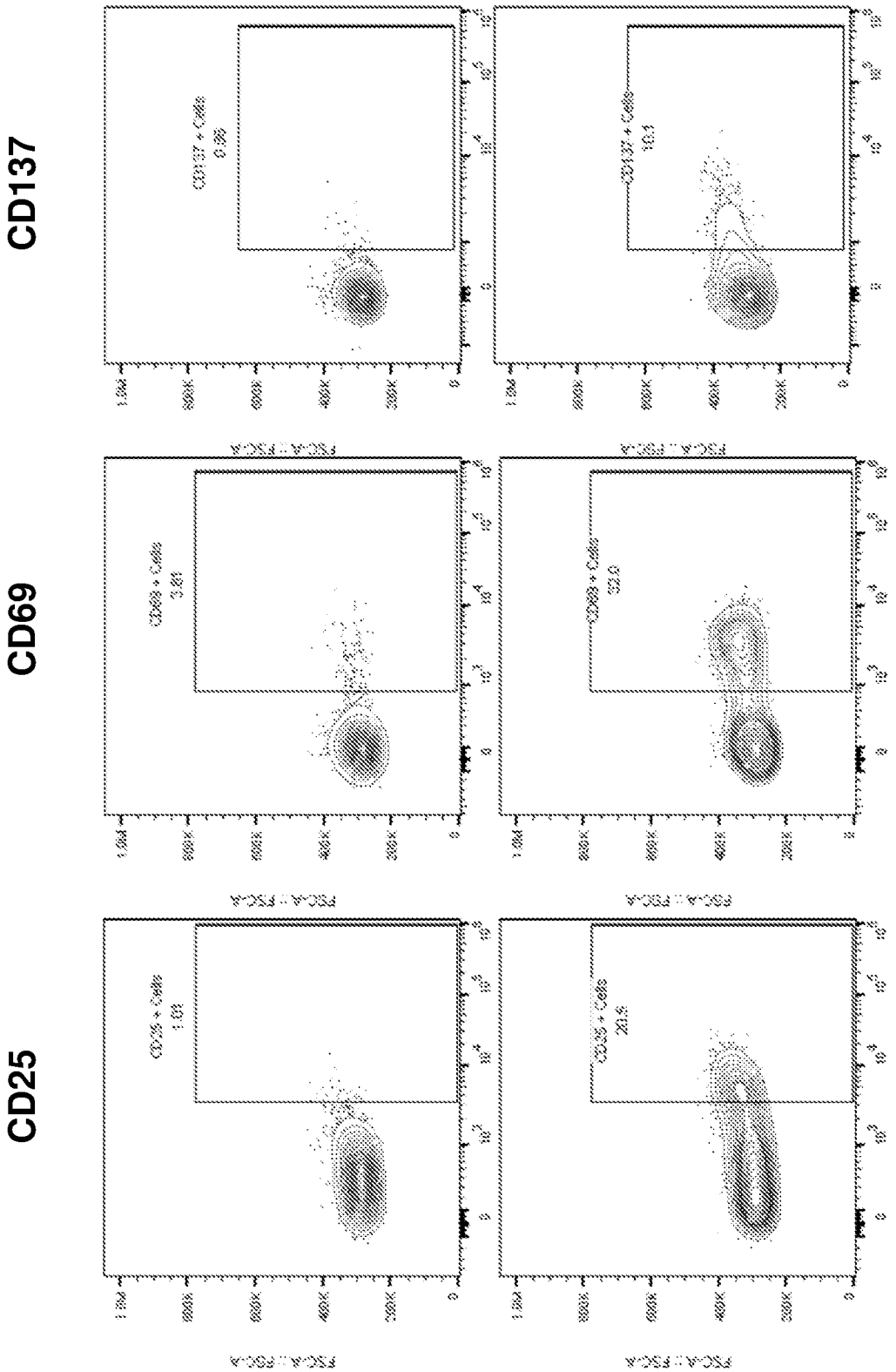

01CA019_064_F05_0005
Mutant Peptide
WT Peptide
CD25
CD69
CD137

FIG. 11B

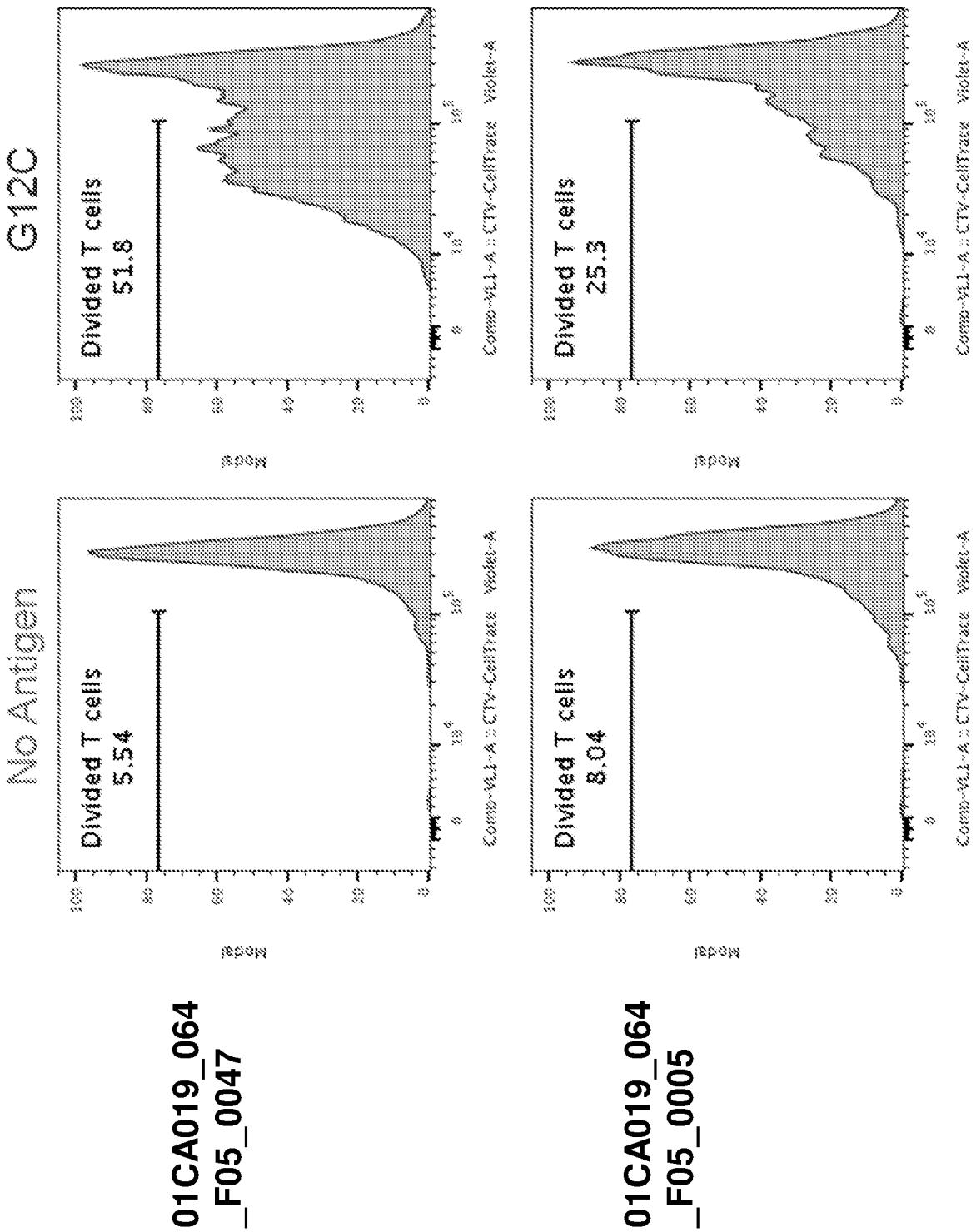

No Antigen
G12C
01CA019_064
_F05_0047
01CA019_064
_F05_0005
Divided T cells
5.54
Divided T cells
51.8
Divided T cells
8.04
Divided T cells
25.3
Comp-VL1-A :: CTV-CellTrace Violet-A
Count
Mode

FIG. 12

SEQUENCE LISTING

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<120> ANTIGEN-BINDING PROTEINS TARGETING SHARED NEOANTIGENS

<130> GSO-080WO

<140>
<141>

<150> 62/936,303
<151> 2019-11-15

<150> 63/030,774
<151> 2020-05-27

<160> 29357

<170> PatentIn version 3.5

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<211> 36519
<212> DNA
<213> Artificial Sequence

<220>
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polynucleotide

<400> 1
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aatttgggga ggaagggcgg tgattggtcg agggatgagc gaccgttagg ggcggggcga 120

gtgacgtttt gatgacgtgg ttgcgaggag gagccagttt gcaagttctc gtgggaaaag 180

tgacgtcaaa cgaggtgtgg tttgaacacg gaaatactca attttcccgc gctctctgac 240

aggaaatgag gtgtttctgg gcggatgcaa gtgaaaacgg gccattttcg cgcgaaaact 300

gaatgaggaa gtgaaaatct gagtaatttc gcgtttatgg cagggaggag tatttgccga 360

gggccgagta gactttgacc gattacgtgg gggtttcgat taccgtgttt ttcacctaaa 420

tttccgcgta cggtgtcaaa gtccggtgtt tttacgtagg tgtcagctga tcgccagggt 480

atttaaacct gcgctctcca gtcaagaggc cactcttgag tgccagcgag aagagttttc 540

tcctccgcgc cgcgagtcag atctacactt tgaaagatga ggcacctgag agacctgccc 600

gatgagaaaa tcatcatcgc ttccgggaac gagattctgg aactggtggt aaatgccatg 660

atgggcgacg accctccgga gccccccacc ccatttgaga caccttcgct gcacgatttg 720

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tgggccatca gtctcacttt aaccagagga tttcgagagc ccttgatttt actactcctg 1860

gcagaaccac tgcagcagta gccttttttg cttttattct tgacaaatgg agtcaagaaa 1920

cccatttcag cagggattac cagctggatt tcttagcagt agctttgtgg agaacatgga 1980

agtgccagcg cctgaatgca atctccggct acttgccggt acagccgcta gacactctga 2040

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ccagcgcgcg ctcgtaggga ctgaggggcg tgccccaggg catgggatgg gtaagcgcgg 6600

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<211> 139
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 16

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Arg Ala Ser Gln Ser Ile Asn Ser Tyr Leu Asp Trp Tyr Gln Gln Lys
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Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser Ser Leu Gln
        35                  40                  45


Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe
    50                  55                  60


Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr
65                  70                  75                  80


Cys Gln Gln Tyr Tyr Ser Thr Pro Phe Thr Phe Gly Pro Gly Thr Lys
                85                  90                  95


Val Glu Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro
            100                 105                 110


Pro Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu
        115                 120                 125


Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val
    130                 135


<210> 17
<211> 167
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polypeptide

<400> 17
Gly Val Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser
1               5                   10                  15


Gly Phe Thr Phe Ser Ser Tyr Gly Met His Trp Val Arg Gln Ala Pro
            20                  25                  30
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Gly Lys Gly Leu Glu Trp Val Ala Val Ile Trp Tyr Asp Gly Ser Asn
        35                  40                  45


Lys Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
    50                  55                  60


Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu
65                  70                  75                  80


Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Pro Arg Gly Ala Thr Leu
                85                  90                  95


Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val
            100                 105                 110


Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
        115                 120                 125


Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu
    130                 135                 140


Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly
145                 150                 155                 160


Ala Leu Thr Ser Gly Val His
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<210> 18
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
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<400> 18
Gly Phe Thr Phe Ser Ser Tyr Gly Met His
1               5                   10


<210> 19
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 19
Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
1 5 10 15

<210> 20
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 20
Asp Pro Arg Gly Ala Thr Leu Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val
1 5 10 15

<210> 21
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 21
Arg Ala Ser Gln Ser Ile Asn Ser Tyr Leu Asp
1 5 10

<210> 22
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 22
Ala Ala Ser Ser Leu Gln Ser
1 5

<210> 23
<211> 9

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 23
Gln Gln Tyr Tyr Ser Thr Pro Phe Thr
1 5

<210> 24
<211> 108
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 24
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Arg Val Ser Ser Ser
20 25 30

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35 40 45

Ile Tyr Asp Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Leu Pro
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 25
<211> 121
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 25
Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Glu Gly Gly Trp Phe Gly Glu Leu Ala Phe Asp Tyr Trp Gly
100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 26
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 26
Arg Tyr Trp Met Ser
1 5

<210> 27
<211> 17

<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 27
Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val Lys
1 5 10 15

Gly

<210> 28
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 28
Glu Gly Gly Trp Phe Gly Glu Leu Ala Phe Asp Tyr
1 5 10

<210> 29
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 29
Arg Ala Ser Gln Arg Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 30
<211> 7
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 30

Asp Ala Ser Ser Arg Ala Thr
1               5


<210> 31
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      peptide

<400> 31
Gln Gln Tyr Gly Ser Leu Pro Trp Thr
1               5


<210> 32
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      polynucleotide

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cagtgacacc atcgagaacg tgaaggccaa gatccaggat aaagagggca tccccctga 180

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<210> 33
<211> 619
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 33
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Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp
            20                  25                  30

Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys
        35                  40                  45

Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu
    50                  55                  60

Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Ala Met Phe Gln Ala
65                  70                  75                  80

Leu Ser Glu Gly Cys Thr Pro Tyr Asp Ile Asn Gln Met Leu Asn Val
                85                  90                  95

Leu Gly Asp His Gln Val Ser Gly Leu Glu Gln Leu Glu Ser Ile Ile
            100                 105                 110

Asn Phe Glu Lys Leu Thr Glu Trp Thr Ser Ser Asn Val Met Pro Ile
        115                 120                 125

Leu Ser Pro Leu Thr Lys Gly Ile Leu Gly Phe Val Phe Thr Leu Thr
    130                 135                 140

Val Pro Ser Glu Arg Gly Leu Ser Cys Ile Ser Glu Ala Asp Ala Thr
145                 150                 155                 160

Thr Pro Glu Ser Ala Asn Leu Gly Glu Glu Ile Leu Ser Gln Leu Tyr
                165                 170                 175

Leu Trp Pro Arg Val Thr Tyr His Ser Pro Ser Tyr Ala Tyr His Gln
            180                 185                 190

Phe Glu Arg Arg Ala Lys Tyr Lys Arg His Phe Pro Gly Phe Gly Gln
        195                 200                 205

Ser Leu Leu Phe Gly Tyr Pro Val Tyr Val Phe Gly Asp Cys Val Gln
    210                 215                 220
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Gly Asp Trp Asp Ala Ile Arg Phe Arg Tyr Cys Ala Pro Pro Gly Tyr
225                 230                 235                 240

Ala Leu Leu Arg Cys Asn Asp Thr Asn Tyr Ser Ala Leu Leu Ala Val
                245                 250                 255

Gly Ala Leu Glu Gly Pro Arg Asn Gln Asp Trp Leu Gly Val Pro Arg
            260                 265                 270

Gln Leu Val Thr Arg Met Gln Ala Ile Gln Asn Ala Gly Leu Cys Thr
        275                 280                 285

Leu Val Ala Met Leu Glu Glu Thr Ile Phe Trp Leu Gln Ala Phe Leu
    290                 295                 300

Met Ala Leu Thr Asp Ser Gly Pro Lys Thr Asn Ile Ile Val Asp Ser
305                 310                 315                 320

Gln Tyr Val Met Gly Ile Ser Lys Pro Ser Phe Gln Glu Phe Val Asp
                325                 330                 335

Trp Glu Asn Val Ser Pro Glu Leu Asn Ser Thr Asp Gln Pro Phe Trp
            340                 345                 350

Gln Ala Gly Ile Leu Ala Arg Asn Leu Val Pro Met Val Ala Thr Val
        355                 360                 365

Gln Gly Gln Asn Leu Lys Tyr Gln Gly Gln Ser Leu Val Ile Ser Ala
    370                 375                 380

Ser Ile Ile Val Phe Asn Leu Leu Glu Leu Glu Gly Asp Tyr Arg Asp
385                 390                 395                 400

Asp Gly Asn Val Trp Val His Thr Pro Leu Ser Pro Arg Thr Leu Asn
                405                 410                 415

Ala Trp Val Lys Ala Val Glu Glu Lys Lys Gly Ile Pro Val His Leu
            420                 425                 430

Glu Leu Ala Ser Met Thr Asn Met Glu Leu Met Ser Ser Ile Val His
```

435 440 445

Gln Gln Val Arg Thr Tyr Gly Pro Val Phe Met Cys Leu Gly Gly Leu
450 455 460

Leu Thr Met Val Ala Gly Ala Val Trp Leu Thr Val Arg Val Leu Glu
465 470 475 480

Leu Phe Arg Ala Ala Gln Leu Ala Asn Asp Val Val Leu Gln Ile Met
485 490 495

Glu Leu Cys Gly Ala Ala Phe Arg Gln Val Cys His Thr Thr Val Pro
500 505 510

Trp Pro Asn Ala Ser Leu Thr Pro Lys Trp Asn Asn Glu Thr Thr Gln
515 520 525

Pro Gln Ile Ala Asn Cys Ser Val Tyr Asp Phe Phe Val Trp Leu His
530 535 540

Tyr Tyr Ser Val Arg Asp Thr Leu Trp Pro Arg Val Thr Tyr His Met
545 550 555 560

Asn Lys Tyr Ala Tyr His Met Leu Glu Arg Arg Ala Lys Tyr Lys Arg
565 570 575

Gly Pro Gly Pro Gly Ala Lys Phe Val Ala Ala Trp Thr Leu Lys Ala
580 585 590

Ala Ala Gly Pro Gly Pro Gly Gln Tyr Ile Lys Ala Asn Ser Lys Phe
595 600 605

Ile Gly Ile Thr Glu Leu Gly Pro Gly Pro Gly
610 615

<210> 34
<211> 1638
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

polynucleotide

<400> 34

atggccggga tgttccaggc actgtccgaa ggctgcacac cctatgatat taaccagatg 60

ctgaatgtcc tgggagacca ccaggtctct ggcctggagc agctggagag catcatcaac 120

ttcgagaagc tgaccgagtg gacaagctcc aatgtgatgc ctatcctgtc cccactgacc 180

aagggcatcc tgggcttcgt gtttaccctg acagtgcctt ctgagcgggg cctgtcttgc 240

atcagcgagg cagacgcaac cacaccagag tccgccaatc tgggcgagga gatcctgtct 300

cagctgtacc tgtggccccg ggtgacatat cactcccctt cttacgccta tcaccagttc 360

gagcggagag ccaagtacaa gagacacttc ccaggctttg gccagtctct gctgttcggc 420

taccccgtgt acgtgttcgg cgattgcgtg cagggcgact gggatgccat ccggtttaga 480

tactgcgcac cacctggata tgcactgctg aggtgtaacg acaccaatta ttccgccctg 540

ctggcagtgg gcgccctgga gggccctcgc aatcaggatt ggctgggcgt gccaaggcag 600

ctggtgacac gcatgcaggc catccagaac gcaggcctgt gcaccctggt ggcaatgctg 660

gaggagacaa tcttctggct gcaggccttt ctgatggccc tgaccgacag cggccccaag 720

acaaacatca tcgtggattc ccagtacgtg atgggcatct ccaagccttc tttccaggag 780

tttgtggact gggagaacgt gagcccagag ctgaattcca ccgatcagcc attctggcag 840

gcaggaatcc tggcaaggaa cctggtgcct atggtggcca cagtgcaggg ccagaatctg 900

aagtaccagg gccagagcct ggtcatcagc gcctccatca tcgtgtttaa cctgctggag 960

ctggagggcg actatcggga cgatggcaac gtgtgggtgc acaccccact gagccccaga 1020

acactgaacg cctgggtgaa ggccgtggag gagaagaagg gcatcccagt gcacctggag 1080

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ctgacagtgc gggtgctgga gctgttcaga gccgcccagc tggccaacga tgtggtgctg 1260

cagatcatgg agctgtgcgg agcagccttt cgccaggtgt gccacaccac agtgccatgg 1320

cccaatgcct ccctgacccc caagtggaac aatgagacaa cacagcctca gatcgccaac 1380

tgtagcgtgt acgacttctt cgtgtggctg cactactata gcgtgaggga taccctgtgg 1440

ccccgcgtga cataccacat gaataagtac gcctatcaca tgctggagag gcgcgccaag 1500

tataagagag gccctggccc aggcgcaaag tttgtggcag catggaccct gaaggccgcc 1560

gccggccccg gccccggcca gtatatcaag gctaacagta agttcattgg aatcacagag 1620

ctgggacccg gacctgga 1638

<210> 35
<211> 546
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polypeptide

<400> 35
Met Ala Gly Met Phe Gln Ala Leu Ser Glu Gly Cys Thr Pro Tyr Asp
1 5 10 15

Ile Asn Gln Met Leu Asn Val Leu Gly Asp His Gln Val Ser Gly Leu
20 25 30

Glu Gln Leu Glu Ser Ile Ile Asn Phe Glu Lys Leu Thr Glu Trp Thr
35 40 45

Ser Ser Asn Val Met Pro Ile Leu Ser Pro Leu Thr Lys Gly Ile Leu
50 55 60

Gly Phe Val Phe Thr Leu Thr Val Pro Ser Glu Arg Gly Leu Ser Cys
65 70 75 80

Ile Ser Glu Ala Asp Ala Thr Thr Pro Glu Ser Ala Asn Leu Gly Glu
85 90 95

Glu Ile Leu Ser Gln Leu Tyr Leu Trp Pro Arg Val Thr Tyr His Ser
100 105 110

Pro Ser Tyr Ala Tyr His Gln Phe Glu Arg Arg Ala Lys Tyr Lys Arg
115 120 125

His Phe Pro Gly Phe Gly Gln Ser Leu Leu Phe Gly Tyr Pro Val Tyr
130 135 140

Val Phe Gly Asp Cys Val Gln Gly Asp Trp Asp Ala Ile Arg Phe Arg
145 150 155 160

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Tyr Cys Ala Pro Pro Gly Tyr Ala Leu Leu Arg Cys Asn Asp Thr Asn
                165                 170                 175

Tyr Ser Ala Leu Leu Ala Val Gly Ala Leu Glu Gly Pro Arg Asn Gln
            180                 185                 190

Asp Trp Leu Gly Val Pro Arg Gln Leu Val Thr Arg Met Gln Ala Ile
        195                 200                 205

Gln Asn Ala Gly Leu Cys Thr Leu Val Ala Met Leu Glu Glu Thr Ile
    210                 215                 220

Phe Trp Leu Gln Ala Phe Leu Met Ala Leu Thr Asp Ser Gly Pro Lys
225                 230                 235                 240

Thr Asn Ile Ile Val Asp Ser Gln Tyr Val Met Gly Ile Ser Lys Pro
                245                 250                 255

Ser Phe Gln Glu Phe Val Asp Trp Glu Asn Val Ser Pro Glu Leu Asn
            260                 265                 270

Ser Thr Asp Gln Pro Phe Trp Gln Ala Gly Ile Leu Ala Arg Asn Leu
        275                 280                 285

Val Pro Met Val Ala Thr Val Gln Gly Gln Asn Leu Lys Tyr Gln Gly
    290                 295                 300

Gln Ser Leu Val Ile Ser Ala Ser Ile Ile Val Phe Asn Leu Leu Glu
305                 310                 315                 320

Leu Glu Gly Asp Tyr Arg Asp Asp Gly Asn Val Trp Val His Thr Pro
                325                 330                 335

Leu Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Ala Val Glu Glu Lys
            340                 345                 350

Lys Gly Ile Pro Val His Leu Glu Leu Ala Ser Met Thr Asn Met Glu
        355                 360                 365
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Leu Met Ser Ser Ile Val His Gln Gln Val Arg Thr Tyr Gly Pro Val
    370                 375                 380

Phe Met Cys Leu Gly Gly Leu Leu Thr Met Val Ala Gly Ala Val Trp
385                 390                 395                 400

Leu Thr Val Arg Val Leu Glu Leu Phe Arg Ala Ala Gln Leu Ala Asn
                405                 410                 415

Asp Val Val Leu Gln Ile Met Glu Leu Cys Gly Ala Ala Phe Arg Gln
            420                 425                 430

Val Cys His Thr Thr Val Pro Trp Pro Asn Ala Ser Leu Thr Pro Lys
        435                 440                 445

Trp Asn Asn Glu Thr Thr Gln Pro Gln Ile Ala Asn Cys Ser Val Tyr
    450                 455                 460

Asp Phe Phe Val Trp Leu His Tyr Tyr Ser Val Arg Asp Thr Leu Trp
465                 470                 475                 480

Pro Arg Val Thr Tyr His Met Asn Lys Tyr Ala Tyr His Met Leu Glu
                485                 490                 495

Arg Arg Ala Lys Tyr Lys Arg Gly Pro Gly Pro Gly Ala Lys Phe Val
            500                 505                 510

Ala Ala Trp Thr Leu Lys Ala Ala Ala Gly Pro Gly Pro Gly Gln Tyr
        515                 520                 525

Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Gly Pro Gly
    530                 535                 540

Pro Gly
545
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<210> 36
<211> 2019
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 36
gcccgggcat ttaaatgcga tcgcatcgat tacgactcta gaatagtcta gtccgcaggc 60

caccatgcag atcttcgtga agaccctgac cggcaagacc atcaccctag aggtggagcc 120

cagtgacacc atcgagaacg tgaaggccaa gatccaggat aaagagggca tccccctga 180

ccagcagagg ctgatctttg ccggcaagca gctggaagat ggccgcaccc tctctgatta 240

caacatccag aaggagtcaa ccctgcacct ggtccttcgc ctgagaggtg ccatgtttca 300

ggcgctgagc gaaggctgca ccccgtatga tattaaccag atgctgaacg tgctgggcga 360

tcatcagttt aagcacatca aagcctttga ccggacattt gctaacaacc caggtcccat 420

ggttgtgttt gccacacctg ggcctatcct gtctcctctg acaaagggca tcctgggctt 480

cgtgtttacc ctgaccgtgc cttctgagag aggacttagc tgcattagcg aagcggatgc 540

gaccaccccg gaaagcgcga acctgggcga agaaattctg agccagctgt atctttggcc 600

aagggtgacc taccattccc ctagttatgc ttaccaccaa tttgaaagac gagccaaata 660

taaaagacac ttccccggct ttggccagag cctgctgttt ggctaccctg tgtacgtgtt 720

cggcgattgc gtgcagggcg attgggatgc gattcgcttt cgctattgcg cgccgccggg 780

ctatgcgctg ctgcgctgca acgataccaa ctatagcgct ctgctggctg tgggggccct 840

agaaggaccc aggaatcagg actggcttgg tgtcccaaga caacttgtaa ctcggatgca 900

ggctattcag aatgccggcc tgtgtaccct ggtggccatg ctggaagaga caatcttctg 960

gctgcaagcg tttctgatgg cgctgaccga tagcggcccg aaaaccaaca ttattgtgga 1020

tagccagtat gtgatgggca ttagcaaacc gagctttcag gaatttgtgg attgggaaaa 1080

cgtgagcccg gaactgaaca gcaccgatca gccgttttgg caagccggaa tcctggccag 1140

aaatctggtg cctatggtgg ccacagtgca gggccagaac ctgaagtacc agggtcagtc 1200

actagtcatc tctgcttcta tcattgtctt caacctgctg gaactggaag gtgattatcg 1260

agatgatggc aacgtgtggg tgcatacccc gctgagcccg cgcaccctga acgcgtgggt 1320

gaaagcggtg gaagaaaaaa aaggtattcc agttcaccta gagctggcca gtatgaccaa 1380

catggagctc atgagcagta ttgtgcatca gcaggtcaga acatacggcc ccgtgttcat 1440

gtgtctcggc ggactgctta caatggtggc tggtgctgtg tggctgacag tgcgagtgct 1500

cgagctgttc cgggccgcgc agctggccaa cgacgtggtc ctccagatca tggagctttg 1560

tggtgcagcg tttcgccagg tgtgccatac caccgtgccg tggccgaacg cgagcctgac 1620

cccgaaatgg aacaacgaaa ccacccagcc ccagatcgcc aactgcagcg tgtatgactt 1680

ttttgtgtgg ctccattatt attctgttcg agacacactt tggccaaggg tgacctacca 1740

tatgaacaaa tatgcgtatc atatgctgga aagacgagcc aaatataaaa gaggaccagg 1800

acctggcgct aaatttgtgg ccgcctggac actgaaagcc gctgctggtc ctggacctgg 1860

ccagtacatc aaggccaaca gcaagttcat cggcatcacc gaactcggac ccggaccagg 1920

ctgatgattt cgaaatttaa ataagcttgc ggccgctagg gataacaggg taattatcac 1980

gcccaaacat ttacagccgc ggtgtcaaaa accgcgtgg 2019

<210> 37
<211> 619
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polypeptide

<400> 37
Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu
1 5 10 15

Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp
20 25 30

Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys
35 40 45

Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu
50 55 60

Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Ala Met Phe Gln Ala
65 70 75 80

Leu Ser Glu Gly Cys Thr Pro Tyr Asp Ile Asn Gln Met Leu Asn Val
85 90 95

Leu Gly Asp His Gln Phe Lys His Ile Lys Ala Phe Asp Arg Thr Phe

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            100                 105                 110

Ala Asn Asn Pro Gly Pro Met Val Val Phe Ala Thr Pro Gly Pro Ile
        115                 120                 125

Leu Ser Pro Leu Thr Lys Gly Ile Leu Gly Phe Val Phe Thr Leu Thr
    130                 135                 140

Val Pro Ser Glu Arg Gly Leu Ser Cys Ile Ser Glu Ala Asp Ala Thr
145                 150                 155                 160

Thr Pro Glu Ser Ala Asn Leu Gly Glu Glu Ile Leu Ser Gln Leu Tyr
                165                 170                 175

Leu Trp Pro Arg Val Thr Tyr His Ser Pro Ser Tyr Ala Tyr His Gln
            180                 185                 190

Phe Glu Arg Arg Ala Lys Tyr Lys Arg His Phe Pro Gly Phe Gly Gln
        195                 200                 205

Ser Leu Leu Phe Gly Tyr Pro Val Tyr Val Phe Gly Asp Cys Val Gln
    210                 215                 220

Gly Asp Trp Asp Ala Ile Arg Phe Arg Tyr Cys Ala Pro Pro Gly Tyr
225                 230                 235                 240

Ala Leu Leu Arg Cys Asn Asp Thr Asn Tyr Ser Ala Leu Leu Ala Val
                245                 250                 255

Gly Ala Leu Glu Gly Pro Arg Asn Gln Asp Trp Leu Gly Val Pro Arg
            260                 265                 270

Gln Leu Val Thr Arg Met Gln Ala Ile Gln Asn Ala Gly Leu Cys Thr
        275                 280                 285

Leu Val Ala Met Leu Glu Glu Thr Ile Phe Trp Leu Gln Ala Phe Leu
    290                 295                 300

Met Ala Leu Thr Asp Ser Gly Pro Lys Thr Asn Ile Ile Val Asp Ser
305                 310                 315                 320
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Gln Tyr Val Met Gly Ile Ser Lys Pro Ser Phe Gln Glu Phe Val Asp
                325                 330                 335

Trp Glu Asn Val Ser Pro Glu Leu Asn Ser Thr Asp Gln Pro Phe Trp
            340                 345                 350

Gln Ala Gly Ile Leu Ala Arg Asn Leu Val Pro Met Val Ala Thr Val
        355                 360                 365

Gln Gly Gln Asn Leu Lys Tyr Gln Gly Gln Ser Leu Val Ile Ser Ala
    370                 375                 380

Ser Ile Ile Val Phe Asn Leu Leu Glu Leu Glu Gly Asp Tyr Arg Asp
385                 390                 395                 400

Asp Gly Asn Val Trp Val His Thr Pro Leu Ser Pro Arg Thr Leu Asn
                405                 410                 415

Ala Trp Val Lys Ala Val Glu Glu Lys Lys Gly Ile Pro Val His Leu
            420                 425                 430

Glu Leu Ala Ser Met Thr Asn Met Glu Leu Met Ser Ser Ile Val His
        435                 440                 445

Gln Gln Val Arg Thr Tyr Gly Pro Val Phe Met Cys Leu Gly Gly Leu
    450                 455                 460

Leu Thr Met Val Ala Gly Ala Val Trp Leu Thr Val Arg Val Leu Glu
465                 470                 475                 480

Leu Phe Arg Ala Ala Gln Leu Ala Asn Asp Val Val Leu Gln Ile Met
                485                 490                 495

Glu Leu Cys Gly Ala Ala Phe Arg Gln Val Cys His Thr Thr Val Pro
            500                 505                 510

Trp Pro Asn Ala Ser Leu Thr Pro Lys Trp Asn Asn Glu Thr Thr Gln
        515                 520                 525

Pro Gln Ile Ala Asn Cys Ser Val Tyr Asp Phe Phe Val Trp Leu His
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530 535 540

Tyr Tyr Ser Val Arg Asp Thr Leu Trp Pro Arg Val Thr Tyr His Met
545 550 555 560

Asn Lys Tyr Ala Tyr His Met Leu Glu Arg Arg Ala Lys Tyr Lys Arg
565 570 575

Gly Pro Gly Pro Gly Ala Lys Phe Val Ala Ala Trp Thr Leu Lys Ala
580 585 590

Ala Ala Gly Pro Gly Pro Gly Gln Tyr Ile Lys Ala Asn Ser Lys Phe
595 600 605

Ile Gly Ile Thr Glu Leu Gly Pro Gly Pro Gly
610 615

<210> 38
<211> 228
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 38
atgcagatct tcgtgaagac cctgaccggc aagaccatca ccctagaggt ggagcccagt 60

gacaccatcg agaacgtgaa ggccaagatc caggataaag agggcatccc ccctgaccag 120

cagaggctga tctttgccgg caagcagctg gaagatggcc gcaccctctc tgattacaac 180

atccagaagg agtcaaccct gcacctggtc cttcgcctga gaggtggc 228

<210> 39
<211> 228
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 39
atgcagatct tcgtgaagac cctgaccggc aagaccatca ccctagaggt ggagcccagt 60

gacaccatcg agaacgtgaa ggccaagatc caggataaag agggcatccc ccctgaccag 120

cagaggctga tctttgccgg caagcagctg gaagatggcc gcaccctctc tgattacaac 180

atccagaagg agtcaaccct gcacctggtc cttcgcctga gaggtgcc 228

<210> 40
<211> 78
<212> DNA
<213> Homo sapiens

<400> 40
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct ggccctgacc 60

cagacctggg cgggctct 78

<210> 41
<211> 201
<212> DNA
<213> Homo sapiens

<400> 41
ccgtcttccc agcccaccat ccccatcgtg ggcatcattg ctggcctggt tctctttgga 60

gctgtgatca ctggagctgt ggtcgctgct gtgatgtgga ggaggaagag ctcagataga 120

aaaggaggga gctactctca ggctgcaagc agtgacagtg cccagggctc tgatgtgtct 180

ctcacagctt gtaaagtgtg a 201

<210> 42
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 42
atggagaccg atacactgct gctgtgggtg ctgctcctgt gggtgccagg aagcacaggc 60

<210> 43
<211> 3178
<212> DNA
<213> Homo sapiens

<400> 43
ggcaccgatt cggggcctgc ccggacttcg ccgcacgctg cagaacctcg cccagcgccc 60

accatgcccc ggcagctcag cgcggcggcc gcgctcttcg cgtccctggc cgtaattttg 120

cacgatggca gtcaaatgag agcaaaagca tttccagaaa ccagagatta ttctcaacct 180

actgcagcag caacagtaca ggacataaaa aaacctgtcc agcaaccagc taagcaagca 240

cctcaccaaa ctttagcagc aagattcatg gatggtcata tcacctttca aacagcggcc 300

acagtaaaaa ttccaacaac taccccagca actacaaaaa acactgcaac caccagccca 360

attacctaca ccctggtcac aacccaggcc acacccaaca actcacacac agctcctcca 420

gttactgaag ttacagtcgg ccctagctta gcccccttatt cactgccacc caccatcacc 480

ccaccagctc atacagctgg aaccagttca tcaaccgtca gccacacaac tgggaacacc 540

actcaaccca gtaaccagac cacccttcca gcaactttat cgatagcact gcacaaaagc 600

acaaccggtc agaagcctga tcaacccacc catgccccag gaacaacggc agctgcccac 660

aataccaccc gcacagctgc acctgcctcc acggttcctg ggcccaccct tgcacctcag 720

ccatcgtcag tcaagactgg aatttatcag gttctaaacg gaagcagact ctgtataaaa 780

gcagagatgg ggatacagct gattgttcaa gacaaggagt cggttttttc acctcggaga 840

tacttcaaca tcgaccccaa cgcaacgcaa gcctctggga actgtggcac ccgaaaatcc 900

aaccttctgt tgaattttca gggcggattt gtgaatctca catttaccaa ggatgaagaa 960

tcatattata tcagtgaagt gggagcctat ttgaccgtct cagatccaga gacagtttac 1020

caaggaatca aacatgcggt ggtgatgttc cagacagcag tcgggcattc cttcaagtgc 1080

gtgagtgaac agagcctcca gttgtcagcc cacctgcagg tgaaaacaac cgatgtccaa 1140

cttcaagcct ttgattttga agatgaccac tttggaaatg tggatgagtg ctcgtctgac 1200

tacacaattg tgcttcctgt gattggggcc atcgtggttg gtctctgcct tatgggtatg 1260

ggtgtctata aaatccgcct aaggtgtcaa tcatctggat accagagaat ctaattgttg 1320

cccgggggga atgaaaataa tggaatttag agaactcttt catcccttcc aggatggatg 1380

ttgggaaatt ccctcagagt gtgggtcctt caaacaatgt aaaccaccat cttctattca 1440

aatgaagtga gtcatgtgtg atttaagttc aggcagcaca tcaatttcta aatacttttt 1500

gtttatttta tgaaagatat agtgagctgt ttattttcta gtttccttta gaatatttta 1560

gccactcaaa gtcaacattt gagatatgtt gaattaacat aatatatgta aagtagaata 1620

agccttcaaa ttataaacca agggtcaatt gtaactaata ctactgtgtg tgcattgaag 1680

attttatttt acccttgatc ttaacaaagc ctttgctttg ttatcaaatg gactttcagt 1740

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caggctggag tacagtggca cgatctcggc ttatggcaac ctccgcctcc cgggttcaag 1920

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gctaattttt gtatttttat tatagacggg tttcaccatg ttggccagac tggtcttgaa 2040

ctcttgacct caggtgatcc acccacctca gcctcccaaa gtgctgggat tacaggcatg 2100

agccattgcg cccggcctta aatgtttttt ttaatcatca aaaagaacaa catatctcag 2160

gttgtctaag tgtttttatg taaaaccaac aaaaagaaca aatcagctta tatttttat 2220

cttgatgact cctgctccag aattgctaga ctaagaatta ggtggctaca gatggtagaa 2280

ctaaacaata agcaagagac aataataatg gcccttaatt attaacaaag tgccagagtc 2340

taggctaagc actttatcta tatctcattt cattctcaca acttataagt gaatgagtaa 2400

actgagactt aagggaactg aatcacttaa atgtcacctg gctaactgat ggcagagcca 2460

gagcttgaat tcatgttggt ctgacatcaa ggtctttggt cttctcccta caccaagtta 2520

cctacaagaa caatgacacc acactctgcc tgaaggctca cacctcatac cagcatacgc 2580

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gtaaagatga aggcatcaaa taaactcaaa gtatttttaa atttttttga taatagagaa 2820

acttcgctaa ccaactgttc tttcttgagt gtatagcccc atcttgtggt aacttgctgc 2880

ttctgcactt catatccata tttcctattg ttcactttat tctgtagagc agcctgccaa 2940

gaattttatt tctgctgttt tttttgctgc taaagaaagg aactaagtca ggatgttaac 3000

agaaaagtcc acataaccct agaattctta gtcaaggaat aattcaagtc agcctagaga 3060

ccatgttgac tttcctcatg tgtttcctta tgactcagta agttggcaag gtcctgactt 3120

tagtcttaat aaaacattga attgtagtaa aggtttttgc aataaaaact tactttgg 3178

<210> 44
<211> 1858
<212> DNA

<213> Mus sp.

<400> 44
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ctgaccacct acgagactgc gaatggttct cagatcgtga acatttccct gccagcctct 120

gcagaagtac tgaaaaatgg cagttcttgt ggtaaagaaa atgtttctga ccccagcctc 180

acaattactt ttggaagagg atatttactg acactcaact tcacaaaaaa tacaacacgt 240

tacagtgtcc agcatatgta ttttacatat aacttgtcag atacagaaca ttttcccaat 300

gccatcagca aagagatcta caccatggat tccacaactg acatcaaggc agacatcaac 360

aaagcatacc ggtgtgtcag tgatatccgg gtctacatga agaatgtgac cgttgtgctc 420

cgggatgcca ctatccaggc ctacctgtcg agtggcaact tcagcaagga agagacacac 480

tgcacacagg atggaccttc cccaaccact gggccaccca gcccctcacc accacttgtg 540

cccacaaacc ccactgtatc caagtacaat gttactggta acaacggaac ctgcctgctg 600

gcctctatgg cactgcaact gaatatcacc tacctgaaaa aggacaacaa gacggtgacc 660

agagcgttca acatcagccc aaatgacaca tctagtggga gttgcggtat caacttggtg 720

accctgaaag tggagaacaa gaacagagcc ctggaattgc agtttgggat gaatgccagc 780

tctagcctgt ttttcttgca aggagtgcgc ttgaatatga ctcttcctga tgccctagtg 840

cccacattca gcatctccaa ccattcactg aaagctcttc aggccactgt gggaaactca 900

tacaagtgca acactgagga acacatcttt gtcagcaaga tgctctccct caatgtcttc 960

agtgtgcagg tccaggcttt caaggtggac agtgacaggt ttgggtctgt ggaagagtgt 1020

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accatctagc ctggtgggca ggtgcaccag agatgcacag gggcctgttc tcacatcccc 1200

aagcttagat aggtgtggaa gggaggcaca ctttctggca aactgtttta aaatctgctt 1260

tatcaaatgt gaagttcatc ttgcaacatt tactatgcac aaaggaataa ctattgaaat 1320

gacggtgtta attttgctaa ctgggttaaa tattgatgag aaggctccac tgatttgact 1380

tttaagactt ggtgtttggt tcttcattct tttactcaga tttaagccta tcaaagggat 1440

actctggtcc agaccttggc ctggcaaggg tggctgatgg ttaggctgca cacacttaag 1500

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atttttattt actttttgt aaagtgattt ccagtcttgt gttggcgttc agggtggccc 1740

tgtctctgca ctgtgtacaa taatagattc acactgctga cgtgtcttgc agcgtaggtg 1800

ggttgtacac tgggcatcag ctcacgtaat gcattgcctg taacgatgct aataaaaa 1858

<210> 45
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<213> Homo sapiens

<400> 45
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tcatgcattg tgcgtcagca gcaatgttta tggtgaaaaa tggcaacggg accgcgtgca 180

taatggccaa cttctctgct gccttctcag tgaactacga caccaagagt ggccctaaga 240

acatgacctt tgacctgcca tcagatgcca cagtggtgct caaccgcagc tcctgtggaa 300

aagagaacac ttctgacccc agtctcgtga ttgcttttgg aagaggacat acactcactc 360

tcaatttcac gagaaatgca acacgttaca gcgtccagct catgagtttt gtttataact 420

tgtcagacac acacctttc cccaatgcga gctccaaaga aatcaagact gtggaatcta 480

taactgacat cagggcagat atagataaaa aatacagatg tgttagtggc acccaggtcc 540

acatgaacaa cgtgaccgta acgctccatg atgccaccat ccaggcgtac ctttccaaca 600

gcagcttcag caggggagag acacgctgtg aacaagacag gccttcccca accacagcgc 660

cccctgcgcc acccagcccc tcgccctcac ccgtgcccaa gagcccctct gtggacaagt 720

acaacgtgag cggcaccaac gggacctgcc tgctggccag catggggctg cagctgaacc 780

tcacctatga gaggaaggac aacacgacgg tgacaaggct tctcaacatc aaccccaaca 840

agacctcggc cagcgggagc tgcggcgccc acctggtgac tctggagctg cacagcgagg 900

gcaccaccgt cctgctcttc cagttcggga tgaatgcaag ttctagccgg tttttcctac 960

aaggaatcca gttgaataca attcttcctg acgccagaga ccctgccttt aaagctgcca 1020

acggctccct gcgagcgctg caggccacag tcggcaattc ctacaagtgc aacgcggagg 1080

agcacgtccg tgtcacgaag gcgttttcag tcaatatatt caaagtgtgg gtccaggctt 1140

tcaaggtgga aggtggccag tttggctctg tggaggagtg tctgctggac gagaacagca 1200

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gcaggcacag cagctgcagg ggcctctgtt cctttctctg ggcttagggt cctgtcgaag 1380

gggaggcaca ctttctggca aacgtttctc aaatctgctt catccaatgt gaagttcatc 1440

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ctgggttaaa tattttgcta actggttaaa cattaatatt taccaaagta ggattttgag 1560

ggtgggggtg ctctctctga gggggtgggg gtgccgctgt ctctgagggg tgggggtgcc 1620

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tttagggttc tggtgtttgg tttcttcatt ctttactgca ctcagattta agccttacaa 1860

agggaaagcc tctggccgtc acacgtagga cgcatgaagg tcactcgtgg tgaggctgac 1920

atgctcacac attacaacag tagagaggga aaatcctaag acagaggaac tccagagatg 1980

agtgtctgga gcgcttcagt tcagctttaa aggccaggac gggccacacg tggctggcgg 2040

cctcgttcca gtggcggcac gtccttgggc gtctctaatg tctgcagctc aagggctggc 2100

actttttaa atataaaaat gggtgttatt tttatttttt tttgtaaagt gatttttggt 2160

cttctgttga cattcggggt gatcctgttc tgcgctgtgt acaatgtgag atcggtgcgt 2220

tctcctgatg ttttgccgtg gcttggggat tgtacacggg accagctcac gtaatgcatt 2280

gcctgtaaca atgtaataaa aagcctcttt cttttaaaaa aaaaaaaaaa aaaaaaaaa 2339

<210> 46
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 46
cagtacatca aggccaacag caagttcatc ggcatcaccg aactc 45

<210> 47
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 47
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
1 5 10 15

<210> 48
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 48
gctaaatttg tggctgcctg gacactgaaa gccgccgct 39

<210> 49
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 49
Ala Lys Phe Val Ala Ala Trp Thr Leu Lys Ala Ala Ala
1 5 10

<210> 50
<211> 593
<212> DNA
<213> Woodchuck hepatitis virus

<400> 50
aatcaacctc tggattacaa aatttgtgaa agattgactg gtattcttaa ctatgttgct 60

ccttttacgc tatgtggata cgctgcttta atgcctttgt atcatgctat tgcttcccgt 120

atggctttca ttttctcctc cttgtataaa tcctggttgc tgtctcttta tgaggagttg 180

tggcccgttg tcaggcaacg tggcgtggtg tgcactgtgt ttgctgacgc aacccccact 240

ggttggggca ttgccaccac ctgtcagctc ctttccggga ctttcgcttt ccccctccct 300

attgccacgg cggaactcat cgccgcctgc cttgcccgct gctggacagg ggctcggctg 360

ttgggcactg acaattccgt ggtgttgtcg gggaagctga cgtcctttcc atggctgctc 420

gcctgtgttg ccacctggat tctgcgcggg acgtccttct gctacgtccc ttcggccctc 480

aatccagcgg accttccttc ccgcggcctg ctgccggctc tgcggcctct tccgcgtctt 540

cgccttcgcc ctcagacgag tcggatctcc ctttgggccg cctccccgcc tgt 593

<210> 51
<211> 589
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

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taaggccggt gtgcgtttgt ctatatgtta ttttccacca tattgccgtc ttttggcaat 120

gtgagggccc ggaaacctgg ccctgtcttc ttgacgagca ttcctagggg tctttccccct 180

ctcgccaaag gaatgcaagg tctgttgaat gtcgtgaagg aagcagttcc tctggaagct 240

tcttgaagac aaacaacgtc tgtagcgacc ctttgcaggc agcggaaccc cccacctggc 300

gacaggtgcc tctgcggcca aaagccacgt gtataagata cacctgcaaa ggcggcacaa 360

ccccagtgcc acgttgtgag ttggatagtt gtggaaagag tcaaatggct ctcctcaagc 420

gtattcaaca aggggctgaa ggatgcccag aaggtacccc attgtatggg atctgatctg 480

gggcctcggt gcacatgctt tacatgtgtt tagtcgaggt taaaaaaacg tctaggcccc 540

ccgaaccacg gggacgtggt tttcctttga aaaacacgat gataatatg 589

<210> 52
<211> 720
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

polynucleotide

<400> 52
atggtgagca agggcgagga gctgttcacc ggggtggtgc ccatcctggt cgagctggac 60

ggcgacgtaa acggccacaa gttcagcgtg tccggcgagg gcgagggcga tgccacctac 120

ggcaagctga ccctgaagtt catctgcacc accggcaagc tgcccgtgcc ctggcccacc 180

ctcgtgacca ccctgaccta cggcgtgcag tgcttcagcc gctaccccga ccacatgaag 240

cagcacgact tcttcaagtc cgccatgccc gaaggctacg tccaggagcg caccatcttc 300

ttcaaggacg acggcaacta caagacccgc gccgaggtga agttcgaggg cgacaccctg 360

gtgaaccgca tcgagctgaa gggcatcgac ttcaaggagg acggcaacat cctggggcac 420

aagctggagt acaactacaa cagccacaac gtctatatca tggccgacaa gcagaagaac 480

ggcatcaagg tgaacttcaa gatccgccac aacatcgagg acggcagcgt gcagctcgcc 540

gaccactacc agcagaacac ccccatcggc gacggccccg tgctgctgcc cgacaaccac 600

tacctgagca cccagtccgc cctgagcaaa gaccccaacg agaagcgcga tcacatggtc 660

ctgctggagt tcgtgaccgc cgccgggatc actctcggca tggacgagct gtacaagtag 720

<210> 53
<211> 1563
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 53
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gttgaggagg agaacccgga cttctggaac cgcgaggcag ccgaggccct gggtgccgcc 120

aagaagctgc agcctgcaca gacagccgcc aagaacctca tcatcttcct gggcgatggg 180

atgggggtgt ctacggtgac agctgccagg atcctaaaag ggcagaagaa ggacaaactg 240

gggcctgaga taccctggc catggaccgc ttcccatatg tggctctgtc caagacatac 300

aatgtagaca aacatgtgcc agacagtgga gccacagcca cggcctacct gtgcggggtc 360

aagggcaact tccagaccat tggcttgagt gcagccgccc gctttaacca gtgcaacacg 420

acacgcggca acgaggtcat ctccgtgatg aatcgggcca agaaagcagg gaagtcagtg 480

ggagtggtaa ccaccacacg agtgcagcac gcctcgccag ccggcaccta cgcccacacg 540

gtgaaccgca actggtactc ggacgccgac gtgcctgcct cggcccgcca ggaggggtgc 600

caggacatcg ctacgcagct catctccaac atggacattg acgtgatcct aggtggaggc 660

cgaaagtaca tgtttcgcat gggaacccca gaccctgagt acccagatga ctacagccaa 720

ggtgggacca ggctggacgg gaagaatctg gtgcaggaat ggctggcgaa gcgccagggt 780

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cgcggcttct tcctcttcgt ggagggtggt cgcatcgacc atggtcatca tgaaagcagg 1020

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ccgcaggcgc acctggttca cggcgtgcag gagcagacct tcatagcgca cgtcatggcc 1440

ttcgccgcct gcctggagcc ctacaccgcc tgcgacctgg cgccccccgc cggcaccacc 1500

gacgccgcgc acccgggtta ctctagagtc ggggcggccg gccgcttcga gcagacatga 1560

taa 1563

<210> 54
<211> 1653
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<400> 54
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accgccggcg agcagctgca caaagccatg aagcgctacg ccctggtgcc cggcaccatc 120

gcctttaccg acgcacatat cgaggtggac attacctacg ccgagtactt cgagatgagc 180

gttcggctgg cagaagctat gaagcgctat gggctgaata caaaccatcg gatcgtggtg 240

tgcagcgaga atagcttgca gttcttcatg cccgtgttgg gtgccctgtt catcggtgtg 300

gctgtggccc cagctaacga catctacaac gagcgcgagc tgctgaacag catgggcatc 360

agccagccca ccgtcgtatt cgtgagcaag aaagggctgc aaaagatcct caacgtgcaa 420

aagaagctac cgatcataca aaagatcatc atcatggata gcaagaccga ctaccagggc 480

ttccaaagca tgtacacctt cgtgacttcc catttgccac ccggcttcaa cgagtacgac 540

ttcgtgcccg agagcttcga ccgggacaaa accatcgccc tgatcatgaa cagtagtggc 600

agtaccggat tgcccaaggg cgtagcccta ccgcaccgca ccgcttgtgt ccgattcagt 660

catgcccgcg accccatctt cggcaaccag atcatccccg acaccgctat cctcagcgtg 720

gtgccatttc accacggctt cggcatgttc accacgctgg gctacttgat ctgcggcttt 780

cgggtcgtgc tcatgtaccg cttcgaggag gagctattct tgcgcagctt gcaagactat 840

aagattcaat ctgccctgct ggtgcccaca ctatttagct tcttcgctaa gagcactctc 900

atcgacaagt acgacctaag caacttgcac gagatcgcca gcggcggggc gccgctcagc 960

aaggaggtag gtgaggccgt ggccaaacgc ttccacctac caggcatccg ccagggctac 1020

ggcctgacag aaacaaccag cgccattctg atcacccccg aaggggacga caagcctggc 1080

gcagtaggca aggtggtgcc cttcttcgag gctaaggtgg tggacttgga caccggtaag 1140

acactgggtg tgaaccagcg cggcgagctg tgcgtccgtg gccccatgat catgagcggc 1200

tacgttaaca accccgaggc tacaaacgct ctcatcgaca aggacggctg gctgcacagc 1260

ggcgacatcg cctactggga cgaggacgag cacttcttca tcgtggaccg gctgaagagc 1320

ctgatcaaat acaagggcta ccaggtagcc ccagccgaac tggagagcat cctgctgcaa 1380

caccccaaca tcttcgacgc cggggtcgcc ggcctgcccg acgacgatgc cggcgagctg 1440

cccgccgcag tcgtcgtgct ggaacacggt aaaaccatga ccgagaagga gatcgtggac 1500

tatgtggcca gccaggttac aaccgccaag aagctgcgcg gtggtgttgt gttcgtggac 1560

gaggtgccta aaggactgac cggcaagttg gacgcccgca agatccgcga gattctcatt 1620

aaggccaaga agggcggcaa gatcgccgtg taa 1653

<210> 55
<211> 66

<212> DNA
<213> Foot-and-mouth disease virus

<400> 55
gtaaagcaaa cactgaactt tgaccttctc aagttggctg gagacgttga gtccaatcct 60

gggccc 66

<210> 56
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 56
Gly Pro Gly Pro Gly
1 5

<210> 57
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*37:01

<400> 57
Ala Asp Gln Leu Gln Met Ser Leu
1 5

<210> 58
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:02,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-C*07:01,
HLA-C*16:02,HLA-C*16:04

<400> 58
Ala Asp Gln Leu Gln Met Ser Leu Tyr
1 5

<210> 59
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:02,HLA-A*32:01,HLA-B*46:01

<400> 59
Ala Gly Gln Asp Leu Ser Ala Tyr
1 5

<210> 60
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*27:02

<400> 60
Ala Gly Gln Asp Leu Ser Ala Tyr Leu Leu Lys
1 5 10

<210> 61
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*27:02,HLA-B*44:02

<400> 61
Ala His Leu Ser Thr Tyr Gln Ser Glu Trp
1 5 10

<210> 62
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-B*55:01

<400> 62
Ala Ile Val Glu Ser Val Glu Ser Cys
1 5

<210> 63
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*32:01,HLA-B*15:01,HLA-B*39:01,HLA-C*05:01

<400> 63
Ala Leu Asp Glu Ser Asn Thr Tyr
1 5

<210> 64
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*02:01

<400> 64
Ala Leu Asp Glu Ser Asn Thr Tyr Gln
1 5

<210> 65
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*38:01,
HLA-B*39:01,HLA-B*55:01,HLA-C*05:01

<400> 65
Ala Leu Asp Glu Ser Asn Thr Tyr Gln Leu
1 5 10

<210> 66
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01

<400> 66
Ala Leu Asp Glu Ser Asn Thr Tyr Gln Leu Pro

1 5 10

<210> 67
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*58:01

<400> 67
Ala Ser Gly Lys Thr Leu Glu Phe
1 5

<210> 68
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01

<400> 68
Ala Ser Gly Leu Leu Thr Gly Val Val
1 5

<210> 69
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*40:02

<400> 69
Ala Ser Gly Leu Leu Thr Gly Val Val Val
1 5 10

<210> 70
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*58:01

<400> 70
Ala Ser Val Val Ala His Leu Ser Thr
1               5


<210> 71
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*15:01,
      HLA-B*15:03,HLA-B*46:01,HLA-B*58:01,HLA-C*16:04

<400> 71
Ala Ser Val Val Ala His Leu Ser Thr Tyr
1               5                   10


<210> 72
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 72
Ala Thr Val Trp Glu Gly Ser Asn Arg
1               5


<210> 73
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -B*57:01,HLA-B*58:01

<400> 73
Ala Thr Val Trp Glu Gly Ser Asn Arg Asn Phe
1               5                   10


<210> 74
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:02

<400> 74
Ala Val Thr Gln Met Asn Lys Cys Tyr
1 5

<210> 75
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*23:01,HLA-A*24:02

<400> 75
Ala Tyr Leu Leu Lys Ser Leu Phe
1 5

<210> 76
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 76
Cys Glu Ile Ser Leu Arg Pro Leu Leu
1 5

<210> 77
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*49:01

<400> 77
Cys Glu Ile Ser Leu Arg Pro Leu Leu Val
1 5 10

<210> 78
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*15:03,HLA-B*39:01

<400> 78
Cys Lys Glu Asn Pro Gly Pro Ser Tyr
1 5

<210> 79
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03

<400> 79
Cys Leu Phe Gln Leu Glu Thr Val
1 5

<210> 80
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 80
Cys Leu Phe Gln Leu Glu Thr Val Ala Val
1 5 10

<210> 81
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01

<400> 81
Asp Glu Ser Asn Thr Tyr Gln Leu
1 5

<210> 82

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*33:01,HLA-A*33:03

<400> 82
Asp His Gly Ser Gly Phe Leu Lys
1 5

<210> 83
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*38:01,HLA-B*39:01

<400> 83
Asp His Val Ser Ser Thr Lys Ala Thr Val
1 5 10

<210> 84
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*33:01,HLA-B*38:01,HLA-B*39:01,HLA-C*07:01

<400> 84
Asp His Val Ser Ser Thr Lys Ala Thr Val Trp
1 5 10

<210> 85
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*26:01

<400> 85
Asp Ile Cys His Pro Asp Thr Phe Ser Tyr
1 5 10

<210> 86
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-C*04:01,HLA-C*07:01

<400> 86
Asp Gln Leu Gln Met Ser Leu Tyr
1 5

<210> 87
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 87
Asp Ser Gly Tyr Gly Leu Thr Arg
1 5

<210> 88
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*11:01,HLA-A*26:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-C*07:06

<400> 88
Asp Thr Phe Ser Tyr Pro Ile Glu Arg
1 5

<210> 89
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*68:02

<400> 89

Asp Thr Phe Ser Tyr Pro Ile Glu Arg Gly
1               5                   10


<210> 90
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*33:01

<400> 90
Asp Thr Phe Ser Tyr Pro Ile Glu Arg Gly Arg
1               5                   10


<210> 91
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*33:01,HLA-A*33:03

<400> 91
Glu Ala Leu Asp Phe Arg Glu Arg
1               5


<210> 92
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
      HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 92
Glu Glu Tyr Gly Glu His Met Arg Met
1               5


<210> 93
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 93
Glu Phe Ala Gly Gln Asp Leu Ser Ala Tyr
1 5 10

<210> 94
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01

<400> 94
Glu Gly Ser Asn Arg Asn Phe Ser Val
1 5

<210> 95
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01

<400> 95
Glu Gly Ser Asn Arg Asn Phe Ser Val Trp
1 5 10

<210> 96
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*68:02

<400> 96
Glu Ile Leu Phe Glu Leu Leu His Val
1 5

<210> 97
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01

<400> 97
Glu Ile Ser Leu Arg Pro Leu Leu
1 5

<210> 98
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*68:02

<400> 98
Glu Ile Ser Leu Arg Pro Leu Leu Val
1 5

<210> 99
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*26:01

<400> 99
Glu Leu Met Gly Asp His Val Ser Ser Thr
1 5 10

<210> 100
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:02,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01

<400> 100
Glu Leu Met Gly Asp His Val Ser Ser Thr Lys
1 5 10

<210> 101
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*51:01

<400> 101
Glu Met Phe Phe Ser Pro Gln Val
1 5

<210> 102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 102
Glu Asn Pro Gly Pro Ser Tyr Ala Arg
1 5

<210> 103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01

<400> 103
Glu Pro Ala Asp Arg Lys Lys Met Leu
1 5

<210> 104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*51:01

<400> 104
Glu Pro Gln Met Val Phe Pro Asn Ile
1 5

<210> 105

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*13:02,HLA-B*39:01

<400> 105
Glu Gln Glu Val Pro Pro Val Ile
1 5

<210> 106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*38:01,HLA-B*39:01

<400> 106
Glu Gln Glu Val Pro Pro Val Ile Ile
1 5

<210> 107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 107
Glu Gln Pro Gly Pro Ser Ile Pro Arg
1 5

<210> 108
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*33:03

<400> 108
Glu Ser Cys Glu Ile Ser Leu Arg
1 5

<210> 109
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-B*18:01

<400> 109
Glu Thr Val Ala Val Thr Gln Met
1 5

<210> 110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*68:02

<400> 110
Glu Thr Val Ala Val Thr Gln Met Asn
1 5

<210> 111
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*27:02,HLA-C*07:06

<400> 111
Glu Thr Val Ala Val Thr Gln Met Asn Lys
1 5 10

<210> 112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*26:01

<400> 112

Glu Val Pro Pro Val Ile Ile Thr Glu
1               5


<210> 113
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02

<400> 113
Glu Val Pro Pro Val Ile Ile Thr Glu Thr
1               5                   10


<210> 114
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*24:02,HLA-C*07:01

<400> 114
Glu Tyr Gly Glu His Met Arg Met
1               5


<210> 115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,
      HLA-B*55:01,HLA-C*02:02,HLA-C*03:03,HLA-C*07:04

<400> 115
Phe Ala Gly Gln Asp Leu Ser Ala Tyr
1               5


<210> 116
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*30:01,
HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01,HLA-B*51:01,HLA-B*54:01

<400> 116
Phe Glu Leu Leu His Val Pro Ser Val
1 5

<210> 117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*40:01

<400> 117
Phe Glu Leu Leu His Val Pro Ser Val Leu
1 5 10

<210> 118
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 118
Phe Glu Gln Pro Gly Pro Ser Ile
1 5

<210> 119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*49:01

<400> 119
Phe Glu Gln Pro Gly Pro Ser Ile Pro
1 5

<210> 120
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*27:02,HLA-C*07:06

<400> 120
Phe Glu Gln Pro Gly Pro Ser Ile Pro Arg
1 5 10

<210> 121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*32:01,HLA-B*46:01

<400> 121
Phe Leu Lys Ala Gly Thr Ala Gly Trp
1 5

<210> 122
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*51:01

<400> 122
Phe Pro Asn Ile Val Asn Tyr Leu
1 5

<210> 123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*54:01

<400> 123
Phe Pro Asn Ile Val Asn Tyr Leu Pro
1 5

<210> 124
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*30:01,HLA-B*13:02

<400> 124
Phe Gln Leu Glu Thr Val Ala Val
1 5

<210> 125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-B*27:05,HLA-C*07:04

<400> 125
Phe Gln Leu Glu Thr Val Ala Val Thr
1 5

<210> 126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*27:05

<400> 126
Phe Gln Leu Glu Thr Val Ala Val Thr Gln
1 5 10

<210> 127
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02,HLA-B*39:01,HLA-C*07:04

<400> 127
Phe Gln Leu Glu Thr Val Ala Val Thr Gln Met

1 5 10

<210> 128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*68:02,HLA-B*54:01

<400> 128
Phe Ser Val Trp Leu Gly Ala Ser Val
1 5

<210> 129
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*54:01

<400> 129
Phe Ser Val Trp Leu Gly Ala Ser Val Val Ala
1 5 10

<210> 130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*31:01

<400> 130
Phe Ser Tyr Pro Ile Glu Arg Gly Arg
1 5

<210> 131
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*37:01

<400> 131
Gly Ala Ser Val Val Ala His Leu
1               5


<210> 132
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*04:01,
      HLA-C*16:04

<400> 132
Gly Ala Ser Val Val Ala His Leu Ser Thr Tyr
1               5                   10


<210> 133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -B*27:05

<400> 133
Gly Asp His Val Ser Ser Thr Lys
1               5


<210> 134
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*03:02,HLA-A*11:01

<400> 134
Gly Gly Asn Thr Leu Tyr Pro Gly Phe Thr Lys
1               5                   10


<210> 135
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 135
Gly Leu Leu Thr Gly Val Val Val
1 5

<210> 136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01

<400> 136
Gly Leu Leu Thr Gly Val Val Val Asp Ser
1 5 10

<210> 137
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*37:01

<400> 137
Gly Leu Thr Arg Val Gln Pro Phe
1 5

<210> 138
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*27:02,HLA-B*27:05

<400> 138
Gly Asn Thr Leu Tyr Pro Gly Phe Thr Lys
1 5 10

<210> 139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02

<400> 139
Gly Pro Ser Ile Pro Arg Ala Ile Val
1 5

<210> 140
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02

<400> 140
Gly Pro Ser Tyr Ala Arg Arg Arg Val Ser Leu
1 5 10

<210> 141
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*38:01

<400> 141
Gly Gln Asp Leu Ser Ala Tyr Leu
1 5

<210> 142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:07,HLA-B*13:02,HLA-B*15:01,HLA-B*27:05,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-C*04:01

<400> 142
Gly Gln Asp Leu Ser Ala Tyr Leu Leu
1 5

<210> 143

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*11:01,HLA-B*27:02

<400> 143
Gly Gln Asp Leu Ser Ala Tyr Leu Leu Lys
1 5 10

<210> 144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*27:05

<400> 144
Gly Arg Pro Leu Pro Ala Ser Gly Lys
1 5

<210> 145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 145
Gly Ser Asn Arg Asn Phe Ser Val Trp
1 5

<210> 146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*46:01

<400> 146
Gly Ser Arg Val Glu Leu Thr Pro Met
1 5

<210> 147
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*31:01

<400> 147
Gly Ser Arg Val Glu Leu Thr Pro Met Gln Arg
1 5 10

<210> 148
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*15:01

<400> 148
Gly Val Val Val Asp Ser Gly Tyr
1 5

<210> 149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*24:02

<400> 149
Gly Trp Asn Glu Pro Gln Met Val Phe
1 5

<210> 150
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*24:02

<400> 150
Gly Tyr Gly Leu Thr Arg Val Gln Pro Phe

1 5 10

<210> 151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01

<400> 151
His Leu Ser Thr Tyr Gln Ser Glu Trp
1 5

<210> 152
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*29:02

<400> 152
His Val Met Ala Cys Gly Gly Asn Thr Leu Tyr
1 5 10

<210> 153
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:07,HLA-A*68:02

<400> 153
His Val Pro Ser Val Leu Leu Ala Asp Gln Leu
1 5 10

<210> 154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:03,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*51:01

<400> 154
His Val Ser Ser Thr Lys Ala Thr Val
1               5


<210> 155
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*25:01,HLA-A*32:01,HLA-A*68:01,HLA-B*44:03,HLA-B*57:01,
      HLA-B*58:01

<400> 155
His Val Ser Ser Thr Lys Ala Thr Val Trp
1               5                   10


<210> 156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*46:01

<400> 156
Ile Cys His Pro Asp Thr Phe Ser Tyr
1               5


<210> 157
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -C*06:02

<400> 157
Ile Asp His Gly Ser Gly Phe Leu
1               5


<210> 158
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-B*27:02,
HLA-C*07:01

<400> 158
Ile Asp His Gly Ser Gly Phe Leu Lys
1 5

<210> 159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*24:02,HLA-B*37:01

<400> 159
Ile Asp Ile Cys His Pro Asp Thr Phe
1 5

<210> 160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*44:02

<400> 160
Ile Glu Arg Gly Arg Ile Leu Asn Trp
1 5

<210> 161
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -C*05:01

<400> 161
Ile Ile Asp His Gly Ser Gly Phe
1 5

<210> 162
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*02:07,HLA-C*05:01

<400> 162
Ile Ile Asp His Gly Ser Gly Phe Leu
1 5

<210> 163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 163
Ile Ile Asp His Gly Ser Gly Phe Leu Lys
1 5 10

<210> 164
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:07

<400> 164
Ile Ile Asp His Gly Ser Gly Phe Leu Lys Ala
1 5 10

<210> 165
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:04

<400> 165
Ile Leu Phe Glu Leu Leu His Val
1 5

<210> 166

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 166
Ile Leu Phe Glu Leu Leu His Val Pro Ser Val
1 5 10

<210> 167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*07:04

<400> 167
Ile Leu Asn Trp Glu Gly Val Gln Tyr
1 5

<210> 168
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 168
Ile Leu Asn Trp Glu Gly Val Gln Tyr Leu
1 5 10

<210> 169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*08:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 169
Ile Pro Arg Ala Ile Val Glu Ser Val

1 5

<210> 170
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -C*05:01

<400> 170
Ile Val Glu Ser Val Glu Ser Cys Glu Ile
1 5 10

<210> 171
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*37:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03

<400> 171
Lys Glu Asn Pro Gly Pro Ser Tyr
1 5

<210> 172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 172
Lys Glu Asn Pro Gly Pro Ser Tyr Ala
1 5

<210> 173
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:02,HLA-A*31:01,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,

HLA-B*44:02,HLA-B*44:03

<400> 173
Lys Glu Asn Pro Gly Pro Ser Tyr Ala Arg
1 5 10

<210> 174
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*31:01

<400> 174
Lys Glu Asn Pro Gly Pro Ser Tyr Ala Arg Arg
1 5 10

<210> 175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 175
Lys Met Leu Glu Ile Leu Phe Glu Leu
1 5

<210> 176
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 176
Lys Met Leu Glu Ile Leu Phe Glu Leu Leu
1 5 10

<210> 177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*32:01,HLA-B*40:02,HLA-B*57:01,HLA-B*58:01

<400> 177
Lys Thr Leu Glu Phe Ala Gly Gln Asp Leu
1 5 10

<210> 178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*02:07,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 178
Leu Ala Asp Gln Leu Gln Met Ser Leu
1 5

<210> 179
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-B*27:02

<400> 179
Leu Ala Asp Gln Leu Gln Met Ser Leu Tyr
1 5 10

<210> 180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*38:01,HLA-B*40:01

<400> 180
Leu Asp Glu Ser Asn Thr Tyr Gln Leu
1 5

<210> 181
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01

<400> 181
Leu Glu Phe Ala Gly Gln Asp Leu
1 5

<210> 182
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 182
Leu Glu Phe Ala Gly Gln Asp Leu Ser Ala
1 5 10

<210> 183
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*49:01,
HLA-C*16:04

<400> 183
Leu Glu Phe Ala Gly Gln Asp Leu Ser Ala Tyr
1 5 10

<210> 184
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*18:01,HLA-B*49:01

<400> 184
Leu Glu Ile Leu Phe Glu Leu Leu

1 5

<210> 185
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*18:01,HLA-C*07:04

<400> 185
Leu Glu Thr Val Ala Val Thr Gln
1 5

<210> 186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*04:01

<400> 186
Leu Glu Thr Val Ala Val Thr Gln Met
1 5

<210> 187
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*27:02

<400> 187
Leu Glu Thr Val Ala Val Thr Gln Met Asn Lys
1 5 10

<210> 188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -C*14:02

<400> 188
Leu Phe Gln Leu Glu Thr Val Ala Val
1               5


<210> 189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*23:01,HLA-A*30:01,
      HLA-A*32:01,HLA-A*68:02,HLA-B*07:02,HLA-B*27:05,HLA-B*35:03,
      HLA-B*40:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*06:02,HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:02

<400> 189
Leu Gly Ala Ser Val Val Ala His Leu
1               5


<210> 190
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 190
Leu Leu Ala Asp Gln Leu Gln Met Ser Leu
1               5                   10


<210> 191
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01

<400> 191
Leu Leu Ala Asp Gln Leu Gln Met Ser Leu Tyr
1               5                   10


<210> 192

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01

<400> 192
Leu Leu His Val Pro Ser Val Leu
1 5

<210> 193
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 193
Leu Leu His Val Pro Ser Val Leu Leu
1 5

<210> 194
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*30:02,HLA-C*07:01

<400> 194
Leu Leu Thr Gly Val Val Val Asp Ser Gly Tyr
1 5 10

<210> 195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03

<400> 195
Leu Leu Val Ser His Val Met Ala Cys
1 5

<210> 196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*32:01

<400> 196
Leu Met Gly Asp His Val Ser Ser Thr
1 5

<210> 197
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02

<400> 197
Leu Met Gly Asp His Val Ser Ser Thr Lys
1 5 10

<210> 198
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:03,HLA-B*51:01,HLA-C*07:02

<400> 198
Leu Pro Ala Ser Gly Lys Thr Leu
1 5

<210> 199
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*56:01,HLA-C*07:02

<400> 199
Leu Pro Ala Ser Gly Lys Thr Leu Glu Phe

1 5 10

<210> 200
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*56:01

<400> 200
Leu Pro Ala Ser Gly Lys Thr Leu Glu Phe Ala
1 5 10

<210> 201
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*35:01,HLA-B*55:01

<400> 201
Leu Pro Cys Lys Glu Asn Pro Gly Pro Ser Tyr
1 5 10

<210> 202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*51:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*05:01,HLA-C*07:02

<400> 202
Leu Pro Asp Gly Ser Arg Val Glu Leu
1 5

<210> 203
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -B*57:01,HLA-B*58:01

<400> 203
Leu Ser Thr Tyr Gln Ser Glu Trp
1 5

<210> 204
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-C*07:01

<400> 204
Leu Thr Gly Val Val Val Asp Ser Gly Tyr
1 5 10

<210> 205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*24:02

<400> 205
Leu Tyr Pro Gly Phe Thr Lys Arg Leu
1 5

<210> 206
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*24:02

<400> 206
Leu Tyr Pro Gly Phe Thr Lys Arg Leu Phe
1 5 10

<210> 207
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -C*03:04

<400> 207
Met Ala Cys Gly Gly Asn Thr Leu
1 5

<210> 208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,HLA-B*55:01,
HLA-C*02:02,HLA-C*07:01,HLA-C*07:04

<400> 208
Met Ala Cys Gly Gly Asn Thr Leu Tyr
1 5

<210> 209
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*23:01

<400> 209
Met Phe Phe Ser Pro Gln Val Phe
1 5

<210> 210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:07

<400> 210
Met Leu Glu Ile Leu Phe Glu Leu Leu
1 5

<210> 211

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*46:01,
HLA-C*16:01

<400> 211
Met Gln Arg Val Ala Pro Glu Met
1 5

<210> 212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*15:01,HLA-B*15:03

<400> 212
Met Gln Arg Val Ala Pro Glu Met Phe
1 5

<210> 213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*35:01,
HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,

<220>
<223> HLA-C*07:04,HLA-C*07:06,HLA-C*12:03

<400> 213
Met Val Phe Pro Asn Ile Val Asn Tyr
1 5

<210> 214
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 214
Met Val Phe Pro Asn Ile Val Asn Tyr Leu
1 5 10

<210> 215
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*33:03,HLA-B*35:01

<400> 215
Asn Pro Gly Pro Ser Tyr Ala Arg
1 5

<210> 216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 216
Asn Thr Leu Tyr Pro Gly Phe Thr Lys
1 5

<210> 217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 217
Asn Thr Leu Tyr Pro Gly Phe Thr Lys Arg
1 5 10

<210> 218
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 218
Asn Thr Tyr Gln Leu Pro Asp Gly Ser Arg
1 5 10

<210> 219
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*68:02

<400> 219
Asn Thr Tyr Gln Leu Pro Asp Gly Ser Arg Val
1 5 10

<210> 220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:02

<400> 220
Pro Cys Lys Glu Asn Pro Gly Pro Ser Tyr
1 5 10

<210> 221
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02

<400> 221
Pro Asp Gly Ser Arg Val Glu Leu
1 5

<210> 222
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*49:01

<400> 222
Pro Glu Met Phe Phe Ser Pro Gln Val
1 5

<210> 223
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*24:02,HLA-B*07:02

<400> 223
Pro Leu Pro Ala Ser Gly Lys Thr Leu Glu Phe
1 5 10

<210> 224
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:02

<400> 224
Gln Asp Leu Ser Ala Tyr Leu Leu
1 5

<210> 225
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 225
Gln Glu Val Pro Pro Val Ile Ile
1 5

<210> 226
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*49:01

<400> 226
Gln Glu Val Pro Pro Val Ile Ile Thr
1 5

<210> 227
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*31:01

<400> 227
Gln Gly Arg Pro Leu Pro Ala Ser Gly Lys
1 5 10

<210> 228
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:02

<400> 228
Gln Leu Glu Thr Val Ala Val Thr Gln
1 5

<210> 229
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*55:01

<400> 229
Gln Leu Glu Thr Val Ala Val Thr Gln Met
1 5 10

<210> 230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-B*07:02,HLA-C*01:02

<400> 230
Gln Leu Pro Asp Gly Ser Arg Val Glu Leu
1 5 10

<210> 231
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02

<400> 231
Gln Pro Phe His Gln Gly Arg Pro Leu
1 5

<210> 232
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*54:01,HLA-B*56:01

<400> 232
Gln Pro Phe His Gln Gly Arg Pro Leu Pro Ala
1 5 10

<210> 233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 233

Gln Pro Gly Pro Ser Ile Pro Arg Ala
1               5


<210> 234
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -B*07:02,HLA-B*56:01

<400> 234
Gln Pro Gly Pro Ser Ile Pro Arg Ala Ile
1               5                   10


<210> 235
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
      HLA-B*38:01,HLA-B*39:01,HLA-C*07:04

<400> 235
Gln Gln Ser Ala Leu Asp Glu Ser Asn Thr Tyr
1               5                   10


<210> 236
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*01:01,HLA-A*30:02,HLA-B*15:01

<400> 236
Gln Ser Ala Leu Asp Glu Ser Asn Thr Tyr
1               5                   10


<210> 237
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -A*01:01

<400> 237
Gln Ser Glu Trp Met Ser Arg Glu Glu Tyr
1 5 10

<210> 238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*26:01,HLA-B*13:02,HLA-B*51:01

<400> 238
Gln Val Phe Glu Gln Pro Gly Pro Ser Ile
1 5 10

<210> 239
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*37:01

<400> 239
Arg Glu Leu Met Gly Asp His Val
1 5

<210> 240
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*18:01,HLA-B*37:01

<400> 240
Arg Glu Gln Glu Val Pro Pro Val
1 5

<210> 241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-C*16:04

<400> 241
Arg Glu Gln Glu Val Pro Pro Val Ile
1 5

<210> 242
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*49:01

<400> 242
Arg Glu Gln Glu Val Pro Pro Val Ile Ile
1 5 10

<210> 243
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*29:02

<400> 243
Arg Ile Leu Asn Trp Glu Gly Val Gln Tyr
1 5 10

<210> 244
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:04

<400> 244
Arg Ile Leu Asn Trp Glu Gly Val Gln Tyr Leu
1 5 10

<210> 245

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*08:01,HLA-B*51:01

<400> 245
Arg Pro Leu Leu Val Ser His Val
1 5

<210> 246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 246
Arg Pro Leu Leu Val Ser His Val Met
1 5

<210> 247
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*54:01,HLA-B*56:01

<400> 247
Arg Pro Leu Leu Val Ser His Val Met Ala
1 5 10

<210> 248
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-C*07:02

<400> 248
Arg Pro Leu Pro Ala Ser Gly Lys Thr Leu
1 5 10

<210> 249
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*57:01

<400> 249
Arg Thr Val Ile Ile Asp His Gly Ser Gly Phe
1 5 10

<210> 250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 250
Arg Val Glu Leu Thr Pro Met Gln Arg
1 5

<210> 251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 251
Arg Val Gln Pro Phe His Gln Gly Arg
1 5

<210> 252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,

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<223> HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:06,HLA-C*12:03,
HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 252
Ser Ala Leu Asp Glu Ser Asn Thr Tyr
1 5

<210> 253
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-B*35:03

<400> 253
Ser Ala Leu Asp Glu Ser Asn Thr Tyr Gln Leu
1 5 10

<210> 254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01,HLA-B*51:01,HLA-C*03:04

<400> 254
Ser Ala Tyr Leu Leu Lys Ser Leu
1 5

<210> 255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01,HLA-B*51:01,HLA-B*57:01,HLA-C*02:02,HLA-C*12:03

<400> 255
Ser Ala Tyr Leu Leu Lys Ser Leu Phe
1 5

<210> 256

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01

<400> 256
Ser Ala Tyr Leu Leu Lys Ser Leu Phe Lys
1 5 10

<210> 257
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 257
Ser Glu Trp Met Ser Arg Glu Glu Tyr
1 5

<210> 258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*46:01

<400> 258
Ser Gly Leu Leu Thr Gly Val Val Val
1 5

<210> 259
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*51:01

<400> 259
Ser Gly Tyr Gly Leu Thr Arg Val
1 5

<210> 260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -C*06:02

<400> 260
Ser Gly Tyr Gly Leu Thr Arg Val Gln
1 5

<210> 261
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*38:01

<400> 261
Ser His Val Met Ala Cys Gly Gly Asn Thr Leu
1 5 10

<210> 262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*31:01

<400> 262
Ser Leu Arg Pro Leu Leu Val Ser His
1 5

<210> 263
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:03

<400> 263

Ser Leu Arg Pro Leu Leu Val Ser His Val
1               5                   10


<210> 264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:03,HLA-A*03:01,HLA-B*13:02

<400> 264
Ser Leu Tyr Ala Ser Gly Leu Leu Thr
1               5


<210> 265
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:01,HLA-A*02:03

<400> 265
Ser Leu Tyr Ala Ser Gly Leu Leu Thr Gly
1               5                   10


<210> 266
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
      HLA-B*55:01

<400> 266
Ser Leu Tyr Ala Ser Gly Leu Leu Thr Gly Val
1               5                   10


<210> 267
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -B*27:05

<400> 267
Ser Arg Val Glu Leu Thr Pro Met Gln Arg
1 5 10

<210> 268
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 268
Ser Ser Thr Lys Ala Thr Val Trp
1 5

<210> 269
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 269
Ser Thr Tyr Gln Ser Glu Trp Met Ser Arg
1 5 10

<210> 270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*02:03,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,

<220>
<223> HLA-B*18:01,HLA-B*27:02,HLA-B*35:01,HLA-B*39:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*46:01,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,
HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,

<220>

<223> HLA-C*16:04

<400> 270
Ser Val Val Ala His Leu Ser Thr Tyr
1               5


<210> 271
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -B*56:01

<400> 271
Ser Val Trp Leu Gly Ala Ser Val
1               5


<210> 272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:01,HLA-A*02:03,HLA-A*68:02,HLA-B*13:02,HLA-B*51:01,
      HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 272
Ser Val Trp Leu Gly Ala Ser Val Val
1               5


<210> 273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -B*54:01,HLA-B*56:01

<400> 273
Ser Val Trp Leu Gly Ala Ser Val Val Ala
1               5                   10


<210> 274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*35:03,HLA-B*55:01

<400> 274
Thr Ala Gly Trp Asn Glu Pro Gln Met
1 5

<210> 275
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*18:01

<400> 275
Thr Glu Thr Pro Leu Arg Glu Pro Ala
1 5

<210> 276
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*46:01,HLA-C*04:01

<400> 276
Thr Gly Val Val Val Asp Ser Gly Tyr
1 5

<210> 277
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*39:01,HLA-C*01:02

<400> 277
Thr Leu Glu Phe Ala Gly Gln Asp Leu
1 5

<210> 278

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:05

<400> 278
Thr Leu Tyr Pro Gly Phe Thr Lys
1 5

<210> 279
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01

<400> 279
Thr Leu Tyr Pro Gly Phe Thr Lys Arg
1 5

<210> 280
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*03:01

<400> 280
Thr Leu Tyr Pro Gly Phe Thr Lys Arg Leu
1 5 10

<210> 281
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01,HLA-B*56:01

<400> 281
Thr Pro Met Gln Arg Val Ala Pro
1 5

<210> 282
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*07:02

<400> 282
Thr Pro Met Gln Arg Val Ala Pro Glu Met
1 5 10

<210> 283
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*06:02,HLA-C*07:06

<400> 283
Thr Val Ala Val Thr Gln Met Asn Lys
1 5

<210> 284
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:01

<400> 284
Thr Val Ile Ile Asp His Gly Ser Gly Phe
1 5 10

<210> 285
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*31:01,HLA-A*33:03

<400> 285
Thr Val Trp Glu Gly Ser Asn Arg
1               5


<210> 286
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 286
Thr Val Trp Glu Gly Ser Asn Arg Asn Phe
1               5                   10


<210> 287
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*33:01,HLA-A*33:03

<400> 287
Thr Tyr Gln Leu Pro Asp Gly Ser Arg
1               5


<210> 288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 288
Thr Tyr Gln Ser Glu Trp Met Ser Arg
1               5


<210> 289
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -B*57:01

<400> 289
Val Ala His Leu Ser Thr Tyr Gln Ser Glu Trp
1 5 10

<210> 290
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*11:01,HLA-B*27:02

<400> 290
Val Ala Val Thr Gln Met Asn Lys
1 5

<210> 291
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*58:01,HLA-C*16:02

<400> 291
Val Ala Val Thr Gln Met Asn Lys Cys Tyr
1 5 10

<210> 292
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 292
Val Glu Leu Thr Pro Met Gln Arg Val
1 5

<210> 293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*30:01,HLA-B*13:02,HLA-B*40:01,HLA-B*49:01

<400> 293
Val Glu Ser Val Glu Ser Cys Glu Ile
1 5

<210> 294
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*40:01

<400> 294
Val Glu Ser Val Glu Ser Cys Glu Ile Ser Leu
1 5 10

<210> 295
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*23:01,HLA-A*24:02,HLA-B*38:01,HLA-C*14:02

<400> 295
Val Phe Glu Gln Pro Gly Pro Ser Ile
1 5

<210> 296
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*23:01,HLA-A*29:02,HLA-C*14:02

<400> 296
Val Phe Pro Asn Ile Val Asn Tyr
1 5

<210> 297
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*23:01,HLA-A*24:02

<400> 297
Val Phe Pro Asn Ile Val Asn Tyr Leu
1 5

<210> 298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,

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<223> HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*05:01,HLA-C*07:04,HLA-C*14:02,HLA-C*16:04

<400> 298
Val Ile Ile Asp His Gly Ser Gly Phe
1 5

<210> 299
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:03,HLA-A*03:01

<400> 299
Val Ile Ile Asp His Gly Ser Gly Phe Leu
1 5 10

<210> 300
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 300
Val Ile Ile Asp His Gly Ser Gly Phe Leu Lys
1               5                   10


<210> 301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*11:01

<400> 301
Val Ile Ile Thr Glu Thr Pro Leu Arg
1               5


<210> 302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:01,HLA-A*23:01,HLA-B*13:02

<400> 302
Val Leu Leu Ala Asp Gln Leu Gln Met
1               5


<210> 303
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:01

<400> 303
Val Leu Leu Ala Asp Gln Leu Gln Met Ser Leu
1               5                   10


<210> 304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -C*01:02,HLA-C*14:02

<400> 304
Val Met Ala Cys Gly Gly Asn Thr Leu
1 5

<210> 305
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*29:02,HLA-B*15:01,HLA-B*46:01,HLA-C*07:04

<400> 305
Val Met Ala Cys Gly Gly Asn Thr Leu Tyr
1 5 10

<210> 306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*51:01,HLA-B*56:01

<400> 306
Val Pro Pro Val Ile Ile Thr Glu Thr
1 5

<210> 307
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*56:01

<400> 307
Val Pro Gln Asn Leu Gly Glu Ala
1 5

<210> 308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*56:01,
HLA-C*01:02,HLA-C*07:02,HLA-C*14:02

<400> 308
Val Pro Gln Asn Leu Gly Glu Ala Leu
1 5

<210> 309
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*27:02,HLA-B*35:01

<400> 309
Val Pro Gln Asn Leu Gly Glu Ala Leu Asp Phe
1 5 10

<210> 310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,HLA-C*12:03,
HLA-C*16:01

<400> 310
Val Ser Ser Thr Lys Ala Thr Val Trp
1 5

<210> 311
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*39:01,HLA-B*46:01,HLA-B*58:01,HLA-C*07:01,HLA-C*07:04,
HLA-C*12:03

<400> 311
Val Val Ala His Leu Ser Thr Tyr
1 5

<210> 312
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:07,HLA-B*38:01,HLA-B*39:01,HLA-C*04:01,HLA-C*05:01

<400> 312
Val Val Asp Ser Gly Tyr Gly Leu
1 5

<210> 313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-C*05:01

<400> 313
Val Val Asp Ser Gly Tyr Gly Leu Thr
1 5

<210> 314
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 314
Val Val Asp Ser Gly Tyr Gly Leu Thr Arg
1 5 10

<210> 315
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:07,HLA-C*05:01

<400> 315
Val Val Asp Ser Gly Tyr Gly Leu Thr Arg Val

1 5 10

<210> 316
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*39:01

<400> 316
Val Val Val Asp Ser Gly Tyr Gly
1 5

<210> 317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*32:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*35:03,

<220>
<223> HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*55:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,
HLA-C*14:02

<400> 317
Val Val Val Asp Ser Gly Tyr Gly Leu
1 5

<210> 318
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 318
Val Val Val Asp Ser Gly Tyr Gly Leu Thr Arg
1 5 10

<210> 319

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*23:01

<400> 319
Val Trp Leu Gly Ala Ser Val Val Ala His Leu
1 5 10

<210> 320
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*08:01

<400> 320
Tyr Ala Arg Arg Arg Val Ser Leu
1 5

<210> 321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*26:01,
HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*27:05,HLA-B*39:01,
HLA-B*46:01,HLA-B*49:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,

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<223> HLA-B*56:01,HLA-C*02:02,HLA-C*06:02,HLA-C*12:03,HLA-C*16:02,
HLA-C*16:04

<400> 321
Tyr Ala Ser Gly Leu Leu Thr Gly Val
1 5

<210> 322
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;

HLA -A*68:02,HLA-B*35:03,HLA-B*39:01,HLA-B*54:01

<400> 322
Tyr Ala Ser Gly Leu Leu Thr Gly Val Val Val
1 5 10

<210> 323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:04,HLA-A*23:01,HLA-A*24:02,HLA-A*31:01,HLA-A*33:01,
HLA-B*08:01,HLA-B*37:01,HLA-B*40:02,HLA-B*46:01,HLA-B*57:01,
HLA-C*02:02,HLA-C*03:04,HLA-C*07:01,HLA-C*07:04,HLA-C*12:03,

<220>
<223> HLA-C*16:01

<400> 323
Tyr Gly Leu Thr Arg Val Gln Pro Phe
1 5

<210> 324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:07

<400> 324
Tyr Leu Trp Ser Phe Val Leu Glu Asn
1 5

<210> 325
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*51:01

<400> 325
Tyr Pro Ile Glu Arg Gly Arg Ile
1 5

<210> 326
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01,HLA-C*03:04,HLA-C*07:02

<400> 326
Tyr Pro Ile Glu Arg Gly Arg Ile Leu
1 5

<210> 327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02,HLA-B*27:05,HLA-B*37:01,
HLA-B*38:01

<400> 327
Tyr Gln Leu Pro Asp Gly Ser Arg Val
1 5

<210> 328
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -A*02:01,HLA-A*02:04,HLA-A*24:02,HLA-A*30:01,HLA-B*38:01,
HLA-B*39:01

<400> 328
Tyr Gln Leu Pro Asp Gly Ser Arg Val Glu Leu
1 5 10

<210> 329
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
HLA -B*15:01

<400> 329
Tyr Gln Ser Glu Trp Met Ser Arg Glu Glu Tyr
1               5                   10


<210> 330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:07,HLA-A*26:01

<400> 330
Tyr Val Pro Gln Asn Leu Gly Glu Ala
1               5


<210> 331
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ACTL8; ENSG00000117148;
      HLA -A*02:07,HLA-A*25:01,HLA-C*01:02

<400> 331
Tyr Val Pro Gln Asn Leu Gly Glu Ala Leu
1               5                   10


<210> 332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*11:01,HLA-B*27:02

<400> 332
Ala Asp Val Ser Leu Tyr Asn Glu Lys
1               5


<210> 333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;

HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 333
Ala Gly Gly Val Val Leu His Pro Arg
1 5

<210> 334
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*13:02

<400> 334
Ala Ile Phe Val Ser Phe Asn Ile
1 5

<210> 335
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01,HLA-B*37:01

<400> 335
Ala Ile Met Val Lys Val Asn Phe
1 5

<210> 336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03

<400> 336
Ala Lys Tyr Ile Glu Met His Val Ile
1 5

<210> 337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*30:01,HLA-A*32:01,HLA-B*08:01,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,HLA-C*02:02,

<220>
<223> HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,HLA-C*12:03,HLA-C*14:02

<400> 337
Ala Asn Tyr Ala Gly Gly Val Val Leu
1 5

<210> 338
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02

<400> 338
Ala Asn Tyr Ala Gly Gly Val Val Leu His
1 5 10

<210> 339
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*13:02

<400> 339
Ala Gln Lys Val Phe Gln Leu Ile
1 5

<210> 340
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*13:02

<400> 340
Ala Gln Leu Leu Ser Leu Ser Met Gly Ile

1 5 10

<210> 341
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*57:01,HLA-B*58:01

<400> 341
Ala Ser Asp His Ala Asp Ser Gln Lys Met Trp
1 5 10

<210> 342
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 342
Ala Ser Tyr Lys Ile Val Ile Glu Gly Lys
1 5 10

<210> 343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*16:02

<400> 343
Ala Thr Thr Gly Glu Ala Asn Glu Leu
1 5

<210> 344
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01

<400> 344
Ala Val Ile Leu Ala Gln Leu Leu
1               5


<210> 345
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*25:01

<400> 345
Ala Val Ile Leu Ala Gln Leu Leu Ser Leu
1               5                   10


<210> 346
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*37:01

<400> 346
Cys Asp Ile Ala Thr Cys Arg Phe
1               5


<210> 347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*13:02

<400> 347
Cys Gln Cys Ser Gly Ala Val Cys Ile
1               5


<210> 348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;

HLA -B*57:01

<400> 348
Cys Ser Phe Glu Asp Phe Ala His Phe
1 5

<210> 349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*11:01

<400> 349
Cys Val Leu Ile Ala Ile Met Val Lys
1 5

<210> 350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-C*07:04

<400> 350
Cys Val Ser Ser Ser Tyr Leu Gly Tyr
1 5

<210> 351
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*51:01

<400> 351
Asp Ala Asn Tyr Ala Gly Gly Val
1 5

<210> 352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01,HLA-B*35:03,HLA-B*51:01,HLA-C*01:02

<400> 352
Asp Ala Asn Tyr Ala Gly Gly Val Val
1 5

<210> 353
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01,HLA-A*68:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*51:01,HLA-C*03:04,HLA-C*07:06

<400> 353
Asp Ala Asn Tyr Ala Gly Gly Val Val Leu
1 5 10

<210> 354
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01,HLA-A*68:01

<400> 354
Asp Ala Asn Tyr Ala Gly Gly Val Val Leu His
1 5 10

<210> 355
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*18:01

<400> 355
Asp Glu Asn Lys Ile Ala Thr Thr
1 5

<210> 356

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*18:01

<400> 356
Asp Glu Asn Lys Ile Ala Thr Thr Gly
1 5

<210> 357
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*27:02

<400> 357
Asp Glu Gln Pro Glu Ser Glu Ser Glu Pro Lys
1 5 10

<210> 358
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01,HLA-A*33:03

<400> 358
Asp Phe Ala His Phe Ile Ser Lys
1 5

<210> 359
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01

<400> 359
Asp Phe Ala His Phe Ile Ser Lys Gln Lys
1 5 10

<210> 360
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*38:01,HLA-B*39:01

<400> 360
Asp His Ala Asp Ser Gln Lys Met
1 5

<210> 361
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*38:01

<400> 361
Asp His Ala Asp Ser Gln Lys Met Trp
1 5

<210> 362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-B*08:01

<400> 362
Asp Ile Glu Ser Arg Asp Leu Ser Phe
1 5

<210> 363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-A*68:02,HLA-B*08:01

<400> 363
Asp Leu Ser Phe Lys Leu Gln Ser Val

1 5

<210> 364
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01,HLA-B*54:01

<400> 364
Asp Pro Phe Phe Lys Gln Gln Ala
1 5

<210> 365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:01,HLA-A*68:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 365
Asp Pro Phe Phe Lys Gln Gln Ala Val
1 5

<210> 366
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-C*07:01

<400> 366
Asp Gln Asp Phe Gln Asn Phe Cys His Tyr
1 5 10

<210> 367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*33:01,HLA-A*68:02,HLA-B*51:01,HLA-B*54:01

<400> 367
Asp Ser Leu Pro Val Gln Ile Thr Val
1               5


<210> 368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-A*68:02,HLA-B*18:01,HLA-B*35:01,HLA-C*12:03

<400> 368
Asp Thr Phe Gly Lys Glu Val Glu Phe
1               5


<210> 369
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*03:02,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 369
Asp Thr Thr Val Val Ala Gln Lys
1               5


<210> 370
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-A*68:02,HLA-B*13:02,HLA-B*51:01

<400> 370
Asp Thr Thr Val Val Ala Gln Lys Val
1               5


<210> 371
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*26:01

<400> 371
Asp Thr Thr Val Val Ala Gln Lys Val Phe
1 5 10

<210> 372
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*26:01,HLA-B*35:01

<400> 372
Asp Val Ala Phe Leu Leu Val Tyr
1 5

<210> 373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 373
Asp Val Ala Phe Leu Leu Val Tyr Arg
1 5

<210> 374
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*51:01

<400> 374
Glu Ala Ile His Phe Ser Gly Val
1 5

<210> 375
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*68:01,HLA-A*68:02

<400> 375
Glu Ala Ile His Phe Ser Gly Val Lys Ile
1 5 10

<210> 376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,
HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*18:01,HLA-B*27:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,

<220>
<223> HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*51:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*07:06,HLA-C*16:04

<400> 376
Glu Ala Asn Glu Leu Leu His Thr Phe
1 5

<210> 377
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 377
Glu Ala Asn Glu Leu Leu His Thr Phe Leu
1 5 10

<210> 378
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01

<400> 378
Glu Ala Asn Glu Leu Leu His Thr Phe Leu Arg
1               5                   10


<210> 379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*33:01

<400> 379
Glu Cys Tyr Ser His Leu Asn Ser Lys
1               5


<210> 380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*03:01,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-A*68:02,HLA-B*37:01

<400> 380
Glu Asp Phe Ala His Phe Ile Ser Lys
1               5


<210> 381
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*18:01

<400> 381
Glu Glu Cys Asp Leu Pro Glu Tyr
1               5


<210> 382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*46:01,HLA-C*16:04

<400> 382
Glu Gly Ile Glu Ser Gln Ala Ser Tyr
1 5

<210> 383
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:01

<400> 383
Glu Gly Ile Glu Ser Gln Ala Ser Tyr Lys
1 5 10

<210> 384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 384
Glu Gly Lys Pro Tyr Thr Val Asn Leu
1 5

<210> 385
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01,HLA-B*51:01

<400> 385
Glu Gly Tyr Pro Lys Ser Val Val
1 5

<210> 386

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-B*08:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,HLA-B*39:01,
HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,HLA-C*02:02,HLA-C*03:03,

<220>
<223> HLA-C*03:04,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 386
Glu Gly Tyr Pro Lys Ser Val Val Met
1 5

<210> 387
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02

<400> 387
Glu Gly Tyr Pro Lys Ser Val Val Met Val
1 5 10

<210> 388
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*07:01

<400> 388
Glu His Val Ile Tyr Gln Val Lys
1 5

<210> 389
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03,HLA-B*38:01

<400> 389
Glu Lys Ser Asn Tyr Val Gly Ala Thr Phe
1               5                   10


<210> 390
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*33:01,HLA-A*33:03

<400> 390
Glu Met His Val Ile Val Glu Lys
1               5


<210> 391
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*01:01

<400> 391
Glu Met His Val Ile Val Glu Lys Gln Leu Tyr
1               5                   10


<210> 392
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-B*35:01,
      HLA-B*35:03,HLA-B*55:01

<400> 392
Glu Pro Leu Glu Ser Ser Val Gly Phe
1               5


<210> 393
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:03

<400> 393
Glu Pro Leu Glu Ser Ser Val Gly Phe Glu His
1 5 10

<210> 394
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-B*35:01,HLA-B*55:01,
HLA-C*03:03

<400> 394
Glu Pro Gln Gln Asp Phe Ala Lys Tyr
1 5

<210> 395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:03

<400> 395
Glu Ser Leu Ala Val Ile Leu Ala Gln
1 5

<210> 396
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:03,HLA-A*68:02

<400> 396
Glu Ser Leu Ala Val Ile Leu Ala Gln Leu
1 5 10

<210> 397
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:01

<400> 397
Glu Thr Cys Cys Asp Ile Ala Thr Cys Arg
1 5 10

<210> 398
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01

<400> 398
Glu Val Glu Phe Gly Pro Ser Glu Cys Tyr
1 5 10

<210> 399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01

<400> 399
Phe Ala His Phe Ile Ser Lys Gln Lys
1 5

<210> 400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01,HLA-B*38:01,HLA-B*49:01

<400> 400
Phe Asp Ser Leu Pro Val Gln Ile
1 5

<210> 401
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02

<400> 401
Phe Asp Ser Leu Pro Val Gln Ile Thr Val
1 5 10

<210> 402
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*49:01

<400> 402
Phe Glu Asp Phe Ala His Phe Ile
1 5

<210> 403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-B*18:01

<400> 403
Phe Glu Glu Cys Asp Leu Pro Glu Tyr
1 5

<210> 404
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02,
HLA-B*49:01

<400> 404
Phe Glu His Val Ile Tyr Gln Val

1 5

<210> 405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*40:02

<400> 405
Phe Glu His Val Ile Tyr Gln Val Lys
1 5

<210> 406
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*18:01,HLA-B*37:01,HLA-B*49:01

<400> 406
Phe Glu Asn Val Ser Tyr Gly Ile
1 5

<210> 407
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:04

<400> 407
Phe Leu Leu Gln Ile Pro Arg Ala
1 5

<210> 408
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:04

<400> 408
Phe Leu Leu Gln Ile Pro Arg Ala Thr Ile Ile
1               5                   10


<210> 409
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 409
Phe Leu Leu Ser Gly Leu Gly Gly Leu
1               5


<210> 410
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:04,HLA-A*29:02

<400> 410
Phe Leu Leu Ser Gly Leu Gly Gly Leu Arg Met
1               5                   10


<210> 411
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:07

<400> 411
Phe Leu Pro His Asn Phe Arg Val
1               5


<210> 412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;

HLA -A*02:07,HLA-A*29:02

<400> 412
Phe Leu Pro His Asn Phe Arg Val Tyr
1 5

<210> 413
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*29:02

<400> 413
Phe Leu Pro His Asn Phe Arg Val Tyr Ser Tyr
1 5 10

<210> 414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-A*02:04

<400> 414
Phe Leu Arg Trp Lys Thr Ser Tyr Leu
1 5

<210> 415
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*54:01

<400> 415
Phe Pro Pro Val Ala Ile Pro Ala
1 5

<210> 416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-A*68:02

<400> 416
Phe Val Ser Phe Asn Ile Thr Ile Ile
1 5

<210> 417
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*30:01,HLA-A*30:02,HLA-B*15:01,HLA-B*18:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,

<220>
<223> HLA-C*02:02,HLA-C*16:04

<400> 417
Gly Glu Ala Asn Glu Leu Leu His Thr Phe
1 5 10

<210> 418
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*49:01

<400> 418
Gly Glu Ala Asn Glu Leu Leu His Thr Phe Leu
1 5 10

<210> 419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*03:02

<400> 419
Gly Ile Glu Ser Gln Ala Ser Tyr Lys
1 5

<210> 420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 420
Gly Ile Thr Tyr Asp Asp Ile Asn Lys
1 5

<210> 421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03

<400> 421
Gly Lys Pro Tyr Thr Val Asn Leu Met
1 5

<210> 422
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*13:02

<400> 422
Gly Leu Thr Asn Ala Ile Phe Val
1 5

<210> 423
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:04,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*29:02,
HLA-B*15:03

<400> 423
Gly Leu Thr Asn Ala Ile Phe Val Ser Phe
1               5                   10


<210> 424
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*13:02

<400> 424
Gly Asn Phe Pro Pro Val Ala Ile
1               5


<210> 425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*07:02

<400> 425
Gly Pro Ser Glu Cys Tyr Ser His Leu
1               5


<210> 426
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,
      HLA-B*27:02,HLA-C*07:06

<400> 426
Gly Ser Asp Thr Thr Val Val Ala Gln Lys
1               5                   10


<210> 427
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01

<400> 427
Gly Ser Asp Thr Thr Val Val Ala Gln Lys Val
1 5 10

<210> 428
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*11:01

<400> 428
Gly Ser Ile Asp Ser Gly Asn Phe Pro Pro
1 5 10

<210> 429
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*11:01

<400> 429
Gly Ser Ile Asp Ser Gly Asn Phe Pro Pro Val
1 5 10

<210> 430
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,HLA-B*46:01,HLA-B*57:01,
HLA-C*07:01,HLA-C*07:04

<400> 430
Gly Val Leu Gln Phe Glu Asn Val Ser Tyr
1 5 10

<210> 431
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*13:02

<400> 431
Gly Val Val Leu His Pro Arg Thr Ile
1 5

<210> 432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:03

<400> 432
Gly Tyr Ile Glu Gly Tyr Pro Lys
1 5

<210> 433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*24:02

<400> 433
Gly Tyr Pro Lys Ser Val Val Met Val
1 5

<210> 434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*29:02

<400> 434
His Asp Val Ala Phe Leu Leu Val Tyr
1 5

<210> 435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03

<400> 435
His Lys Lys Ala Asp Val Ser Leu Tyr
1 5

<210> 436
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 436
His Leu Asn Ser Lys Thr Asp Val
1 5

<210> 437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 437
His Met Gly Ser Asp Thr Thr Val Val
1 5

<210> 438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*33:01

<400> 438
His Asn Gln Pro Arg Leu Asp Pro Phe
1 5

<210> 439
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*07:02,HLA-C*07:02

<400> 439
His Pro Arg Thr Ile Ser Leu Glu Ser Leu
1 5 10

<210> 440
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 440
His Val Ile Val Glu Lys Gln Leu
1 5

<210> 441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*44:03,
HLA-B*46:01,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,HLA-C*03:03

<400> 441
His Val Ile Val Glu Lys Gln Leu Tyr
1 5

<210> 442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 442
His Val Ile Tyr Gln Val Lys His Lys
1               5


<210> 443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*29:02,HLA-A*30:02,HLA-C*14:02

<400> 443
His Tyr Gln Gly Tyr Ile Glu Gly Tyr
1               5


<210> 444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:03,HLA-B*35:01,
      HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,
      HLA-C*16:01

<400> 444
Ile Ala Ile Met Val Lys Val Asn Phe
1               5


<210> 445
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*35:03,HLA-C*03:03,HLA-C*03:04,HLA-C*16:02

<400> 445
Ile Ala Thr Thr Gly Glu Ala Asn Glu Leu
1               5                   10


<210> 446
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*49:01

<400> 446
Ile Glu Gly Lys Pro Tyr Thr Val
1 5

<210> 447
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*40:01

<400> 447
Ile Glu Gly Lys Pro Tyr Thr Val Asn Leu
1 5 10

<210> 448
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*49:01

<400> 448
Ile Glu Gly Tyr Pro Lys Ser Val
1 5

<210> 449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 449
Ile Glu Gly Tyr Pro Lys Ser Val Val
1 5

<210> 450

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*40:01

<400> 450
Ile Glu Gly Tyr Pro Lys Ser Val Val Met
1 5 10

<210> 451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02,HLA-A*11:01,HLA-B*18:01

<400> 451
Ile Glu Met His Val Ile Val Glu Lys
1 5

<210> 452
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*44:02,HLA-B*44:03

<400> 452
Ile Glu Met His Val Ile Val Glu Lys Gln Leu
1 5 10

<210> 453
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 453
Ile Glu Asn Ile Tyr His Ser Lys
1 5

<210> 454
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*49:01

<400> 454
Ile Glu Pro Leu Glu Ser Ser Val
1 5

<210> 455
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03

<400> 455
Ile Glu Pro Leu Glu Ser Ser Val Gly Phe
1 5 10

<210> 456
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*13:02,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 456
Ile Glu Ser Gln Ala Ser Tyr Lys Ile
1 5

<210> 457
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*49:01

<400> 457
Ile Glu Ser Gln Ala Ser Tyr Lys Ile Val
1               5                   10


<210> 458
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*49:01

<400> 458
Ile Glu Ser Gln Ala Ser Tyr Lys Ile Val Ile
1               5                   10


<210> 459
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*18:01,HLA-B*37:01

<400> 459
Ile Glu Ser Arg Asp Leu Ser Phe
1               5


<210> 460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*24:02

<400> 460
Ile Phe Val Ser Phe Asn Ile Thr Ile
1               5


<210> 461
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;

HLA -A*23:01,HLA-B*57:01

<400> 461
Ile Gly Leu Thr Asn Ala Ile Phe Val Ser Phe
1 5 10

<210> 462
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*38:01

<400> 462
Ile His Phe Ser Gly Val Lys Ile
1 5

<210> 463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*46:01

<400> 463
Ile Ile Lys Glu Gly Ile Glu Ser Gln
1 5

<210> 464
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03

<400> 464
Ile Ile Lys Glu Gly Ile Glu Ser Gln Ala
1 5 10

<210> 465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*57:01

<400> 465
Ile Ile Leu Ser Ser Leu Glu Leu Trp
1 5

<210> 466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01

<400> 466
Ile Ile Tyr Ala Asn Ile Ser Gly His
1 5

<210> 467
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03

<400> 467
Ile Lys Glu Gly Ile Glu Ser Gln Ala Ser Tyr
1 5 10

<210> 468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*57:01

<400> 468
Ile Met Lys Pro Leu Asp Gln Asp Phe
1 5

<210> 469
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*23:01,
HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*38:01,HLA-B*46:01,

<220>
<223> HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*04:01,HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02

<400> 469
Ile Met Asn Pro Glu Ala Ile His Phe
1 5

<210> 470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01

<400> 470
Ile Met Val Lys Val Asn Phe Gln Arg
1 5

<210> 471
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*54:01

<400> 471
Ile Pro Phe Phe Ile Ile Phe Cys Val
1 5

<210> 472
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;

HLA -B*35:01

<400> 472
Ile Pro Arg Ala Thr Ile Ile Tyr
1 5

<210> 473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 473
Ile Pro Arg Ala Thr Ile Ile Tyr Ala
1 5

<210> 474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*05:01

<400> 474
Ile Ser Asp Ser Gly Tyr Thr Gln Cys
1 5

<210> 475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 475
Ile Ser Lys Gln Lys Ser Gln Cys Leu
1 5

<210> 476
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01,HLA-B*46:01

<400> 476
Ile Thr Ile Ile Leu Ser Ser Leu
1 5

<210> 477
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*57:01

<400> 477
Ile Thr Ile Ile Leu Ser Ser Leu Glu Leu Trp
1 5 10

<210> 478
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*25:01,HLA-B*57:01

<400> 478
Ile Thr Val Pro Glu Lys Ile Arg Ser Ile
1 5 10

<210> 479
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 479
Ile Thr Tyr Asp Asp Ile Asn Lys
1 5

<210> 480
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-A*68:02

<400> 480
Ile Thr Tyr Asp Asp Ile Asn Lys Cys
1 5

<210> 481
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02

<400> 481
Ile Val Glu Lys Gln Leu Tyr Asn His
1 5

<210> 482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:01,HLA-B*46:01

<400> 482
Ile Val Ile Glu Gly Lys Pro Tyr
1 5

<210> 483
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,
HLA-B*49:01,HLA-B*51:01,HLA-B*55:01,HLA-B*56:01,HLA-C*02:02,

<220>
<223> HLA-C*12:03

<400> 483

Ile Val Ile Glu Gly Lys Pro Tyr Thr Val
1               5                   10


<210> 484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*32:01,HLA-B*58:01,
      HLA-C*04:01,HLA-C*14:02,HLA-C*16:02

<400> 484
Ile Tyr Ala Asn Ile Ser Gly His Leu
1               5


<210> 485
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*24:02

<400> 485
Ile Tyr Ala Asn Ile Ser Gly His Leu Cys
1               5                   10


<210> 486
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*24:02

<400> 486
Ile Tyr Ala Asn Ile Ser Gly His Leu Cys Ile
1               5                   10


<210> 487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;

HLA -A*24:02

<400> 487
Ile Tyr His Ser Lys Pro Met Arg Trp
1 5

<210> 488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 488
Lys Ala Asp Val Ser Leu Tyr Asn Glu Lys
1 5 10

<210> 489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*32:01,HLA-B*37:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:01,HLA-C*16:02

<400> 489
Lys Asp Ile Glu Ser Arg Asp Leu Ser Phe
1 5 10

<210> 490
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:02,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 490
Lys Glu Gly Ile Glu Ser Gln Ala Ser Tyr
1 5 10

<210> 491
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02

<400> 491
Lys Glu Gly Ile Glu Ser Gln Ala Ser Tyr Lys
1 5 10

<210> 492
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 492
Lys Glu Val Glu Phe Gly Pro Ser Glu Cys
1 5 10

<210> 493
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 493
Lys Glu Val Glu Phe Gly Pro Ser Glu Cys Tyr
1 5 10

<210> 494
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*27:05,HLA-B*40:01,HLA-B*58:01,HLA-C*01:02

<400> 494
Lys Ile Ala Thr Thr Gly Glu Ala Asn Glu Leu
1 5 10

<210> 495
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03

<400> 495
Lys Lys Ala Asp Val Ser Leu Tyr
1 5

<210> 496
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02,HLA-A*32:01,HLA-B*15:01

<400> 496
Lys Leu Gln Ser Val Glu Pro Gln Gln Asp Phe
1 5 10

<210> 497
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*57:01

<400> 497
Lys Asn Phe Leu Pro His Asn Phe
1 5

<210> 498
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-B*35:01,HLA-B*57:01

<400> 498
Lys Pro Leu Asp Gln Asp Phe Gln Asn Phe
1 5 10

<210> 499
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01,HLA-B*37:01,HLA-B*51:01,HLA-B*55:01

<400> 499
Lys Pro Tyr Thr Val Asn Leu Met
1 5

<210> 500
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01

<400> 500
Lys Pro Tyr Thr Val Asn Leu Met Gln Lys
1 5 10

<210> 501
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02

<400> 501
Lys Gln Gln Ala Val Cys Gly Asn Ala Lys
1 5 10

<210> 502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*37:01,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*16:01,HLA-C*16:04

<400> 502
Lys Ser Asn Tyr Val Gly Ala Thr Phe
1               5


<210> 503
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*58:01

<400> 503
Lys Ser Val Val Met Val Ser Thr Cys
1               5


<210> 504
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*31:01

<400> 504
Lys Thr Ser Tyr Leu Val Leu Arg
1               5


<210> 505
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*24:02

<400> 505
Lys Tyr Ile Glu Met His Val Ile
1               5


<210> 506
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*24:02

<400> 506
Lys Tyr Ile Glu Met His Val Ile Val
1 5

<210> 507
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01

<400> 507
Lys Tyr Ile Glu Met His Val Ile Val Glu Lys
1 5 10

<210> 508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*02:02,HLA-C*12:03

<400> 508
Leu Ala Val Ile Leu Ala Gln Leu Leu
1 5

<210> 509
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 509
Leu Asp Gln Asp Phe Gln Asn Phe
1 5

<210> 510

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*49:01

<400> 510
Leu Glu Ser Leu Ala Val Ile Leu
1 5

<210> 511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*49:01

<400> 511
Leu Glu Ser Leu Ala Val Ile Leu Ala
1 5

<210> 512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*18:01

<400> 512
Leu Glu Ser Ser Val Gly Phe Glu His
1 5

<210> 513
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*49:01

<400> 513
Leu Glu Ser Ser Val Gly Phe Glu His Val
1 5 10

<210> 514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*24:02,HLA-A*29:02

<400> 514
Leu Phe Ile Pro Phe Phe Ile Ile Phe
1 5

<210> 515
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 515
Leu Phe Met Ser Lys Glu Arg Met
1 5

<210> 516
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-B*15:01

<400> 516
Leu Leu Ser Leu Ser Met Gly Ile Thr Tyr
1 5 10

<210> 517
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*35:01,HLA-B*54:01

<400> 517
Leu Pro His Asn Phe Arg Val Tyr

1 5

<210> 518
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*29:02,HLA-B*35:01,HLA-B*54:01

<400> 518
Leu Pro His Asn Phe Arg Val Tyr Ser Tyr
1 5 10

<210> 519
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*54:01,HLA-B*56:01

<400> 519
Leu Pro Val Gln Ile Thr Val Pro
1 5

<210> 520
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*27:02

<400> 520
Leu Pro Val Gln Ile Thr Val Pro Glu Lys
1 5 10

<210> 521
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*51:01

<400> 521
Leu Pro Val Gln Ile Thr Val Pro Glu Lys Ile
1               5                   10


<210> 522
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
      HLA-B*39:01,HLA-B*46:01,HLA-C*14:02

<400> 522
Leu Gln Phe Glu Asn Val Ser Tyr
1               5


<210> 523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*24:02,HLA-B*13:02

<400> 523
Leu Gln Ile Pro Arg Ala Thr Ile Ile
1               5


<210> 524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*15:01,HLA-B*15:03

<400> 524
Leu Gln Ile Pro Arg Ala Thr Ile Ile Tyr
1               5                   10


<210> 525
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*27:02

<400> 525
Leu Arg Met Asp Ser Asn Phe Asp Ser Leu
1 5 10

<210> 526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01

<400> 526
Leu Ser Gly Leu Gly Gly Leu Arg Met
1 5

<210> 527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*07:01,HLA-C*12:03,HLA-C*16:01

<400> 527
Leu Ser Leu Ser Met Gly Ile Thr Tyr
1 5

<210> 528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:03,HLA-A*68:02,
HLA-B*15:01,HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,

<220>
<223> HLA-C*02:02,HLA-C*12:03,HLA-C*16:04

<400> 528
Leu Thr Asn Ala Ile Phe Val Ser Phe

1 5

<210> 529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*57:01

<400> 529
Leu Val Leu Arg Pro His Asp Val Ala Phe
1 5 10

<210> 530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01

<400> 530
Leu Val Tyr Arg Glu Lys Ser Asn Tyr
1 5

<210> 531
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 531
Leu Tyr Asn Glu Lys Asp Ile Glu Ser Arg
1 5 10

<210> 532
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 532
Met Asp Ser Asn Phe Asp Ser Leu
1               5


<210> 533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*11:01,HLA-B*27:02

<400> 533
Met Gly Ile Thr Tyr Asp Asp Ile Asn Lys
1               5                   10


<210> 534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*35:03,HLA-B*54:01

<400> 534
Met Gly Ser Asp Thr Thr Val Val Ala
1               5


<210> 535
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
      HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 535
Met Gly Ser Asp Thr Thr Val Val Ala Gln Lys
1               5                   10


<210> 536
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*38:01

<400> 536
Met His Val Ile Val Glu Lys Gln Leu
1 5

<210> 537
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 537
Met Val Lys Val Asn Phe Gln Arg
1 5

<210> 538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02

<400> 538
Asn Ala Ile Phe Val Ser Phe Asn Ile
1 5

<210> 539
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01

<400> 539
Asn Glu Lys Asp Ile Glu Ser Arg Asp Leu
1 5 10

<210> 540
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 540
Asn Glu Leu Leu His Thr Phe Leu
1 5

<210> 541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*44:02,HLA-B*44:03

<400> 541
Asn Glu Leu Leu His Thr Phe Leu Arg Trp
1 5 10

<210> 542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,HLA-C*04:01,HLA-C*05:01,
HLA-C*07:04

<400> 542
Asn Phe Asp Ser Leu Pro Val Gln Ile
1 5

<210> 543
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*29:02

<400> 543
Asn Phe Leu Pro His Asn Phe Arg Val Tyr
1 5 10

<210> 544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*14:02

<400> 544
Asn Phe Pro Pro Val Ala Ile Pro Ala
1 5

<210> 545
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*39:01

<400> 545
Asn His Met Gly Ser Asp Thr Thr
1 5

<210> 546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*38:01,HLA-B*39:01

<400> 546
Asn His Met Gly Ser Asp Thr Thr Val
1 5

<210> 547
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*38:01,HLA-B*39:01

<400> 547
Asn His Met Gly Ser Asp Thr Thr Val Val
1 5 10

<210> 548
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*38:01,HLA-B*39:01

<400> 548
Asn His Met Gly Ser Asp Thr Thr Val Val Ala
1 5 10

<210> 549
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02,HLA-C*01:02

<400> 549
Asn Ile Thr Ile Ile Leu Ser Ser Leu
1 5

<210> 550
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 550
Asn Leu Met Gln Lys Asn Phe Leu
1 5

<210> 551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*24:02

<400> 551

Asn Gln Pro Arg Leu Asp Pro Phe Phe
1               5


<210> 552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 552
Asn Gln Arg Cys Val Ser Ser Ser Tyr
1               5


<210> 553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*35:03

<400> 553
Asn Val Ser Tyr Gly Ile Glu Pro Leu
1               5


<210> 554
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-B*35:03,HLA-B*39:01,HLA-C*03:04,HLA-C*14:02

<400> 554
Asn Tyr Ala Gly Gly Val Val Leu
1               5


<210> 555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*29:02,HLA-A*33:03

<400> 555
Asn Tyr Ala Gly Gly Val Val Leu His
1               5


<210> 556
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 556
Asn Tyr Ala Gly Gly Val Val Leu His Pro Arg
1               5                   10


<210> 557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*33:03

<400> 557
Asn Tyr Val Gly Ala Thr Phe Gln Gly Lys
1               5                   10


<210> 558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*49:01

<400> 558
Pro Glu Ala Ile His Phe Ser Gly Val
1               5


<210> 559
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:07

<400> 559
Pro Leu Asp Gln Asp Phe Gln Asn Phe
1 5

<210> 560
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:02

<400> 560
Pro Gln Gln Asp Phe Ala Lys Tyr
1 5

<210> 561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02,HLA-A*11:01

<400> 561
Pro Val Gln Ile Thr Val Pro Glu Lys
1 5

<210> 562
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 562
Gln Ala Ser Tyr Lys Ile Val Ile
1 5

<210> 563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*07:01

<400> 563
Gln Cys Ser Gly Ala Val Cys Ile Met
1 5

<210> 564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*37:01

<400> 564
Gln Asp Phe Ala Lys Tyr Ile Glu Met
1 5

<210> 565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 565
Gln Asp Phe Gln Asn Phe Cys His Tyr
1 5

<210> 566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-B*27:02,HLA-B*27:05

<400> 566
Gln Gly Tyr Ile Glu Gly Tyr Pro Lys
1 5

<210> 567

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*25:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*46:01

<400> 567
Gln Leu Ile Gly Leu Thr Asn Ala Ile
1 5

<210> 568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*13:02

<400> 568
Gln Leu Leu Ser Leu Ser Met Gly Ile
1 5

<210> 569
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*29:02,HLA-A*30:02

<400> 569
Gln Leu Leu Ser Leu Ser Met Gly Ile Thr Tyr
1 5 10

<210> 570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:01,HLA-B*39:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 570
Gln Ser Val Glu Pro Gln Gln Asp Phe
1 5

<210> 571
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*11:01,HLA-B*27:02

<400> 571
Gln Ser Val Glu Pro Gln Gln Asp Phe Ala Lys
1 5 10

<210> 572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*57:01,HLA-B*58:01

<400> 572
Arg Ala Thr Ile Ile Tyr Ala Asn Ile
1 5

<210> 573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*40:02

<400> 573
Arg Glu Lys Ser Asn Tyr Val Gly Ala
1 5

<210> 574
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*40:02,HLA-B*44:02,HLA-B*57:01

<400> 574

Arg Glu Lys Ser Asn Tyr Val Gly Ala Thr Phe
1 5 10

<210> 575
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:01

<400> 575
Arg Gly Val Leu Gln Phe Glu Asn Val Ser Tyr
1 5 10

<210> 576
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:07

<400> 576
Arg Leu Asp Pro Phe Phe Lys Gln Gln Ala Val
1 5 10

<210> 577
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:07

<400> 577
Arg Leu Pro Glu Arg Arg Tyr Ile Glu Asn Ile
1 5 10

<210> 578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:07

<400> 578
Arg Met Asp Ser Asn Phe Asp Ser Leu
1               5


<210> 579
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*29:02

<400> 579
Arg Pro His Asp Val Ala Phe Leu Leu Val Tyr
1               5                   10


<210> 580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:04

<400> 580
Arg Val Leu Phe Leu Leu Ser Gly Leu
1               5


<210> 581
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:03,HLA-A*03:01

<400> 581
Arg Val Tyr Ser Tyr Ser Gly Thr Gly Ile
1               5                   10


<210> 582
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01,HLA-B*57:01

<400> 582
Arg Tyr Ile Glu Asn Ile Tyr His Ser Lys
1 5 10

<210> 583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:02,HLA-C*16:01

<400> 583
Ser Ala Ser Cys Pro Glu Asn His Tyr
1 5

<210> 584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 584
Ser Asp His Ala Asp Ser Gln Lys Met
1 5

<210> 585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*44:02,HLA-B*44:03

<400> 585
Ser Asp His Ala Asp Ser Gln Lys Met Trp
1 5 10

<210> 586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 586
Ser Asp Leu Trp Pro Gly Gly Ser Ile
1 5

<210> 587
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 587
Ser Asp Thr Thr Val Val Ala Gln
1 5

<210> 588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02,
HLA-B*27:05,HLA-C*07:06,HLA-C*16:02

<400> 588
Ser Asp Thr Thr Val Val Ala Gln Lys
1 5

<210> 589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*24:02

<400> 589
Ser Phe Glu Asp Phe Ala His Phe Ile
1 5

<210> 590

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01

<400> 590
Ser Phe Glu Asp Phe Ala His Phe Ile Ser Lys
1 5 10

<210> 591
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:02

<400> 591
Ser Gly Asn Cys Gly Ile Ser Asp Ser Gly Tyr
1 5 10

<210> 592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*27:05,HLA-C*16:02

<400> 592
Ser Gly Thr Gly Ile Met Lys Pro Leu
1 5

<210> 593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*39:01

<400> 593
Ser His Leu Asn Ser Lys Thr Asp Val
1 5

<210> 594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:07

<400> 594
Ser Ile Asp Ser Gly Asn Phe Pro Pro Val
1 5 10

<210> 595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*55:01

<400> 595
Ser Leu Ala Val Ile Leu Ala Gln Leu
1 5

<210> 596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:04,HLA-A*02:07,HLA-B*35:03

<400> 596
Ser Leu Glu Ser Leu Ala Val Ile Leu
1 5

<210> 597
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-C*16:01

<400> 597

Ser Leu Ser Met Gly Ile Thr Tyr
1               5


<210> 598
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*31:01,HLA-A*68:01

<400> 598
Ser Leu Tyr Asn Glu Lys Asp Ile Glu Ser Arg
1               5                   10


<210> 599
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*68:02,HLA-B*13:02

<400> 599
Ser Asn Phe Asp Ser Leu Pro Val Gln Ile
1               5                   10


<210> 600
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*25:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
      HLA-B*18:01,HLA-B*37:01,HLA-B*46:01,HLA-C*01:02,HLA-C*03:03,
      HLA-C*03:04,HLA-C*04:01,HLA-C*14:02

<400> 600
Ser Asn Tyr Val Gly Ala Thr Phe
1               5


<210> 601
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*11:01

<400> 601
Ser Asn Tyr Val Gly Ala Thr Phe Gln Gly Lys
1 5 10

<210> 602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-A*32:01,HLA-B*13:02,HLA-B*38:01,HLA-B*39:01,
HLA-C*06:02,HLA-C*16:01

<400> 602
Ser Gln Ala Ser Tyr Lys Ile Val Ile
1 5

<210> 603
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*30:02

<400> 603
Ser Ser Ala Ser Cys Pro Glu Asn His Tyr
1 5 10

<210> 604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02,HLA-B*13:02

<400> 604
Ser Ser Val Gly Phe Glu His Val Ile
1 5

<210> 605
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:02,HLA-A*11:01

<400> 605
Ser Val Glu Pro Gln Gln Asp Phe Ala Lys
1 5 10

<210> 606
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 606
Ser Val Glu Pro Gln Gln Asp Phe Ala Lys Tyr
1 5 10

<210> 607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*29:02

<400> 607
Ser Val Gly Phe Glu His Val Ile Tyr
1 5

<210> 608
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02

<400> 608
Ser Val Gly Phe Glu His Val Ile Tyr Gln Val
1 5 10

<210> 609

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 609
Ser Tyr Lys Ile Val Ile Glu Gly Lys
1 5

<210> 610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-C*04:01,HLA-C*14:02

<400> 610
Ser Tyr Leu Pro Pro Asp Cys Ser Val
1 5

<210> 611
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*04:01,HLA-C*14:02

<400> 611
Ser Tyr Ser Gly Thr Gly Ile Met
1 5

<210> 612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,
HLA-A*68:01

<400> 612
Ser Tyr Ser Gly Thr Gly Ile Met Lys
1 5

<210> 613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*06:02

<400> 613
Ser Tyr Ser Gly Thr Gly Ile Met Lys Pro
1 5 10

<210> 614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*16:01

<400> 614
Thr Cys Thr Gly Leu Arg Gly Val Leu
1 5

<210> 615
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01,HLA-C*16:02

<400> 615
Thr Asp Thr Phe Gly Lys Glu Val
1 5

<210> 616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*04:01

<400> 616

Thr Asp Val Ser Gly Asn Cys Gly Ile
1               5


<210> 617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*29:02

<400> 617
Thr Phe Leu Arg Trp Lys Thr Ser Tyr
1               5


<210> 618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*13:02

<400> 618
Thr Ile Ser Leu Glu Ser Leu Ala Val
1               5


<210> 619
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*18:01

<400> 619
Thr Asn Ala Ile Phe Val Ser Phe
1               5


<210> 620
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -C*01:02

<400> 620
Thr Thr Gly Glu Ala Asn Glu Leu
1               5


<210> 621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*32:01,HLA-B*15:03,HLA-B*57:01,HLA-B*58:01,
      HLA-C*16:01

<400> 621
Thr Thr Val Val Ala Gln Lys Val Phe
1               5


<210> 622
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*68:02

<400> 622
Thr Thr Val Val Ala Gln Lys Val Phe Gln Leu
1               5                   10


<210> 623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:03,HLA-A*02:07,HLA-A*25:01,HLA-A*26:01,HLA-B*08:01,
      HLA-B*51:01

<400> 623
Thr Val Pro Glu Lys Ile Arg Ser Ile
1               5


<210> 624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*31:01

<400> 624
Val Ala Phe Leu Leu Val Tyr Arg
1 5

<210> 625
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*37:01

<400> 625
Val Ala Gln Lys Val Phe Gln Leu
1 5

<210> 626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*24:02,HLA-B*13:02,HLA-B*51:01,HLA-B*58:01

<400> 626
Val Ala Gln Lys Val Phe Gln Leu Ile
1 5

<210> 627
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*24:02

<400> 627
Val Cys Ile Met Asn Pro Glu Ala Ile His Phe
1 5 10

<210> 628
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*49:01,HLA-C*12:03

<400> 628
Val Glu Phe Gly Pro Ser Glu Cys
1 5

<210> 629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*35:01,
HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,

<220>
<223> HLA-B*44:03,HLA-B*46:01,HLA-B*49:01,HLA-C*02:02,HLA-C*07:04,
HLA-C*16:04

<400> 629
Val Glu Phe Gly Pro Ser Glu Cys Tyr
1 5

<210> 630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*30:01,HLA-B*40:02,HLA-B*44:02

<400> 630
Val Glu Lys Gln Leu Tyr Asn His Met
1 5

<210> 631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*26:01,HLA-A*30:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 631
Val Glu Pro Gln Gln Asp Phe Ala Lys Tyr
1               5                   10


<210> 632
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,
      HLA-B*46:01,HLA-C*12:03

<400> 632
Val Gly Phe Glu His Val Ile Tyr
1               5


<210> 633
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*68:02

<400> 633
Val Gly Phe Glu His Val Ile Tyr Gln Val
1               5                   10


<210> 634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*08:01,
      HLA-B*13:02,HLA-B*39:01,HLA-B*55:01,HLA-C*05:01,HLA-C*12:03,
      HLA-C*16:02

<400> 634
Val Ile Glu Gly Lys Pro Tyr Thr Val
1               5


<210> 635
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*23:01,
HLA-A*24:02

<400> 635
Val Ile Leu Ala Gln Leu Leu Ser Leu
1 5

<210> 636
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*32:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01

<400> 636
Val Ile Val Glu Lys Gln Leu Tyr
1 5

<210> 637
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01

<400> 637
Val Ile Tyr Gln Val Lys His Lys
1 5

<210> 638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*03:01

<400> 638
Val Ile Tyr Gln Val Lys His Lys Lys
1 5

<210> 639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03

<400> 639
Val Lys Ile Phe Ser Asn Cys Ser Phe
1 5

<210> 640
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-A*02:04

<400> 640
Val Leu Phe Leu Leu Ser Gly Leu Gly Gly Leu
1 5 10

<210> 641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*37:01,HLA-B*40:02,
HLA-B*46:01,HLA-C*01:02

<400> 641
Val Leu His Pro Arg Thr Ile Ser Leu
1 5

<210> 642
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*13:02,HLA-B*55:01,HLA-C*02:02

<400> 642
Val Leu Ile Ala Ile Met Val Lys Val
1               5


<210> 643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*01:01,HLA-A*03:02,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
      HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,HLA-B*46:01,HLA-B*58:01,
      HLA-C*07:04,HLA-C*14:02

<400> 643
Val Leu Gln Phe Glu Asn Val Ser Tyr
1               5


<210> 644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*23:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*37:01,HLA-B*46:01,HLA-B*57:01,HLA-C*07:04

<400> 644
Val Leu Arg Pro His Asp Val Ala Phe
1               5


<210> 645
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*02:03,HLA-A*02:04,HLA-A*03:01

<400> 645
Val Leu Arg Pro His Asp Val Ala Phe Leu
1               5                   10


<210> 646
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:04

<400> 646
Val Leu Arg Pro His Asp Val Ala Phe Leu Leu
1 5 10

<210> 647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-B*13:02,HLA-B*15:03,HLA-B*46:01,HLA-B*55:01

<400> 647
Val Met Val Ser Thr Cys Thr Gly Leu
1 5

<210> 648
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*51:01

<400> 648
Val Pro Glu Lys Ile Arg Ser Ile
1 5

<210> 649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*51:01

<400> 649
Val Pro Glu Lys Ile Arg Ser Ile Ile
1 5

<210> 650
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,
HLA-B*13:02,HLA-B*38:01,HLA-B*49:01,HLA-C*06:02

<400> 650
Val Gln Ile Thr Val Pro Glu Lys Ile
1 5

<210> 651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-B*13:02,HLA-B*27:05

<400> 651
Val Gln Thr Gly His Pro Cys Gly Leu
1 5

<210> 652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*68:02,HLA-C*12:03

<400> 652
Val Ser Phe Asn Ile Thr Ile Ile Leu
1 5

<210> 653
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01

<400> 653
Val Ser Ser Ser Tyr Leu Gly Tyr
1 5

<210> 654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*08:01

<400> 654
Val Val Ala Gln Lys Val Phe Gln Leu
1 5

<210> 655
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01

<400> 655
Val Val Leu His Pro Arg Thr Ile Ser Leu
1 5 10

<210> 656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*24:02

<400> 656
Val Tyr Arg Glu Lys Ser Asn Tyr Val
1 5

<210> 657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*23:01,HLA-A*24:02,HLA-C*04:01,HLA-C*14:02

<400> 657

Val Tyr Ser Tyr Ser Gly Thr Gly Ile
1               5


<210> 658
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -C*14:02

<400> 658
Val Tyr Ser Tyr Ser Gly Thr Gly Ile Met
1               5                   10


<210> 659
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -C*07:01,HLA-C*07:04,HLA-C*12:03

<400> 659
Tyr Ala Gly Gly Val Val Leu His
1               5


<210> 660
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 660
Tyr Ala Gly Gly Val Val Leu His Pro Arg
1               5                   10


<210> 661
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -B*08:01,HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,HLA-C*01:02,

HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,HLA-C*16:01,HLA-C*16:02

<400> 661
Tyr Ala Asn Ile Ser Gly His Leu
1 5

<210> 662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -C*03:04

<400> 662
Tyr Ala Asn Ile Ser Gly His Leu Cys
1 5

<210> 663
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*51:01

<400> 663
Tyr Ala Asn Ile Ser Gly His Leu Cys Ile
1 5 10

<210> 664
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02,HLA-B*54:01

<400> 664
Tyr Gly Ile Glu Pro Leu Glu Ser Ser Val
1 5 10

<210> 665
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,
HLA-B*13:02,HLA-B*40:02,HLA-B*51:01,HLA-B*55:01,HLA-C*03:03,
HLA-C*03:04,HLA-C*05:01,HLA-C*12:03,HLA-C*16:02

<400> 665
Tyr Ile Glu Gly Tyr Pro Lys Ser Val
1 5

<210> 666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,
HLA-B*27:02

<400> 666
Tyr Ile Glu Asn Ile Tyr His Ser Lys
1 5

<210> 667
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*15:03

<400> 667
Tyr Lys Ile Val Ile Glu Gly Lys Pro Tyr
1 5 10

<210> 668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03,HLA-A*02:04

<400> 668
Tyr Leu Val Leu Arg Pro His Asp Val
1 5

<210> 669
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*08:01,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 669
Tyr Pro Lys Ser Val Val Met Val
1 5

<210> 670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*54:01

<400> 670
Tyr Pro Lys Ser Val Val Met Val Ser
1 5

<210> 671
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*54:01,HLA-B*56:01

<400> 671
Tyr Pro Lys Ser Val Val Met Val Ser Thr
1 5 10

<210> 672
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-C*07:01,HLA-C*07:04

<400> 672
Tyr Gln Gly Tyr Ile Glu Gly Tyr

1 5

<210> 673
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*27:02

<400> 673
Tyr Gln Gly Tyr Ile Glu Gly Tyr Pro Lys
1 5 10

<210> 674
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01

<400> 674
Tyr Ser Gly Thr Gly Ile Met Lys
1 5

<210> 675
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -B*13:02,HLA-B*51:01,HLA-C*03:03,HLA-C*03:04

<400> 675
Tyr Ser Tyr Ser Gly Thr Gly Ile
1 5

<210> 676
<211> 9
<212> PRT
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<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*01:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03

<400> 676
Tyr Ser Tyr Ser Gly Thr Gly Ile Met
1               5


<210> 677
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,
      HLA-B*27:02,HLA-C*07:06

<400> 677
Tyr Ser Tyr Ser Gly Thr Gly Ile Met Lys
1               5                   10


<210> 678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 678
Tyr Val Gly Ala Thr Phe Gln Gly Lys
1               5


<210> 679
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
      HLA -A*26:01

<400> 679
Tyr Val Gly Ala Thr Phe Gln Gly Lys Met
1               5                   10


<210> 680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*68:02,HLA-B*13:02

<400> 680
Tyr Val Gly Lys Phe Leu Leu Gln Ile
1 5

<210> 681
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM2; ENSG00000104755;
HLA -A*02:03

<400> 681
Tyr Val Gln Thr Gly His Pro Cys Gly Leu
1 5 10

<210> 682
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*11:01,HLA-B*37:01

<400> 682
Ala Asp Asp Thr Val Tyr Arg Arg
1 5

<210> 683
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01

<400> 683
Ala His Gln Leu Gly His Asn Leu
1 5

<210> 684
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01

<400> 684
Ala Ile Glu Ser His Asp Ile Cys Tyr
1 5

<210> 685
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 685
Ala Ile Glu Ser His Asp Ile Cys Tyr Lys
1 5 10

<210> 686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 686
Ala Pro Val Ala Cys Glu Glu Thr Leu
1 5

<210> 687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*58:01

<400> 687
Ala Ser Ile Ser Thr Cys Asn Gly Leu
1 5

<210> 688

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*49:01

<400> 688
Cys Glu Glu Thr Leu His Val Thr Asn Ile
1 5 10

<210> 689
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02,HLA-A*30:02

<400> 689
Cys Phe Tyr Gln Gly Ser Ile Val His Glu Tyr
1 5 10

<210> 690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -C*01:02

<400> 690
Cys Leu Pro Tyr Tyr Ser Thr Ser Ile
1 5

<210> 691
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02

<400> 691
Cys Met Leu Asn Ile Pro Phe Pro Tyr
1 5

<210> 692
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01

<400> 692
Cys Pro Ser Gly Lys Cys Val Met
1 5

<210> 693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*13:02

<400> 693
Cys Gln Ile Lys Lys Ala Gly Ser Ile
1 5

<210> 694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*58:01,
HLA-C*16:01,HLA-C*16:02

<400> 694
Cys Ser Gln Asn Gln Tyr His Gln Tyr
1 5

<210> 695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*11:01

<400> 695

Cys Thr Glu Leu Asn Phe Thr Arg Lys
1               5


<210> 696
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*33:01

<400> 696
Asp Ala His Thr Cys Val Leu Lys
1               5


<210> 697
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*18:01

<400> 697
Asp Asp Asp Ile Leu Lys Thr Tyr
1               5


<210> 698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*38:01,HLA-B*49:01

<400> 698
Asp Glu Ala Ile Glu Ser His Asp Ile
1               5


<210> 699
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*18:01

<400> 699
Asp Glu Ala Ile Glu Ser His Asp Ile Cys Tyr
1               5                   10


<210> 700
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*18:01

<400> 700
Asp Glu Cys Asp Phe Pro Glu Met
1               5


<210> 701
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*18:01,HLA-B*37:01

<400> 701
Asp Glu Gly Glu His Leu Val Phe
1               5


<210> 702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 702
Asp Glu Gly Glu His Leu Val Phe Lys Tyr
1               5                   10


<210> 703
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01

<400> 703
Asp Glu Lys Tyr Val Glu Leu Phe
1 5

<210> 704
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:01,HLA-B*35:03,HLA-C*04:01

<400> 704
Asp Phe Asp His Val Val Leu Leu
1 5

<210> 705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*25:01,HLA-A*33:01,HLA-A*68:01,HLA-B*18:01,HLA-B*44:03,
HLA-B*51:01,HLA-C*04:01

<400> 705
Asp Gly Ser Ile Pro Ala Leu Lys Phe
1 5

<210> 706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01

<400> 706
Asp Leu Leu Pro Asp Thr Asn Ile Ile
1 5

<210> 707
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:01

<400> 707
Asp Leu Leu Pro Asp Thr Asn Ile Ile Ala Asn
1 5 10

<210> 708
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 708
Asp Pro Gln Lys Asn Ala Thr Val
1 5

<210> 709
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01

<400> 709
Asp Gln Phe Arg Val Asn Gly Phe
1 5

<210> 710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-C*05:01

<400> 710
Asp Ser Asp Gly Ser Ile Pro Ala Leu
1 5

<210> 711

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*68:01

<400> 711
Asp Ser Asp Gly Ser Ile Pro Ala Leu Lys
1 5 10

<210> 712
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*33:01

<400> 712
Asp Ser Asp Gly Ser Ile Pro Ala Leu Lys Phe
1 5 10

<210> 713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*39:01,
HLA-B*54:01

<400> 713
Asp Ser Thr Asp Ile Gly Leu Val Ala
1 5

<210> 714
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 714
Asp Thr Asn Ile Ile Ala Asn Arg
1 5

<210> 715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 715
Asp Thr Asn Ile Ile Ala Asn Arg Met
1 5

<210> 716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02,HLA-B*51:01

<400> 716
Glu Ala Phe Thr Arg His Pro Gln Ile
1 5

<210> 717
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 717
Glu Ala Ile Glu Ser His Asp Ile
1 5

<210> 718
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*44:03,HLA-B*55:01,HLA-B*58:01,HLA-C*07:06

<400> 718
Glu Ala Ile Glu Ser His Asp Ile Cys Tyr
1               5                   10


<210> 719
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*33:01,HLA-A*68:01

<400> 719
Glu Ala Ile Glu Ser His Asp Ile Cys Tyr Lys
1               5                   10


<210> 720
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*37:01

<400> 720
Glu Asp Ser Lys Ile Lys Gly Ile
1               5


<210> 721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 721
Glu Glu Asp Ser Lys Ile Lys Gly Ile
1               5


<210> 722
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01,HLA-B*49:01

<400> 722
Glu Glu Glu Leu Leu Tyr Glu Ile
1 5

<210> 723
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 723
Glu Glu Glu Leu Leu Tyr Glu Ile Lys Leu
1 5 10

<210> 724
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01

<400> 724
Glu Glu Gly Gln Ala Pro Val Ala
1 5

<210> 725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01

<400> 725
Glu Glu Gly Gln Ala Pro Val Ala Cys
1 5

<210> 726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03

<400> 726
Glu Glu Leu Leu Tyr Glu Ile Lys Leu
1 5

<210> 727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 727
Glu Glu Thr Leu His Val Thr Asn Ile
1 5

<210> 728
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*44:02

<400> 728
Glu Glu Thr Leu His Val Thr Asn Ile Thr Ile
1 5 10

<210> 729
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02

<400> 729
Glu Phe Leu Gly Ser Asn Tyr Ser Glu Thr Phe
1 5 10

<210> 730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*29:02,HLA-A*33:01

<400> 730
Glu Gly Glu His Leu Val Phe Lys Tyr
1 5

<210> 731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:01,HLA-A*33:03

<400> 731
Glu Gly Gln Gln Leu Val Arg Pro Lys
1 5

<210> 732
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*26:01

<400> 732
Glu Leu Phe Asp Asp Glu Ala Ile Glu Ser His
1 5 10

<210> 733
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*26:01

<400> 733
Glu Leu Phe Ile Val Ala Asp Asp Thr Val Tyr
1 5 10

<210> 734
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:01,HLA-A*33:03

<400> 734
Glu Leu Leu Tyr Glu Ile Lys Leu Asn Arg
1 5 10

<210> 735
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 735
Glu Leu Tyr Ser Asn Ile Glu Thr Thr Leu
1 5 10

<210> 736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 736
Glu Pro Ile Leu Pro Glu Ile His Phe
1 5

<210> 737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*26:01

<400> 737

Glu Ser His Asp Ile Cys Tyr Lys Met
1               5


<210> 738
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*25:01,HLA-A*26:01

<400> 738
Glu Thr Phe Tyr Ser Met Lys Gly Glu Ala Phe
1               5                   10


<210> 739
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*25:01,HLA-A*26:01

<400> 739
Glu Thr Leu Gly Val Glu Asn Lys Gly Tyr
1               5                   10


<210> 740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*26:01,HLA-A*33:01

<400> 740
Glu Thr Leu Gly Val Glu Asn Lys Gly Tyr Phe
1               5                   10


<210> 741
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*68:02

<400> 741
Glu Thr Leu His Val Thr Asn Ile Thr Ile
1               5                   10


<210> 742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*25:01

<400> 742
Glu Thr Thr Leu Leu Arg Phe Ser Phe
1               5


<210> 743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*29:02

<400> 743
Phe Phe Arg Ile Asn Asp Gln Arg Tyr
1               5


<210> 744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*30:01,HLA-B*27:05,
      HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,HLA-C*01:02,HLA-C*07:04

<400> 744
Phe Ile Leu Gly Val Glu Gly Gln Gln Leu
1               5                   10


<210> 745
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02

<400> 745
Phe Ile Leu Gly Val Glu Gly Gln Gln Leu Val
1 5 10

<210> 746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*26:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*35:03,HLA-B*46:01,HLA-B*55:01,HLA-C*02:02,HLA-C*03:03,
HLA-C*07:04

<400> 746
Phe Ile Val Ala Asp Asp Thr Val Tyr
1 5

<210> 747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:01,HLA-A*68:02,HLA-B*27:02

<400> 747
Phe Ile Val Ala Asp Asp Thr Val Tyr Arg
1 5 10

<210> 748
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01

<400> 748
Phe Leu Gly Ser Asn Tyr Ser Glu Thr Phe Tyr
1 5 10

<210> 749

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 749
Phe Leu Tyr His Asp Ser Thr Asp Ile
1 5

<210> 750
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 750
Phe Leu Tyr His Asp Ser Thr Asp Ile Gly Leu
1 5 10

<210> 751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*15:03,HLA-B*35:01,HLA-B*55:01,HLA-C*07:01

<400> 751
Phe Pro Cys Lys Asn Ser Glu Gly Tyr
1 5

<210> 752
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*54:01

<400> 752
Phe Pro Tyr Asn Phe His Asp Phe Gln Phe
1 5 10

<210> 753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:02,HLA-B*46:01

<400> 753
Phe Ser Lys Cys Ser Gln Asn Gln Tyr
1 5

<210> 754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07,HLA-A*25:01

<400> 754
Phe Val Asn Met Ile Tyr Lys Thr Leu
1 5

<210> 755
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*33:01,HLA-A*33:03,HLA-B*46:01,HLA-C*02:02,HLA-C*14:02

<400> 755
Phe Tyr Gln Gly Ser Ile Val His Glu Tyr
1 5 10

<210> 756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 756

Phe Tyr Ser Met Lys Gly Glu Ala Phe
1               5


<210> 757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*30:01,HLA-B*40:02,HLA-B*49:01

<400> 757
Gly Glu Cys Leu Asn Met Glu Lys Val
1               5


<210> 758
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*44:02,HLA-B*44:03

<400> 758
Gly Glu Cys Leu Asn Met Glu Lys Val Tyr
1               5                   10


<210> 759
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 759
Gly Glu Asp Lys Thr Tyr His Leu
1               5


<210> 760
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 760
Gly Glu His Leu Val Phe Lys Tyr
1               5


<210> 761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*29:02

<400> 761
Gly Phe Phe Arg Ile Asn Asp Gln Arg Tyr
1               5                   10


<210> 762
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*68:01,
      HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 762
Gly Ile Ala Asp Pro Asn Gln Ser Ala Lys
1               5                   10


<210> 763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*13:02

<400> 763
Gly Ile Gly Val Leu Ile Leu Leu Val
1               5


<210> 764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 764
Gly Met Val Asn Phe Val Asn Met Ile
1 5

<210> 765
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02,HLA-A*30:02

<400> 765
Gly Met Val Asn Phe Val Asn Met Ile Tyr
1 5 10

<210> 766
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:01

<400> 766
Gly Met Val Asn Phe Val Asn Met Ile Tyr Lys
1 5 10

<210> 767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:05

<400> 767
Gly Gln Ala Pro Val Ala Cys Glu Glu
1 5

<210> 768
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*13:02,HLA-B*27:05,HLA-B*38:01

<400> 768
Gly Gln Ala Pro Val Ala Cys Glu Glu Thr Leu
1 5 10

<210> 769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:02

<400> 769
Gly Gln Gln Leu Val Arg Pro Lys
1 5

<210> 770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*57:01,HLA-B*58:01

<400> 770
Gly Ser Ile Pro Ala Leu Lys Phe
1 5

<210> 771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*11:01,HLA-A*31:01

<400> 771
Gly Ser Ile Pro Ala Leu Lys Phe Ser Lys
1 5 10

<210> 772

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*58:01

<400> 772
Gly Ser Asn Tyr Ser Glu Thr Phe Tyr
1 5

<210> 773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:01,HLA-C*07:06

<400> 773
Gly Val Glu Gly Gln Gln Leu Val Arg
1 5

<210> 774
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 774
Gly Val Glu Gly Gln Gln Leu Val Arg Pro Lys
1 5 10

<210> 775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02,HLA-A*30:02

<400> 775
Gly Val Leu Ile Leu Leu Val Arg Tyr
1 5

<210> 776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-B*13:02

<400> 776
Gly Tyr Phe Gly Asp Glu Gln Gln Ile
1 5

<210> 777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 777
His Asp Asp Asp Ile Leu Lys Thr Tyr
1 5

<210> 778
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*37:01

<400> 778
His Asp Ser Thr Asp Ile Gly Leu
1 5

<210> 779
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 779
His Glu Asp Lys Ile Glu Leu Tyr

1 5

<210> 780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*30:01,HLA-B*13:02,HLA-B*15:03,HLA-B*18:01,
HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*51:01,HLA-C*02:02,

<220>
<223> HLA-C*12:03,HLA-C*16:04

<400> 780
His Glu Tyr Asp Ser Ala Ala Ser Ile
1 5

<210> 781
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 781
His Glu Tyr Asp Ser Ala Ala Ser Ile Ser Thr
1 5 10

<210> 782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:03

<400> 782
His Phe Leu Asn Lys Pro Ala Ser Lys
1 5

<210> 783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:03

<400> 783
His Leu Lys Asp Pro Gln Lys Asn Ala
1 5

<210> 784
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:03

<400> 784
His Leu Lys Asp Pro Gln Lys Asn Ala Thr Val
1 5 10

<210> 785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:01,HLA-B*35:03

<400> 785
His Pro Gln Ile Met Asp His Cys Phe
1 5

<210> 786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*13:02,HLA-B*15:03,HLA-B*37:01

<400> 786
His Gln Leu Gly His Asn Leu Gly Met
1 5

<210> 787
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*11:01,HLA-A*68:01

<400> 787
His Thr His Asp Asp Asp Ile Leu Lys
1 5

<210> 788
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*57:01

<400> 788
His Thr His Asp Asp Asp Ile Leu Lys Thr Tyr
1 5 10

<210> 789
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02,HLA-B*13:02

<400> 789
His Val Thr Leu Val Gly Ile Glu Ile
1 5

<210> 790
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*57:01

<400> 790
His Val Thr Leu Val Gly Ile Glu Ile Trp
1 5 10

<210> 791
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:03,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*13:02

<400> 791
His Val Thr Asn Ile Thr Ile Leu Val
1 5

<210> 792
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02,HLA-B*13:02

<400> 792
His Val Thr Asn Ile Thr Ile Leu Val Val
1 5 10

<210> 793
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02

<400> 793
His Val Thr Asn Ile Thr Ile Leu Val Val Val
1 5 10

<210> 794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*57:01

<400> 794
His Val Val Leu Leu Ser Gly Lys Trp
1 5

<210> 795
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -C*05:01

<400> 795
Ile Ala Asp Pro Asn Gln Ser Ala
1 5

<210> 796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,
HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*39:01,
HLA-B*51:01,HLA-B*57:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*05:01,HLA-C*07:06,HLA-C*16:02

<400> 796
Ile Ala Asp Pro Asn Gln Ser Ala Lys
1 5

<210> 797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-B*58:01,HLA-C*03:04,HLA-C*16:02

<400> 797
Ile Ala Asn Arg Met Ala His Gln Leu
1 5

<210> 798
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 798
Ile Glu Leu Tyr Ser Asn Ile Glu Thr Thr Leu
1 5 10

<210> 799
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01

<400> 799
Ile Glu Ser His Asp Ile Cys Tyr
1 5

<210> 800
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01,HLA-B*37:01

<400> 800
Ile Glu Thr Thr Leu Leu Arg Phe
1 5

<210> 801
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*44:02

<400> 801
Ile Glu Thr Thr Leu Leu Arg Phe Ser Phe
1 5 10

<210> 802
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01

<400> 802
Ile Phe Leu Met Ile Leu Leu Ile
1 5

<210> 803
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 803
Ile Gly Val Leu Ile Leu Leu Val
1 5

<210> 804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07,HLA-B*38:01,HLA-B*39:01,HLA-C*05:01

<400> 804
Ile His Asp Glu Lys Tyr Val Glu Leu
1 5

<210> 805
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01

<400> 805
Ile His Asp Glu Lys Tyr Val Glu Leu Phe
1 5 10

<210> 806

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:03,HLA-A*02:04,HLA-B*46:01

<400> 806
Ile Leu Lys Thr Tyr Glu Glu Glu Leu
1 5

<210> 807
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02

<400> 807
Ile Leu Lys Thr Tyr Glu Glu Glu Leu Leu Tyr
1 5 10

<210> 808
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:04,HLA-A*02:07

<400> 808
Ile Leu Pro Glu Ile His Phe Leu
1 5

<210> 809
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07,HLA-A*03:01

<400> 809
Ile Leu Pro Glu Ile His Phe Leu Asn Lys
1 5 10

<210> 810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07

<400> 810
Ile Leu Val Val Val Leu Val Leu Val
1 5

<210> 811
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:01,HLA-B*54:01

<400> 811
Ile Pro Phe Pro Tyr Asn Phe His Asp Phe
1 5 10

<210> 812
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*07:02,HLA-B*08:01

<400> 812
Ile Pro Gln Val Lys Glu Lys Phe
1 5

<210> 813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-B*15:03,HLA-B*46:01,HLA-B*51:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04

<400> 813

Ile Ser Tyr Pro Gly Gly Met Cys Leu
1               5


<210> 814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*68:02

<400> 814
Ile Thr Ile Leu Val Val Val Leu Val
1               5


<210> 815
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*15:01,HLA-B*15:03,HLA-B*39:01

<400> 815
Ile Val Ala Asp Asp Thr Val Tyr
1               5


<210> 816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*31:01,
      HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*27:02,
      HLA-B*27:05,HLA-B*57:01,HLA-C*07:06

<400> 816
Ile Val Ala Asp Asp Thr Val Tyr Arg
1               5


<210> 817
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-C*07:06

<400> 817
Ile Val Ala Asp Asp Thr Val Tyr Arg Arg
1 5 10

<210> 818
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*54:01

<400> 818
Ile Val His Glu Tyr Asp Ser Ala Ala
1 5

<210> 819
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -C*01:02,HLA-C*04:01,HLA-C*14:02

<400> 819
Ile Tyr Cys Thr Gly Gly Glu Leu
1 5

<210> 820
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*24:02

<400> 820
Ile Tyr Cys Thr Gly Gly Glu Leu Ser Ser Leu
1 5 10

<210> 821
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02

<400> 821
Ile Tyr Lys Thr Leu Asn Ile His Val
1 5

<210> 822
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02

<400> 822
Ile Tyr Lys Thr Leu Asn Ile His Val Thr Leu
1 5 10

<210> 823
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:02

<400> 823
Lys Cys Ser Gln Asn Gln Tyr His Gln Tyr
1 5 10

<210> 824
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*37:01

<400> 824
Lys Asp Phe Asp His Val Val Leu
1 5

<210> 825

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*30:01,HLA-A*68:02,
HLA-B*37:01,HLA-B*40:01,HLA-B*40:02

<400> 825
Lys Asp Phe Asp His Val Val Leu Leu
1 5

<210> 826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*37:01

<400> 826
Lys Asp Leu Leu Pro Asp Thr Asn Ile
1 5

<210> 827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*37:01

<400> 827
Lys Asp Pro Gln Lys Asn Ala Thr Val
1 5

<210> 828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*37:01

<400> 828
Lys Asp Gln Phe Arg Val Asn Gly Phe
1 5

<210> 829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*37:01,HLA-B*40:02

<400> 829
Lys Asp Tyr Lys Pro Thr Cys Met
1 5

<210> 830
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01

<400> 830
Lys Phe Ile Leu Gly Val Glu Gly Gln Gln Leu
1 5 10

<210> 831
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*13:02,HLA-B*40:02,HLA-B*58:01,HLA-C*06:02

<400> 831
Lys Gly Tyr Phe Gly Asp Glu Gln Gln Ile
1 5 10

<210> 832
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*31:01

<400> 832

Lys Gly Tyr Phe Gly Asp Glu Gln Gln Ile Arg
1               5                   10


<210> 833
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*03:01,HLA-B*08:01

<400> 833
Lys Leu Asn Arg Lys Thr Leu Val Leu
1               5


<210> 834
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*30:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*38:01,
      HLA-B*39:01,HLA-B*40:01,HLA-B*58:01

<400> 834
Lys Gln Val Gln Ser Pro Pro Thr Glu Thr Leu
1               5                   10


<210> 835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,
      HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,HLA-B*57:01,HLA-B*58:01,
      HLA-C*12:03

<400> 835
Lys Thr Leu Asn Ile His Val Thr Leu
1               5


<210> 836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*31:01,HLA-B*57:01

<400> 836
Lys Thr Leu Val Leu His Leu Leu Arg
1 5

<210> 837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*57:01,HLA-B*58:01

<400> 837
Lys Thr Tyr Glu Glu Glu Leu Leu Tyr
1 5

<210> 838
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01

<400> 838
Lys Thr Tyr Glu Glu Glu Leu Leu Tyr Glu Ile
1 5 10

<210> 839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 839
Lys Thr Tyr His Leu Lys Asp Pro Gln Lys
1 5 10

<210> 840
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 840
Lys Tyr Ser Asp Glu Gly Glu His Leu Val Phe
1 5 10

<210> 841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02

<400> 841
Leu Phe Ile Val Ala Asp Asp Thr Val Tyr
1 5 10

<210> 842
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01

<400> 842
Leu Gly Met Gln His Asp Glu Phe
1 5

<210> 843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02

<400> 843
Leu Gly Ser Asn Tyr Ser Glu Thr Phe Tyr
1 5 10

<210> 844
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -C*03:03,HLA-C*03:04

<400> 844
Leu Gly Val Glu Gly Gln Gln Leu
1 5

<210> 845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*24:02

<400> 845
Leu Ile Pro Gln Val Lys Glu Lys Phe
1 5

<210> 846
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:03,HLA-A*02:04

<400> 846
Leu Leu Gly Glu Asp Lys Thr Tyr His Leu
1 5 10

<210> 847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:01,HLA-A*03:02

<400> 847
Leu Leu Ile Pro Gln Val Lys Glu Lys
1 5

<210> 848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07

<400> 848
Leu Leu Pro Asp Thr Asn Ile Ile Ala
1 5

<210> 849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07

<400> 849
Leu Leu Pro Asp Thr Asn Ile Ile Ala Asn
1 5 10

<210> 850
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07,HLA-A*03:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02

<400> 850
Leu Leu Pro Asp Thr Asn Ile Ile Ala Asn Arg
1 5 10

<210> 851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:01,HLA-A*29:02,HLA-A*31:01

<400> 851
Leu Leu Tyr Glu Ile Lys Leu Asn Arg
1               5


<210> 852
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*03:01

<400> 852
Leu Leu Tyr Glu Ile Lys Leu Asn Arg Lys
1               5                   10


<210> 853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 853
Leu Met Ile Leu Leu Ile Pro Gln Val
1               5


<210> 854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*23:01,HLA-A*24:02

<400> 854
Leu Asn Ile Pro Phe Pro Tyr Asn Phe
1               5


<210> 855
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;

HLA -B*55:01

<400> 855
Leu Pro Asp Thr Asn Ile Ile Ala
1 5

<210> 856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*55:01

<400> 856
Leu Pro Asp Thr Asn Ile Ile Ala Asn
1 5

<210> 857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 857
Leu Pro Asp Thr Asn Ile Ile Ala Asn Arg
1 5 10

<210> 858
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 858
Leu Pro Asp Thr Asn Ile Ile Ala Asn Arg Met
1 5 10

<210> 859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 859
Leu Pro Gly Cys Ile Phe Leu Met Ile
1 5

<210> 860
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 860
Leu Pro Tyr Tyr Ser Thr Ser Ile
1 5

<210> 861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:03,HLA-B*51:01,HLA-B*54:01

<400> 861
Leu Pro Tyr Tyr Ser Thr Ser Ile Ile
1 5

<210> 862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 862
Leu Pro Tyr Tyr Ser Thr Ser Ile Ile Lys
1 5 10

<210> 863
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02,HLA-A*30:02,HLA-B*27:02,HLA-B*27:05,HLA-C*02:02,
HLA-C*16:04

<400> 863
Leu Arg Val Pro Tyr Gly Ala Asn Tyr
1 5

<210> 864
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01

<400> 864
Leu Ser Ser Leu Leu Gly Glu Asp Lys Thr Tyr
1 5 10

<210> 865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*25:01

<400> 865
Leu Val Ile Val Gly Ile Gly Val Leu
1 5

<210> 866
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-B*46:01,
HLA-C*07:01,HLA-C*14:02

<400> 866
Leu Tyr Ser His Val Gln Gly Ile Ser Tyr
1 5 10

<210> 867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*58:01,HLA-C*14:02

<400> 867
Leu Tyr Ser Asn Ile Glu Thr Thr Leu
1 5

<210> 868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02

<400> 868
Leu Tyr Ser Asn Ile Glu Thr Thr Leu Leu
1 5 10

<210> 869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-C*02:02,HLA-C*16:02

<400> 869
Met Ala His Gln Leu Gly His Asn Leu
1 5

<210> 870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*25:01,HLA-A*30:01,HLA-B*35:03,HLA-B*38:01

<400> 870
Met Asp Ser Asp Gly Ser Ile Pro Ala Leu
1               5                   10


<210> 871
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*02:04,HLA-B*51:01,HLA-B*54:01

<400> 871
Met Ile Leu Leu Ile Pro Gln Val
1               5


<210> 872
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*51:01

<400> 872
Met Ile Tyr Lys Thr Leu Asn Ile
1               5


<210> 873
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*68:02

<400> 873
Met Ile Tyr Lys Thr Leu Asn Ile His Val
1               5                   10


<210> 874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;

HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 874
Met Val Asn Phe Val Asn Met Ile Tyr
1 5

<210> 875
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 875
Met Val Asn Phe Val Asn Met Ile Tyr Lys
1 5 10

<210> 876
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*18:01

<400> 876
Asn Glu Asn Pro Val Asp Gly His
1 5

<210> 877
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-C*16:04

<400> 877
Asn Glu Asn Pro Val Asp Gly His Gly Leu
1 5 10

<210> 878
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*49:01

<400> 878
Asn Glu Ser Glu Glu Asp Ser Lys Ile
1 5

<210> 879
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01

<400> 879
Asn Phe Val Asn Met Ile Tyr Lys Thr Leu
1 5 10

<210> 880
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01

<400> 880
Asn Gly His Pro His Asn Lys Leu
1 5

<210> 881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01

<400> 881
Asn Ile Glu Thr Thr Leu Leu Arg Phe
1 5

<210> 882

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02,HLA-A*30:02

<400> 882
Asn Leu Arg Val Pro Tyr Gly Ala Asn Tyr
1 5 10

<210> 883
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*24:02

<400> 883
Asn Met Ile Tyr Lys Thr Leu Asn Ile
1 5

<210> 884
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:03

<400> 884
Asn Pro Val Asp Gly His Gly Leu
1 5

<210> 885
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*35:03,HLA-B*54:01,HLA-B*56:01

<400> 885
Asn Pro Val Asp Gly His Gly Leu Gln Cys
1 5 10

<210> 886
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01

<400> 886
Asn Thr Lys Gly Asn Lys Phe Gly Tyr
1 5

<210> 887
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02

<400> 887
Asn Tyr Ser Cys Thr Glu Leu Asn Phe
1 5

<210> 888
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-B*35:01,HLA-B*35:03,
HLA-C*04:01,HLA-C*14:02

<400> 888
Asn Tyr Ser Glu Thr Phe Tyr Ser Met
1 5

<210> 889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02

<400> 889

Pro Asp Thr Asn Ile Ile Ala Asn Arg
1               5


<210> 890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*24:02

<400> 890
Pro Phe Pro Tyr Asn Phe His Asp Phe
1               5


<210> 891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*02:04

<400> 891
Pro Ile Leu Pro Glu Ile His Phe Leu
1               5


<210> 892
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*27:02

<400> 892
Pro Pro Thr Glu Thr Leu Gly Val Glu Asn Lys
1               5                   10


<210> 893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*24:02

<400> 893
Pro Tyr Asn Phe His Asp Phe Gln Phe
1               5


<210> 894
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,
      HLA-B*37:01,HLA-C*16:01,HLA-C*16:02

<400> 894
Gln Gly Ser Ile Val His Glu Tyr
1               5


<210> 895
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*08:01

<400> 895
Gln Ile Lys Lys Ala Gly Ser Ile
1               5


<210> 896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*38:01

<400> 896
Gln Gln Ile Arg Thr Glu Pro Ile Leu
1               5


<210> 897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02,HLA-B*27:05

<400> 897
Gln Arg Tyr Leu Ile Glu Pro Val Lys
1 5

<210> 898
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02,HLA-B*27:05,HLA-B*44:02,HLA-C*16:04

<400> 898
Gln Arg Tyr Leu Ile Glu Pro Val Lys Tyr
1 5 10

<210> 899
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01

<400> 899
Gln Val Lys Glu Lys Phe Ile Leu
1 5

<210> 900
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*25:01,HLA-B*07:02,HLA-B*38:01,HLA-B*39:01

<400> 900
Gln Val Gln Ser Pro Pro Thr Glu Thr Leu
1 5 10

<210> 901
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*15:03,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01,HLA-C*16:04

<400> 901
Arg Glu Phe Leu Gly Ser Asn Tyr
1 5

<210> 902
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*31:01

<400> 902
Arg Gly Phe Phe Arg Ile Asn Asp Gln Arg
1 5 10

<210> 903
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:02,HLA-A*11:01

<400> 903
Arg Gly Ile Ala Asp Pro Asn Gln Ser Ala Lys
1 5 10

<210> 904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:04

<400> 904
Arg Ile Asn Asp Gln Arg Tyr Leu Ile
1 5

<210> 905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 905
Arg Ile Trp Gly Met Val Asn Phe Val
1 5

<210> 906
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:02,HLA-B*57:01

<400> 906
Arg Ser Arg Glu Phe Leu Gly Ser Asn Tyr
1 5 10

<210> 907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:07,HLA-B*57:01,HLA-B*58:01

<400> 907
Arg Thr Glu Pro Ile Leu Pro Glu Ile
1 5

<210> 908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,
HLA-B*57:01

<400> 908
Arg Tyr Leu Ile Glu Pro Val Lys Tyr

1 5

<210> 909
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -C*12:03

<400> 909
Ser Ala Ala Ser Ile Ser Thr Cys
1 5

<210> 910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 910
Ser Cys Thr Glu Leu Asn Phe Thr Arg
1 5

<210> 911
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*11:01

<400> 911
Ser Cys Thr Glu Leu Asn Phe Thr Arg Lys
1 5 10

<210> 912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*37:01

<400> 912
Ser Asp Glu Gly Glu His Leu Val Phe
1               5


<210> 913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*11:01

<400> 913
Ser Asp Glu Gly Glu His Leu Val Phe Lys
1               5                   10


<210> 914
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:02

<400> 914
Ser Asp Gly Ser Ile Pro Ala Leu
1               5


<210> 915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 915
Ser Asp Gly Ser Ile Pro Ala Leu Lys
1               5


<210> 916
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;

HLA -A*23:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 916
Ser Asp Gly Ser Ile Pro Ala Leu Lys Phe
1 5 10

<210> 917
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 917
Ser Glu Glu Asp Ser Lys Ile Lys Gly Ile
1 5 10

<210> 918
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*40:01,HLA-B*49:01

<400> 918
Ser Glu Leu Phe Asp Asp Glu Ala Ile
1 5

<210> 919
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*31:01

<400> 919
Ser Phe Trp Gln Glu Lys Ile Leu Lys Thr Arg
1 5 10

<210> 920
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*15:03,HLA-B*39:01

<400> 920
Ser His Val Gln Gly Ile Ser Tyr
1 5

<210> 921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:02,HLA-B*15:01

<400> 921
Ser Leu Leu Gly Glu Asp Lys Thr Tyr
1 5

<210> 922
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 922
Ser Leu Leu Gly Glu Asp Lys Thr Tyr His Leu
1 5 10

<210> 923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 923
Ser Met Lys Gly Glu Ala Phe Thr Arg
1 5

<210> 924
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 924
Ser Asn Ile Glu Thr Thr Leu Leu Arg
1 5

<210> 925
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*26:01

<400> 925
Ser Asn Ile Glu Thr Thr Leu Leu Arg Phe
1 5 10

<210> 926
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*07:02,HLA-B*35:01,HLA-C*07:02

<400> 926
Ser Pro Ala Cys Pro Lys Asp Gln Phe
1 5

<210> 927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 927
Ser Pro Pro Thr Glu Thr Leu Gly Val
1 5

<210> 928

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03

<400> 928
Ser Gln Asn Gln Tyr His Gln Tyr
1 5

<210> 929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:04,HLA-A*24:02,HLA-A*31:01,HLA-A*32:01,HLA-B*13:02,
HLA-B*15:01,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,
HLA-C*04:01,HLA-C*07:04

<400> 929
Ser Gln Asn Gln Tyr His Gln Tyr Leu
1 5

<210> 930
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*11:01

<400> 930
Ser Gln Asn Gln Tyr His Gln Tyr Leu Lys
1 5 10

<210> 931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02

<400> 931
Ser Arg Glu Phe Leu Gly Ser Asn Tyr

1 5

<210> 932
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*58:01

<400> 932
Ser Ser Leu Leu Gly Glu Asp Lys Thr Tyr
1 5 10

<210> 933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02,HLA-B*27:05

<400> 933
Ser Thr Ser Ile Ile Lys Asp Leu Leu
1 5

<210> 934
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02

<400> 934
Ser Tyr Pro Gly Gly Met Cys Leu Pro Tyr
1 5 10

<210> 935
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02

<400> 935
Thr Asp Ile Gly Leu Val Ala Ser Gly Thr Lys
1               5                   10


<210> 936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*49:01

<400> 936
Thr Glu Leu Asn Phe Thr Arg Lys Thr Val
1               5                   10


<210> 937
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*49:01,HLA-B*51:01

<400> 937
Thr Glu Pro Ile Leu Pro Glu Ile
1               5


<210> 938
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -B*44:02,HLA-B*44:03

<400> 938
Thr Glu Pro Ile Leu Pro Glu Ile His Phe
1               5                   10


<210> 939
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;

HLA -B*44:02

<400> 939
Thr Glu Pro Ile Leu Pro Glu Ile His Phe Leu
1 5 10

<210> 940
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*44:02,HLA-B*44:03

<400> 940
Thr Glu Thr Leu Gly Val Glu Asn Lys Gly Tyr
1 5 10

<210> 941
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*24:02

<400> 941
Thr Phe Tyr Ser Met Lys Gly Glu Ala Phe
1 5 10

<210> 942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*03:02,HLA-A*11:01

<400> 942
Thr Gly His Ser Pro Ala Cys Pro Lys
1 5

<210> 943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01

<400> 943
Thr His Asp Asp Asp Ile Leu Lys Thr
1 5

<210> 944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-B*38:01,HLA-B*39:01

<400> 944
Thr His Asp Asp Asp Ile Leu Lys Thr Tyr
1 5 10

<210> 945
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01

<400> 945
Thr His Glu Asp Lys Ile Glu Leu
1 5

<210> 946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-B*38:01,HLA-B*39:01

<400> 946
Thr His Glu Asp Lys Ile Glu Leu Tyr
1 5

<210> 947
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01

<400> 947
Thr Ile Leu Val Val Val Leu Val Leu
1 5

<210> 948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*13:02

<400> 948
Thr Leu His Val Thr Asn Ile Thr Ile
1 5

<210> 949
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01,HLA-B*37:01

<400> 949
Thr Leu Asn Ile His Val Thr Leu
1 5

<210> 950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*37:01,HLA-B*55:01

<400> 950
Thr Leu Asn Ile His Val Thr Leu Val
1 5

<210> 951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*57:01

<400> 951
Thr Thr Leu Leu Arg Phe Ser Phe Trp
1 5

<210> 952
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01

<400> 952
Thr Val Lys Cys Lys Thr Ile Phe
1 5

<210> 953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 953
Val Ala Cys Glu Glu Thr Leu His Val
1 5

<210> 954
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-C*05:01

<400> 954
Val Ala Asp Asp Thr Val Tyr Arg
1 5

<210> 955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,
HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*38:01,
HLA-C*05:01

<400> 955
Val Ala Asp Asp Thr Val Tyr Arg Arg
1 5

<210> 956
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02

<400> 956
Val Glu Gly Gln Gln Leu Val Arg Pro Lys
1 5 10

<210> 957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01,HLA-B*39:01

<400> 957
Val His Glu Tyr Asp Ser Ala Ala Ser Ile
1 5 10

<210> 958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*23:01,HLA-A*68:02,HLA-B*13:02

<400> 958
Val Ile Val Gly Ile Gly Val Leu Ile
1               5


<210> 959
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*02:04,HLA-A*23:01

<400> 959
Val Ile Val Gly Ile Gly Val Leu Ile Leu Leu
1               5                   10


<210> 960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*31:01

<400> 960
Val Leu Ile Leu Leu Val Arg Tyr Arg
1               5


<210> 961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*02:03

<400> 961
Val Leu Lys Pro Gly Phe Thr Cys Ala
1               5


<210> 962
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02

<400> 962
Val Leu Leu Ser Gly Lys Trp Leu Tyr
1 5

<210> 963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02

<400> 963
Val Leu Val Ile Val Gly Ile Gly Val
1 5

<210> 964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-B*13:02

<400> 964
Val Leu Val Leu Val Ile Val Gly Ile
1 5

<210> 965
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -C*05:01

<400> 965
Val Met Asp Ser Asp Gly Ser Ile
1 5

<210> 966
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01

<400> 966
Val Met Asp Ser Asp Gly Ser Ile Pro Ala
1 5 10

<210> 967
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:07,HLA-B*38:01,HLA-B*39:01

<400> 967
Val Met Asp Ser Asp Gly Ser Ile Pro Ala Leu
1 5 10

<210> 968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*11:01

<400> 968
Val Asn Phe Val Asn Met Ile Tyr Lys
1 5

<210> 969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*07:02,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 969
Val Pro Tyr Gly Ala Asn Tyr Ser Cys
1 5

<210> 970

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,

<220>
<223> HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*05:01,HLA-C*07:04,HLA-C*16:04

<400> 970
Val Gln Ser Pro Pro Thr Glu Thr Leu
1 5

<210> 971
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*30:01,HLA-B*13:02,HLA-B*39:01

<400> 971
Val Gln Ser Pro Pro Thr Glu Thr Leu Gly Val
1 5 10

<210> 972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*24:02

<400> 972
Val Arg Pro Lys Lys Leu Pro Leu Ile
1 5

<210> 973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;

HLA -B*57:01

<400> 973
Val Thr Leu Val Gly Ile Glu Ile Trp
1 5

<210> 974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-B*13:02,HLA-C*16:02

<400> 974
Val Thr Asn Ile Thr Ile Leu Val Val
1 5

<210> 975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02

<400> 975
Val Val Leu Leu Ser Gly Lys Trp Leu Tyr
1 5 10

<210> 976
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*51:01

<400> 976
Val Val Val Leu Val Leu Val Ile
1 5

<210> 977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 977
Trp Leu Tyr Ser His Val Gln Gly Ile
1 5

<210> 978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01

<400> 978
Trp Thr His Glu Asp Lys Ile Glu Leu Tyr
1 5 10

<210> 979
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*40:02,HLA-C*12:03

<400> 979
Tyr Asp Ser Ala Ala Ser Ile Ser Thr Cys
1 5 10

<210> 980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*49:01

<400> 980
Tyr Glu Glu Glu Leu Leu Tyr Glu Ile
1 5

<210> 981
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*30:01,HLA-B*40:01

<400> 981
Tyr Glu Glu Glu Leu Leu Tyr Glu Ile Lys Leu
1 5 10

<210> 982
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*02:07,HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:01,HLA-C*05:01

<400> 982
Tyr His Asp Ser Thr Asp Ile Gly Leu
1 5

<210> 983
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01,HLA-B*39:01

<400> 983
Tyr His Asp Ser Thr Asp Ile Gly Leu Val
1 5 10

<210> 984
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*38:01

<400> 984
Tyr His Asp Ser Thr Asp Ile Gly Leu Val Ala
1 5 10

<210> 985
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*08:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*04:01,HLA-C*07:01,

<220>
<223> HLA-C*07:04,HLA-C*12:03,HLA-C*16:02

<400> 985
Tyr Leu Ile Glu Pro Val Lys Tyr
1 5

<210> 986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01

<400> 986
Tyr Leu Lys Asp Tyr Lys Pro Thr Cys
1 5

<210> 987
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*29:02

<400> 987
Tyr Asn Leu Arg Val Pro Tyr Gly Ala Asn Tyr
1 5 10

<210> 988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;

HLA -A*01:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,

<220>
<223> HLA-B*35:01,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:01,
HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 988
Tyr Gln Gly Ser Ile Val His Glu Tyr
1 5

<210> 989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02

<400> 989
Tyr Ser Cys Thr Glu Leu Asn Phe Thr Arg
1 5 10

<210> 990
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-C*03:04,HLA-C*05:01

<400> 990
Tyr Ser Asp Glu Gly Glu His Leu
1 5

<210> 991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:07,HLA-B*38:01,HLA-C*05:01

<400> 991
Tyr Ser Asp Glu Gly Glu His Leu Val

1 5

<210> 992
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*02:07,HLA-B*38:01,HLA-B*58:01,HLA-C*03:04,
HLA-C*05:01

<400> 992
Tyr Ser Asp Glu Gly Glu His Leu Val Phe
1 5 10

<210> 993
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01

<400> 993
Tyr Ser Asp Glu Gly Glu His Leu Val Phe Lys
1 5 10

<210> 994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01

<400> 994
Tyr Ser Glu Thr Phe Tyr Ser Met Lys
1 5

<210> 995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,

HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*07:04,HLA-C*14:02,HLA-C*16:01,HLA-C*16:04

<400> 995
Tyr Ser His Val Gln Gly Ile Ser Tyr
1 5

<210> 996
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*32:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*37:01,HLA-B*46:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*14:02,HLA-C*16:01

<400> 996
Tyr Ser Met Lys Gly Glu Ala Phe
1 5

<210> 997
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*57:01

<400> 997
Tyr Ser Met Lys Gly Glu Ala Phe Thr Arg
1 5 10

<210> 998
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*08:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 998
Tyr Ser Asn Ile Glu Thr Thr Leu
1 5

<210> 999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-B*46:01,HLA-B*58:01

<400> 999
Tyr Ser Asn Ile Glu Thr Thr Leu Leu
1 5

<210> 1000
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -B*27:02

<400> 1000
Tyr Ser Asn Ile Glu Thr Thr Leu Leu Arg
1 5 10

<210> 1001
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*01:01,HLA-B*57:01

<400> 1001
Tyr Ser Asn Ile Glu Thr Thr Leu Leu Arg Phe
1 5 10

<210> 1002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
HLA -A*68:02,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:01,
HLA-C*16:02

<400> 1002

Tyr Ser Thr Ser Ile Ile Lys Asp Leu
1               5


<210> 1003
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*68:02

<400> 1003
Tyr Ser Thr Ser Ile Ile Lys Asp Leu Leu
1               5                   10


<210> 1004
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*24:02

<400> 1004
Tyr Tyr Ser Thr Ser Ile Ile Lys Asp Leu
1               5                   10


<210> 1005
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ADAM7; ENSG00000069206;
      HLA -A*24:02

<400> 1005
Tyr Tyr Ser Thr Ser Ile Ile Lys Asp Leu Leu
1               5                   10


<210> 1006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*54:01,HLA-B*56:01,HLA-C*06:02

<400> 1006
Ala Ala Phe Ala Met Pro Leu Pro Pro
1               5


<210> 1007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*39:01

<400> 1007
Ala Gln Gln Pro Val Ile Pro Gln Gln
1               5


<210> 1008
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*13:02

<400> 1008
Ala Gln Gln Pro Tyr Gln Pro Gln Pro Val
1               5                   10


<210> 1009
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1009
Glu Ala Trp Pro Ser Thr Asp Lys Thr Lys Arg
1               5                   10


<210> 1010
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*25:01,HLA-B*57:01

<400> 1010
Glu Val Leu Thr Pro Leu Lys Trp
1 5

<210> 1011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*46:01

<400> 1011
Phe Ala Cys Leu Leu Gly Ala Ala Phe
1 5

<210> 1012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*54:01

<400> 1012
Phe Ala Met Pro Leu Pro Pro His Pro
1 5

<210> 1013
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*54:01

<400> 1013
Phe Ala Met Pro Leu Pro Pro His Pro Gly
1 5 10

<210> 1014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*56:01

<400> 1014
Phe Pro Met Gln Pro Leu Pro Pro Met
1 5

<210> 1015
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*35:03

<400> 1015
Phe Pro Met Gln Pro Leu Pro Pro Met Leu
1 5 10

<210> 1016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*46:01

<400> 1016
Phe Ser Tyr Glu Val Leu Thr Pro Leu
1 5

<210> 1017
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*57:01

<400> 1017
Phe Ser Tyr Glu Val Leu Thr Pro Leu Lys Trp
1 5 10

<210> 1018
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*13:02

<400> 1018
Gly Gln His Ser Met Thr Pro Ile
1 5

<210> 1019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*23:01,HLA-A*24:02

<400> 1019
Gly Tyr Ile Asn Phe Ser Tyr Glu Val
1 5

<210> 1020
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*38:01

<400> 1020
His His Gln Ile Ile Pro Val Leu
1 5

<210> 1021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*29:02,HLA-B*35:01

<400> 1021
His Pro Gly Tyr Ile Asn Phe Ser Tyr
1 5

<210> 1022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*33:01

<400> 1022
His Ser Met Thr Pro Ile Gln His His
1 5

<210> 1023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 1023
Ile Pro Gln Gln Pro Met Met Pro Val
1 5

<210> 1024
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*54:01,HLA-B*56:01

<400> 1024
Ile Pro Val Leu Ser Gln Gln His Pro Pro
1 5 10

<210> 1025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*56:01

<400> 1025
Ile Pro Val Val Pro Ala Gln Gln Pro
1 5

<210> 1026
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*56:01

<400> 1026
Ile Pro Val Val Pro Ala Gln Gln Pro Val
1 5 10

<210> 1027
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*51:01,HLA-B*54:01

<400> 1027
Ile Pro Val Val Pro Ala Gln Gln Pro Val Ile
1 5 10

<210> 1028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*02:04,HLA-B*38:01

<400> 1028
Leu His His Gln Ile Ile Pro Val Leu
1 5

<210> 1029
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*51:01

<400> 1029

Leu Pro Pro Met Leu Pro Asp Leu
1               5


<210> 1030
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*51:01

<400> 1030
Leu Pro Pro Met Leu Pro Asp Leu Thr Leu
1               5                   10


<210> 1031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -A*26:01,HLA-A*29:02,HLA-B*35:01,HLA-B*51:01,HLA-B*55:01

<400> 1031
Leu Pro Pro Pro Ala Gln Gln Pro Tyr
1               5


<210> 1032
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*54:01

<400> 1032
Leu Pro Pro Gln Pro Pro Leu Pro Pro
1               5


<210> 1033
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -A*02:07,HLA-A*25:01

<400> 1033
Met Leu Pro Asp Leu Thr Leu Glu Ala Trp
1               5                   10


<210> 1034
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*54:01

<400> 1034
Met Pro Leu Pro Pro His Pro Gly
1               5


<210> 1035
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*35:01,HLA-B*54:01,HLA-B*55:01

<400> 1035
Met Pro Leu Pro Pro His Pro Gly His
1               5


<210> 1036
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*54:01

<400> 1036
Met Pro Leu Pro Pro His Pro Gly His Pro
1               5                   10


<210> 1037
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*54:01

<400> 1037
Met Pro Leu Pro Pro His Pro Gly His Pro Gly
1 5 10

<210> 1038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,HLA-C*07:02

<400> 1038
Met Pro Val Pro Gly Gln His Ser Met
1 5

<210> 1039
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*54:01

<400> 1039
Met Pro Val Pro Gly Gln His Ser Met Thr Pro
1 5 10

<210> 1040
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 1040
Asn Leu Pro Pro Pro Ala Gln Gln Pro Tyr
1 5 10

<210> 1041
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*02:07

<400> 1041
Pro Leu Pro Pro Met Leu Pro Asp Leu
1 5

<210> 1042
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*24:02

<400> 1042
Pro Met Met Pro Val Pro Gly Gln His Ser Met
1 5 10

<210> 1043
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*29:02

<400> 1043
Pro Asn Leu Pro Pro Pro Ala Gln Gln Pro Tyr
1 5 10

<210> 1044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*35:03

<400> 1044
Pro Pro Met Leu Pro Asp Leu Thr Leu
1 5

<210> 1045

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*24:02

<400> 1045
Pro Gln Pro Pro Leu Pro Pro Met Phe
1 5

<210> 1046
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*07:02

<400> 1046
Pro Val Pro Gly Gln His Ser Met
1 5

<210> 1047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*38:01

<400> 1047
Gln His Ser Met Thr Pro Ile Gln His
1 5

<210> 1048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 1048
Gln Pro His His His Ile Pro Val Val
1 5

<210> 1049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,
HLA-B*56:01,HLA-C*07:02

<400> 1049
Gln Pro Leu Pro Pro Gln Pro Pro Leu
1 5

<210> 1050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*07:02,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 1050
Gln Pro Met Gln Pro Gln Pro Pro Val
1 5

<210> 1051
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*56:01

<400> 1051
Gln Pro Asn Leu Pro Pro Pro Ala
1 5

<210> 1052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*56:01

<400> 1052
Gln Pro Asn Leu Pro Pro Pro Ala Gln
1               5


<210> 1053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -A*30:02,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,
      HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 1053
Gln Pro Gln Pro Pro Val His Pro Met
1               5


<210> 1054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*56:01

<400> 1054
Gln Pro Gln Pro Val Gln Pro Gln Pro
1               5


<210> 1055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
      HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-B*56:01

<400> 1055
Gln Pro Val Ile Pro Gln Gln Pro Met
1               5


<210> 1056
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*51:01

<400> 1056
Gln Pro Tyr Gln Pro Gln Pro Val
1 5

<210> 1057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*51:01,HLA-B*54:01

<400> 1057
Gln Pro Tyr Gln Pro Gln Pro Val Gln
1 5

<210> 1058
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*56:01

<400> 1058
Gln Pro Tyr Gln Pro Gln Pro Val Gln Pro
1 5 10

<210> 1059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*02:03,HLA-A*02:04,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*30:01,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-B*08:01,
HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*37:01,

<220>
<223> HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*46:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,HLA-C*06:02,
HLA-C*07:02,HLA-C*07:04,HLA-C*16:04

<400> 1059
Gln Gln His Pro Pro Thr His Thr Leu

1 5

<210> 1060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*13:02

<400> 1060
Gln Gln Pro Tyr Gln Pro Gln Pro Val
1 5

<210> 1061
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*57:01,
HLA-B*58:01

<400> 1061
Gln Ser Ile Arg Pro Pro Tyr Pro Ser Tyr
1 5 10

<210> 1062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*29:02,HLA-B*35:01

<400> 1062
Arg Pro Pro Tyr Pro Ser Tyr Gly Tyr
1 5

<210> 1063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,

HLA-A*31:01,HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 1063
Ser Ile Arg Pro Pro Tyr Pro Ser Tyr
1 5

<210> 1064
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*29:02

<400> 1064
Ser Ile Arg Pro Pro Tyr Pro Ser Tyr Gly Tyr
1 5 10

<210> 1065
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*24:02

<400> 1065
Ser Tyr Glu Val Leu Thr Pro Leu Lys Trp
1 5 10

<210> 1066
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*02:04

<400> 1066
Thr Leu Gln Pro His His His Ile Pro Val Val
1 5 10

<210> 1067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*08:01

<400> 1067
Thr Pro Ile Gln His His Gln Pro
1 5

<210> 1068
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 1068
Thr Pro Ile Gln His His Gln Pro Asn Leu
1 5 10

<210> 1069
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*08:01,HLA-B*51:01

<400> 1069
Thr Pro Leu Lys Trp Tyr Gln Ser Ile
1 5

<210> 1070
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*51:01,HLA-B*56:01

<400> 1070
Val Pro Ala Gln Gln Pro Val Ile
1 5

<210> 1071
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*46:01,HLA-C*01:02

<400> 1071
Val Gln Pro Gln Pro His Gln Pro Met
1 5

<210> 1072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -A*02:07,HLA-B*13:02,HLA-B*51:01

<400> 1072
Val Val Pro Ala Gln Gln Pro Val Ile
1 5

<210> 1073
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*18:01,HLA-B*49:01

<400> 1073
Tyr Glu Val Leu Thr Pro Leu Lys
1 5

<210> 1074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,
HLA-C*16:04

<400> 1074
Tyr Glu Val Leu Thr Pro Leu Lys Trp
1 5

<210> 1075
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*44:02,HLA-B*44:03

<400> 1075
Tyr Glu Val Leu Thr Pro Leu Lys Trp Tyr
1 5 10

<210> 1076
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*54:01

<400> 1076
Tyr Pro Ser Tyr Gly Tyr Glu Pro
1 5

<210> 1077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*35:01,HLA-B*35:03

<400> 1077
Tyr Pro Ser Tyr Gly Tyr Glu Pro Met
1 5

<210> 1078
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; AMELX; ENSG00000125363;
HLA -B*15:03,HLA-C*16:01

<400> 1078
Tyr Gln Ser Ile Arg Pro Pro Tyr

1 5

<210> 1079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*37:01,HLA-B*49:01

<400> 1079
Ala Glu Lys Leu Leu Asn Asn Val
1 5

<210> 1080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-C*16:04

<400> 1080
Ala Glu Lys Leu Leu Asn Asn Val Ile
1 5

<210> 1081
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 1081
Ala Glu Pro Ile Asp Asp Gly Lys Gly Leu
1 5 10

<210> 1082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;

HLA -C*01:02

<400> 1082
Ala Gly Pro Ile Ile Gly Gln Ile Ile
1 5

<210> 1083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,
HLA-A*11:01,HLA-A*25:01,HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,
HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*35:01,

<220>
<223> HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:03,HLA-B*46:01,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,
HLA-C*05:01,HLA-C*07:04,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 1083
Ala Ser Asp Pro Thr Ser Ile Ser Leu
1 5

<210> 1084
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01

<400> 1084
Ala Ser Asp Pro Thr Ser Ile Ser Leu Ser
1 5 10

<210> 1085
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-B*38:01,HLA-C*03:03

<400> 1085

Ala Ser Asp Pro Thr Ser Ile Ser Leu Ser Leu
1               5                   10


<210> 1086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
      HLA-A*11:01,HLA-A*23:01,HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,
      HLA-A*68:02,HLA-B*13:02,HLA-B*40:02,HLA-B*46:01,HLA-B*49:01,

<220>
<223> HLA-B*55:01,HLA-B*56:01

<400> 1086
Ala Ser Leu Asp Leu Leu Thr Ala Val
1               5


<210> 1087
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*11:01,HLA-A*30:01,HLA-A*68:01,HLA-B*07:02,HLA-B*27:05,
      HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-C*01:02,
      HLA-C*03:03,HLA-C*03:04

<400> 1087
Cys Ala Ser Asp Pro Thr Ser Ile Ser Leu
1               5                   10


<210> 1088
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*40:02

<400> 1088
Asp Asp Gly Lys Gly Leu Asn Leu
1               5


<210> 1089

<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*18:01

<400> 1089
Asp Asp Gly Lys Gly Leu Asn Leu Ser Phe
1 5 10

<210> 1090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01

<400> 1090
Asp Gly Lys Gly Leu Asn Leu Ser Phe
1 5

<210> 1091
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*33:01

<400> 1091
Asp Lys His Ser Gln Ile Ile Asn Lys
1 5

<210> 1092
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01

<400> 1092
Asp Leu Gly Val Leu Gln Lys Ser Ser Ala Trp
1 5 10

<210> 1093
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-B*08:01,HLA-B*18:01,HLA-B*51:01

<400> 1093
Asp Leu Leu Thr Ala Val Thr Ile
1 5

<210> 1094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04,HLA-A*25:01,HLA-A*68:01,HLA-A*68:02,HLA-B*27:05,
HLA-B*35:03,HLA-B*38:01,HLA-B*39:01

<400> 1094
Asp Leu Ser Asn Val Val Asp Lys Leu
1 5

<210> 1095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*08:01

<400> 1095
Asp Asn Pro Gln His Lys Thr Gln Leu
1 5

<210> 1096
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*08:01

<400> 1096

Asp Asn Thr Leu Lys Gly Ile Leu
1               5


<210> 1097
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*08:01,HLA-B*51:01

<400> 1097
Asp Pro Gln Thr His Gln Pro Val
1               5


<210> 1098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 1098
Asp Pro Gln Thr His Gln Pro Val Ala
1               5


<210> 1099
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*56:01

<400> 1099
Asp Pro Gln Thr His Gln Pro Val Ala Val
1               5                   10


<210> 1100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*23:01,HLA-A*68:01,HLA-B*07:02,HLA-B*08:01,HLA-B*18:01,

HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*07:02

<400> 1100
Asp Pro Thr Ser Ile Ser Leu Ser Leu
1 5

<210> 1101
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01

<400> 1101
Asp Pro Thr Ser Ile Ser Leu Ser Leu Leu
1 5 10

<210> 1102
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*33:03,HLA-A*68:01

<400> 1102
Asp Val Lys Ala Glu Pro Ile Asp Asp Gly Lys
1 5 10

<210> 1103
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*26:01,HLA-B*08:01,HLA-B*51:01

<400> 1103
Asp Val Asn Val Ile Gln Gln Val
1 5

<210> 1104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*08:01,HLA-B*13:02,HLA-B*18:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*38:01,HLA-B*51:01,HLA-C*07:06

<400> 1104
Asp Val Asn Val Ile Gln Gln Val Val
1 5

<210> 1105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02,HLA-B*51:01

<400> 1105
Glu Ala Glu Lys Leu Leu Asn Asn Val
1 5

<210> 1106
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:01

<400> 1106
Glu Cys Ala Ser Asp Pro Thr Ser Ile Ser Leu
1 5 10

<210> 1107
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*35:03,HLA-B*38:01

<400> 1107
Glu Gly Leu Glu Thr Val Asp Asn Thr Leu
1 5 10

<210> 1108
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 1108
Glu Gly Leu Glu Thr Val Asp Asn Thr Leu Lys
1 5 10

<210> 1109
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02

<400> 1109
Glu Ile Cys Pro Leu Ile Arg Ile Phe Ile
1 5 10

<210> 1110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-B*07:02,HLA-B*35:01,
HLA-B*35:03,HLA-B*44:03,HLA-B*55:01

<400> 1110
Glu Pro Ile Asp Asp Gly Lys Gly Leu
1 5

<210> 1111
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*44:03,HLA-C*07:02,HLA-C*07:06

<400> 1111
Glu Pro Ile Asp Asp Gly Lys Gly Leu Asn Leu
1               5                   10


<210> 1112
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*07:02,HLA-B*08:01,HLA-B*35:03

<400> 1112
Glu Pro Val Leu His Glu Gly Leu
1               5


<210> 1113
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*68:02,HLA-B*56:01

<400> 1113
Glu Pro Val Leu His Glu Gly Leu Glu Thr Val
1               5                   10


<210> 1114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*01:01

<400> 1114
Glu Thr Asp Pro Gln Thr His Gln Pro
1               5


<210> 1115
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*27:05,HLA-C*06:02

<400> 1115
Glu Thr Asp Pro Gln Thr His Gln Pro Val
1 5 10

<210> 1116
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01

<400> 1116
Glu Thr Asp Pro Gln Thr His Gln Pro Val Ala
1 5 10

<210> 1117
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*33:03

<400> 1117
Glu Thr Val Asp Asn Thr Leu Lys
1 5

<210> 1118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*26:01

<400> 1118
Glu Thr Val Asp Asn Thr Leu Lys Gly
1 5

<210> 1119
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 1119
Glu Thr Val Asp Asn Thr Leu Lys Gly Ile
1 5 10

<210> 1120
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02

<400> 1120
Glu Thr Val Asp Asn Thr Leu Lys Gly Ile Leu
1 5 10

<210> 1121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-B*08:01,HLA-B*35:03,HLA-B*46:01,HLA-C*03:03,
HLA-C*03:04

<400> 1121
Phe Gly Leu Lys Ile Ser Asn Ser Leu
1 5

<210> 1122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,HLA-B*13:02

<400> 1122
Phe Ile His Ser Leu Asp Val Asn Val
1 5

<210> 1123
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 1123
Phe Pro Val Thr Ala Asn Val Thr
1 5

<210> 1124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*23:01,HLA-A*30:01,HLA-A*68:02,HLA-B*07:02,
HLA-B*08:01,HLA-B*13:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:02,HLA-B*46:01,HLA-B*49:01,

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<223> HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*07:02,HLA-C*07:04,
HLA-C*12:03

<400> 1124
Phe Pro Val Thr Ala Asn Val Thr Val
1 5

<210> 1125
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 1125
Phe Pro Val Thr Ala Asn Val Thr Val Ala
1 5 10

<210> 1126
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 1126
Phe Pro Val Thr Ala Asn Val Thr Val Ala Gly
1 5 10

<210> 1127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-A*31:01,

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<223> HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*07:02,HLA-B*08:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,

<220>
<223> HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*49:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,
HLA-C*05:01,HLA-C*06:02,HLA-C*07:02,HLA-C*07:04,HLA-C*07:06,

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<223> HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 1127
Phe Val Asn Ser Val Ile Asn Thr Leu
1 5

<210> 1128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*29:02,
HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 1128
Phe Val Asn Ser Val Ile Asn Thr Leu Lys

1 5 10

<210> 1129
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 1129
Gly Glu Cys Ala Ser Asp Pro Thr Ser Ile
1 5 10

<210> 1130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
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HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-B*27:05,HLA-B*35:03,
HLA-B*38:01,HLA-B*40:01,HLA-B*55:01

<400> 1130
Gly Leu Glu Thr Val Asp Asn Thr Leu
1 5

<210> 1131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*03:02,HLA-B*27:02

<400> 1131
Gly Leu Glu Thr Val Asp Asn Thr Leu Lys
1 5 10

<210> 1132
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*08:01

<400> 1132
Gly Leu Lys Ile Ser Asn Ser Leu
1               5


<210> 1133
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*02:03,HLA-B*56:01

<400> 1133
Gly Leu Asn Leu Ser Phe Pro Val Thr Ala
1               5                   10


<210> 1134
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*27:02

<400> 1134
Gly Asn Asp Leu Ser Asn Val Val Asp Lys
1               5                   10


<210> 1135
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*07:02,HLA-B*51:01

<400> 1135
Gly Pro Ile Ile Gly Gln Ile Ile
1               5


<210> 1136
<211> 10
<212> PRT
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<220>

<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*07:02,HLA-B*35:03,HLA-B*56:01,HLA-C*07:02

<400> 1136
Gly Pro Ile Ile Gly Gln Ile Ile Asn Leu
1 5 10

<210> 1137
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*13:02

<400> 1137
Gly Gln Ile Ile Asn Leu Lys Ala
1 5

<210> 1138
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*15:01

<400> 1138
Gly Gln Ile Ile Asn Leu Lys Ala Ser Leu
1 5 10

<210> 1139
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*27:05

<400> 1139
Gly Thr Ser Glu Ser Leu Leu Asp Asn Leu
1 5 10

<210> 1140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*57:01,HLA-B*58:01

<400> 1140
Gly Val Leu Gln Lys Ser Ser Ala Trp
1 5

<210> 1141
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04,HLA-A*31:01

<400> 1141
Gly Val Leu Gln Lys Ser Ser Ala Trp Gln Leu
1 5 10

<210> 1142
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*15:01,HLA-B*40:01

<400> 1142
Gly Val Leu Thr Gly Thr Ser Glu Ser Leu
1 5 10

<210> 1143
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*23:01,HLA-B*27:05

<400> 1143
Gly Val Leu Thr Gly Thr Ser Glu Ser Leu Leu
1 5 10

<210> 1144

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02

<400> 1144
His Glu Gly Leu Glu Thr Val Asp Asn Thr Leu
1 5 10

<210> 1145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*13:02

<400> 1145
His Lys Thr Gln Leu Gln Thr Leu Ile
1 5

<210> 1146
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*51:01

<400> 1146
His Ser Leu Asp Val Asn Val Ile
1 5

<210> 1147
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:01

<400> 1147
His Ser Leu Asp Val Asn Val Ile Gln Gln
1 5 10

<210> 1148
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02,HLA-B*13:02

<400> 1148
His Ser Leu Asp Val Asn Val Ile Gln Gln Val
1 5 10

<210> 1149
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*08:01,HLA-B*18:01,HLA-B*58:01

<400> 1149
His Ser Gln Ile Ile Asn Lys Phe
1 5

<210> 1150
<211> 9
<212> PRT
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<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02

<400> 1150
His Ser Gln Ile Ile Asn Lys Phe Val
1 5

<210> 1151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:07,HLA-B*37:01,HLA-B*38:01

<400> 1151

Ile Asp Asp Gly Lys Gly Leu Asn Leu
1               5


<210> 1152
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*18:01

<400> 1152
Ile Glu Thr Asp Pro Gln Thr His
1               5


<210> 1153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*49:01

<400> 1153
Ile Glu Thr Asp Pro Gln Thr His Gln
1               5


<210> 1154
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*49:01

<400> 1154
Ile Glu Thr Asp Pro Gln Thr His Gln Pro
1               5                   10


<210> 1155
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*30:01,HLA-B*27:05,HLA-B*39:01,HLA-B*40:01,HLA-B*49:01,

HLA-C*06:02

<400> 1155
Ile Glu Thr Asp Pro Gln Thr His Gln Pro Val
1 5 10

<210> 1156
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*24:02

<400> 1156
Ile Phe Ile His Ser Leu Asp Val Asn Val Ile
1 5 10

<210> 1157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*06:02

<400> 1157
Ile Gly Gln Ile Ile Asn Leu Lys Ala
1 5

<210> 1158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 1158
Ile His Ser Leu Asp Val Asn Val Ile
1 5

<210> 1159
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04

<400> 1159
Ile Ile Gly Gln Ile Ile Asn Leu
1 5

<210> 1160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 1160
Ile Ile Gly Gln Ile Ile Asn Leu Lys
1 5

<210> 1161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*32:01,
HLA-A*68:02,HLA-B*08:01,HLA-B*13:02,HLA-B*46:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-C*16:02

<400> 1161
Ile Ile Asn Lys Phe Val Asn Ser Val
1 5

<210> 1162
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*07:02,HLA-B*08:01

<400> 1162
Ile Ile Asn Leu Lys Ala Ser Leu
1 5

<210> 1163

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:07,HLA-B*08:01,HLA-B*38:01,HLA-B*55:01,
HLA-C*04:01,HLA-C*05:01

<400> 1163
Ile Leu Asp Val Lys Ala Glu Pro Ile
1 5

<210> 1164
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*08:01

<400> 1164
Ile Asn Thr Leu Lys Ser Thr Val
1 5

<210> 1165
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:02,HLA-A*11:01

<400> 1165
Ile Gln Gln Val Val Asp Asn Pro Gln His Lys
1 5 10

<210> 1166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*68:02,
HLA-B*13:02,HLA-B*27:02,HLA-B*54:01,HLA-C*02:02,HLA-C*06:02,
HLA-C*12:03,HLA-C*16:02

<400> 1166

Ile Ser Asn Ser Leu Ile Leu Asp Val
1               5


<210> 1167
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 1167
Ile Ser Asn Ser Leu Ile Leu Asp Val Lys
1               5                   10


<210> 1168
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*58:01,HLA-C*16:02

<400> 1168
Lys Ala Gln Glu Ala Glu Lys Leu
1               5


<210> 1169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*32:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:04,HLA-C*16:01,
      HLA-C*16:02

<400> 1169
Lys Ala Gln Glu Ala Glu Lys Leu Leu
1               5


<210> 1170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;

HLA -B*54:01,HLA-B*56:01

<400> 1170
Lys Ala Ser Leu Asp Leu Leu Thr Ala
1 5

<210> 1171
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*56:01

<400> 1171
Lys Ala Ser Leu Asp Leu Leu Thr Ala Val
1 5 10

<210> 1172
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-A*24:02,HLA-B*40:01,HLA-B*58:01,HLA-C*14:02

<400> 1172
Lys Phe Val Asn Ser Val Ile Asn Thr Leu
1 5 10

<210> 1173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*24:02,HLA-A*32:01,HLA-B*15:03,HLA-B*38:01,HLA-B*44:02,
HLA-B*57:01,HLA-B*58:01,HLA-C*12:03

<400> 1173
Lys His Ser Gln Ile Ile Asn Lys Phe
1 5

<210> 1174
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03

<400> 1174
Lys Ile Ser Asn Ser Leu Ile Leu Asp Val
1 5 10

<210> 1175
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02

<400> 1175
Lys Ile Ser Asn Ser Leu Ile Leu Asp Val Lys
1 5 10

<210> 1176
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:07

<400> 1176
Lys Leu Glu Pro Val Leu His Glu Gly Leu
1 5 10

<210> 1177
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03

<400> 1177
Lys Leu Lys Val Asp Leu Gly Val Leu
1 5

<210> 1178
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02

<400> 1178
Lys Leu Lys Val Asp Leu Gly Val Leu Gln Lys
1 5 10

<210> 1179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:04,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*31:01,HLA-A*32:01

<400> 1179
Lys Leu Leu Asn Asn Val Ile Ser Lys
1 5

<210> 1180
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01

<400> 1180
Lys Leu Leu Asn Asn Val Ile Ser Lys Leu
1 5 10

<210> 1181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*32:01,HLA-B*13:02,
HLA-B*58:01

<400> 1181
Lys Leu Leu Pro Thr Asn Thr Asp Ile
1 5

<210> 1182
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-A*24:02,HLA-B*57:01

<400> 1182
Lys Leu Leu Pro Thr Asn Thr Asp Ile Phe
1 5 10

<210> 1183
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*04:01

<400> 1183
Lys Leu Leu Pro Thr Asn Thr Asp Ile Phe Gly
1 5 10

<210> 1184
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*40:02

<400> 1184
Lys Gln Lys Ala Gln Glu Ala Glu Lys Leu
1 5 10

<210> 1185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 1185

Lys Ser Ser Ala Trp Gln Leu Ala Lys
1               5


<210> 1186
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*32:01,HLA-B*58:01

<400> 1186
Lys Ser Thr Val Ser Ser Leu Leu
1               5


<210> 1187
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 1187
Lys Ser Thr Val Ser Ser Leu Leu Gln Lys
1               5                   10


<210> 1188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
      HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,
      HLA-B*57:01,HLA-C*06:02

<400> 1188
Lys Val Asp Leu Gly Val Leu Gln Lys
1               5


<210> 1189
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*08:01

<400> 1189
Leu Ala Lys Gln Lys Ala Gln Glu Ala
1 5

<210> 1190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-A*30:01,HLA-B*40:02,HLA-B*49:01,HLA-B*51:01

<400> 1190
Leu Asp Leu Leu Thr Ala Val Thr Ile
1 5

<210> 1191
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*37:01,HLA-B*40:02

<400> 1191
Leu Asp Asn Leu Gly Asn Asp Leu
1 5

<210> 1192
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*37:01,HLA-B*40:02

<400> 1192
Leu Asp Val Lys Ala Glu Pro Ile
1 5

<210> 1193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*07:01

<400> 1193
Leu Asp Val Asn Val Ile Gln Gln
1 5

<210> 1194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*30:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*37:01,HLA-B*40:02,HLA-B*44:02,HLA-B*49:01,
HLA-C*06:02,HLA-C*12:03

<400> 1194
Leu Asp Val Asn Val Ile Gln Gln Val
1 5

<210> 1195
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02

<400> 1195
Leu Asp Val Asn Val Ile Gln Gln Val Val
1 5 10

<210> 1196
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*08:01

<400> 1196
Leu Glu Lys Leu Lys Val Asp Leu
1 5

<210> 1197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02

<400> 1197
Leu Glu Pro Val Leu His Glu Gly Leu
1 5

<210> 1198
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 1198
Leu Glu Thr Val Asp Asn Thr Leu
1 5

<210> 1199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*49:01

<400> 1199
Leu Glu Thr Val Asp Asn Thr Leu Lys
1 5

<210> 1200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*27:05,HLA-B*39:01

<400> 1200
Leu Gly Asn Asp Leu Ser Asn Val Val
1 5

<210> 1201
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 1201
Leu Gly Asn Asp Leu Ser Asn Val Val Asp Lys
1 5 10

<210> 1202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*54:01

<400> 1202
Leu Gly Val Leu Gln Lys Ser Ser Ala
1 5

<210> 1203
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*40:02,HLA-C*06:02,HLA-C*07:01

<400> 1203
Leu Ile Leu Asp Val Lys Ala Glu Pro Ile
1 5 10

<210> 1204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*02:04

<400> 1204
Leu Ile Arg Ile Phe Ile His Ser Leu
1               5


<210> 1205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*27:02

<400> 1205
Leu Lys Val Asp Leu Gly Val Leu Gln Lys
1               5                   10


<210> 1206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*01:01,HLA-A*02:01,HLA-A*02:07

<400> 1206
Leu Leu Asp Lys His Ser Gln Ile Ile
1               5


<210> 1207
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*03:01,HLA-A*03:02

<400> 1207
Leu Leu Asp Lys His Ser Gln Ile Ile Asn Lys
1               5                   10


<210> 1208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;

HLA -A*01:01,HLA-A*02:07,HLA-B*38:01,HLA-B*39:01,HLA-C*05:01

<400> 1208
Leu Leu Asp Asn Leu Gly Asn Asp Leu
1 5

<210> 1209
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-B*27:02,HLA-B*27:05

<400> 1209
Leu Leu Asn Asn Val Ile Ser Lys
1 5

<210> 1210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*23:01,HLA-A*24:02,HLA-A*31:01,HLA-A*32:01,
HLA-A*68:02,HLA-B*13:02,HLA-B*55:01,HLA-C*02:02

<400> 1210
Leu Leu Asn Asn Val Ile Ser Lys Leu
1 5

<210> 1211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:07,HLA-A*24:02,HLA-A*29:02,HLA-B*46:01

<400> 1211
Leu Leu Pro Thr Asn Thr Asp Ile Phe
1 5

<210> 1212
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 1212
Leu Leu Pro Thr Asn Thr Asp Ile Phe Gly Leu
1 5 10

<210> 1213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 1213
Leu Leu Gln Lys Glu Ile Cys Pro Leu
1 5

<210> 1214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03

<400> 1214
Leu Leu Thr Ala Val Thr Ile Glu Thr
1 5

<210> 1215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*54:01

<400> 1215
Leu Asn Leu Ser Phe Pro Val Thr Ala
1 5

<210> 1216

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*55:01

<400> 1216
Leu Pro Thr Asn Thr Asp Ile Phe
1 5

<210> 1217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:01,HLA-B*27:02,HLA-B*35:01,HLA-B*35:03

<400> 1217
Leu Pro Thr Asn Thr Asp Ile Phe Gly Leu
1 5 10

<210> 1218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*24:02,HLA-B*13:02

<400> 1218
Leu Gln Lys Glu Ile Cys Pro Leu Ile
1 5

<210> 1219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04

<400> 1219
Leu Gln Lys Ser Ser Ala Trp Gln Leu
1 5

<210> 1220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:04

<400> 1220
Leu Gln Leu Trp Lys Leu Val Leu Leu
1 5

<210> 1221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*32:01,
HLA-A*68:02,HLA-B*13:02,HLA-B*27:05,HLA-B*40:02,HLA-B*46:01,
HLA-B*51:01,HLA-B*54:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,

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<223> HLA-C*02:02,HLA-C*06:02,HLA-C*12:03

<400> 1221
Leu Ser Phe Pro Val Thr Ala Asn Val
1 5

<210> 1222
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*06:02

<400> 1222
Leu Ser Phe Pro Val Thr Ala Asn Val Thr
1 5 10

<210> 1223
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:07,HLA-A*68:02,HLA-B*54:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02

<400> 1223
Leu Ser Phe Pro Val Thr Ala Asn Val Thr Val
1 5 10

<210> 1224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04

<400> 1224
Met Leu Gln Leu Trp Lys Leu Val Leu
1 5

<210> 1225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04

<400> 1225
Met Leu Gln Leu Trp Lys Leu Val Leu Leu
1 5 10

<210> 1226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 1226
Asn Asp Leu Ser Asn Val Val Asp Lys
1 5

<210> 1227
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 1227
Asn Leu Gly Asn Asp Leu Ser Asn Val
1 5

<210> 1228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*02:04

<400> 1228
Asn Leu Lys Ala Ser Leu Asp Leu Leu
1 5

<210> 1229
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02

<400> 1229
Asn Leu Ser Phe Pro Val Thr Ala Asn Val
1 5 10

<210> 1230
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 1230
Asn Pro Gln His Lys Thr Gln Leu
1 5

<210> 1231

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*07:02

<400> 1231
Asn Pro Gln His Lys Thr Gln Leu Gln Thr Leu
1 5 10

<210> 1232
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01

<400> 1232
Asn Thr Asp Ile Phe Gly Leu Lys
1 5

<210> 1233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:07,HLA-A*68:02,HLA-B*38:01

<400> 1233
Asn Thr Asp Ile Phe Gly Leu Lys Ile
1 5

<210> 1234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 1234
Asn Thr Leu Lys Gly Ile Leu Glu Lys
1 5

<210> 1235
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04,HLA-A*68:02

<400> 1235
Asn Thr Leu Lys Gly Ile Leu Glu Lys Leu
1 5 10

<210> 1236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-B*13:02,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*51:01,HLA-C*03:03

<400> 1236
Asn Val Thr Val Ala Gly Pro Ile Ile
1 5

<210> 1237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*25:01,
HLA-A*26:01,HLA-A*68:02,HLA-B*46:01

<400> 1237
Asn Val Val Asp Lys Leu Glu Pro Val
1 5

<210> 1238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*35:01,

HLA-B*35:03

<400> 1238
Asn Val Val Asp Lys Leu Glu Pro Val Leu
1 5 10

<210> 1239
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*05:01

<400> 1239
Pro Ile Asp Asp Gly Lys Gly Leu
1 5

<210> 1240
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:07

<400> 1240
Pro Ile Asp Asp Gly Lys Gly Leu Asn Leu
1 5 10

<210> 1241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04,HLA-A*68:02

<400> 1241
Pro Ile Ile Gly Gln Ile Ile Asn Leu
1 5

<210> 1242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*13:02

<400> 1242
Pro Gln Thr His Gln Pro Val Ala Val
1 5

<210> 1243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*07:02

<400> 1243
Pro Thr Ser Ile Ser Leu Ser Leu Leu
1 5

<210> 1244
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*07:02

<400> 1244
Pro Val Thr Ala Asn Val Thr Val Ala Gly
1 5 10

<210> 1245
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*49:01

<400> 1245
Gln Glu Ala Glu Lys Leu Leu Asn Asn Val
1 5 10

<210> 1246
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*38:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 1246
Gln Glu Ala Glu Lys Leu Leu Asn Asn Val Ile
1 5 10

<210> 1247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*38:01,HLA-B*39:01

<400> 1247
Gln His Lys Thr Gln Leu Gln Thr Leu
1 5

<210> 1248
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*68:02

<400> 1248
Gln Ile Ile Asn Lys Phe Val Asn Ser Val
1 5 10

<210> 1249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-C*01:02

<400> 1249
Gln Ile Ile Asn Leu Lys Ala Ser Leu
1 5

<210> 1250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*38:01

<400> 1250
Gln Lys Ala Gln Glu Ala Glu Lys Leu
1 5

<210> 1251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:04

<400> 1251
Gln Leu Trp Lys Leu Val Leu Leu
1 5

<210> 1252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 1252
Gln Pro Val Ala Val Leu Gly Glu Cys
1 5

<210> 1253
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 1253
Gln Pro Val Ala Val Leu Gly Glu Cys Ala
1 5 10

<210> 1254
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*15:01,HLA-B*27:05

<400> 1254
Gln Gln Val Val Asp Asn Pro Gln His
1 5

<210> 1255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*25:01,HLA-A*68:01,HLA-A*68:02,HLA-B*39:01

<400> 1255
Gln Thr His Gln Pro Val Ala Val Leu
1 5

<210> 1256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 1256
Gln Val Val Asp Asn Pro Gln His Lys
1 5

<210> 1257
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*06:02

<400> 1257
Gln Val Val Asp Asn Pro Gln His Lys Thr
1               5                   10


<210> 1258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-C*07:06

<400> 1258
Ser Ala Trp Gln Leu Ala Lys Gln Lys
1               5


<210> 1259
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*54:01

<400> 1259
Ser Ala Trp Gln Leu Ala Lys Gln Lys Ala
1               5                   10


<210> 1260
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*30:01,HLA-B*07:02,HLA-B*37:01,HLA-B*40:02,HLA-C*01:02

<400> 1260
Ser Asp Pro Thr Ser Ile Ser Leu
1               5


<210> 1261
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;

HLA -B*37:01,HLA-B*40:01

<400> 1261
Ser Glu Ser Leu Leu Asp Asn Leu
1 5

<210> 1262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*14:02

<400> 1262
Ser Phe Pro Val Thr Ala Asn Val Thr
1 5

<210> 1263
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*01:02,HLA-C*04:01

<400> 1263
Ser Phe Pro Val Thr Ala Asn Val Thr Val
1 5 10

<210> 1264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 1264
Ser Ile Ser Leu Ser Leu Leu Asp Lys
1 5

<210> 1265
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:07,HLA-B*55:01,HLA-C*05:01

<400> 1265
Ser Leu Asp Leu Leu Thr Ala Val
1 5

<210> 1266
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:07,HLA-B*13:02,HLA-B*38:01,HLA-C*04:01

<400> 1266
Ser Leu Asp Leu Leu Thr Ala Val Thr Ile
1 5 10

<210> 1267
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-B*13:02,HLA-B*55:01

<400> 1267
Ser Leu Asp Val Asn Val Ile Gln Gln Val
1 5 10

<210> 1268
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:07

<400> 1268
Ser Leu Asp Val Asn Val Ile Gln Gln Val Val
1 5 10

<210> 1269
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*08:01,
HLA-B*13:02,HLA-B*55:01

<400> 1269
Ser Leu Leu Asp Lys His Ser Gln Ile
1 5

<210> 1270
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:04

<400> 1270
Ser Leu Leu Asp Asn Leu Gly Asn Asp Leu
1 5 10

<210> 1271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*27:02

<400> 1271
Ser Asn Ser Leu Ile Leu Asp Val Lys
1 5

<210> 1272
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*13:02

<400> 1272
Ser Gln Ile Ile Asn Lys Phe Val
1 5

<210> 1273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:02,HLA-A*11:01

<400> 1273
Ser Ser Ala Trp Gln Leu Ala Lys Gln Lys
1 5 10

<210> 1274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 1274
Ser Thr Val Ser Ser Leu Leu Gln Lys
1 5

<210> 1275
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*68:02,
HLA-B*13:02

<400> 1275
Ser Val Ile Asn Thr Leu Lys Ser Thr Val
1 5 10

<210> 1276
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*27:02

<400> 1276

Thr Ala Val Thr Ile Glu Thr Asp Pro Gln
1               5                   10


<210> 1277
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1277
Thr Asp Ile Phe Gly Leu Lys Ile
1               5


<210> 1278
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*37:01

<400> 1278
Thr Asp Pro Gln Thr His Gln Pro Val
1               5


<210> 1279
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*27:05,HLA-B*39:01

<400> 1279
Thr Gly Thr Ser Glu Ser Leu Leu Asp Asn Leu
1               5                   10


<210> 1280
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 1280
Thr His Gln Pro Val Ala Val Leu
1               5


<210> 1281
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*03:01

<400> 1281
Thr Leu Lys Gly Ile Leu Glu Lys
1               5


<210> 1282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
      HLA-A*31:01,HLA-A*68:02,HLA-B*08:01,HLA-B*40:02,HLA-C*06:02

<400> 1282
Thr Leu Lys Gly Ile Leu Glu Lys Leu
1               5


<210> 1283
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
      HLA -A*02:03,HLA-A*02:04,HLA-A*25:01,HLA-A*32:01,HLA-B*07:02,
      HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*01:02,
      HLA-C*07:02,HLA-C*14:02

<400> 1283
Thr Leu Lys Ser Thr Val Ser Ser Leu
1               5


<210> 1284
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*03:01,HLA-A*31:01

<400> 1284
Thr Leu Lys Ser Thr Val Ser Ser Leu Leu
1 5 10

<210> 1285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*33:01,HLA-A*33:03,HLA-B*27:02

<400> 1285
Thr Asn Thr Asp Ile Phe Gly Leu Lys
1 5

<210> 1286
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*39:01

<400> 1286
Thr Ser Glu Ser Leu Leu Asp Asn Leu
1 5

<210> 1287
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*11:01,HLA-B*27:02

<400> 1287
Thr Ser Ile Ser Leu Ser Leu Leu Asp Lys
1 5 10

<210> 1288

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*31:01,
HLA-A*68:01,HLA-A*68:02,HLA-B*27:05

<400> 1288
Thr Val Ala Gly Pro Ile Ile Gly Gln
1 5

<210> 1289
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,
HLA-B*13:02

<400> 1289
Thr Val Ala Gly Pro Ile Ile Gly Gln Ile
1 5 10

<210> 1290
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*38:01

<400> 1290
Thr Val Ala Gly Pro Ile Ile Gly Gln Ile Ile
1 5 10

<210> 1291
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:07

<400> 1291
Thr Val Asp Asn Thr Leu Lys Gly Ile

1 5

<210> 1292
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 1292
Thr Val Ser Ser Leu Leu Gln Lys
1 5

<210> 1293
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02

<400> 1293
Thr Val Ser Ser Leu Leu Gln Lys Glu Ile
1 5 10

<210> 1294
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:03,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*30:01,
HLA-A*68:02,HLA-B*13:02,HLA-B*38:01,HLA-B*46:01,HLA-B*49:01,
HLA-B*51:01,HLA-B*58:01,HLA-C*02:02,HLA-C*05:01,HLA-C*06:02,

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<223> HLA-C*12:03,HLA-C*16:02

<400> 1294
Val Ala Gly Pro Ile Ile Gly Gln Ile
1 5

<210> 1295
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-A*24:02,HLA-B*38:01,HLA-B*51:01,HLA-C*12:03

<400> 1295
Val Ala Gly Pro Ile Ile Gly Gln Ile Ile
1 5 10

<210> 1296
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*37:01,HLA-B*40:02,HLA-C*06:02,HLA-C*07:01,HLA-C*07:04,
HLA-C*12:03

<400> 1296
Val Asp Lys Leu Glu Pro Val Leu
1 5

<210> 1297
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-C*04:01,
HLA-C*07:01

<400> 1297
Val Asp Leu Gly Val Leu Gln Lys
1 5

<210> 1298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -B*40:02

<400> 1298
Val Asp Leu Gly Val Leu Gln Lys Ser
1 5

<210> 1299
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*32:01,HLA-C*06:02,HLA-C*16:02

<400> 1299
Val Asp Asn Pro Gln His Lys Thr
1 5

<210> 1300
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*30:01,HLA-B*07:02,HLA-B*37:01,HLA-B*40:02

<400> 1300
Val Asp Asn Pro Gln His Lys Thr Gln Leu
1 5 10

<210> 1301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*31:01,HLA-A*32:01,
HLA-B*08:01,HLA-B*13:02,HLA-B*46:01,HLA-B*51:01,HLA-B*55:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*06:02,HLA-C*07:04,HLA-C*12:03,

<220>
<223> HLA-C*16:02

<400> 1301
Val Ile Asn Thr Leu Lys Ser Thr Val
1 5

<210> 1302
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*15:01,HLA-B*46:01,HLA-B*49:01,HLA-B*51:01,HLA-B*55:01

<400> 1302
Val Leu His Glu Gly Leu Glu Thr Val
1 5

<210> 1303
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*32:01,HLA-B*58:01

<400> 1303
Val Leu Gln Lys Ser Ser Ala Trp
1 5

<210> 1304
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:04

<400> 1304
Val Leu Gln Lys Ser Ser Ala Trp Gln Leu
1 5 10

<210> 1305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,
HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:03,HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*55:01,

<220>
<223> HLA-C*01:02,HLA-C*07:02,HLA-C*14:02,HLA-C*16:01

<400> 1305
Val Leu Thr Gly Thr Ser Glu Ser Leu
1 5

<210> 1306
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-B*08:01,HLA-B*27:05,HLA-B*37:01,HLA-B*39:01,
HLA-C*04:01,HLA-C*06:02,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02

<400> 1306
Val Asn Ser Val Ile Asn Thr Leu
1 5

<210> 1307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-C*04:01,HLA-C*07:06

<400> 1307
Val Asn Ser Val Ile Asn Thr Leu Lys
1 5

<210> 1308
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -C*07:01

<400> 1308
Val Asn Val Ile Gln Gln Val Val Asp Asn
1 5 10

<210> 1309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;

HLA -B*13:02,HLA-B*58:01,HLA-C*06:02,HLA-C*16:02

<400> 1309
Val Ser Ser Leu Leu Gln Lys Glu Ile
1 5

<210> 1310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*02:01,HLA-B*58:01,HLA-C*04:01,HLA-C*06:02

<400> 1310
Val Thr Ile Glu Thr Asp Pro Gln Thr
1 5

<210> 1311
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*11:01,HLA-B*27:05,HLA-B*57:01,HLA-B*58:01,HLA-C*12:03

<400> 1311
Val Thr Ile Glu Thr Asp Pro Gln Thr His
1 5 10

<210> 1312
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*23:01,HLA-B*40:02,HLA-B*51:01,HLA-B*58:01,HLA-C*03:03,
HLA-C*03:04

<400> 1312
Val Thr Val Ala Gly Pro Ile Ile
1 5

<210> 1313
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*11:01,HLA-A*26:01,HLA-C*06:02

<400> 1313
Val Thr Val Ala Gly Pro Ile Ile Gly Gln
1 5 10

<210> 1314
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*68:02

<400> 1314
Val Thr Val Ala Gly Pro Ile Ile Gly Gln Ile
1 5 10

<210> 1315
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:02,
HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-B*27:05,HLA-B*35:01,
HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*55:01,

<220>
<223> HLA-B*58:01,HLA-C*03:03,HLA-C*05:01,HLA-C*07:04

<400> 1315
Val Val Asp Lys Leu Glu Pro Val Leu
1 5

<210> 1316
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01

<400> 1316
Val Val Asp Lys Leu Glu Pro Val Leu His

1 5 10

<210> 1317
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-C*05:01

<400> 1317
Val Val Asp Asn Pro Gln His Lys
1 5

<210> 1318
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:07,HLA-B*58:01,HLA-C*05:01

<400> 1318
Val Val Asp Asn Pro Gln His Lys Thr
1 5

<210> 1319
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; BPIFA2; ENSG00000131050;
HLA -A*01:01,HLA-A*02:07,HLA-A*32:01,HLA-A*68:02,HLA-B*27:05,
HLA-B*38:01,HLA-B*55:01,HLA-C*05:01,HLA-C*07:04,HLA-C*12:03,
HLA-C*16:02

<400> 1319
Val Val Asp Asn Pro Gln His Lys Thr Gln Leu
1 5 10

<210> 1320
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;

HLA -B*08:01,HLA-C*16:01

<400> 1320
Ala Gly Ser Leu Arg Arg Val Val
1 5

<210> 1321
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:02

<400> 1321
Ala Gly Ser Leu Arg Arg Val Val Asp Leu Tyr
1 5 10

<210> 1322
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*02:01,HLA-A*02:07,HLA-B*07:02,HLA-B*08:01,HLA-B*55:01,
HLA-C*05:01,HLA-C*07:02

<400> 1322
Ala Met Asp Ala Lys Ala Gly Ser Leu
1 5

<210> 1323
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01

<400> 1323
Ala Met Asp Ala Lys Ala Gly Ser Leu Arg
1 5 10

<210> 1324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*03:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 1324
Cys Leu Ile Pro Gln Thr Val Ser His
1 5

<210> 1325
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01

<400> 1325
Cys Leu Ile Pro Gln Thr Val Ser His Arg
1 5 10

<210> 1326
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*02:04

<400> 1326
Cys Leu Ile Pro Gln Thr Val Ser His Arg Leu
1 5 10

<210> 1327
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1327
Asp Ala Lys Ala Gly Ser Leu Arg
1 5

<210> 1328
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1328
Asp Ala Lys Ala Gly Ser Leu Arg Arg
1 5

<210> 1329
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*26:01

<400> 1329
Asp Cys Pro Asn Leu Gln Pro Tyr Phe
1 5

<210> 1330
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01

<400> 1330
Asp Cys Pro Asn Leu Gln Pro Tyr Phe Ser Arg
1 5 10

<210> 1331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01,HLA-A*33:03

<400> 1331
Glu Asp Arg Ala Phe Gln Gly Arg
1 5

<210> 1332
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*08:01

<400> 1332
Glu Ile Arg Ser Leu His Val Leu
1 5

<210> 1333
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*26:01

<400> 1333
Glu Leu Pro Asn Tyr Arg Gly Arg Gln Tyr
1 5 10

<210> 1334
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*27:02,HLA-B*27:05,HLA-C*07:01

<400> 1334
Glu Arg Pro Asn Tyr Gln Gly Gln Gln Tyr
1 5 10

<210> 1335
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*26:01

<400> 1335
Glu Thr Thr Thr Asp Cys Pro Asn Leu
1 5

<210> 1336
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*24:02

<400> 1336
Glu Tyr Pro Asp Tyr Gln Gln Trp Met Gly Leu
1 5 10

<210> 1337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*02:04,HLA-B*38:01

<400> 1337
Phe His Leu Ser Glu Ile Arg Ser Leu
1 5

<210> 1338
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 1338
Phe Tyr Glu Asp Arg Ala Phe Gln Gly Arg
1 5 10

<210> 1339
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-B*07:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,

<220>
<223> HLA-C*07:02,HLA-C*16:02,HLA-C*16:04

<400> 1339
Gly Ala Met Asp Ala Lys Ala Gly Ser Leu
1               5                   10


<210> 1340
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
      HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 1340
Gly Ala Met Asp Ala Lys Ala Gly Ser Leu Arg
1               5                   10


<210> 1341
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -B*27:05

<400> 1341
Gly Glu Tyr Pro Asp Tyr Gln Gln
1               5


<210> 1342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-B*15:03,HLA-B*18:01,
      HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
      HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,

<220>
<223> HLA-B*58:01,HLA-C*16:04

<400> 1342
Gly Glu Tyr Pro Asp Tyr Gln Gln Trp

1 5

<210> 1343
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1343
Gly Glu Tyr Pro Asp Tyr Gln Gln Trp Met
1 5 10

<210> 1344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*55:01

<400> 1344
Gly Leu Ser Asp Ser Ile Arg Ser Cys
1 5

<210> 1345
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*57:01

<400> 1345
Gly Ser Leu Arg Arg Val Val Asp Leu Tyr
1 5 10

<210> 1346
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*02:03,HLA-A*02:04,HLA-B*08:01,HLA-B*37:01

<400> 1346
His Leu Ser Glu Ile Arg Ser Leu
1               5


<210> 1347
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*02:03

<400> 1347
His Leu Ser Glu Ile Arg Ser Leu His Val
1               5                   10


<210> 1348
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*02:04

<400> 1348
His Leu Ser Glu Ile Arg Ser Leu His Val Leu
1               5                   10


<210> 1349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*02:04

<400> 1349
His Val Leu Glu Gly Cys Trp Val Leu
1               5


<210> 1350
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;

HLA -A*29:02

<400> 1350
His Val Leu Glu Gly Cys Trp Val Leu Tyr
1 5 10

<210> 1351
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01,HLA-A*33:03

<400> 1351
Ile Pro Gln Thr Val Ser His Arg
1 5

<210> 1352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*23:01,HLA-A*24:02,HLA-A*33:03,HLA-B*07:02,HLA-B*08:01,
HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*55:01,HLA-C*07:02

<400> 1352
Ile Pro Gln Thr Val Ser His Arg Leu
1 5

<210> 1353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*57:01

<400> 1353
Ile Thr Phe Tyr Glu Asp Arg Ala Phe
1 5

<210> 1354
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*02:07

<400> 1354
Leu Ile Pro Gln Thr Val Ser His Arg Leu
1 5 10

<210> 1355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*01:01

<400> 1355
Leu Ser Glu Ile Arg Ser Leu His Val
1 5

<210> 1356
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:01,HLA-B*07:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-C*06:02,HLA-C*07:04

<400> 1356
Met Asp Ala Lys Ala Gly Ser Leu
1 5

<210> 1357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1357
Met Asp Ala Lys Ala Gly Ser Leu Arg
1 5

<210> 1358

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*49:01

<400> 1358
Met Glu Leu Ser Glu Asp Cys Pro Ser Ile
1 5 10

<210> 1359
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*25:01,HLA-B*57:01

<400> 1359
Asn Ser Ile Arg Val Glu Ser Gly Cys Trp
1 5 10

<210> 1360
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*33:03,HLA-C*14:02

<400> 1360
Asn Tyr Gln Gly Gln Gln Tyr Leu Leu
1 5

<210> 1361
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 1361
Asn Tyr Gln Gly Gln Gln Tyr Leu Leu Arg
1 5 10

<210> 1362
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01,HLA-A*33:01

<400> 1362
Asn Tyr Gln Gly Gln Gln Tyr Leu Leu Arg Arg
1 5 10

<210> 1363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01

<400> 1363
Pro Asn Leu Gln Pro Tyr Phe Ser Arg
1 5

<210> 1364
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*15:03,HLA-B*39:01,HLA-C*04:01,HLA-C*07:01

<400> 1364
Pro Asn Tyr Gln Gly Gln Gln Tyr
1 5

<210> 1365
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -C*07:02

<400> 1365
Pro Asn Tyr Gln Gly Gln Gln Tyr Leu Leu

1 5 10

<210> 1366
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01

<400> 1366
Pro Asn Tyr Gln Gly Gln Gln Tyr Leu Leu Arg
1 5 10

<210> 1367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*24:02

<400> 1367
Pro Tyr Phe Ser Arg Cys Asn Ser Ile
1 5

<210> 1368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*27:02

<400> 1368
Gln Asp Trp Gly Ala Met Asp Ala Lys
1 5

<210> 1369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01

<400> 1369
Gln Gly Gln Gln Tyr Leu Leu Arg Arg
1               5


<210> 1370
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -B*51:01

<400> 1370
Gln Pro Tyr Phe Ser Arg Cys Asn Ser Ile
1               5                   10


<210> 1371
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -B*38:01

<400> 1371
Gln Gln Trp Met Gly Leu Ser Asp Ser Ile
1               5                   10


<210> 1372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,
      HLA-C*04:01,HLA-C*14:02

<400> 1372
Gln Tyr Leu Leu Arg Pro Gln Glu Tyr
1               5


<210> 1373
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*16:01,HLA-C*16:02

<400> 1373
Arg Ala Phe Gln Gly Arg Ser Tyr
1 5

<210> 1374
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*03:02

<400> 1374
Arg Cys Gln Asp Trp Gly Ala Met Asp Ala Lys
1 5 10

<210> 1375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*03:01

<400> 1375
Arg Leu Tyr Glu Arg Glu Asp His Lys
1 5

<210> 1376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:02,HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*35:01,
HLA-B*55:01,HLA-C*07:02,HLA-C*16:02

<400> 1376
Arg Pro Asn Tyr Gln Gly Gln Gln Tyr
1 5

<210> 1377
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*07:02,HLA-C*07:02

<400> 1377
Arg Pro Asn Tyr Gln Gly Gln Gln Tyr Leu
1 5 10

<210> 1378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*44:02

<400> 1378
Arg Gln Tyr Leu Leu Arg Pro Gln Glu Tyr
1 5 10

<210> 1379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*57:01

<400> 1379
Arg Ser Leu His Val Leu Glu Gly Cys Trp
1 5 10

<210> 1380
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*01:01

<400> 1380
Arg Val Glu Ser Gly Cys Trp Met Leu Tyr
1 5 10

<210> 1381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*37:01

<400> 1381
Ser Asp Ser Ile Arg Ser Cys Cys Leu
1 5

<210> 1382
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*38:01,HLA-B*44:02,HLA-B*44:03

<400> 1382
Ser Glu Asp Cys Pro Ser Ile Gln Asp Arg Phe
1 5 10

<210> 1383
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*49:01

<400> 1383
Ser Glu Ile Arg Ser Leu His Val
1 5

<210> 1384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1384
Ser Glu Ile Arg Ser Leu His Val Leu

1 5

<210> 1385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,HLA-B*46:01,
HLA-B*57:01

<400> 1385
Ser Leu Arg Arg Val Val Asp Leu Tyr
1 5

<210> 1386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -C*04:01,HLA-C*07:01

<400> 1386
Thr Asp Cys Pro Asn Leu Gln Pro Tyr
1 5

<210> 1387
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01

<400> 1387
Thr Phe Tyr Glu Asp Arg Ala Phe Gln Gly Arg
1 5 10

<210> 1388
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*01:01

<400> 1388
Thr Thr Asp Cys Pro Asn Leu Gln Pro Tyr
1               5                   10


<210> 1389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*01:01,HLA-A*29:02

<400> 1389
Val Leu Glu Gly Cys Trp Val Leu Tyr
1               5


<210> 1390
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*03:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 1390
Val Leu Tyr Glu Leu Pro Asn Tyr
1               5


<210> 1391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
      HLA -A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,
      HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1391
Val Leu Tyr Glu Leu Pro Asn Tyr Arg
1               5


<210> 1392
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01

<400> 1392
Val Leu Tyr Glu Leu Pro Asn Tyr Arg Gly Arg
1 5 10

<210> 1393
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*29:02

<400> 1393
Trp Met Leu Tyr Glu Arg Pro Asn Tyr
1 5

<210> 1394
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*29:02

<400> 1394
Trp Val Leu Tyr Glu Leu Pro Asn Tyr
1 5

<210> 1395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*31:01,HLA-B*44:02,HLA-B*49:01

<400> 1395
Tyr Glu Asp Arg Ala Phe Gln Gly Arg
1 5

<210> 1396
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*44:02,HLA-B*44:03

<400> 1396
Tyr Glu Asp Arg Ala Phe Gln Gly Arg Ser Tyr
1 5 10

<210> 1397
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*44:02

<400> 1397
Tyr Glu Leu Pro Asn Tyr Arg Gly Arg Gln Tyr
1 5 10

<210> 1398
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*37:01,HLA-B*40:02

<400> 1398
Tyr Glu Arg Glu Asp His Lys Gly Leu
1 5

<210> 1399
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*29:02,HLA-A*32:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 1399
Tyr Glu Arg Pro Asn Tyr Gln Gly Gln Gln Tyr
1 5 10

<210> 1400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -B*49:01

<400> 1400
Tyr Glu Thr Thr Thr Asp Cys Pro
1 5

<210> 1401
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 1401
Tyr Glu Thr Thr Thr Asp Cys Pro Asn Leu
1 5 10

<210> 1402
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*01:01,HLA-A*29:02,HLA-B*15:03,HLA-B*46:01,HLA-C*07:01

<400> 1402
Tyr Leu Leu Arg Pro Gln Glu Tyr
1 5

<210> 1403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*33:01

<400> 1403
Tyr Leu Leu Arg Pro Gln Glu Tyr Arg
1 5

<210> 1404
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*02:01,HLA-A*30:01,HLA-B*13:02,HLA-B*27:05,HLA-B*38:01,
HLA-B*39:01,HLA-C*07:04

<400> 1404
Tyr Gln Gly Gln Gln Tyr Leu Leu
1 5

<210> 1405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CRYGC; ENSG00000163254;
HLA -A*29:02,HLA-A*31:01

<400> 1405
Tyr Gln Gly Gln Gln Tyr Leu Leu Arg
1 5

<210> 1406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*32:01

<400> 1406
Ala Leu Ala Leu Val Arg Pro Ser Ser
1 5

<210> 1407
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:03

<400> 1407
Ala Leu Ala Leu Val Arg Pro Ser Ser Ser
1               5                   10


<210> 1408
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*29:02

<400> 1408
Ala Leu Ile Val Phe Trp Lys Tyr
1               5


<210> 1409
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*02:03

<400> 1409
Ala Leu Val Arg Pro Ser Ser Ser Gly Leu
1               5                   10


<210> 1410
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -B*13:02

<400> 1410
Ala Val Tyr Asp Leu Ser Arg Asp Ile
1               5


<210> 1411
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;

HLA -A*25:01,HLA-B*07:02

<400> 1411
Ala Val Tyr Asp Leu Ser Arg Asp Ile Leu
1 5 10

<210> 1412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*29:02,HLA-B*57:01

<400> 1412
Cys Ala Leu Ile Val Phe Trp Lys Tyr
1 5

<210> 1413
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*25:01

<400> 1413
Asp Leu Ser Arg Asp Ile Leu Asn Asn Phe
1 5 10

<210> 1414
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*33:01,HLA-B*27:02

<400> 1414
Asp Asn Asn Leu Ala Val Tyr Asp Leu Ser Arg
1 5 10

<210> 1415
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*38:01,HLA-B*44:02,HLA-C*07:01

<400> 1415
Glu His Thr Leu Leu Ser Lys Gly Phe
1 5

<210> 1416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*01:01,HLA-A*33:01,HLA-A*68:01

<400> 1416
Glu Leu Glu His Thr Leu Leu Ser Lys
1 5

<210> 1417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:03,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*33:03,
HLA-B*07:02,HLA-B*08:01,HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*55:01,HLA-C*01:02,HLA-C*07:02,HLA-C*07:04,

<220>
<223> HLA-C*14:02

<400> 1417
Glu Met Ser Ser Asn Ser Thr Ala Leu
1 5

<210> 1418
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*54:01

<400> 1418
Phe Pro His Ser Ile Ala Arg Gln Lys
1 5

<210> 1419
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*40:02,HLA-B*46:01,
HLA-C*03:03,HLA-C*07:04,HLA-C*12:03,HLA-C*14:02

<400> 1419
Phe Gln Arg Asn Thr Gly Glu Met
1 5

<210> 1420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 1420
Phe Tyr Leu Leu Leu Ala Ser Ser Ile
1 5

<210> 1421
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*24:02

<400> 1421
Phe Tyr Leu Leu Leu Ala Ser Ser Ile Leu
1 5 10

<210> 1422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 1422
Gly Glu Met Ser Ser Asn Ser Thr Ala
1               5


<210> 1423
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*30:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*27:05,
      HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
      HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 1423
Gly Glu Met Ser Ser Asn Ser Thr Ala Leu
1               5                   10


<210> 1424
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*30:01,HLA-B*49:01

<400> 1424
Gly Glu Met Ser Ser Asn Ser Thr Ala Leu Ala
1               5                   10


<210> 1425
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*27:05

<400> 1425
Gly Leu Ile Asn Ser Asn Thr Asp Asn Asn Leu
1               5                   10


<210> 1426
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*57:01

<400> 1426
His Thr Leu Leu Ser Lys Gly Phe
1 5

<210> 1427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 1427
His Thr Leu Leu Ser Lys Gly Phe Arg
1 5

<210> 1428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*38:01,HLA-B*51:01,HLA-B*55:01,HLA-C*06:02,

<220>
<223> HLA-C*16:02

<400> 1428
Ile Leu Asn Asn Phe Pro His Ser Ile
1 5

<210> 1429
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:03

<400> 1429
Ile Leu Asn Asn Phe Pro His Ser Ile Ala
1 5 10

<210> 1430
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*03:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 1430
Ile Leu Asn Asn Phe Pro His Ser Ile Ala Arg
1 5 10

<210> 1431
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*35:03,HLA-B*39:01

<400> 1431
Ile Asn Ser Asn Thr Asp Asn Asn Leu
1 5

<210> 1432
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*31:01

<400> 1432
Lys Gly Phe Arg Gly Ala Ser Pro His Arg
1 5 10

<210> 1433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,HLA-B*55:01,

<220>
<223> HLA-B*58:01,HLA-C*16:02

<400> 1433
Lys Leu Val Glu Leu Glu His Thr Leu
1               5


<210> 1434
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*24:02

<400> 1434
Lys Leu Val Glu Leu Glu His Thr Leu Leu
1               5                   10


<210> 1435
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -B*54:01

<400> 1435
Leu Ala Ser Ser Ile Leu Cys Ala
1               5


<210> 1436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*68:02,HLA-B*27:05,HLA-B*35:03,HLA-B*46:01,HLA-C*02:02,
      HLA-C*03:03,HLA-C*03:04,HLA-C*12:03

<400> 1436
Leu Ala Ser Ser Ile Leu Cys Ala Leu
1               5


<210> 1437
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*44:02,HLA-B*44:03

<400> 1437
Leu Glu His Thr Leu Leu Ser Lys Gly Phe
1 5 10

<210> 1438
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*27:05

<400> 1438
Leu Ile Asn Ser Asn Thr Asp Asn Asn Leu
1 5 10

<210> 1439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01,HLA-A*02:03

<400> 1439
Leu Leu Ala Ser Ser Ile Leu Cys Ala
1 5

<210> 1440
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 1440
Leu Leu Ala Ser Ser Ile Leu Cys Ala Leu
1 5 10

<210> 1441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01

<400> 1441
Leu Leu Leu Ala Ser Ser Ile Leu Cys
1 5

<210> 1442
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01,HLA-A*02:04

<400> 1442
Leu Leu Leu Ala Ser Ser Ile Leu Cys Ala Leu
1 5 10

<210> 1443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 1443
Leu Ser Arg Asp Ile Leu Asn Asn Phe
1 5

<210> 1444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*01:01,HLA-A*02:07,HLA-B*38:01,HLA-C*05:01

<400> 1444
Leu Val Glu Leu Glu His Thr Leu Leu

1 5

<210> 1445
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*03:01,HLA-A*03:02,HLA-B*27:02

<400> 1445
Leu Val Asn Leu Ser Met Val Glu Asn Lys
1 5 10

<210> 1446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:03,HLA-A*25:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,
HLA-B*15:01,HLA-B*40:02,HLA-B*46:01,HLA-C*01:02,HLA-C*03:04,
HLA-C*07:02,HLA-C*07:04

<400> 1446
Leu Val Arg Pro Ser Ser Ser Gly Leu
1 5

<210> 1447
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -C*03:03,HLA-C*03:04,HLA-C*16:01

<400> 1447
Met Ser Ser Asn Ser Thr Ala Leu
1 5

<210> 1448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;

HLA -A*02:07,HLA-A*68:02,HLA-B*08:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*55:01,HLA-C*05:01,HLA-C*07:04

<400> 1448
Met Val Glu Asn Lys Leu Val Glu Leu
1 5

<210> 1449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:04

<400> 1449
Asn Leu Ser Met Val Glu Asn Lys Leu
1 5

<210> 1450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*29:02,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-C*07:06

<400> 1450
Asn Asn Phe Pro His Ser Ile Ala Arg
1 5

<210> 1451
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*01:01,HLA-A*30:02

<400> 1451
Asn Ser Asn Thr Asp Asn Asn Leu Ala Val Tyr
1 5 10

<210> 1452
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*29:02,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 1452
Asn Ser Thr Ala Leu Ala Leu Val Arg
1 5

<210> 1453
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*01:01,HLA-C*05:01

<400> 1453
Asn Thr Asp Asn Asn Leu Ala Val
1 5

<210> 1454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*27:05,HLA-B*35:01,HLA-B*39:01,
HLA-B*55:01,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,HLA-C*16:02

<400> 1454
Asn Thr Asp Asn Asn Leu Ala Val Tyr
1 5

<210> 1455
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*27:05,HLA-B*39:01

<400> 1455
Asn Thr Asp Asn Asn Leu Ala Val Tyr Asp Leu
1 5 10

<210> 1456
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 1456
Arg Ile Leu Val Asn Leu Ser Met Val
1 5

<210> 1457
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*07:02

<400> 1457
Arg Pro Ser Ser Ser Gly Leu Ile Asn Ser Asn
1 5 10

<210> 1458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*31:01

<400> 1458
Arg Gln Lys Arg Ile Leu Val Asn Leu
1 5

<210> 1459
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*46:01,
HLA-B*55:01

<400> 1459
Ser Met Val Glu Asn Lys Leu Val Glu Leu
1               5                   10


<210> 1460
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*68:01,HLA-B*27:02

<400> 1460
Ser Asn Ser Thr Ala Leu Ala Leu Val Arg
1               5                   10


<210> 1461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -B*13:02

<400> 1461
Ser Asn Thr Asp Asn Asn Leu Ala Val
1               5


<210> 1462
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 1462
Ser Asn Thr Asp Asn Asn Leu Ala Val Tyr
1               5                   10


<210> 1463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;

HLA -A*03:01,HLA-A*03:02,HLA-B*07:02,HLA-B*13:02,HLA-B*35:03,
HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*07:02,HLA-C*14:02,HLA-C*16:01

<400> 1463
Ser Ser Asn Ser Thr Ala Leu Ala Leu
1 5

<210> 1464
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 1464
Ser Ser Asn Ser Thr Ala Leu Ala Leu Val Arg
1 5 10

<210> 1465
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*11:01

<400> 1465
Ser Thr Ala Leu Ala Leu Val Arg
1 5

<210> 1466
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -C*06:02,HLA-C*07:01,HLA-C*07:02

<400> 1466
Ser Thr Ala Leu Ala Leu Val Arg Pro Ser
1 5 10

<210> 1467
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-C*06:02,HLA-C*07:01

<400> 1467
Thr Ala Leu Ala Leu Val Arg Pro Ser
1 5

<210> 1468
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*30:02,HLA-B*18:01,HLA-C*07:01

<400> 1468
Thr Asp Asn Asn Leu Ala Val Tyr
1 5

<210> 1469
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*35:03,HLA-B*40:01

<400> 1469
Thr Gly Glu Met Ser Ser Asn Ser Thr Ala Leu
1 5 10

<210> 1470
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:03

<400> 1470
Thr Leu Leu Ser Lys Gly Phe Arg Gly Ala
1 5 10

<210> 1471
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*23:01,HLA-A*30:01,HLA-B*08:01,HLA-B*18:01,HLA-B*37:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 1471
Val Glu Leu Glu His Thr Leu Leu
1 5

<210> 1472
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*49:01

<400> 1472
Val Glu Leu Glu His Thr Leu Leu Ser
1 5

<210> 1473
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01

<400> 1473
Val Glu Asn Lys Leu Val Glu Leu
1 5

<210> 1474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*27:02

<400> 1474

Val Asn Leu Ser Met Val Glu Asn Lys
1               5


<210> 1475
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*23:01

<400> 1475
Val Asn Leu Ser Met Val Glu Asn Lys Leu
1               5                   10


<210> 1476
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -C*01:02

<400> 1476
Val Arg Pro Ser Ser Ser Gly Leu
1               5


<210> 1477
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -B*35:03,HLA-B*51:01,HLA-C*04:01

<400> 1477
Val Tyr Asp Leu Ser Arg Asp Ile
1               5


<210> 1478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
      HLA -A*23:01,HLA-A*24:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,

HLA-C*04:01

<400> 1478
Val Tyr Asp Leu Ser Arg Asp Ile Leu
1 5

<210> 1479
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -B*13:02,HLA-B*51:01

<400> 1479
Tyr Leu Leu Leu Ala Ser Ser Ile
1 5

<210> 1480
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CT83; ENSG00000204019;
HLA -A*02:04

<400> 1480
Tyr Leu Leu Leu Ala Ser Ser Ile Leu
1 5

<210> 1481
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*01:01,HLA-A*02:07,HLA-A*30:01,HLA-B*07:02,HLA-B*08:01,
HLA-B*38:01,HLA-B*40:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*05:01,HLA-C*07:02,HLA-C*16:01,HLA-C*16:02

<400> 1481
Ala Ala Asp His Arg Gln Leu Gln Leu
1 5

<210> 1482
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*30:01,HLA-B*13:02,HLA-B*37:01,HLA-B*38:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 1482
Ala Asp Gly Pro Gly Gly Pro Gly Ile
1 5

<210> 1483
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:02,HLA-C*06:02,HLA-C*07:04

<400> 1483
Ala Asp His Arg Gln Leu Gln Leu
1 5

<210> 1484
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*40:01

<400> 1484
Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr
1 5 10

<210> 1485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*32:01,HLA-C*07:04,HLA-C*16:02

<400> 1485
Ala Gly Ala Ala Arg Ala Ser Gly Pro
1 5

<210> 1486
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*04:01

<400> 1486
Ala Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly
1 5 10

<210> 1487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*46:01,HLA-C*01:02

<400> 1487
Ala Met Pro Phe Ala Thr Pro Met
1 5

<210> 1488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07

<400> 1488
Ala Met Pro Phe Ala Thr Pro Met Glu Ala
1 5 10

<210> 1489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-B*07:02,HLA-B*13:02,
HLA-B*37:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*04:01,HLA-C*07:02

<400> 1489

Ala Pro Pro Leu Pro Val Pro Gly Val
1 5

<210> 1490
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 1490
Ala Pro Pro Leu Pro Val Pro Gly Val Leu
1 5 10

<210> 1491
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02

<400> 1491
Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu
1 5 10

<210> 1492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 1492
Ala Pro Arg Gly Pro His Gly Gly Ala
1 5

<210> 1493
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 1493
Ala Pro Arg Gly Pro His Gly Gly Ala Ala
1               5                   10


<210> 1494
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*07:02,HLA-C*07:02

<400> 1494
Ala Pro Arg Gly Pro His Gly Gly Ala Ala Ser
1               5                   10


<210> 1495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*03:01,
      HLA-A*03:02,HLA-A*11:01,HLA-A*30:01,HLA-B*13:02,HLA-B*27:05,
      HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:02,HLA-B*49:01,

<220>
<223> HLA-B*55:01,HLA-B*56:01,HLA-C*05:01,HLA-C*06:02

<400> 1495
Ala Gln Asp Ala Pro Pro Leu Pro Val
1               5


<210> 1496
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*27:05

<400> 1496
Ala Gln Asp Ala Pro Pro Leu Pro Val Pro Gly
1               5                   10


<210> 1497

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*31:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:05,HLA-C*06:02

<400> 1497
Ala Gln Pro Pro Ser Gly Gln Arg Arg
1 5

<210> 1498
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*27:05,HLA-B*39:01

<400> 1498
Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala
1 5 10

<210> 1499
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*27:05,HLA-B*39:01

<400> 1499
Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro
1 5 10

<210> 1500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*27:05,HLA-B*40:02,HLA-C*06:02,HLA-C*07:01

<400> 1500
Ala Arg Gly Pro Glu Ser Arg Leu Leu
1 5

<210> 1501
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*57:01,HLA-C*01:02,HLA-C*07:04,

<220>
<223> HLA-C*07:06

<400> 1501
Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
1 5 10

<210> 1502
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*01:01

<400> 1502
Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly
1 5 10

<210> 1503
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*01:02

<400> 1503
Ala Thr Pro Met Glu Ala Glu Leu
1 5

<210> 1504
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*11:01,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 1504
Ala Thr Pro Met Glu Ala Glu Leu Ala Arg
1 5 10

<210> 1505
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*11:01,HLA-A*31:01

<400> 1505
Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg
1 5 10

<210> 1506
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*38:01,HLA-B*51:01,HLA-C*05:01

<400> 1506
Asp Ala Asp Gly Pro Gly Gly Pro Gly Ile
1 5 10

<210> 1507
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*51:01,HLA-B*54:01

<400> 1507
Asp Ala Pro Pro Leu Pro Val Pro
1 5

<210> 1508
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:07,HLA-A*26:01,HLA-A*68:02,HLA-B*51:01

<400> 1508
Asp Ala Pro Pro Leu Pro Val Pro Gly Val
1 5 10

<210> 1509
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*51:01

<400> 1509
Asp Gly Pro Gly Gly Pro Gly Ile
1 5

<210> 1510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*51:01

<400> 1510
Asp His Arg Gln Leu Gln Leu Ser Ile
1 5

<210> 1511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*08:01,HLA-B*51:01,HLA-C*01:02,HLA-C*07:02,
HLA-C*16:01

<400> 1511
Glu Ala Glu Leu Ala Arg Arg Ser Leu
1 5

<210> 1512
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*33:03

<400> 1512
Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg
1 5 10

<210> 1513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*24:02,HLA-C*14:02

<400> 1513
Glu Phe Thr Val Ser Gly Asn Ile Leu
1 5

<210> 1514
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*23:01

<400> 1514
Glu Phe Thr Val Ser Gly Asn Ile Leu Thr Ile
1 5 10

<210> 1515
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*07:01

<400> 1515
Glu Phe Tyr Leu Ala Met Pro Phe
1 5

<210> 1516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,
HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*15:03,HLA-B*27:02,
HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,

<220>
<223> HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,
HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,

<220>
<223> HLA-C*16:04

<400> 1516
Phe Ala Thr Pro Met Glu Ala Glu Leu
1 5

<210> 1517
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*27:02

<400> 1517
Phe Ala Thr Pro Met Glu Ala Glu Leu Ala Arg
1 5 10

<210> 1518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:03,HLA-A*32:01

<400> 1518
Phe Leu Ala Gln Pro Pro Ser Gly Gln
1 5

<210> 1519
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*33:03,HLA-A*68:01

<400> 1519
Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg
1 5 10

<210> 1520
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*01:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*29:02,
HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:05

<400> 1520
Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg
1 5 10

<210> 1521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:07

<400> 1521
Phe Leu Pro Val Phe Leu Ala Gln Pro
1 5

<210> 1522
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*35:03,HLA-B*39:01,HLA-B*46:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*14:02

<400> 1522
Phe Thr Val Ser Gly Asn Ile Leu
1               5


<210> 1523
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -A*02:01,HLA-A*02:03,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,
      HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*40:02,HLA-C*02:02

<400> 1523
Phe Thr Val Ser Gly Asn Ile Leu Thr Ile
1               5                   10


<210> 1524
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 1524
Phe Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
1               5                   10


<210> 1525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*07:02,HLA-C*07:02

<400> 1525
Gly Ala Arg Gly Pro Glu Ser Arg Leu
1               5


<210> 1526
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*16:02

<400> 1526
Gly Ala Thr Gly Gly Arg Gly Pro
1 5

<210> 1527
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*44:02,HLA-B*44:03,HLA-C*06:02,HLA-C*16:04

<400> 1527
Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro
1 5 10

<210> 1528
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*39:01

<400> 1528
Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala
1 5 10

<210> 1529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*07:02

<400> 1529
Gly Pro Glu Ser Arg Leu Leu Glu Phe
1 5

<210> 1530
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*01:01

<400> 1530
Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr
1 5 10

<210> 1531
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*68:01

<400> 1531
Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg
1 5 10

<210> 1532
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*68:01

<400> 1532
Gly Pro Gly Gly Gly Ala Pro Arg
1 5

<210> 1533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*07:02

<400> 1533
Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro
1 5 10

<210> 1534
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-C*07:02

<400> 1534
Gly Pro His Gly Gly Ala Ala Ser Gly Leu
1 5 10

<210> 1535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*33:01,HLA-A*33:03,HLA-B*07:02

<400> 1535
Gly Pro Arg Gly Ala Gly Ala Ala Arg
1 5

<210> 1536
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 1536
Gly Pro Arg Gly Ala Gly Ala Ala Arg Ala
1 5 10

<210> 1537
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02

<400> 1537
Gly Pro Arg Gly Ala Gly Ala Ala Arg Ala Ser
1 5 10

<210> 1538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*27:05

<400> 1538
Gly Arg Gly Pro Arg Gly Ala Gly Ala
1 5

<210> 1539
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*27:05

<400> 1539
Gly Arg Gly Pro Arg Gly Ala Gly Ala Ala Arg
1 5 10

<210> 1540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 1540
Gly Val Leu Leu Lys Glu Phe Thr Val
1 5

<210> 1541
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*07:04

<400> 1541

His Gly Gly Ala Ala Ser Gly Leu
1               5


<210> 1542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*08:01,HLA-B*46:01,
      HLA-B*55:01

<400> 1542
Ile Leu Thr Ile Arg Leu Thr Ala Ala
1               5


<210> 1543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*07:02,HLA-B*55:01,HLA-B*56:01,HLA-C*05:01

<400> 1543
Ile Pro Asp Gly Pro Gly Gly Asn Ala
1               5


<210> 1544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*57:01

<400> 1544
Ile Thr Gln Cys Phe Leu Pro Val Phe
1               5


<210> 1545
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;

HLA -A*30:01,HLA-B*13:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1545
Lys Glu Phe Thr Val Ser Gly Asn Ile
1 5

<210> 1546
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*30:01,HLA-B*15:03,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1546
Lys Glu Phe Thr Val Ser Gly Asn Ile Leu
1 5 10

<210> 1547
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*49:01

<400> 1547
Lys Glu Phe Thr Val Ser Gly Asn Ile Leu Thr
1 5 10

<210> 1548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:07,HLA-A*03:01,HLA-A*11:01,HLA-A*23:01,
HLA-A*24:02,HLA-A*26:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,
HLA-A*31:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,

<220>
<223> HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,
HLA-B*39:01,HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*06:02,

<220>
<223> HLA-C*07:01,HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 1548
Leu Ala Met Pro Phe Ala Thr Pro Met
1 5

<210> 1549
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*54:01

<400> 1549
Leu Ala Met Pro Phe Ala Thr Pro Met Glu Ala
1 5 10

<210> 1550
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*46:01,HLA-C*03:03,HLA-C*03:04

<400> 1550
Leu Ala Gln Asp Ala Pro Pro Leu
1 5

<210> 1551
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*01:01,HLA-B*27:02,HLA-B*54:01,HLA-B*56:01,HLA-C*03:03,
HLA-C*03:04

<400> 1551
Leu Ala Gln Asp Ala Pro Pro Leu Pro Val
1 5 10

<210> 1552
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:05,HLA-B*54:01,HLA-B*57:01,HLA-C*06:02,
HLA-C*07:06,HLA-C*16:02

<400> 1552
Leu Ala Gln Pro Pro Ser Gly Gln Arg
1 5

<210> 1553
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:05,HLA-B*54:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*06:02,HLA-C*07:01,HLA-C*07:02,HLA-C*07:06,HLA-C*16:02

<400> 1553
Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg
1 5 10

<210> 1554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:03

<400> 1554
Leu Leu Lys Glu Phe Thr Val Ser Gly
1 5

<210> 1555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:03

<400> 1555

Leu Leu Lys Glu Phe Thr Val Ser Gly Asn
1               5                   10


<210> 1556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*54:01

<400> 1556
Leu Pro Val Phe Leu Ala Gln Pro Pro
1               5


<210> 1557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*54:01

<400> 1557
Leu Pro Val Phe Leu Ala Gln Pro Pro Ser
1               5                   10


<210> 1558
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*54:01,HLA-B*56:01

<400> 1558
Leu Pro Val Phe Leu Ala Gln Pro Pro Ser Gly
1               5                   10


<210> 1559
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,

HLA-B*56:01

<400> 1559
Leu Pro Val Pro Gly Val Leu Leu
1 5

<210> 1560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*51:01

<400> 1560
Leu Pro Val Pro Gly Val Leu Leu Lys
1 5

<210> 1561
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*35:01

<400> 1561
Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe
1 5 10

<210> 1562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*30:01,HLA-B*27:05

<400> 1562
Leu Gln Leu Ser Ile Ser Ser Cys Leu
1 5

<210> 1563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*68:02,HLA-C*06:02,HLA-C*16:01,HLA-C*16:02

<400> 1563
Leu Thr Ala Ala Asp His Arg Gln Leu
1 5

<210> 1564
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*30:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 1564
Met Glu Ala Glu Leu Ala Arg Arg Ser Leu
1 5 10

<210> 1565
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*51:01,HLA-B*54:01

<400> 1565
Met Pro Phe Ala Thr Pro Met Glu
1 5

<210> 1566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:03,HLA-A*30:01,HLA-A*68:02,HLA-B*07:02,
HLA-B*08:01,HLA-B*13:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,HLA-C*04:01,

<220>
<223> HLA-C*06:02,HLA-C*07:02,HLA-C*12:03,HLA-C*16:04

<400> 1566
Met Pro Phe Ala Thr Pro Met Glu Ala
1 5

<210> 1567
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*35:01,HLA-B*54:01,HLA-B*56:01

<400> 1567
Met Pro Phe Ala Thr Pro Met Glu Ala Glu
1 5 10

<210> 1568
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*68:01,HLA-A*68:02,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*03:03,HLA-C*04:01,HLA-C*07:01

<400> 1568
Met Pro Phe Ala Thr Pro Met Glu Ala Glu Leu
1 5 10

<210> 1569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*54:01,HLA-C*16:01

<400> 1569
Asn Ile Leu Thr Ile Arg Leu Thr Ala
1 5

<210> 1570
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*54:01

<400> 1570
Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala
1 5 10

<210> 1571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*07:02

<400> 1571
Pro Gly Gly Gly Ala Pro Arg Gly Pro
1 5

<210> 1572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:07,HLA-A*24:02

<400> 1572
Pro Leu Pro Val Pro Gly Val Leu Leu
1 5

<210> 1573
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*51:01

<400> 1573
Pro Pro Leu Pro Val Pro Gly Val
1 5

<210> 1574
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02

<400> 1574
Pro Pro Leu Pro Val Pro Gly Val Leu
1 5

<210> 1575
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*24:02

<400> 1575
Pro Pro Leu Pro Val Pro Gly Val Leu Leu
1 5 10

<210> 1576
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*37:01

<400> 1576
Gln Asp Ala Pro Pro Leu Pro Val
1 5

<210> 1577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*30:01,HLA-B*27:05,HLA-B*40:02,HLA-C*04:01,HLA-C*06:02,
HLA-C*07:01,HLA-C*07:02,HLA-C*07:04,HLA-C*16:02

<400> 1577
Gln Asp Ala Pro Pro Leu Pro Val Pro
1 5

<210> 1578
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*68:02,HLA-B*27:02,HLA-C*04:01,HLA-C*06:02,HLA-C*07:01

<400> 1578
Gln Asp Ala Pro Pro Leu Pro Val Pro Gly
1 5 10

<210> 1579
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:05,HLA-C*07:06

<400> 1579
Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
1 5 10

<210> 1580
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*32:01

<400> 1580
Arg Gly Ala Gly Ala Ala Arg Ala Ser Gly Pro
1 5 10

<210> 1581
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:07,HLA-A*24:02

<400> 1581
Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe
1 5 10

<210> 1582
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*01:02

<400> 1582
Arg Gly Pro His Gly Gly Ala Ala Ser Gly Leu
1 5 10

<210> 1583
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*31:01

<400> 1583
Arg Gly Pro Arg Gly Ala Gly Ala Ala Arg
1 5 10

<210> 1584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:04,HLA-A*02:07,HLA-A*03:01

<400> 1584
Arg Leu Leu Glu Phe Tyr Leu Ala Met
1 5

<210> 1585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:04,HLA-A*31:01

<400> 1585
Ser Gly Asn Ile Leu Thr Ile Arg Leu
1 5

<210> 1586
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -C*01:02

<400> 1586
Ser Gly Pro Gly Gly Gly Ala Pro
1 5

<210> 1587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-C*01:02,HLA-C*07:06

<400> 1587
Ser Gly Pro Gly Gly Gly Ala Pro Arg
1 5

<210> 1588
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-C*04:01,HLA-C*06:02,HLA-C*07:01,HLA-C*07:02,
HLA-C*16:02

<400> 1588
Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro
1 5 10

<210> 1589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*24:02,HLA-A*68:02,
HLA-B*13:02,HLA-B*55:01

<400> 1589
Ser Ile Ser Ser Cys Leu Gln Gln Leu
1               5


<210> 1590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*35:03,
      HLA-B*39:01,HLA-B*40:01,HLA-B*55:01

<400> 1590
Ser Leu Ala Gln Asp Ala Pro Pro Leu
1               5


<210> 1591
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -A*02:01,HLA-A*02:03

<400> 1591
Ser Leu Ala Gln Asp Ala Pro Pro Leu Pro Val
1               5                   10


<210> 1592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 1592
Ser Leu Leu Met Trp Ile Thr Gln Cys
1               5


<210> 1593
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:03,HLA-B*51:01,HLA-C*03:03,
HLA-C*03:04,HLA-C*06:02,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 1593
Thr Ala Ala Asp His Arg Gln Leu
1 5

<210> 1594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:03,HLA-A*25:01,HLA-A*30:01,HLA-A*68:02,HLA-B*07:02,
HLA-B*08:01,HLA-C*07:02,HLA-C*16:01,HLA-C*16:02

<400> 1594
Thr Ala Ala Asp His Arg Gln Leu Gln Leu
1 5 10

<210> 1595
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 1595
Thr Pro Met Glu Ala Glu Leu Ala
1 5

<210> 1596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*07:06

<400> 1596
Thr Pro Met Glu Ala Glu Leu Ala Arg
1 5

<210> 1597
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*33:03,HLA-A*68:01,HLA-B*56:01,HLA-C*07:06

<400> 1597
Thr Pro Met Glu Ala Glu Leu Ala Arg Arg
1 5 10

<210> 1598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,
HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,

<220>
<223> HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:02,HLA-B*44:03,HLA-B*49:01,HLA-B*51:01,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-B*58:01,HLA-C*02:02,HLA-C*04:01,
HLA-C*06:02,HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*16:02

<400> 1598
Thr Val Ser Gly Asn Ile Leu Thr Ile
1 5

<210> 1599
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-C*07:06

<400> 1599
Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
1 5 10

<210> 1600
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*68:02

<400> 1600
Thr Val Ser Gly Asn Ile Leu Thr Ile Arg Leu
1 5 10

<210> 1601
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:01,HLA-A*02:04

<400> 1601
Val Leu Leu Lys Glu Phe Thr Val
1 5

<210> 1602
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*23:01,HLA-B*13:02,HLA-B*51:01,HLA-B*58:01

<400> 1602
Val Ser Gly Asn Ile Leu Thr Ile
1 5

<210> 1603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 1603
Val Ser Gly Asn Ile Leu Thr Ile Arg
1 5

<210> 1604
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:03

<400> 1604
Tyr Leu Ala Met Pro Phe Ala Thr Pro
1 5

<210> 1605
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTAG1A/CTAG1B; ENSG00000184033;
HLA -A*02:03,HLA-C*07:01

<400> 1605
Tyr Leu Ala Met Pro Phe Ala Thr Pro Met
1 5 10

<210> 1606
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02,HLA-A*11:01,HLA-C*07:06

<400> 1606
Ala Ala Ala Glu Glu Ala Ser Thr Thr Lys
1 5 10

<210> 1607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02,HLA-A*11:01,HLA-C*05:01

<400> 1607
Ala Ala Glu Glu Ala Ser Thr Thr Lys
1 5

<210> 1608
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*08:01

<400> 1608
Ala Ala Glu Leu Lys Cys Arg Tyr
1 5

<210> 1609
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -C*03:03,HLA-C*03:04,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 1609
Ala Ala Thr Glu Ile Ser Val Leu
1 5

<210> 1610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*49:01

<400> 1610
Ala Glu Glu Ala Ser Thr Thr Lys Gly
1 5

<210> 1611
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 1611
Ala Glu Arg Thr Lys Glu Gln Leu Phe
1 5

<210> 1612
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01

<400> 1612
Ala Glu Arg Thr Ser Gly Ala Phe
1 5

<210> 1613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 1613
Ala Glu Thr Thr Gly Leu Ile Lys Leu
1 5

<210> 1614
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -C*14:02,HLA-C*16:01

<400> 1614
Ala Phe Val Thr Ser Gly Glu Leu
1 5

<210> 1615
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01

<400> 1615
Ala Ile Ser Ile Gln Gln Glu Leu
1               5


<210> 1616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*58:01

<400> 1616
Ala Ile Ser Ile Gln Gln Glu Leu Tyr
1               5


<210> 1617
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*02:01

<400> 1617
Ala Leu Glu Glu Asn Val Met Val
1               5


<210> 1618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*02:01,HLA-A*02:03

<400> 1618
Ala Leu Glu Glu Asn Val Met Val Ala
1               5


<210> 1619
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*39:01,HLA-B*46:01,HLA-C*12:03

<400> 1619
Ala Asn Phe Ile Pro Thr Val Tyr
1 5

<210> 1620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:05,HLA-C*04:01

<400> 1620
Ala Asn Phe Ile Pro Thr Val Tyr Lys
1 5

<210> 1621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:02,HLA-B*15:01,HLA-B*35:01,HLA-B*55:01

<400> 1621
Ala Pro Ser Glu Glu Ser Glu Lys Tyr
1 5

<210> 1622
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*07:02,HLA-B*35:03,HLA-B*55:01

<400> 1622
Ala Pro Ser Glu Glu Ser Glu Lys Tyr Ile Leu
1 5 10

<210> 1623
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-C*16:02

<400> 1623
Ala Ser Glu Asp Ser Lys Leu Ala Val
1 5

<210> 1624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01

<400> 1624
Ala Ser Arg Asp Thr Tyr Lys Leu
1 5

<210> 1625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*58:01,HLA-C*16:01

<400> 1625
Ala Ser Thr Thr Lys Gly Glu Gln Phe
1 5

<210> 1626
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:02,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,
HLA-C*16:01,HLA-C*16:02

<400> 1626
Ala Ser Val Glu Ala Ser Lys Leu
1 5

<210> 1627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-C*06:02

<400> 1627
Ala Ser Val Glu Ala Ser Lys Leu Lys
1 5

<210> 1628
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01

<400> 1628
Ala Thr Glu Ile Ser Val Leu Ser Glu Gln Phe
1 5 10

<210> 1629
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:03

<400> 1629
Ala Thr Lys Gly Gln Lys Glu Ala Ala Lys
1 5 10

<210> 1630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:04

<400> 1630
Ala Val Phe His Glu Arg Tyr Ala Leu
1 5

<210> 1631
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*29:02

<400> 1631
Ala Tyr Ser Ala Ala Glu Leu Lys Cys Arg Tyr
1 5 10

<210> 1632
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*49:01

<400> 1632
Cys Glu Met Leu Leu Asn Thr Met
1 5

<210> 1633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 1633
Cys Ser Ala Val Phe His Glu Arg Tyr
1 5

<210> 1634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*58:01,HLA-C*12:03,HLA-C*16:01,HLA-C*16:04

<400> 1634
Cys Ser Tyr Ala Ser Arg Asp Thr Tyr
1               5


<210> 1635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*03:01

<400> 1635
Cys Ser Tyr Ala Ser Arg Asp Thr Tyr Lys
1               5                   10


<210> 1636
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*30:02

<400> 1636
Cys Val Ala Ile Ser Ile Gln Gln Glu Leu Tyr
1               5                   10


<210> 1637
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*18:01,HLA-B*51:01,HLA-B*54:01

<400> 1637
Asp Ala Asn Phe Ile Pro Thr Val
1               5


<210> 1638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;

HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,

<220>
<223> HLA-B*54:01,HLA-B*55:01,HLA-C*02:02,HLA-C*03:03,HLA-C*07:01,
HLA-C*07:06,HLA-C*12:03,HLA-C*16:04

<400> 1638
Asp Ala Asn Phe Ile Pro Thr Val Tyr
1 5

<210> 1639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:02

<400> 1639
Asp Ala Asn Phe Ile Pro Thr Val Tyr Lys
1 5 10

<210> 1640
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01

<400> 1640
Asp Glu Ala Ala Ala Glu Glu Ala
1 5

<210> 1641
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01

<400> 1641
Asp Glu Gly Val Thr Cys Glu Met
1 5

<210> 1642
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01

<400> 1642
Asp Glu Ile Val Leu Thr Val Ser
1 5

<210> 1643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01

<400> 1643
Asp Glu Ile Val Leu Thr Val Ser Asn
1 5

<210> 1644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01,HLA-B*40:01,HLA-B*40:02

<400> 1644
Asp Glu Arg Ser Asp Glu Ile Val Leu
1 5

<210> 1645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:01,HLA-B*08:01,HLA-B*18:01,HLA-B*40:02,HLA-B*51:01

<400> 1645

Asp Ser Lys Leu Ala Val Ser Leu
1               5


<210> 1646
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*33:01

<400> 1646
Asp Thr Tyr Lys Leu Lys Arg His Met Arg
1               5                   10


<210> 1647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1647
Asp Val Cys Met Phe Thr Ser Ser Arg
1               5


<210> 1648
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 1648
Glu Ala Ala Ala Glu Glu Ala Ser Thr Thr Lys
1               5                   10


<210> 1649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*33:03

<400> 1649
Glu Ala Lys Ser Ala Ala Ser Gly Lys
1               5


<210> 1650
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1650
Glu Ala Lys Ser Ala Ala Ser Gly Lys Gly Arg
1               5                   10


<210> 1651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*25:01

<400> 1651
Glu Ala Ser Thr Thr Lys Gly Glu Gln Phe
1               5                   10


<210> 1652
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*25:01,HLA-A*68:01,HLA-A*68:02,HLA-B*35:01,HLA-B*35:03

<400> 1652
Glu Ala Val Glu Leu Gln Asp Met Ser Leu
1               5                   10


<210> 1653
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 1653
Glu Ala Val Glu Leu Gln Asp Met Ser Leu Leu
1 5 10

<210> 1654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-A*68:02,HLA-B*18:01,HLA-B*27:05,HLA-B*37:01,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03

<400> 1654
Glu Asp Ser Lys Leu Ala Val Ser Leu
1 5

<210> 1655
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*25:01,HLA-A*26:01,HLA-B*27:02,HLA-B*38:01,HLA-B*40:01,
HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 1655
Glu Glu Ala Ser Thr Thr Lys Gly Glu Gln Phe
1 5 10

<210> 1656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 1656
Glu Glu Glu Gln Glu Lys Asn Gln Leu
1 5

<210> 1657

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 1657
Glu Glu Glu Gln Glu Lys Asn Gln Leu Leu
1 5 10

<210> 1658
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 1658
Glu Glu Gly Pro Arg Gln Ser Leu
1 5

<210> 1659
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 1659
Glu Glu Gln Glu Lys Asn Gln Leu Leu
1 5

<210> 1660
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01,HLA-B*37:01

<400> 1660
Glu Glu Ser Glu Lys Tyr Ile Leu
1 5

<210> 1661
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 1661
Glu Glu Ser Glu Lys Tyr Ile Leu Thr Leu
1 5 10

<210> 1662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*39:01,HLA-B*40:01,HLA-B*49:01

<400> 1662
Glu Glu Val Asp Glu Gly Val Thr Cys
1 5

<210> 1663
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*26:01,HLA-A*30:01,HLA-B*40:01,HLA-B*44:03

<400> 1663
Glu Glu Val Asp Glu Gly Val Thr Cys Glu Met
1 5 10

<210> 1664
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01

<400> 1664

Glu Glu Val Glu Leu Val Leu Ala
1               5


<210> 1665
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*18:01

<400> 1665
Glu Glu Val Glu Leu Val Leu Ala Pro
1               5


<210> 1666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*25:01,HLA-A*26:01,HLA-B*44:02

<400> 1666
Glu Ile Ser Val Leu Ser Glu Gln Phe
1               5


<210> 1667
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*68:01,HLA-B*27:02

<400> 1667
Glu Ile Ser Val Leu Ser Glu Gln Phe Thr Lys
1               5                   10


<210> 1668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*33:01,HLA-A*33:03

<400> 1668
Glu Lys Asn Gln Leu Leu Ala Glu Arg
1               5


<210> 1669
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*08:01

<400> 1669
Glu Leu Met Pro Glu Lys Gly Leu
1               5


<210> 1670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*33:03

<400> 1670
Glu Leu Met Pro Glu Lys Gly Leu Lys
1               5


<210> 1671
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*25:01

<400> 1671
Glu Leu Gln Asp Met Ser Leu Leu Ser Ile
1               5                   10


<210> 1672
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*08:01

<400> 1672
Glu Leu Tyr Ser Pro Gln Glu Met
1 5

<210> 1673
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 1673
Glu Leu Tyr Ser Pro Gln Glu Met Glu Val
1 5 10

<210> 1674
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:03

<400> 1674
Glu Met Phe Pro Val Ala Cys Arg
1 5

<210> 1675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01

<400> 1675
Glu Met Leu Leu Asn Thr Met Asp Lys
1 5

<210> 1676
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:03,HLA-A*26:01,HLA-A*68:02

<400> 1676
Glu Gln Phe Pro Gly Glu Met Phe Pro Val
1 5 10

<210> 1677
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*68:02

<400> 1677
Glu Gln Phe Pro Gly Glu Met Phe Pro Val Ala
1 5 10

<210> 1678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*08:01

<400> 1678
Glu Gln Phe Thr Lys Ile Lys Glu Leu
1 5

<210> 1679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*68:02,HLA-B*13:02,HLA-B*18:01,HLA-B*38:01,HLA-B*39:01

<400> 1679
Glu Gln Leu Phe Phe Val Glu Thr Met
1 5

<210> 1680
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*68:02

<400> 1680
Glu Arg Ser Asp Glu Ile Val Leu Thr Val
1 5 10

<210> 1681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01

<400> 1681
Glu Ser Glu Lys Tyr Ile Leu Thr Leu
1 5

<210> 1682
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:03

<400> 1682
Glu Thr Met Ser Gly Asp Glu Arg
1 5

<210> 1683
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*68:02

<400> 1683
Glu Thr Thr Gly Leu Ile Lys Leu
1 5

<210> 1684
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -C*05:01

<400> 1684
Glu Val Asp Glu Gly Val Thr Cys
1 5

<210> 1685
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*25:01,HLA-A*26:01,HLA-B*35:01,HLA-B*35:03

<400> 1685
Glu Val Asp Glu Gly Val Thr Cys Glu Met
1 5 10

<210> 1686
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*08:01

<400> 1686
Glu Val Leu Gln Phe His Ala Leu
1 5

<210> 1687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*35:03,HLA-B*38:01,HLA-B*39:01

<400> 1687
Phe His Ala Leu Glu Glu Asn Val Met
1 5

<210> 1688
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*38:01

<400> 1688
Phe His Ala Leu Glu Glu Asn Val Met Val
1 5 10

<210> 1689
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*54:01

<400> 1689
Phe Pro Gly Glu Met Phe Pro Val
1 5

<210> 1690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 1690
Phe Pro Gly Glu Met Phe Pro Val Ala
1 5

<210> 1691
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*35:03,HLA-B*54:01,HLA-B*56:01

<400> 1691
Phe Pro Gly Glu Met Phe Pro Val Ala Cys
1 5 10

<210> 1692
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*54:01

<400> 1692
Phe Pro Val Ala Cys Arg Glu Thr Thr Ala
1 5 10

<210> 1693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*08:01

<400> 1693
Phe Thr Lys Ile Lys Glu Leu Glu Leu
1 5

<210> 1694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*25:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,
HLA-C*16:02

<400> 1694
Phe Thr Gln Ser Gly Thr Met Lys Ile
1 5

<210> 1695
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*27:05,HLA-B*35:03,HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,
HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,
HLA-C*07:04,HLA-C*12:03,HLA-C*14:02

<400> 1695
Phe Thr Ser Glu Ala Val Glu Leu
1 5

<210> 1696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*08:01,
HLA-B*37:01,HLA-B*46:01,HLA-B*57:01,HLA-C*02:02,HLA-C*03:04,
HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 1696
Phe Thr Ser Ser Arg Met Ser Ser Phe
1 5

<210> 1697
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*27:05

<400> 1697
Phe Val Glu Thr Met Ser Gly Asp Glu Arg
1 5 10

<210> 1698
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*39:01

<400> 1698
Phe Val Thr Ser Gly Glu Leu Val
1 5

<210> 1699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 1699
Phe Val Thr Ser Gly Glu Leu Val Arg
1 5

<210> 1700
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:01

<400> 1700
Gly Asp Glu Arg Ser Asp Glu Ile Val Leu
1 5 10

<210> 1701
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 1701
Gly Glu Lys Pro Phe Thr Cys Leu
1 5

<210> 1702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:02,HLA-B*49:01

<400> 1702
Gly Glu Lys Pro Tyr Glu Cys His Ile
1 5

<210> 1703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01

<400> 1703
Gly Glu Asn Val Pro Lys Tyr Gln Cys
1 5

<210> 1704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*44:02,HLA-B*44:03

<400> 1704
Gly Glu Gln Phe Pro Gly Glu Met Phe
1 5

<210> 1705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*07:02,HLA-B*56:01

<400> 1705
Gly Pro Arg Gln Ser Leu Gln Gln Cys
1 5

<210> 1706
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*07:02

<400> 1706

Gly Pro Arg Gln Ser Leu Gln Gln Cys Val
1 5 10

<210> 1707
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*56:01

<400> 1707
Gly Pro Arg Gln Ser Leu Gln Gln Cys Val Ala
1 5 10

<210> 1708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*32:01

<400> 1708
Gly Gln Lys Glu Ala Ala Lys Gly Trp
1 5

<210> 1709
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 1709
Gly Thr Met Lys Ile His Ile Leu Gln Lys
1 5 10

<210> 1710
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 1710
His Ala Leu Glu Glu Asn Val Met
1               5


<210> 1711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*02:01,HLA-A*68:02,HLA-B*13:02,HLA-B*35:03,HLA-B*38:01,
      HLA-B*39:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-C*03:03,
      HLA-C*05:01,HLA-C*12:03

<400> 1711
His Ala Leu Glu Glu Asn Val Met Val
1               5


<210> 1712
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*54:01,HLA-B*56:01

<400> 1712
His Ala Leu Glu Glu Asn Val Met Val Ala
1               5                   10


<210> 1713
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*23:01,HLA-A*30:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,
      HLA-B*13:02,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,
      HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,

<220>
<223> HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-B*58:01,HLA-C*01:02,
      HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:02,
      HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,
      HLA-C*16:04

<400> 1713

His Ala Tyr Ser Ala Ala Glu Leu
1 5

<210> 1714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-B*57:01,HLA-C*07:06

<400> 1714
His Ala Tyr Ser Ala Ala Glu Leu Lys
1 5

<210> 1715
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*51:01,HLA-B*54:01

<400> 1715
His Ala Tyr Ser Ala Ala Glu Leu Lys Cys
1 5 10

<210> 1716
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:01,HLA-A*33:03

<400> 1716
His Ala Tyr Ser Ala Ala Glu Leu Lys Cys Arg
1 5 10

<210> 1717
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;

HLA -A*68:01

<400> 1717
His Cys Ala Thr Ile Ile Ala Arg
1 5

<210> 1718
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02

<400> 1718
His Cys Ala Thr Ile Ile Ala Arg Lys
1 5

<210> 1719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*30:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*49:01,HLA-B*51:01

<400> 1719
His Asp Ala Asn Phe Ile Pro Thr Val
1 5

<210> 1720
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:02,HLA-B*35:01,HLA-B*44:03,HLA-C*07:01

<400> 1720
His Asp Ala Asn Phe Ile Pro Thr Val Tyr
1 5 10

<210> 1721
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*24:02,HLA-B*35:03,HLA-C*14:02

<400> 1721
His Phe Thr Ser Glu Ala Val Glu Leu
1 5

<210> 1722
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*18:01,HLA-B*39:01

<400> 1722
His Gly Glu Asn Val Pro Lys Tyr
1 5

<210> 1723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01

<400> 1723
His Met Lys Thr His Thr Ser Glu Lys
1 5

<210> 1724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 1724
His Val Asn Thr His Thr Gly Thr Arg
1 5

<210> 1725

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02

<400> 1725
Ile Leu Gln Lys His Gly Glu Asn Val Pro Lys
1 5 10

<210> 1726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*24:02

<400> 1726
Ile Leu Thr Leu Gln Thr Val His Phe
1 5

<210> 1727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*13:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 1727
Ile Gln Gln Gln Glu Gly Val Gln Val
1 5

<210> 1728
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*13:02

<400> 1728
Ile Gln Gln Gln Glu Gly Val Gln Val Val
1 5 10

<210> 1729
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*13:02

<400> 1729
Ile Gln Gln Gln Glu Gly Val Gln Val Val Val
1 5 10

<210> 1730
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*15:01,HLA-B*58:01

<400> 1730
Ile Ser Ile Gln Gln Glu Leu Tyr
1 5

<210> 1731
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*58:01

<400> 1731
Ile Ser Val Leu Ser Glu Gln Phe
1 5

<210> 1732
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*11:01

<400> 1732
Ile Ser Val Leu Ser Glu Gln Phe Thr Lys

1 5 10

<210> 1733
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:01

<400> 1733
Lys Glu Ala Ala Asn Gly Asp Glu Ala Ala
1 5 10

<210> 1734
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:01

<400> 1734
Lys Glu Ala Ala Asn Gly Asp Glu Ala Ala Ala
1 5 10

<210> 1735
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:01

<400> 1735
Lys Glu Glu Val Asp Glu Gly Val Thr Cys
1 5 10

<210> 1736
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 1736
Lys Glu Gln Leu Phe Phe Val Glu Thr Met
1               5                   10


<210> 1737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*31:01

<400> 1737
Lys Gly Phe Ser Arg Trp Ile Asn Leu
1               5


<210> 1738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*03:01,HLA-A*30:02,HLA-B*39:01,HLA-B*58:01

<400> 1738
Lys His Gly Glu Asn Val Pro Lys Tyr
1               5


<210> 1739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*31:01

<400> 1739
Lys Gln Leu Leu Asn Ala His Phe Arg
1               5


<210> 1740
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;

HLA -B*40:02,HLA-B*57:01,HLA-B*58:01

<400> 1740
Lys Thr Phe Arg Thr Val Thr Leu
1 5

<210> 1741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:04,HLA-A*03:01,HLA-A*31:01,HLA-A*68:02,HLA-B*57:01,
HLA-B*58:01

<400> 1741
Lys Thr Phe Arg Thr Val Thr Leu Leu
1 5

<210> 1742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01,HLA-A*31:01,HLA-B*57:01

<400> 1742
Lys Thr Phe Arg Thr Val Thr Leu Leu Arg
1 5 10

<210> 1743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*32:01

<400> 1743
Lys Thr Lys Gly Ala Lys Gly Thr Phe
1 5

<210> 1744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*24:02,HLA-B*15:03,HLA-B*27:05,HLA-B*40:01,
HLA-C*06:02

<400> 1744
Lys Tyr Ala Ser Val Glu Ala Ser Lys Leu
1 5 10

<210> 1745
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*31:01,HLA-C*06:02

<400> 1745
Lys Tyr Ala Ser Val Glu Ala Ser Lys Leu Lys
1 5 10

<210> 1746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*24:02

<400> 1746
Lys Tyr Ile Leu Thr Leu Gln Thr Val
1 5

<210> 1747
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*24:02

<400> 1747
Lys Tyr Ile Leu Thr Leu Gln Thr Val His Phe
1 5 10

<210> 1748

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -C*05:01

<400> 1748
Leu Ala Glu Thr Thr Gly Leu Ile
1 5

<210> 1749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01

<400> 1749
Leu Ala Glu Thr Thr Gly Leu Ile Lys
1 5

<210> 1750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*18:01

<400> 1750
Leu Glu Ala Glu Arg Thr Ser Gly Ala Phe
1 5 10

<210> 1751
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01

<400> 1751
Leu Glu Glu Glu Gln Glu Lys Asn Gln Leu
1 5 10

<210> 1752
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*40:01

<400> 1752
Leu Glu Glu Glu Gln Glu Lys Asn Gln Leu Leu
1 5 10

<210> 1753
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*49:01

<400> 1753
Leu Glu Glu Glu Val Glu Leu Val
1 5

<210> 1754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*49:01

<400> 1754
Leu Glu Glu Glu Val Glu Leu Val Leu
1 5

<210> 1755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 1755

Leu Glu Glu Gly Pro Arg Gln Ser Leu
1               5


<210> 1756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*18:01,HLA-B*49:01

<400> 1756
Leu Glu Glu Asn Val Met Val Ala
1               5


<210> 1757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*44:02,HLA-B*44:03

<400> 1757
Leu Glu Leu Met Pro Glu Lys Gly Leu
1               5


<210> 1758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*38:01,HLA-B*39:01

<400> 1758
Leu His Ala Tyr Ser Ala Ala Glu Leu
1               5


<210> 1759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*29:02

<400> 1759
Leu Leu Asn Ala His Phe Arg Lys Tyr
1               5


<210> 1760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*13:02,HLA-B*38:01

<400> 1760
Leu Gln Asp Met Ser Leu Leu Ser Ile
1               5


<210> 1761
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*13:02

<400> 1761
Leu Gln Gln Cys Val Ala Ile Ser Ile
1               5


<210> 1762
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*23:01

<400> 1762
Leu Thr Leu Gln Thr Val His Phe
1               5


<210> 1763
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02

<400> 1763
Leu Val Leu Ala Pro Ser Glu Glu Ser Glu Lys
1 5 10

<210> 1764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*24:02

<400> 1764
Leu Tyr Ser Pro Gln Glu Met Glu Val
1 5

<210> 1765
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*35:01,HLA-B*35:03,HLA-C*03:03,HLA-C*03:04

<400> 1765
Met Ala Ala Thr Glu Ile Ser Val Leu
1 5

<210> 1766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*07:02,HLA-B*15:03,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*40:01,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*16:04

<400> 1766
Met Ala Phe Val Thr Ser Gly Glu Leu
1 5

<210> 1767
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*54:01,HLA-C*07:06

<400> 1767
Met Ala Phe Val Thr Ser Gly Glu Leu Val Arg
1 5 10

<210> 1768
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*54:01

<400> 1768
Met Cys Lys Tyr Ala Ser Val Glu Ala
1 5

<210> 1769
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1769
Met Glu Val Leu Gln Phe His Ala Leu
1 5

<210> 1770
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*24:02

<400> 1770
Met Phe Thr Ser Ser Arg Met Ser Ser Phe
1 5 10

<210> 1771
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -C*07:01

<400> 1771
Met Leu Leu Asn Thr Met Asp Lys
1 5

<210> 1772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01

<400> 1772
Met Val Ala Ser Glu Asp Ser Lys Leu
1 5

<210> 1773
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*26:01,HLA-A*68:02

<400> 1773
Met Val Ala Ser Glu Asp Ser Lys Leu Ala Val
1 5 10

<210> 1774
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02

<400> 1774
Asn Leu His Ala Tyr Ser Ala Ala Glu Leu Lys

1 5 10

<210> 1775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:02,HLA-C*16:01

<400> 1775
Asn Thr His Thr Gly Thr Arg Pro Tyr
1 5

<210> 1776
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*27:05

<400> 1776
Asn Val Met Val Ala Ser Glu Asp Ser Lys Leu
1 5 10

<210> 1777
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*68:01,HLA-B*27:02

<400> 1777
Pro Thr Ala Gly Gln Ala Asp Ala Glu Lys
1 5 10

<210> 1778
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*30:02

<400> 1778
Gln Cys Ser Tyr Ala Ser Arg Asp Thr Tyr
1               5                   10


<210> 1779
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 1779
Gln Glu Gly Val Gln Val Val Val
1               5


<210> 1780
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*33:03

<400> 1780
Gln Glu Lys Asn Gln Leu Leu Ala Glu Arg
1               5                   10


<210> 1781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,
      HLA-B*44:03,HLA-B*49:01

<400> 1781
Gln Glu Leu Tyr Ser Pro Gln Glu Met
1               5


<210> 1782
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 1782
Gln Glu Met Glu Val Leu Gln Phe
1 5

<210> 1783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*44:02

<400> 1783
Gln Glu Met Glu Val Leu Gln Phe His
1 5

<210> 1784
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1784
Gln Glu Met Glu Val Leu Gln Phe His Ala Leu
1 5 10

<210> 1785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*56:01

<400> 1785
Gln Pro Thr Ala Gly Gln Ala Asp Ala
1 5

<210> 1786
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*13:02

<400> 1786
Gln Gln Cys Val Ala Ile Ser Ile
1 5

<210> 1787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01,
HLA-C*05:01

<400> 1787
Gln Gln Glu Gly Val Gln Val Val Val
1 5

<210> 1788
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*39:01

<400> 1788
Gln Gln Glu Leu Tyr Ser Pro Gln Glu Met
1 5 10

<210> 1789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*13:02

<400> 1789
Gln Gln Gln Glu Gly Val Gln Val
1 5

<210> 1790

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*15:01,HLA-B*27:05,
HLA-B*38:01,HLA-B*39:01

<400> 1790
Gln Gln Gln Glu Gly Val Gln Val Val
1 5

<210> 1791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*13:02,HLA-B*38:01,HLA-B*39:01

<400> 1791
Gln Gln Gln Glu Gly Val Gln Val Val Val
1 5 10

<210> 1792
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:03,HLA-A*68:01

<400> 1792
Gln Thr Ile Leu Lys Glu Ala Thr Lys
1 5

<210> 1793
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*68:02

<400> 1793
Gln Thr Val His Phe Thr Ser Glu Ala Val
1 5 10

<210> 1794
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*31:01

<400> 1794
Arg Gln Lys Gln Leu Leu Asn Ala His Phe Arg
1 5 10

<210> 1795
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*02:07,HLA-B*13:02,HLA-C*05:01

<400> 1795
Arg Ser Asp Glu Ile Val Leu Thr Val
1 5

<210> 1796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*57:01

<400> 1796
Arg Ser His Thr Gly Glu Arg Pro Phe
1 5

<210> 1797
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*58:01

<400> 1797

Arg Val Lys Glu Glu Val Asp Glu Gly Val
1               5                   10


<210> 1798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*24:02,HLA-A*31:01

<400> 1798
Arg Tyr Ala Leu Ile Gln His Gln Lys
1               5


<210> 1799
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*31:01

<400> 1799
Arg Tyr Cys Ser Ala Val Phe His Glu Arg
1               5                   10


<210> 1800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-C*02:02,
      HLA-C*16:01,HLA-C*16:02

<400> 1800
Ser Ala Ala Glu Leu Lys Cys Arg Tyr
1               5


<210> 1801
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;

HLA -B*08:01,HLA-C*07:01,HLA-C*12:03,HLA-C*16:01

<400> 1801
Ser Ala Val Phe His Glu Arg Tyr
1 5

<210> 1802
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01

<400> 1802
Ser Asp Glu Ile Val Leu Thr Val
1 5

<210> 1803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1803
Ser Glu Ala Val Glu Leu Gln Asp Met
1 5

<210> 1804
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01

<400> 1804
Ser Glu Ala Val Glu Leu Gln Asp Met Ser Leu
1 5 10

<210> 1805
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01,HLA-B*49:01

<400> 1805
Ser Glu Asp Ser Lys Leu Ala Val
1 5

<210> 1806
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1806
Ser Glu Asp Ser Lys Leu Ala Val Ser Leu
1 5 10

<210> 1807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 1807
Ser Glu Glu Ser Glu Lys Tyr Ile Leu
1 5

<210> 1808
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*40:01

<400> 1808
Ser Glu Glu Ser Glu Lys Tyr Ile Leu Thr Leu
1 5 10

<210> 1809
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*37:01,HLA-B*40:02

<400> 1809
Ser Glu Lys Pro His Leu Cys His Leu
1 5

<210> 1810
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:02

<400> 1810
Ser Glu Lys Tyr Ile Leu Thr Leu
1 5

<210> 1811
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*44:02,HLA-B*44:03

<400> 1811
Ser Glu Gln Phe Thr Lys Ile Lys Glu Leu
1 5 10

<210> 1812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*35:03

<400> 1812
Ser Gly Ala Phe Gln Asp Ser Val Leu
1 5

<210> 1813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -C*16:02

<400> 1813
Ser Gly Thr Met Lys Ile His Ile Leu
1 5

<210> 1814
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:03

<400> 1814
Ser Leu Ala Glu Thr Thr Gly Leu
1 5

<210> 1815
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 1815
Ser Leu Ala Glu Thr Thr Gly Leu Ile
1 5

<210> 1816
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 1816
Ser Leu Ala Glu Thr Thr Gly Leu Ile Lys
1 5 10

<210> 1817
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-B*55:01

<400> 1817
Ser Leu Ala Glu Thr Thr Gly Leu Ile Lys Leu
1 5 10

<210> 1818
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 1818
Ser Leu Leu Ser Ile Gln Gln Gln Glu Gly Val
1 5 10

<210> 1819
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*07:02,HLA-B*35:03

<400> 1819
Ser Pro Gln Glu Met Glu Val Leu
1 5

<210> 1820
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*35:01

<400> 1820
Ser Pro Gln Glu Met Glu Val Leu Gln Phe
1               5                   10


<210> 1821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*68:01,HLA-C*07:06

<400> 1821
Ser Pro Ser Glu Leu Glu Ala Glu Arg
1               5


<210> 1822
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*27:05

<400> 1822
Ser Arg Met Ser Ser Phe Asn Arg
1               5


<210> 1823
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 1823
Ser Ser Arg Met Ser Ser Phe Asn Arg
1               5


<210> 1824
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;

HLA -A*03:02

<400> 1824
Ser Val Glu Ala Ser Lys Leu Lys
1 5

<210> 1825
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:07,HLA-B*15:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*40:01,HLA-B*55:01

<400> 1825
Ser Val Leu Glu Glu Glu Val Glu Leu
1 5

<210> 1826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-C*07:06

<400> 1826
Ser Val Leu Ser Glu Gln Phe Thr Lys
1 5

<210> 1827
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:04,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 1827
Ser Val Leu Ser Glu Gln Phe Thr Lys Ile
1 5 10

<210> 1828
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*11:01

<400> 1828
Ser Val Leu Ser Glu Gln Phe Thr Lys Ile Lys
1 5 10

<210> 1829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:02,HLA-A*32:01,HLA-C*14:02,HLA-C*16:01

<400> 1829
Ser Tyr Ala Ser Arg Asp Thr Tyr
1 5

<210> 1830
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*24:02

<400> 1830
Ser Tyr Ala Ser Arg Asp Thr Tyr Lys Leu
1 5 10

<210> 1831
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*08:01

<400> 1831
Thr Ala Arg Val Lys Glu Glu Val
1 5

<210> 1832
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*38:01,HLA-B*40:01,
HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 1832
Thr Glu Ile Ser Val Leu Ser Glu Gln Phe
1 5 10

<210> 1833
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01

<400> 1833
Thr Phe Arg Thr Val Thr Leu Leu
1 5

<210> 1834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*31:01,HLA-A*33:03

<400> 1834
Thr Phe Arg Thr Val Thr Leu Leu Arg
1 5

<210> 1835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*38:01,HLA-B*39:01

<400> 1835
Thr His Thr Ser Glu Lys Pro His Leu
1 5

<210> 1836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*08:01

<400> 1836
Thr Ile Ile Ala Arg Lys Ser Asp Leu
1 5

<210> 1837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:01

<400> 1837
Thr Met Lys Ile His Ile Leu Gln Lys
1 5

<210> 1838
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*13:02,HLA-B*38:01,HLA-C*06:02

<400> 1838
Thr Gln Ser Gly Thr Met Lys Ile
1 5

<210> 1839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*13:02,HLA-B*38:01

<400> 1839
Thr Gln Ser Gly Thr Met Lys Ile His Ile

1 5 10

<210> 1840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*27:05,HLA-B*39:01,HLA-C*06:02

<400> 1840
Thr Arg Phe Thr Gln Ser Gly Thr Met
1 5

<210> 1841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*27:05

<400> 1841
Thr Arg Phe Thr Gln Ser Gly Thr Met Lys
1 5 10

<210> 1842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1842
Thr Ser Gly Glu Leu Val Arg His Arg
1 5

<210> 1843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*68:02

<400> 1843
Thr Thr Ala Arg Val Lys Glu Glu Val
1               5


<210> 1844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,
      HLA-A*68:02,HLA-B*07:02,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
      HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,

<220>
<223> HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*51:01,HLA-B*58:01,
      HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,
      HLA-C*07:02,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
      HLA-C*16:02,HLA-C*16:04

<400> 1844
Val Ala Ile Ser Ile Gln Gln Glu Leu
1               5


<210> 1845
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,
      HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:04

<400> 1845
Val Ala Ile Ser Ile Gln Gln Glu Leu Tyr
1               5                   10


<210> 1846
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -C*03:04,HLA-C*05:01

<400> 1846
Val Ala Ser Glu Asp Ser Lys Leu

1 5

<210> 1847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*37:01

<400> 1847
Val Asp Glu Gly Val Thr Cys Glu Met
1 5

<210> 1848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 1848
Val Glu Leu Gln Asp Met Ser Leu Leu
1 5

<210> 1849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*24:02

<400> 1849
Val Phe His Glu Arg Tyr Ala Leu Ile
1 5

<210> 1850
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*39:01

<400> 1850
Val His Phe Thr Ser Glu Ala Val
1               5


<210> 1851
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 1851
Val His Phe Thr Ser Glu Ala Val Glu Leu
1               5                   10


<210> 1852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*29:02,HLA-A*30:02

<400> 1852
Val His Met Arg Asn Leu His Ala Tyr
1               5


<210> 1853
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
      HLA -A*03:02,HLA-B*27:02

<400> 1853
Val Leu Ala Pro Ser Glu Glu Ser Glu Lys
1               5                   10


<210> 1854
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;

HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-B*55:01,
HLA-B*58:01,HLA-C*16:04

<400> 1854
Val Leu Ala Pro Ser Glu Glu Ser Glu Lys Tyr
1 5 10

<210> 1855
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -C*05:01

<400> 1855
Val Leu Glu Glu Glu Val Glu Leu
1 5

<210> 1856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:07

<400> 1856
Val Leu Glu Glu Glu Val Glu Leu Val
1 5

<210> 1857
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*03:02,HLA-A*11:01

<400> 1857
Val Leu Ser Glu Gln Phe Thr Lys
1 5

<210> 1858
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*49:01,
HLA-B*55:01

<400> 1858
Val Leu Ser Glu Gln Phe Thr Lys Ile
1 5

<210> 1859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-A*02:03

<400> 1859
Val Leu Thr Val Ser Asn Ser Asn Val
1 5

<210> 1860
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*15:01

<400> 1860
Val Gln Gln Pro Gly Pro Gly Leu Leu
1 5

<210> 1861
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*25:01,HLA-A*32:01,HLA-B*58:01

<400> 1861
Val Gln Gln Pro Gly Pro Gly Leu Leu Trp
1 5 10

<210> 1862
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*11:01

<400> 1862
Val Ser Leu Ala Glu Thr Thr Gly Leu Ile Lys
1 5 10

<210> 1863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*11:01

<400> 1863
Val Thr Ser Gly Glu Leu Val Arg His
1 5

<210> 1864
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 1864
Val Thr Ser Gly Glu Leu Val Arg His Arg
1 5 10

<210> 1865
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*57:01

<400> 1865
Val Val Gln Gln Pro Gly Pro Gly Leu Leu Trp

1 5 10

<210> 1866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:04,HLA-A*24:02,HLA-A*68:02,HLA-B*27:05,HLA-B*35:03,
HLA-B*38:01,HLA-B*40:01,HLA-C*02:02

<400> 1866
Tyr Ala Ser Arg Asp Thr Tyr Lys Leu
1 5

<210> 1867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-B*07:02,HLA-B*13:02,
HLA-B*15:03,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,

<220>
<223> HLA-B*55:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*05:01,HLA-C*06:02,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 1867
Tyr Ala Ser Val Glu Ala Ser Lys Leu
1 5

<210> 1868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*27:02

<400> 1868
Tyr Ala Ser Val Glu Ala Ser Lys Leu Lys
1 5 10

<210> 1869

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1869
Tyr Cys Ser Ala Val Phe His Glu Arg
1 5

<210> 1870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*29:02

<400> 1870
Tyr Cys Ser Ala Val Phe His Glu Arg Tyr
1 5 10

<210> 1871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*38:01

<400> 1871
Tyr His Asp Ala Asn Phe Ile Pro Thr Val
1 5 10

<210> 1872
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*02:01,HLA-B*13:02,HLA-B*51:01

<400> 1872
Tyr Ile Leu Thr Leu Gln Thr Val
1 5

<210> 1873
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*23:01,HLA-A*24:02

<400> 1873
Tyr Ile Leu Thr Leu Gln Thr Val His Phe
1 5 10

<210> 1874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*33:01

<400> 1874
Tyr Ser Ala Ala Glu Leu Lys Cys Arg
1 5

<210> 1875
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -A*01:01,HLA-A*29:02

<400> 1875
Tyr Ser Ala Ala Glu Leu Lys Cys Arg Tyr
1 5 10

<210> 1876
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; CTCFL; ENSG00000124092;
HLA -B*51:01

<400> 1876
Tyr Ser Pro Gln Glu Met Glu Val

1 5

<210> 1877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -C*03:04

<400> 1877
Ala Ala Ala Asp Gly Glu Gly Pro Leu
1 5

<210> 1878
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*40:01,HLA-C*03:04

<400> 1878
Ala Ala Ala Asp Gly Glu Gly Pro Leu Leu
1 5 10

<210> 1879
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01

<400> 1879
Ala Ala Ala Asp Gly Glu Gly Pro Leu Leu Leu
1 5 10

<210> 1880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:07,HLA-A*32:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-C*03:04,HLA-C*05:01

<400> 1880
Ala Ala Asp Gly Glu Gly Pro Leu Leu
1               5


<210> 1881
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*01:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
      HLA-C*04:01,HLA-C*05:01

<400> 1881
Ala Ala Asp Gly Glu Gly Pro Leu Leu Leu
1               5                   10


<210> 1882
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 1882
Ala Ala Asp Gly Glu Gly Pro Leu Leu Leu Lys
1               5                   10


<210> 1883
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*30:01

<400> 1883
Ala Asp Ala Glu Ser Ser Pro Ser Gln Gly Leu
1               5                   10


<210> 1884
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*37:01,HLA-B*40:01

<400> 1884
Ala Asp Gly Glu Gly Pro Leu Leu
1 5

<210> 1885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*37:01,HLA-B*44:02

<400> 1885
Ala Asp Gly Glu Gly Pro Leu Leu Leu
1 5

<210> 1886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*03:01,HLA-A*11:01,HLA-B*27:02

<400> 1886
Ala Asp Gly Glu Gly Pro Leu Leu Leu Lys
1 5 10

<210> 1887
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 1887
Ala Glu Ser Ser Pro Ser Gln Gly Leu
1 5

<210> 1888

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 1888
Ala Glu Ser Ser Pro Ser Gln Gly Leu Ala Ala
1 5 10

<210> 1889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*32:01

<400> 1889
Ala Gly Gly Pro Leu Pro Ala Gly Leu
1 5

<210> 1890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -C*06:02,HLA-C*16:01,HLA-C*16:02

<400> 1890
Ala Gly Ser Ala Leu Ser Arg Leu Leu
1 5

<210> 1891
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 1891
Ala Ile Ile Asn Pro Ser Asn Arg
1 5

<210> 1892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 1892
Ala Ile Ile Asn Pro Ser Asn Arg Lys
1 5

<210> 1893
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 1893
Ala Ile Ile Asn Pro Ser Asn Arg Lys Val Arg
1 5 10

<210> 1894
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:04

<400> 1894
Ala Ile Tyr Gln Leu Pro Ser Leu
1 5

<210> 1895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*13:02,HLA-B*38:01

<400> 1895
Ala Gln Asp Gln Gln Gly Cys Gly Ile

1 5

<210> 1896
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*57:01,HLA-C*07:06

<400> 1896
Ala Thr Leu Glu Ser Ser Ser Gly Pro Ala Arg
1 5 10

<210> 1897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01,HLA-A*03:01,HLA-A*25:01,HLA-A*29:02,HLA-A*30:02

<400> 1897
Ala Thr Tyr Arg Ser Met Ala His Tyr
1 5

<210> 1898
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*03:01

<400> 1898
Ala Thr Tyr Arg Ser Met Ala His Tyr Leu
1 5 10

<210> 1899
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*32:01

<400> 1899
Ala Val Gly Ser His Ser His Val Ser Phe
1               5                   10


<210> 1900
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -B*44:02,HLA-B*57:01

<400> 1900
Ala Val Ser Leu Asp Gly Tyr Phe His Leu Trp
1               5                   10


<210> 1901
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*30:02

<400> 1901
Ala Trp His Ser Glu Val Gly Leu Pro Val Tyr
1               5                   10


<210> 1902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -C*04:01

<400> 1902
Ala Trp Leu Ser Asp Thr Val Ala Val
1               5


<210> 1903
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*18:01,HLA-B*37:01,HLA-B*40:02

<400> 1903
Asp Asp Met Ser Val Tyr Ala Val
1 5

<210> 1904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*11:01,HLA-A*33:01,HLA-A*68:01,HLA-B*27:02

<400> 1904
Asp Gly Glu Gly Pro Leu Leu Leu Lys
1 5

<210> 1905
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:01,HLA-A*68:01

<400> 1905
Asp Gly Glu Gly Pro Leu Leu Leu Lys Arg
1 5 10

<210> 1906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*08:01,HLA-B*51:01

<400> 1906
Asp Gly Glu Leu Arg Gly Tyr Ala Val
1 5

<210> 1907
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:01

<400> 1907
Asp Gly Glu Leu Arg Gly Tyr Ala Val Gln Arg
1 5 10

<210> 1908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:01

<400> 1908
Asp Leu Arg Gln Asp Gln Gln Asn Ile Arg
1 5 10

<210> 1909
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:01

<400> 1909
Asp Gln Gln Asn Ile Arg Pro Leu Cys Ser Arg
1 5 10

<210> 1910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 1910
Asp Thr Val Ala Val Ser Gly Ser Arg
1 5

<210> 1911
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01,HLA-A*68:02

<400> 1911
Asp Thr Val Ala Trp His Ser Glu Val
1 5

<210> 1912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*51:01

<400> 1912
Asp Val Glu Ala Ile Pro Arg Ala Ile
1 5

<210> 1913
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1913
Asp Val Glu Ser Gly His Ile Ala Arg
1 5

<210> 1914
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-A*26:01

<400> 1914
Asp Val Glu Ser Gly His Ile Ala Arg Ile
1 5 10

<210> 1915
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:01

<400> 1915
Asp Val Arg Ala Gln Lys Phe Leu Glu Glu Arg
1 5 10

<210> 1916
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*08:01,HLA-B*51:01

<400> 1916
Glu Ala Ile Pro Arg Ala Ile Ile
1 5

<210> 1917
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*18:01

<400> 1917
Glu Glu Arg Ala Ser Ala Thr Leu
1 5

<210> 1918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01

<400> 1918
Glu Leu Gly Ala Val Ser Leu Asp Gly Tyr
1 5 10

<210> 1919
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*23:01,HLA-A*25:01,HLA-B*44:02,HLA-B*44:03

<400> 1919
Glu Leu Gly Thr Val Asn Lys Val Phe
1 5

<210> 1920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:03,HLA-A*02:04,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*26:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,
HLA-B*37:01,HLA-C*07:04

<400> 1920
Glu Leu Asn Pro Ser Lys Thr Leu Leu
1 5

<210> 1921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1921
Glu Leu Arg Gly Tyr Ala Val Gln Arg
1 5

<210> 1922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01

<400> 1922
Glu Asn Pro Asn Ser Leu Ala Ile Tyr
1               5


<210> 1923
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*33:03

<400> 1923
Glu Ser Ser Ser Gly Pro Ala Arg
1               5


<210> 1924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*33:03,HLA-A*68:01

<400> 1924
Glu Ser Ser Ser Gly Pro Ala Arg Arg
1               5


<210> 1925
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*26:01

<400> 1925
Glu Val Phe Pro Asn Ala Leu Tyr
1               5


<210> 1926
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01

<400> 1926
Glu Val Phe Pro Asn Ala Leu Tyr Thr
1 5

<210> 1927
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 1927
Glu Val Phe Pro Asn Ala Leu Tyr Thr His
1 5 10

<210> 1928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 1928
Glu Val Gly Gly Trp Gly Pro Ala Arg
1 5

<210> 1929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:03

<400> 1929
Glu Val Gly Leu Pro Val Tyr Ala His
1 5

<210> 1930
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*68:02

<400> 1930
Glu Val Gly Leu Pro Val Tyr Ala His Ile
1 5 10

<210> 1931
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -C*07:01

<400> 1931
Phe Asp Gly Glu Leu Arg Gly Tyr
1 5

<210> 1932
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07

<400> 1932
Phe Leu Glu Glu Arg Ala Ser Ala Thr Leu
1 5 10

<210> 1933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*54:01,HLA-B*56:01

<400> 1933
Phe Pro Asn Ala Leu Tyr Thr His Cys
1 5

<210> 1934
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*35:01

<400> 1934
Phe Pro Asn Ala Leu Tyr Thr His Cys Tyr
1 5 10

<210> 1935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01

<400> 1935
Phe Arg Asp Asn Val Cys Leu Thr Tyr
1 5

<210> 1936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*54:01,HLA-B*56:01

<400> 1936
Phe Val Ala Gly Gly Pro Leu Pro Ala
1 5

<210> 1937
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*46:01,HLA-B*54:01

<400> 1937
Phe Val Ala Gly Gly Pro Leu Pro Ala Gly
1 5 10

<210> 1938
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01,HLA-A*68:02

<400> 1938
Phe Val Ala Gly Gly Pro Leu Pro Ala Gly Leu
1 5 10

<210> 1939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01

<400> 1939
Phe Val Val Asp Val Glu Ser Gly His
1 5

<210> 1940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:03,HLA-A*02:07,HLA-A*25:01,HLA-A*26:01,HLA-A*68:01,
HLA-A*68:02

<400> 1940
Phe Val Val Asp Val Glu Ser Gly His Ile
1 5 10

<210> 1941
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01,HLA-A*68:02,HLA-B*54:01

<400> 1941
Phe Val Val Asp Val Glu Ser Gly His Ile Ala

1 5 10

<210> 1942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*32:01,HLA-B*35:01,
HLA-B*35:03,HLA-C*04:01

<400> 1942
Phe Tyr Asp Val Arg Ala Gln Lys Phe
1 5

<210> 1943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*44:02,HLA-B*44:03

<400> 1943
Gly Glu Gly Pro Leu Leu Leu Lys Arg
1 5

<210> 1944
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 1944
Gly Glu Leu Arg Gly Tyr Ala Val
1 5

<210> 1945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,

HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-C*16:04

<400> 1945
Gly Glu Asn Pro Asn Ser Leu Ala Ile
1 5

<210> 1946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 1946
Gly Glu Asn Pro Asn Ser Leu Ala Ile Tyr
1 5 10

<210> 1947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02,HLA-A*30:02

<400> 1947
Gly Phe Asp Gly Glu Leu Arg Gly Tyr
1 5

<210> 1948
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01,HLA-A*30:02

<400> 1948
Gly Gly Glu Asn Pro Asn Ser Leu Ala Ile Tyr
1 5 10

<210> 1949
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:02

<400> 1949
Gly Gly Thr Gly Val Arg Ser Leu Ser Phe Tyr
1 5 10

<210> 1950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:04,HLA-A*24:02,HLA-B*38:01

<400> 1950
Gly His Ile Ala Arg Ile Pro Leu Leu
1 5

<210> 1951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:04

<400> 1951
Gly His Lys Asp Trp Ile Phe Ala Val
1 5

<210> 1952
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 1952
Gly Met Glu Val Phe Pro Asn Ala Leu Tyr
1 5 10

<210> 1953

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02,HLA-A*30:02,HLA-B*35:01

<400> 1953
Gly Pro Leu Pro Ala Gly Leu His Gly Asn Tyr
1 5 10

<210> 1954
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:02,HLA-B*15:01

<400> 1954
Gly Gln Gly Ser Leu Leu Phe Tyr
1 5

<210> 1955
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*32:01,HLA-B*58:01

<400> 1955
Gly Ser His Ser His Val Ser Phe
1 5

<210> 1956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*07:02,HLA-B*15:03,HLA-B*46:01,HLA-C*03:03

<400> 1956
Gly Ser Arg Asp Gly Thr Val Ala Leu
1 5

<210> 1957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 1957
Gly Ser Arg Asp Gly Thr Val Ala Leu Trp
1 5 10

<210> 1958
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 1958
Gly Ser Arg Asp Gly Thr Val Ala Leu Trp Arg
1 5 10

<210> 1959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 1959
Gly Thr Gly Gln Gly Ser Leu Leu Phe Tyr
1 5 10

<210> 1960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-A*32:01,HLA-B*37:01,HLA-C*16:01

<400> 1960
Gly Thr Gly Val Arg Ser Leu Ser Phe

1 5

<210> 1961
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 1961
Gly Thr Gly Val Arg Ser Leu Ser Phe Tyr Arg
1 5 10

<210> 1962
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-B*57:01

<400> 1962
Gly Thr Val Asn Lys Val Phe Ala Ser Gln Trp
1 5 10

<210> 1963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 1963
Gly Val Arg Ser Leu Ser Phe Tyr Arg
1 5

<210> 1964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*11:01,HLA-A*26:01,HLA-A*68:01,HLA-B*35:01

<400> 1964
His Ala Ile Glu Leu Asn Pro Ser Lys
1               5


<210> 1965
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -C*03:04

<400> 1965
His Ala Ile Glu Leu Asn Pro Ser Lys Thr Leu
1               5                   10


<210> 1966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*29:02,HLA-A*33:03

<400> 1966
His Ile Ala Arg Ile Pro Leu Leu Arg
1               5


<210> 1967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*26:01

<400> 1967
His Ile Ile Thr Val Gly Thr Gly Gln
1               5


<210> 1968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;

HLA -A*01:01,HLA-A*30:02,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,
HLA-B*55:01,HLA-B*58:01,HLA-C*03:03

<400> 1968
His Ser Glu Val Gly Leu Pro Val Tyr
1 5

<210> 1969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 1969
Ile Glu Leu Asn Pro Ser Lys Thr Leu
1 5

<210> 1970
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*23:01,HLA-A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 1970
Ile Glu Leu Asn Pro Ser Lys Thr Leu Leu
1 5 10

<210> 1971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 1971
Ile Pro Leu Leu Arg Asp Ser Glu Ala
1 5

<210> 1972
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*58:01

<400> 1972
Ile Thr Val Gly Thr Gly Gln Gly Ser Leu
1 5 10

<210> 1973
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*58:01

<400> 1973
Ile Thr Val Gly Thr Gly Gln Gly Ser Leu Leu
1 5 10

<210> 1974
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*23:01,HLA-A*24:02

<400> 1974
Lys Phe Leu Glu Glu Arg Ala Ser Ala Thr Leu
1 5 10

<210> 1975
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:01,HLA-A*02:03

<400> 1975
Lys Leu Phe Val Ala Gly Gly Pro Leu Pro Ala
1 5 10

<210> 1976
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 1976
Lys Val Phe Ala Ser Gln Trp Leu Asn Ser Arg
1 5 10

<210> 1977
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*57:01

<400> 1977
Lys Val Arg Glu Val Gly Gly Trp
1 5

<210> 1978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*46:01,HLA-C*03:03,HLA-C*03:04

<400> 1978
Leu Ala Ile Tyr Gln Leu Pro Ser Leu
1 5

<210> 1979
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*39:01

<400> 1979
Leu Ala Thr Gly Gly Glu Asn Pro Asn Ser Leu
1 5 10

<210> 1980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 1980
Leu Glu Glu Arg Ala Ser Ala Thr Leu
1 5

<210> 1981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*49:01

<400> 1981
Leu Glu Leu Gly Thr Val Asn Lys Val
1 5

<210> 1982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*44:02,HLA-B*44:03

<400> 1982
Leu Glu Leu Gly Thr Val Asn Lys Val Phe
1 5 10

<210> 1983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*39:01

<400> 1983

Leu Glu Ser Ser Ser Gly Pro Ala Arg
1               5


<210> 1984
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*24:02

<400> 1984
Leu Phe Tyr Asp Val Arg Ala Gln Lys Phe
1               5                   10


<210> 1985
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*01:01,HLA-A*30:02,HLA-B*46:01

<400> 1985
Leu Gly Ala Val Ser Leu Asp Gly Tyr
1               5


<210> 1986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*02:04,HLA-A*24:02

<400> 1986
Leu Leu Ser Ile Arg Leu Pro Tyr Phe
1               5


<210> 1987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*08:01,

HLA-C*16:01

<400> 1987
Leu Leu Thr Glu Arg Gln Leu Glu Leu
1 5

<210> 1988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*35:01,HLA-B*55:01

<400> 1988
Leu Pro Ala Gly Leu His Gly Asn Tyr
1 5

<210> 1989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*54:01,HLA-B*56:01

<400> 1989
Leu Pro Ala Gly Leu His Gly Asn Tyr Ala
1 5 10

<210> 1990
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*35:03

<400> 1990
Leu Pro Glu Leu Leu Thr Glu Arg Gln Leu
1 5 10

<210> 1991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 1991
Leu Pro Ser Leu Asp Pro Leu Cys Leu
1 5

<210> 1992
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*51:01

<400> 1992
Leu Pro Tyr Phe Arg Asp Asn Val
1 5

<210> 1993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*51:01,HLA-B*54:01

<400> 1993
Leu Pro Tyr Phe Arg Asp Asn Val Cys
1 5

<210> 1994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*27:05

<400> 1994
Leu Arg Gln Asp Gln Gln Asn Ile Arg
1 5

<210> 1995
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01

<400> 1995
Leu Ser Asp Thr Val Ala Val Ser Gly
1 5

<210> 1996
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*68:02

<400> 1996
Leu Ser Phe Tyr Arg His Ile Ile Thr Val
1 5 10

<210> 1997
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*57:01

<400> 1997
Leu Ser Ile Arg Leu Pro Tyr Phe
1 5

<210> 1998
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01

<400> 1998
Leu Thr Tyr Cys Asp Asp Met Ser Val Tyr
1 5 10

<210> 1999

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*33:03

<400> 1999
Met Ala Gln Gln Gln Thr Gly Ser Arg
1 5

<210> 2000
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*49:01

<400> 2000
Met Glu Val Phe Pro Asn Ala Leu
1 5

<210> 2001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 2001
Met Glu Val Phe Pro Asn Ala Leu Tyr
1 5

<210> 2002
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*37:01

<400> 2002
Asn Asp Phe Trp Val Asn Tyr Phe
1 5

<210> 2003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02

<400> 2003
Asn His Asn Asp Phe Trp Val Asn Tyr
1 5

<210> 2004
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*35:01

<400> 2004
Asn Pro Asn Ser Leu Ala Ile Tyr
1 5

<210> 2005
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*35:03

<400> 2005
Asn Pro Asn Ser Leu Ala Ile Tyr Gln Leu
1 5 10

<210> 2006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*07:02

<400> 2006
Asn Pro Ser Lys Thr Leu Leu Ala Thr

1 5

<210> 2007
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*07:02

<400> 2007
Asn Pro Ser Asn Arg Lys Val Arg Ala Leu
1 5 10

<210> 2008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 2008
Asn Gln Glu Leu Gly Ala Val Ser Leu
1 5

<210> 2009
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -C*14:02

<400> 2009
Asn Tyr Phe Gly Gly Met Glu Val
1 5

<210> 2010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 2010
Asn Tyr Phe Gly Gly Met Glu Val Phe
1               5


<210> 2011
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*29:02

<400> 2011
Pro Leu Pro Ala Gly Leu His Gly Asn Tyr
1               5                   10


<210> 2012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*31:01

<400> 2012
Pro Val Tyr Ala His Ile Arg Pro Arg
1               5


<210> 2013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -B*37:01

<400> 2013
Gln Asp Gln Gln Asn Ile Arg Pro Leu
1               5


<210> 2014
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;

HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01

<400> 2014
Gln Glu Leu Gly Ala Val Ser Leu
1 5

<210> 2015
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:02,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 2015
Gln Glu Leu Gly Ala Val Ser Leu Asp Gly Tyr
1 5 10

<210> 2016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*35:01,HLA-B*44:02,
HLA-B*44:03

<400> 2016
Gln Gly Phe Asp Gly Glu Leu Arg Gly Tyr
1 5 10

<210> 2017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*03:02

<400> 2017
Gln Leu Glu Leu Gly Thr Val Asn Lys
1 5

<210> 2018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 2018
Gln Asn Ile Arg Pro Leu Cys Ser Arg
1 5

<210> 2019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*13:02

<400> 2019
Gln Gln Gly Cys Gly Ile His Ala Ile
1 5

<210> 2020
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 2020
Gln Gln Asn Ile Arg Pro Leu Cys Ser Arg
1 5 10

<210> 2021
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*27:02

<400> 2021
Gln Arg Leu Pro Glu Leu Leu Thr Glu Arg
1 5 10

<210> 2022
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 2022
Arg Ala Ile Ile Asn Pro Ser Asn Arg
1 5

<210> 2023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 2023
Arg Ala Gln Lys Phe Leu Glu Glu Arg
1 5

<210> 2024
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*37:01

<400> 2024
Arg Asp Gly Thr Val Ala Leu Trp
1 5

<210> 2025
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*40:01

<400> 2025
Arg Glu Gly Gly Thr Gly Val Arg Ser Leu
1 5 10

<210> 2026
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*57:01

<400> 2026
Arg Gly Trp Leu Asn His Asn Asp Phe Trp
1 5 10

<210> 2027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*03:01,HLA-A*29:02,HLA-B*57:01

<400> 2027
Arg Leu Leu Ser Ile Arg Leu Pro Tyr
1 5

<210> 2028
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:04,HLA-A*24:02

<400> 2028
Arg Leu Leu Ser Ile Arg Leu Pro Tyr Phe
1 5 10

<210> 2029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:07,HLA-A*03:01,HLA-A*31:01

<400> 2029
Arg Leu Pro Glu Leu Leu Thr Glu Arg
1 5

<210> 2030
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:07

<400> 2030
Arg Leu Pro Glu Leu Leu Thr Glu Arg Gln Leu
1 5 10

<210> 2031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:07

<400> 2031
Arg Leu Pro Tyr Phe Arg Asp Asn Val
1 5

<210> 2032
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*07:02

<400> 2032
Arg Pro Ala Thr Tyr Arg Ser Met
1 5

<210> 2033
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 2033

Arg Pro Arg Asp Val Glu Ala Ile Pro Arg
1               5                   10


<210> 2034
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*27:05

<400> 2034
Arg Gln Leu Glu Leu Gly Thr Val Asn Lys
1               5                   10


<210> 2035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 2035
Arg Gln Leu Glu Leu Gly Thr Val Asn Lys Val
1               5                   10


<210> 2036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*03:01,HLA-A*31:01

<400> 2036
Arg Gln Arg Arg Pro Ala Thr Tyr Arg
1               5


<210> 2037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*23:01,HLA-B*08:01,

HLA-B*13:02,HLA-B*51:01,HLA-B*54:01,HLA-C*16:01

<400> 2037
Ser Ala Leu Ser Arg Leu Leu Ser Ile
1 5

<210> 2038
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*37:01,
HLA-B*39:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-C*16:04

<400> 2038
Ser Glu Val Gly Leu Pro Val Tyr
1 5

<210> 2039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 2039
Ser Glu Val Gly Leu Pro Val Tyr Ala
1 5

<210> 2040
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*44:02

<400> 2040
Ser Glu Val Gly Leu Pro Val Tyr Ala His Ile
1 5 10

<210> 2041
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 2041
Ser Phe Tyr Arg His Ile Ile Thr Val
1 5

<210> 2042
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*57:01

<400> 2042
Ser Gly Ser Arg Asp Gly Thr Val Ala Leu Trp
1 5 10

<210> 2043
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:07

<400> 2043
Ser Leu Asp Gly Tyr Phe His Leu
1 5

<210> 2044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01,HLA-A*02:07,HLA-A*24:02,HLA-A*29:02,HLA-B*44:02,
HLA-B*57:01

<400> 2044
Ser Leu Asp Gly Tyr Phe His Leu Trp
1 5

<210> 2045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:04

<400> 2045
Ser Leu Leu Phe Tyr Asp Val Arg Ala
1 5

<210> 2046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01,HLA-A*33:01

<400> 2046
Ser Met Ala His Tyr Leu Lys Val Arg
1 5

<210> 2047
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*56:01

<400> 2047
Ser Pro Ser Gln Gly Leu Ala Ala
1 5

<210> 2048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2048
Ser Pro Ser Gln Gly Leu Ala Ala Ala

1 5

<210> 2049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*13:02

<400> 2049
Ser Gln Trp Leu Asn Ser Arg Gln Val
1 5

<210> 2050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*38:01

<400> 2050
Ser Arg Asp Gly Thr Val Ala Leu Trp
1 5

<210> 2051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*27:05

<400> 2051
Ser Arg Glu Gly Gly Thr Gly Val Arg
1 5

<210> 2052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -C*01:02

<400> 2052
Ser Ser Pro Ser Gln Gly Leu Ala Ala
1               5


<210> 2053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*30:02

<400> 2053
Ser Val Tyr Ala Val Gly Ser His Ser His
1               5                   10


<210> 2054
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*68:02

<400> 2054
Ser Val Tyr Ala Val Gly Ser His Ser His Val
1               5                   10


<210> 2055
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -B*40:02,HLA-B*49:01

<400> 2055
Thr Glu Arg Gln Leu Glu Leu Gly Thr Val
1               5                   10


<210> 2056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;

HLA -B*35:03,HLA-B*39:01

<400> 2056
Thr Gly Gly Glu Asn Pro Asn Ser Leu
1 5

<210> 2057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:02

<400> 2057
Thr Gly Gln Gly Ser Leu Leu Phe Tyr
1 5

<210> 2058
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*68:01

<400> 2058
Thr Leu Glu Ser Ser Ser Gly Pro Ala Arg
1 5 10

<210> 2059
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 2059
Thr Val Asn Lys Val Phe Ala Ser Gln Trp
1 5 10

<210> 2060
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02,HLA-C*07:01,HLA-C*14:02

<400> 2060
Thr Tyr Cys Asp Asp Met Ser Val Tyr
1 5

<210> 2061
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*24:02

<400> 2061
Thr Tyr Arg Ser Met Ala His Tyr Leu
1 5

<210> 2062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*46:01,HLA-B*56:01

<400> 2062
Val Ala Gly Gly Pro Leu Pro Ala Gly
1 5

<210> 2063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*51:01

<400> 2063
Val Ala Trp Leu Ser Asp Thr Val
1 5

<210> 2064
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*54:01

<400> 2064
Val Ala Trp Leu Ser Asp Thr Val Ala
1 5

<210> 2065
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*49:01

<400> 2065
Val Glu Ala Ile Pro Arg Ala Ile
1 5

<210> 2066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 2066
Val Glu Ala Ile Pro Arg Ala Ile Ile
1 5

<210> 2067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 2067
Val Glu Ser Gly His Ile Ala Arg Ile
1 5

<210> 2068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*24:02

<400> 2068
Val Phe Pro Asn Ala Leu Tyr Thr His
1 5

<210> 2069
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02

<400> 2069
Val Phe Pro Asn Ala Leu Tyr Thr His Cys Tyr
1 5 10

<210> 2070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*23:01,HLA-A*24:02,HLA-B*51:01

<400> 2070
Val Gly Leu Pro Val Tyr Ala His Ile
1 5

<210> 2071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01

<400> 2071
Val Gly Leu Pro Val Tyr Ala His Ile Arg
1 5 10

<210> 2072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*15:03,HLA-B*46:01,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 2072
Val Gly Ser His Ser His Val Ser Phe
1 5

<210> 2073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -C*03:04

<400> 2073
Val Gly Thr Gly Gln Gly Ser Leu Leu
1 5

<210> 2074
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*30:02

<400> 2074
Val Gly Thr Gly Gln Gly Ser Leu Leu Phe Tyr
1 5 10

<210> 2075
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*31:01,HLA-A*33:01

<400> 2075

Val Gln Arg Leu Pro Glu Leu Leu Thr Glu Arg
1               5                   10


<210> 2076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*02:04,HLA-A*23:01,HLA-A*24:02

<400> 2076
Val Ser Leu Asp Gly Tyr Phe His Leu
1               5


<210> 2077
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*24:02,HLA-B*44:02,HLA-B*57:01

<400> 2077
Val Ser Leu Asp Gly Tyr Phe His Leu Trp
1               5                   10


<210> 2078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*02:07,HLA-C*05:01

<400> 2078
Val Val Asp Val Glu Ser Gly His Ile
1               5


<210> 2079
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*31:01,HLA-A*33:01

<400> 2079
Val Val Asp Val Glu Ser Gly His Ile Ala Arg
1               5                   10


<210> 2080
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -C*14:02

<400> 2080
Val Tyr Ala Val Gly Ser His Ser
1               5


<210> 2081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*24:02,HLA-C*14:02

<400> 2081
Val Tyr Ala Val Gly Ser His Ser His
1               5


<210> 2082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
      HLA -A*26:01,HLA-A*68:02,HLA-B*51:01,HLA-C*02:02,HLA-C*12:03,
      HLA-C*16:02

<400> 2082
Tyr Ala Val Gly Ser His Ser His Val
1               5


<210> 2083
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*35:01,HLA-B*46:01,HLA-C*02:02,HLA-C*12:03

<400> 2083
Tyr Ala Val Gly Ser His Ser His Val Ser Phe
1 5 10

<210> 2084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,
HLA-A*68:02,HLA-B*08:01,HLA-B*35:03,HLA-B*46:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 2084
Tyr Ala Val Gln Arg Leu Pro Glu Leu
1 5

<210> 2085
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*01:01

<400> 2085
Tyr Cys Asp Asp Met Ser Val Tyr
1 5

<210> 2086
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:01,HLA-A*02:07

<400> 2086
Tyr Cys Asp Asp Met Ser Val Tyr Ala Val
1 5 10

<210> 2087
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -B*18:01,HLA-B*37:01,HLA-B*40:02

<400> 2087
Tyr Asp Val Arg Ala Gln Lys Phe
1 5

<210> 2088
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*29:02

<400> 2088
Tyr Phe Arg Asp Asn Val Cys Leu Thr Tyr
1 5 10

<210> 2089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*39:01,HLA-B*40:01

<400> 2089
Tyr Gln Leu Pro Ser Leu Asp Pro Leu
1 5

<210> 2090
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF12L1; ENSG00000198889;
HLA -A*02:01,HLA-A*23:01,HLA-B*38:01

<400> 2090
Tyr Gln Leu Pro Ser Leu Asp Pro Leu Cys Leu
1               5                   10


<210> 2091
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*39:01

<400> 2091
Ala Ala Val Gly Gln Asp Cys Tyr
1               5


<210> 2092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -C*04:01

<400> 2092
Ala Ala Val Gly Gln Asp Cys Tyr Thr
1               5


<210> 2093
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*37:01

<400> 2093
Ala Asp Thr Pro Ser Cys Ala Val
1               5


<210> 2094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;

HLA -A*30:01,HLA-B*37:01

<400> 2094
Ala Asp Thr Pro Ser Cys Ala Val Leu
1 5

<210> 2095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -C*16:02

<400> 2095
Ala Asp Thr Pro Ser Cys Ala Val Leu Leu
1 5 10

<210> 2096
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01

<400> 2096
Ala Ile Met Thr Pro Leu Leu Phe
1 5

<210> 2097
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*56:01

<400> 2097
Ala Pro Gly Leu Leu Met Ala Val
1 5

<210> 2098
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 2098
Ala Pro Ser Met Leu Arg Lys Asn Gln Leu
1 5 10

<210> 2099
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01

<400> 2099
Ala Thr Lys Cys Val Thr Gln Tyr
1 5

<210> 2100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01

<400> 2100
Ala Val Leu Leu Pro Ala Ser Leu Phe
1 5

<210> 2101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*57:01

<400> 2101
Ala Val Arg Glu Asp Leu Tyr Cys Phe
1 5

<210> 2102
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*44:02

<400> 2102
Ala Trp Ser Leu Ser Ile His Ala Tyr
1 5

<210> 2103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-B*15:03,HLA-B*46:01,HLA-C*01:02,HLA-C*14:02

<400> 2103
Ala Tyr His Ser Phe Ser Thr Gly Leu
1 5

<210> 2104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*24:02,HLA-A*31:01

<400> 2104
Ala Tyr Leu Pro Val His Val Asn Glu
1 5

<210> 2105
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*24:02

<400> 2105
Ala Tyr Leu Pro Val His Val Asn Glu Glu
1 5 10

<210> 2106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*35:03,HLA-C*03:03

<400> 2106
Cys Ala Val Leu Leu Pro Ala Ser Leu
1 5

<210> 2107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*54:01

<400> 2107
Cys Ala Trp Ser Leu Ser Ile His Ala
1 5

<210> 2108
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:02

<400> 2108
Cys Ala Trp Ser Leu Ser Ile His Ala Tyr
1 5 10

<210> 2109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*57:01,HLA-B*58:01

<400> 2109
Cys Ser Phe Gln Ile Pro Asp Ala Trp
1 5

<210> 2110
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*24:02

<400> 2110
Cys Tyr Thr Arg Ile Trp Ser Leu
1 5

<210> 2111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*08:01

<400> 2111
Asp Cys Tyr Thr Arg Ile Trp Ser Leu
1 5

<210> 2112
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 2112
Asp Ile Pro Ser Val Ala Phe Ser Ser Arg
1 5 10

<210> 2113
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:02

<400> 2113

Asp Ile Pro Ser Val Ala Phe Ser Ser Arg Leu
1               5                   10


<210> 2114
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*08:01

<400> 2114
Asp Met Thr Gly Thr Ile Lys Leu
1               5


<210> 2115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*25:01,HLA-B*44:02

<400> 2115
Asp Met Thr Gly Thr Ile Lys Leu Trp
1               5


<210> 2116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*68:01

<400> 2116
Asp Pro Ser Ser Leu Ala Ser Asp Arg
1               5


<210> 2117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*35:01

<400> 2117
Asp Pro Ser Ser Leu Ala Ser Asp Arg Phe
1               5                   10


<210> 2118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*02:03,HLA-B*13:02,HLA-B*39:01,HLA-B*51:01

<400> 2118
Asp Gln Leu Phe Thr Val Asn Gln Val
1               5


<210> 2119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*51:01

<400> 2119
Asp Ser Ala Val Thr Ser Leu Gln Ile
1               5


<210> 2120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*68:02,HLA-B*51:01

<400> 2120
Asp Val Leu Ala Gln Gln Phe Ala Ile
1               5


<210> 2121
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 2121
Asp Val Leu Ala Gln Gln Phe Ala Ile Met
1 5 10

<210> 2122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*51:01

<400> 2122
Glu Ala Asp Lys Gln Lys Lys Thr Val
1 5

<210> 2123
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*33:03

<400> 2123
Glu Ala Asp Lys Gln Lys Lys Thr Val Arg
1 5 10

<210> 2124
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*44:03

<400> 2124
Glu Glu Ala Asp Lys Gln Lys Lys Thr Val
1 5 10

<210> 2125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01,HLA-B*18:01,HLA-B*39:01,HLA-B*40:01,HLA-B*49:01

<400> 2125
Glu Glu Glu Gly Val Val Ala Ala Val
1 5

<210> 2126
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*18:01,HLA-B*49:01

<400> 2126
Glu Glu Gly Val Val Ala Ala Val
1 5

<210> 2127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*15:01,HLA-B*46:01

<400> 2127
Glu Gly His Val Asn Asn Ser Ala Tyr
1 5

<210> 2128
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*33:03

<400> 2128
Glu Ile Phe Gly Ile Asp Leu Arg
1 5

<210> 2129
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:02

<400> 2129
Glu Ile Phe Gly Ile Asp Leu Arg Cys
1 5

<210> 2130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*33:01,HLA-A*33:03

<400> 2130
Glu Leu Arg Val Ser Cys Met Gln Arg
1 5

<210> 2131
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*33:01,HLA-A*33:03,HLA-B*35:01,HLA-B*38:01,HLA-C*04:01,
HLA-C*05:01

<400> 2131
Glu Asn Asp Ile Pro Ser Val Ala Phe
1 5

<210> 2132
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-B*51:01,HLA-C*03:03,HLA-C*03:04

<400> 2132
Phe Ala Ile Met Thr Pro Leu Leu
1 5

<210> 2133
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*24:02,HLA-A*26:01,HLA-A*29:02,HLA-B*27:02,
HLA-B*35:01,HLA-B*54:01,HLA-C*02:02,HLA-C*12:03

<400> 2133
Phe Ala Ile Met Thr Pro Leu Leu Phe
1 5

<210> 2134
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*35:03,HLA-B*39:01,HLA-C*03:03,HLA-C*03:04

<400> 2134
Phe Gly Thr Ser Ser Asp Val Leu
1 5

<210> 2135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01

<400> 2135
Phe Gln Ile Pro Asp Ala Trp Ser Cys
1 5

<210> 2136
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:02,HLA-B*13:02,HLA-C*16:02

<400> 2136

Phe Ser Thr Gly Leu Ser Gln Gln Val
1               5


<210> 2137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*02:07,HLA-B*13:02

<400> 2137
Gly Ala Pro Gly Leu Leu Met Ala Val
1               5


<210> 2138
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 2138
Gly Glu Ile Phe Gly Ile Asp Leu
1               5


<210> 2139
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*29:02

<400> 2139
Gly Phe Leu Arg Phe Ala Asn Tyr
1               5


<210> 2140
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*31:01

<400> 2140
Gly Gly Ser Lys Tyr Gly Ile Ile Thr Met Arg
1               5                   10


<210> 2141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 2141
Gly His Val Asn Asn Ser Ala Tyr Leu
1               5


<210> 2142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 2142
Gly Leu Ala Asp Thr Pro Ser Cys Ala
1               5


<210> 2143
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*55:01

<400> 2143
Gly Leu Ala Asp Thr Pro Ser Cys Ala Val
1               5                   10


<210> 2144
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03

<400> 2144
Gly Leu Asn Ala Pro Ser Met Leu Arg
1 5

<210> 2145
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2145
Gly Leu Asn Ala Pro Ser Met Leu Arg Lys
1 5 10

<210> 2146
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*55:01

<400> 2146
Gly Leu Ser Gln Gln Val Leu Leu Thr Asn Val
1 5 10

<210> 2147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 2147
Gly Leu Thr Thr Pro Glu Leu Arg Val
1 5

<210> 2148
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-C*16:01

<400> 2148
Gly Leu Thr Thr Pro Glu Leu Arg Val Tyr
1 5 10

<210> 2149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*39:01

<400> 2149
Gly Gln Phe Leu Val Ser Ser Asp Met
1 5

<210> 2150
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*13:02,HLA-B*27:05

<400> 2150
Gly Gln Phe Leu Val Ser Ser Asp Met Thr Gly
1 5 10

<210> 2151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01,HLA-B*40:02,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*07:04,HLA-C*12:03

<400> 2151
Gly Ser Lys Tyr Gly Ile Ile Thr Met
1 5

<210> 2152
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 2152
Gly Ser Lys Tyr Gly Ile Ile Thr Met Arg
1 5 10

<210> 2153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*11:01

<400> 2153
Gly Thr Ser Ser Asp Val Leu Ala Gln
1 5

<210> 2154
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*11:01

<400> 2154
Gly Thr Ser Ser Asp Val Leu Ala Gln Gln
1 5 10

<210> 2155
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:02,HLA-A*11:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*39:01,HLA-B*57:01,HLA-B*58:01

<400> 2155
Gly Thr Ser Ser Asp Val Leu Ala Gln Gln Phe
1               5                   10


<210> 2156
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 2156
Gly Val Val Ala Ala Val Gly Gln Asp Cys Tyr
1               5                   10


<210> 2157
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
      HLA-B*40:02

<400> 2157
His Asp Ser Ala Val Thr Ser Leu
1               5


<210> 2158
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*38:01

<400> 2158
His Asp Ser Ala Val Thr Ser Leu Gln Ile
1               5                   10


<210> 2159
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01

<400> 2159
His Asp Ser Ala Val Thr Ser Leu Gln Ile Leu
1 5 10

<210> 2160
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*51:01

<400> 2160
His Gly His Leu Leu Thr Thr Ile
1 5

<210> 2161
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:07

<400> 2161
His Leu Asp Ser His Leu Leu Leu
1 5

<210> 2162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:07

<400> 2162
His Leu Asp Ser His Leu Leu Leu Cys
1 5

<210> 2163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:07

<400> 2163
His Leu Asp Ser His Leu Leu Leu Cys Phe
1 5 10

<210> 2164
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 2164
His Leu Leu Thr Thr Ile Pro Ser Pro Tyr
1 5 10

<210> 2165
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:02,HLA-B*13:02

<400> 2165
His Ser Phe Ser Thr Gly Leu Ser Gln Gln Val
1 5 10

<210> 2166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*54:01

<400> 2166
His Ser Trp Asp Pro Ser Ser Leu Ala
1 5

<210> 2167
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*35:03,HLA-B*54:01

<400> 2167
His Val Asn Glu Glu Glu Gly Val Val Ala
1 5 10

<210> 2168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01,HLA-B*39:01

<400> 2168
Ile His Ser Trp Asp Pro Ser Ser Leu
1 5

<210> 2169
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01

<400> 2169
Ile Leu Ala Asn Thr Asn Thr Asp Gln Leu Phe
1 5 10

<210> 2170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*30:01,
HLA-B*13:02,HLA-B*55:01

<400> 2170
Ile Leu Gln Asp Gly Gln Phe Leu Val
1 5

<210> 2171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:01

<400> 2171
Ile Pro Ser Val Ala Phe Ser Ser Arg
1 5

<210> 2172
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*07:02

<400> 2172
Ile Pro Ser Val Ala Phe Ser Ser Arg Leu
1 5 10

<210> 2173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01

<400> 2173
Lys Leu Trp Asp Leu Arg Ala Thr Lys
1 5

<210> 2174
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01

<400> 2174
Lys Thr Leu Tyr Val Pro Asn Arg

1 5

<210> 2175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2175
Lys Thr Leu Tyr Val Pro Asn Arg Lys
1 5

<210> 2176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*58:01

<400> 2176
Lys Thr Val Arg Val Gly Leu Asn Ala
1 5

<210> 2177
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01

<400> 2177
Lys Tyr Gly Ile Ile Thr Met Arg
1 5

<210> 2178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*51:01,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 2178
Leu Ala Asp Thr Pro Ser Cys Ala Val
1               5


<210> 2179
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -C*05:01

<400> 2179
Leu Ala Asp Thr Pro Ser Cys Ala Val Leu
1               5                   10


<210> 2180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -C*03:03,HLA-C*03:04

<400> 2180
Leu Ala Asn Thr Asn Thr Asp Gln Leu
1               5


<210> 2181
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*57:01,HLA-B*58:01

<400> 2181
Leu Ala Asn Thr Asn Thr Asp Gln Leu Phe
1               5                   10


<210> 2182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;

HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 2182
Leu Phe Ile Gly Ser Phe Pro Gly Met
1 5

<210> 2183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:02,HLA-B*57:01

<400> 2183
Leu Gly Phe Leu Arg Phe Ala Asn Tyr
1 5

<210> 2184
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01

<400> 2184
Leu Leu Met Ala Val Arg Glu Asp Leu Tyr
1 5 10

<210> 2185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03

<400> 2185
Leu Leu Thr Asn Val Val Thr Gly His
1 5

<210> 2186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*46:01

<400> 2186
Leu Leu Thr Thr Ile Pro Ser Pro Tyr
1 5

<210> 2187
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 2187
Leu Met Ala Val Arg Glu Asp Leu Tyr
1 5

<210> 2188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*54:01

<400> 2188
Leu Pro Ala Ser Leu Phe Ile Gly Ser
1 5

<210> 2189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*35:01,HLA-B*54:01

<400> 2189
Leu Pro Ala Ser Leu Phe Ile Gly Ser Phe
1 5 10

<210> 2190
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*55:01

<400> 2190
Leu Pro Val His Val Asn Glu Glu Glu Gly Val
1 5 10

<210> 2191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*15:01,HLA-B*15:03

<400> 2191
Leu Gln Ile Leu Gln Asp Gly Gln Phe
1 5

<210> 2192
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01

<400> 2192
Leu Gln Ile Leu Gln Asp Gly Gln Phe Leu
1 5 10

<210> 2193
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*24:02,HLA-A*25:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 2193
Leu Ser Ile His Ala Tyr His Ser Phe
1 5

<210> 2194

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01

<400> 2194
Leu Thr Thr Ile Pro Ser Pro Tyr
1 5

<210> 2195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:01,HLA-C*16:02

<400> 2195
Leu Thr Thr Pro Glu Leu Arg Val Tyr
1 5

<210> 2196
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*35:01

<400> 2196
Met Ala Val Arg Glu Asp Leu Tyr Cys Phe
1 5 10

<210> 2197
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*08:01

<400> 2197
Met Gln Arg Lys Lys Val Gln Ile
1 5

<210> 2198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*27:02,HLA-B*27:05

<400> 2198
Met Arg Gly Leu Thr Thr Pro Glu Leu
1 5

<210> 2199
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*57:01

<400> 2199
Met Thr Gly Thr Ile Lys Leu Trp
1 5

<210> 2200
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*51:01

<400> 2200
Asn Ala Pro Ser Met Leu Arg Lys
1 5

<210> 2201
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03

<400> 2201
Asn Asp Ile Pro Ser Val Ala Phe
1               5


<210> 2202
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*33:01

<400> 2202
Asn Asp Ile Pro Ser Val Ala Phe Ser Ser Arg
1               5                   10


<210> 2203
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*18:01

<400> 2203
Asn Glu Glu Glu Gly Val Val Ala
1               5


<210> 2204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01

<400> 2204
Asn Glu Glu Glu Gly Val Val Ala Ala
1               5


<210> 2205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;

HLA -B*40:01

<400> 2205
Asn Glu Glu Glu Gly Val Val Ala Ala Val
1 5 10

<210> 2206
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01

<400> 2206
Asn His Leu Asp Ser His Leu Leu
1 5

<210> 2207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01,HLA-B*39:01

<400> 2207
Asn His Leu Asp Ser His Leu Leu Leu
1 5

<210> 2208
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*29:02

<400> 2208
Asn Gln Leu Gly Phe Leu Arg Phe Ala Asn Tyr
1 5 10

<210> 2209
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*38:01,HLA-B*39:01,HLA-B*44:03,
HLA-C*07:04,HLA-C*16:04

<400> 2209
Asn Gln Val Glu Ala Gly Gly Ser Lys Tyr
1 5 10

<210> 2210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:02

<400> 2210
Asn Ser Ala Tyr Leu Pro Val His Val
1 5

<210> 2211
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -C*05:01

<400> 2211
Asn Thr Asp Gln Leu Phe Thr Val
1 5

<210> 2212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01

<400> 2212
Asn Thr Asp Gln Leu Phe Thr Val Asn
1 5

<210> 2213

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*35:01,
HLA-B*46:01,HLA-B*58:01

<400> 2213
Asn Val Val Thr Gly His Gln Gln Ser Phe
1 5 10

<210> 2214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*24:02

<400> 2214
Gln Phe Ala Ile Met Thr Pro Leu Leu
1 5

<210> 2215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*24:02

<400> 2215
Gln Phe Ala Ile Met Thr Pro Leu Leu Phe
1 5 10

<210> 2216
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*35:03,HLA-C*14:02

<400> 2216
Gln Phe Leu Val Ser Ser Asp Met
1 5

<210> 2217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01

<400> 2217
Gln Ile Leu Gln Asp Gly Gln Phe Leu
1 5

<210> 2218
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*25:01

<400> 2218
Gln Ile Pro Asp Ala Trp Ser Cys Ala Trp
1 5 10

<210> 2219
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02,HLA-B*55:01

<400> 2219
Gln Leu Phe Thr Val Asn Gln Val
1 5

<210> 2220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-B*56:01

<400> 2220

Gln Leu Phe Thr Val Asn Gln Val Glu Ala
1               5                   10


<210> 2221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05

<400> 2221
Gln Gln Phe Ala Ile Met Thr Pro Leu
1               5


<210> 2222
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 2222
Gln Gln Ser Phe Gly Thr Ser Ser Asp Val Leu
1               5                   10


<210> 2223
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*13:02

<400> 2223
Gln Gln Val Leu Leu Thr Asn Val
1               5


<210> 2224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*13:02,HLA-B*39:01

<400> 2224
Gln Gln Val Leu Leu Thr Asn Val Val
1               5


<210> 2225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*39:01,HLA-B*40:01

<400> 2225
Gln Ser Phe Gly Thr Ser Ser Asp Val Leu
1               5                   10


<210> 2226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*58:01,
      HLA-C*07:04

<400> 2226
Gln Val Glu Ala Gly Gly Ser Lys Tyr
1               5


<210> 2227
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:02

<400> 2227
Gln Tyr Glu Gly His Val Asn Asn Ser Ala Tyr
1               5                   10


<210> 2228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:02,HLA-B*15:01,HLA-B*58:01,HLA-C*16:02

<400> 2228
Arg Ala Thr Lys Cys Val Thr Gln Tyr
1 5

<210> 2229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*44:03

<400> 2229
Arg Glu Asp Leu Tyr Cys Phe Ser Tyr
1 5

<210> 2230
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*37:01

<400> 2230
Arg Glu Leu Arg Val Ser Cys Met
1 5

<210> 2231
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01

<400> 2231
Arg Gly Ala Pro Gly Leu Leu Met Ala Val Arg
1 5 10

<210> 2232
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01

<400> 2232
Arg Gly Leu Thr Thr Pro Glu Leu Arg
1 5

<210> 2233
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:02,HLA-B*57:01

<400> 2233
Arg Gly Leu Thr Thr Pro Glu Leu Arg Val Tyr
1 5 10

<210> 2234
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:02

<400> 2234
Arg Leu Leu Glu Glu Ala Asp Lys Gln Lys
1 5 10

<210> 2235
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01,HLA-A*31:01

<400> 2235
Arg Val Gly Leu Asn Ala Pro Ser Met Leu Arg
1 5 10

<210> 2236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*57:01,HLA-C*02:02

<400> 2236
Arg Val Tyr Pro His Lys Thr Leu Tyr
1 5

<210> 2237
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:03,HLA-A*03:01

<400> 2237
Arg Val Tyr Pro His Lys Thr Leu Tyr Val
1 5 10

<210> 2238
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*51:01

<400> 2238
Ser Ala Val Thr Ser Leu Gln Ile
1 5

<210> 2239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01,HLA-B*35:03,HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03,HLA-C*16:02

<400> 2239

Ser Ala Val Thr Ser Leu Gln Ile Leu
1               5


<210> 2240
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*68:02,HLA-B*08:01,HLA-B*13:02,HLA-B*51:01,HLA-B*54:01,
      HLA-B*56:01,HLA-C*02:02,HLA-C*12:03

<400> 2240
Ser Ala Tyr Leu Pro Val His Val
1               5


<210> 2241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*54:01,HLA-C*12:03

<400> 2241
Ser Ala Tyr Leu Pro Val His Val Asn
1               5


<210> 2242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:01

<400> 2242
Ser Asp Met Thr Gly Thr Ile Lys Leu
1               5


<210> 2243
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;

HLA -B*44:02,HLA-B*44:03

<400> 2243
Ser Asp Met Thr Gly Thr Ile Lys Leu Trp
1 5 10

<210> 2244
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-C*04:01

<400> 2244
Ser Asp Val Leu Ala Gln Gln Phe
1 5

<210> 2245
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*49:01

<400> 2245
Ser Glu Asn Asp Ile Pro Ser Val
1 5

<210> 2246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:01,HLA-B*18:01,HLA-B*49:01

<400> 2246
Ser Glu Asn Asp Ile Pro Ser Val Ala
1 5

<210> 2247
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 2247
Ser Glu Asn Asp Ile Pro Ser Val Ala Phe
1 5 10

<210> 2248
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:07,HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:01,HLA-C*05:01

<400> 2248
Ser His Asp Ser Ala Val Thr Ser Leu
1 5

<210> 2249
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01

<400> 2249
Ser His Asp Ser Ala Val Thr Ser Leu Gln Ile
1 5 10

<210> 2250
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*15:03

<400> 2250
Ser Lys Tyr Gly Ile Ile Thr Met
1 5

<210> 2251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01

<400> 2251
Ser Lys Tyr Gly Ile Ile Thr Met Arg
1 5

<210> 2252
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:03

<400> 2252
Ser Leu Ala Ser Asp Arg Phe Asn Arg Ile
1 5 10

<210> 2253
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*26:01

<400> 2253
Ser Leu Phe Ile Gly Ser Phe Pro Gly Met
1 5 10

<210> 2254
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01

<400> 2254
Ser Leu Phe Ile Gly Ser Phe Pro Gly Met Arg

1 5 10

<210> 2255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:04

<400> 2255
Ser Leu Asn His Leu Asp Ser His Leu
1 5

<210> 2256
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:04

<400> 2256
Ser Leu Asn His Leu Asp Ser His Leu Leu Leu
1 5 10

<210> 2257
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*08:01

<400> 2257
Ser Met Leu Arg Lys Asn Gln Leu
1 5

<210> 2258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 2258
Ser Gln Gln Val Leu Leu Thr Asn Val
1               5


<210> 2259
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -C*05:01

<400> 2259
Ser Ser Asp Met Thr Gly Thr Ile
1               5


<210> 2260
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*44:02

<400> 2260
Ser Ser Asp Met Thr Gly Thr Ile Lys Leu Trp
1               5                   10


<210> 2261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*01:01,HLA-A*02:07,HLA-A*32:01,HLA-B*38:01,HLA-B*58:01,
      HLA-C*04:01,HLA-C*05:01

<400> 2261
Ser Ser Asp Val Leu Ala Gln Gln Phe
1               5


<210> 2262
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01

<400> 2262
Thr Gly Leu Ser Gln Gln Val Leu Leu
1 5

<210> 2263
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01

<400> 2263
Thr Leu Tyr Val Pro Asn Arg Lys
1 5

<210> 2264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:03

<400> 2264
Thr Leu Tyr Val Pro Asn Arg Lys Val
1 5

<210> 2265
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*31:01

<400> 2265
Thr Met Arg Gly Leu Thr Thr Pro Glu Leu Arg
1 5 10

<210> 2266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:02

<400> 2266
Thr Asn Thr Asp Gln Leu Phe Thr Val
1 5

<210> 2267
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*54:01

<400> 2267
Thr Pro Ser Cys Ala Val Leu Leu Pro Ala
1 5 10

<210> 2268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*27:05

<400> 2268
Thr Gln Tyr Glu Gly His Val Asn Asn
1 5

<210> 2269
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:03

<400> 2269
Thr Gln Tyr Glu Gly His Val Asn Asn Ser
1 5 10

<210> 2270
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*68:01

<400> 2270
Thr Ser Ser Asp Val Leu Ala Gln Gln
1 5

<210> 2271
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*38:01,

<220>
<223> HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,
HLA-C*07:06

<400> 2271
Thr Ser Ser Asp Val Leu Ala Gln Gln Phe
1 5 10

<210> 2272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*31:01,HLA-A*68:01,HLA-A*68:02,HLA-B*54:01,
HLA-B*56:01,HLA-B*57:01

<400> 2272
Thr Thr Ile Pro Ser Pro Tyr Pro Ala
1 5

<210> 2273
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;

HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 2273
Thr Val Asn Gln Val Glu Ala Gly Gly Ser Lys
1 5 10

<210> 2274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*39:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:01

<400> 2274
Val Ala Ala Val Gly Gln Asp Cys Tyr
1 5

<210> 2275
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -C*02:02

<400> 2275
Val Ala Phe Ser Ser Arg Leu Gly Gly Phe
1 5 10

<210> 2276
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*32:01,HLA-B*15:03,HLA-B*18:01,HLA-B*37:01,HLA-B*39:01,
HLA-B*44:02,HLA-B*44:03

<400> 2276
Val Glu Ala Gly Gly Ser Lys Tyr
1 5

<210> 2277
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 2277
Val Glu Ala Gly Gly Ser Lys Tyr Gly Ile
1 5 10

<210> 2278
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01

<400> 2278
Val Gly Leu Ala Asp Thr Pro Ser Cys
1 5

<210> 2279
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*39:01,HLA-B*46:01,HLA-B*51:01,HLA-C*14:02,HLA-C*16:01

<400> 2279
Val Gly Leu Asn Ala Pro Ser Met
1 5

<210> 2280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-C*03:03

<400> 2280
Val Gly Leu Asn Ala Pro Ser Met Leu
1 5

<210> 2281

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01,HLA-B*39:01

<400> 2281
Val His Val Asn Glu Glu Glu Gly Val
1 5

<210> 2282
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*39:01

<400> 2282
Val His Val Asn Glu Glu Glu Gly Val Val
1 5 10

<210> 2283
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*38:01,HLA-B*39:01

<400> 2283
Val His Val Asn Glu Glu Glu Gly Val Val Ala
1 5 10

<210> 2284
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*13:02

<400> 2284
Val Leu Ala Gln Gln Phe Ala Ile
1 5

<210> 2285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*24:02

<400> 2285
Val Leu Ala Gln Gln Phe Ala Ile Met
1 5

<210> 2286
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01

<400> 2286
Val Leu Leu Pro Ala Ser Leu Phe
1 5

<210> 2287
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-B*13:02

<400> 2287
Val Leu Leu Pro Ala Ser Leu Phe Ile
1 5

<210> 2288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*02:01,HLA-A*02:04

<400> 2288

Val Leu Leu Thr Asn Val Val Thr Gly
1               5


<210> 2289
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*03:01

<400> 2289
Val Leu Leu Thr Asn Val Val Thr Gly His
1               5                   10


<210> 2290
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:02

<400> 2290
Val Asn Gln Val Glu Ala Gly Gly Ser Lys Tyr
1               5                   10


<210> 2291
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
      HLA-B*55:01,HLA-B*56:01,HLA-C*07:02,HLA-C*14:02

<400> 2291
Val Pro Asn Arg Lys Val Asn Ser Met
1               5


<210> 2292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;

HLA -B*27:02

<400> 2292
Val Arg Val Gly Leu Asn Ala Pro Ser Met
1 5 10

<210> 2293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*13:02,HLA-B*58:01

<400> 2293
Val Ser Ser Asp Met Thr Gly Thr Ile
1 5

<210> 2294
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2294
Val Ser Ser Asp Met Thr Gly Thr Ile Lys
1 5 10

<210> 2295
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 2295
Val Thr Gly His Gln Gln Ser Phe
1 5

<210> 2296
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*58:01

<400> 2296
Val Val Ala Ala Val Gly Gln Asp Cys Tyr
1 5 10

<210> 2297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-A*33:03,HLA-B*07:02,HLA-B*08:01,
HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*27:05,

<220>
<223> HLA-B*35:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*04:01,HLA-C*07:02,HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,
HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 2297
Val Val Thr Gly His Gln Gln Ser Phe
1 5

<210> 2298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*24:02

<400> 2298
Val Tyr Pro His Lys Thr Leu Tyr Val
1 5

<210> 2299
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*30:02

<400> 2299
Trp Ser Leu Ser Ile His Ala Tyr
1               5


<210> 2300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01,
      HLA-B*54:01

<400> 2300
Tyr Glu Gly His Val Asn Asn Ser Ala
1               5


<210> 2301
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -A*30:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 2301
Tyr Glu Gly His Val Asn Asn Ser Ala Tyr
1               5                   10


<210> 2302
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
      HLA -B*38:01,HLA-B*39:01,HLA-C*07:04

<400> 2302
Tyr His Ser Phe Ser Thr Gly Leu
1               5


<210> 2303
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2303
Tyr Pro Ala Ser Glu Asn Asp Ile Pro Ser Val
1 5 10

<210> 2304
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*51:01,HLA-B*54:01

<400> 2304
Tyr Pro His Lys Thr Leu Tyr Val
1 5

<210> 2305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -B*54:01

<400> 2305
Tyr Pro His Lys Thr Leu Tyr Val Pro
1 5

<210> 2306
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DCAF4L2; ENSG00000176566;
HLA -A*25:01,HLA-A*26:01,HLA-B*08:01

<400> 2306
Tyr Val Pro Asn Arg Lys Val Asn Ser Met
1 5 10

<210> 2307
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,HLA-B*07:02,
HLA-B*13:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*40:02,
HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-B*57:01,

<220>
<223> HLA-B*58:01,HLA-C*04:01,HLA-C*06:02,HLA-C*07:02,HLA-C*16:01,
HLA-C*16:02

<400> 2307
Ala Pro Thr Pro Val Ser Pro Thr Gly
1 5

<210> 2308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 2308
Ala Gln Leu Val Ser Gly Asn Trp Tyr
1 5

<210> 2309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*32:01,HLA-B*58:01

<400> 2309
Ala Thr Thr Ala Thr Thr Thr Leu Met
1 5

<210> 2310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*02:04

<400> 2310
Ala Val Phe Met Leu Leu Ala Gln Leu
1               5


<210> 2311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2311
Cys Leu Asn Asp Val Gly Ile Cys Lys
1               5


<210> 2312
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2312
Cys Leu Asn Asp Val Gly Ile Cys Lys Lys
1               5                   10


<210> 2313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
      HLA -B*27:02,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 2313
Glu Glu Met His Val Lys Asn Gly Trp
1               5


<210> 2314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;

HLA -A*02:01,HLA-A*02:07,HLA-A*29:02,HLA-A*68:02

<400> 2314
Phe Thr Leu Ala Val Phe Met Leu Leu
1 5

<210> 2315
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2315
Lys Cys Leu Asn Asp Val Gly Ile Cys Lys
1 5 10

<210> 2316
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*57:01

<400> 2316
Lys Ser Leu Leu Phe Thr Leu Ala Val Phe
1 5 10

<210> 2317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*32:01

<400> 2317
Lys Thr Thr Arg Ile Ser Thr Val Thr
1 5

<210> 2318
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*57:01

<400> 2318
Leu Ala Gln Leu Val Ser Gly Asn Trp
1 5

<210> 2319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*02:04

<400> 2319
Leu Leu Phe Thr Leu Ala Val Phe Met Leu
1 5 10

<210> 2320
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*46:01,HLA-C*14:02

<400> 2320
Leu Met Met Thr Thr Ala Ser Met
1 5

<210> 2321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*25:01,HLA-A*26:01,HLA-B*46:01,HLA-C*03:04

<400> 2321
Met Thr Thr Ala Ser Met Ser Ser Met
1 5

<210> 2322
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*07:02

<400> 2322
Pro Thr Pro Val Ser Pro Thr Gly
1 5

<210> 2323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 2323
Gln Leu Val Ser Gly Asn Trp Tyr Val
1 5

<210> 2324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*32:01

<400> 2324
Gln Thr Lys Thr Thr Arg Ile Ser Thr
1 5

<210> 2325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*02:01,HLA-A*02:03,HLA-A*03:01,HLA-A*32:01

<400> 2325
Ser Met Ala Pro Thr Pro Val Ser Pro
1 5

<210> 2326

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*02:01,HLA-C*04:01

<400> 2326
Ser Met Ala Pro Thr Pro Val Ser Pro Thr Gly
1 5 10

<210> 2327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*02:01,HLA-A*02:03

<400> 2327
Ser Met Ser Ser Met Ala Pro Thr Pro Val
1 5 10

<210> 2328
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-A*32:01,HLA-B*07:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*51:01,HLA-B*58:01,

<220>
<223> HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,
HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02

<400> 2328
Thr Ala Thr Thr Ala Thr Thr Thr Leu
1 5

<210> 2329
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;

HLA -B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 2329
Thr Ala Thr Thr Thr Leu Met Met
1 5

<210> 2330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:03,HLA-B*46:01,HLA-C*07:04,HLA-C*14:02

<400> 2330
Thr Leu Met Met Thr Thr Ala Ser Met
1 5

<210> 2331
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*27:05

<400> 2331
Thr Arg Ile Ser Thr Val Thr Ala Thr
1 5

<210> 2332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*01:01,HLA-A*26:01,HLA-A*68:01

<400> 2332
Thr Thr Ala Thr Thr Thr Leu Met Met
1 5

<210> 2333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*40:02

<400> 2333
Thr Thr Arg Ile Ser Thr Val Thr Ala
1 5

<210> 2334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*54:01,HLA-B*56:01

<400> 2334
Thr Thr Thr Leu Met Met Thr Thr Ala
1 5

<210> 2335
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*39:01

<400> 2335
Thr Val Thr Ala Thr Thr Ala Thr Thr Thr Leu
1 5 10

<210> 2336
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*23:01

<400> 2336
Val Phe Met Leu Leu Ala Gln Leu
1 5

<210> 2337
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*07:02,HLA-C*16:01

<400> 2337
Val Pro Ala Asp Arg Arg Ala Asn Tyr
1 5

<210> 2338
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*13:02

<400> 2338
Val Gln Thr Lys Thr Thr Arg Ile
1 5

<210> 2339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -A*03:02,HLA-A*11:01

<400> 2339
Val Ser Gly Asn Trp Tyr Val Lys Lys
1 5

<210> 2340
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DEFB126; ENSG00000125788;
HLA -B*58:01,HLA-C*01:02

<400> 2340
Val Thr Ala Thr Thr Ala Thr Thr Thr Leu
1 5 10

<210> 2341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*05:01

<400> 2341
Ala Ala Asp Ser Ala Ser Gly Glu Val
1 5

<210> 2342
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*16:01,HLA-C*16:02

<400> 2342
Ala Ala Ser Glu Gly Arg Met Val
1 5

<210> 2343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*32:01,HLA-B*07:02,HLA-B*13:02,HLA-B*38:01,HLA-B*46:01,
HLA-B*51:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*07:02,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 2343
Ala Ala Ser Glu Gly Arg Met Val Ile
1 5

<210> 2344
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*37:01

<400> 2344

Ala Asp Ser Ala Ser Gly Glu Val
1               5


<210> 2345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*37:01,HLA-B*40:02

<400> 2345
Ala Glu Arg Gln Arg Val Met Ala Ala
1               5


<210> 2346
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*02:01,HLA-A*02:03

<400> 2346
Ala Leu Ala Ala Asp Ser Ala Ser Gly Glu Val
1               5                   10


<210> 2347
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*02:03

<400> 2347
Ala Leu Val Gly Ala Ala Ser Gly Ser Ser Ala
1               5                   10


<210> 2348
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*37:01

<400> 2348
Ala Met Ser Ser Gln Tyr Arg Met
1               5


<210> 2349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*68:01

<400> 2349
Ala Pro Gly Val Pro Pro Gln Gly Arg
1               5


<210> 2350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*07:02,HLA-B*54:01,HLA-B*56:01

<400> 2350
Ala Pro His Ala Pro Gly Val Pro Pro
1               5


<210> 2351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2351
Ala Pro Ser Tyr Pro Glu Ala Arg Ala
1               5


<210> 2352
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 2352
Ala Pro Ser Tyr Pro Glu Ala Arg Ala Ser Val
1 5 10

<210> 2353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*11:01

<400> 2353
Ala Ser Asp Leu Gly Ala Gly Ser Lys
1 5

<210> 2354
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2354
Ala Ser Asp Leu Gly Ala Gly Ser Lys Lys
1 5 10

<210> 2355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*39:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*03:03,HLA-C*03:04

<400> 2355
Ala Ser Gly Glu Val Gly Asn Pro Leu
1 5

<210> 2356
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:01,HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,HLA-B*44:03

<400> 2356
Cys Glu Pro Ala Ser Glu Pro Ser Ser Phe
1 5 10

<210> 2357
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02

<400> 2357
Cys Pro Gln Tyr Ser Met Ala Leu
1 5

<210> 2358
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*56:01

<400> 2358
Cys Pro Gln Tyr Ser Met Ala Leu Ala
1 5

<210> 2359
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*56:01

<400> 2359
Cys Pro Gln Tyr Ser Met Ala Leu Ala Ala
1 5 10

<210> 2360

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*51:01

<400> 2360
Asp Ala Pro Ser Tyr Pro Glu Ala
1 5

<210> 2361
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*51:01,
HLA-C*07:06

<400> 2361
Asp Ala Pro Ser Tyr Pro Glu Ala Arg
1 5

<210> 2362
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*51:01

<400> 2362
Asp Ala Pro Ser Tyr Pro Glu Ala Arg Ala
1 5 10

<210> 2363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*18:01

<400> 2363
Asp Glu Ala Phe Ser Lys Pro Ser Thr
1 5

<210> 2364
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*33:01

<400> 2364
Asp Leu Gly Ala Gly Ser Lys Lys Ser Pro Arg
1 5 10

<210> 2365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-B*15:03

<400> 2365
Asp Leu Val Ser Asp Ser Thr Tyr Tyr
1 5

<210> 2366
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*26:01,HLA-A*33:01,HLA-A*68:01,HLA-A*68:02,HLA-B*38:01,
HLA-B*39:01

<400> 2366
Asp Ser Ala Ser Gly Glu Val Gly Asn Pro Leu
1 5 10

<210> 2367
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*25:01

<400> 2367
Asp Ser Thr Tyr Tyr Ser Ser Phe
1               5


<210> 2368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*01:01,HLA-A*26:01

<400> 2368
Asp Ser Thr Tyr Tyr Ser Ser Phe Tyr
1               5


<210> 2369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*26:01,HLA-A*33:03

<400> 2369
Glu Ala Phe Ser Lys Pro Ser Thr Pro
1               5


<210> 2370
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*51:01

<400> 2370
Glu Ala Pro His Ala Pro Gly Val
1               5


<210> 2371
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;

HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02

<400> 2371
Glu Asp Ala Pro Ser Tyr Pro Glu Ala Arg
1 5 10

<210> 2372
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*18:01

<400> 2372
Glu Glu Glu Leu Gly Ile Ser His
1 5

<210> 2373
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*27:02,HLA-B*40:01,HLA-B*44:02

<400> 2373
Glu Glu Glu Leu Gly Ile Ser His Pro Ile
1 5 10

<210> 2374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 2374
Glu Glu Leu Gly Ile Ser His Pro Ile
1 5

<210> 2375
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*33:01

<400> 2375
Glu Asn Arg His Ala Met Ser Ser Gln Tyr Arg
1 5 10

<210> 2376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*25:01,HLA-A*26:01,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*39:01,HLA-B*55:01

<400> 2376
Glu Pro Ala Ser Glu Pro Ser Ser Phe
1 5

<210> 2377
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*26:01

<400> 2377
Glu Val Gly Asn Pro Leu Gly Gly Ser Pro Val
1 5 10

<210> 2378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*29:02

<400> 2378
Phe Phe Thr Phe Glu Asp Ala Pro Ser Tyr
1 5 10

<210> 2379
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*08:01,HLA-B*40:02,HLA-B*46:01,HLA-C*03:04

<400> 2379
Phe Gly Lys Ala Ser Gly Ala Leu
1 5

<210> 2380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:03,HLA-B*40:02,HLA-B*46:01,HLA-C*02:02,HLA-C*12:03

<400> 2380
Phe Gly Lys Ala Ser Gly Ala Leu Val
1 5

<210> 2381
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*54:01

<400> 2381
Phe Gly Lys Ala Ser Gly Ala Leu Val Gly Ala
1 5 10

<210> 2382
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*35:01

<400> 2382
Phe Pro Tyr Tyr Asn Asn Leu Tyr
1 5

<210> 2383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*46:01

<400> 2383
Phe Ser Lys Pro Ser Thr Pro Ser Glu
1 5

<210> 2384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:05,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,

<220>
<223> HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*16:01,HLA-C*16:04

<400> 2384
Phe Thr Phe Glu Asp Ala Pro Ser Tyr
1 5

<210> 2385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*24:02,HLA-A*29:02

<400> 2385
Phe Tyr Gln Pro Ser Leu Phe Pro Tyr
1 5

<210> 2386
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*24:02,HLA-A*29:02,HLA-A*30:02

<400> 2386
Phe Tyr Gln Pro Ser Leu Phe Pro Tyr Tyr
1 5 10

<210> 2387
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*11:01,HLA-B*27:02

<400> 2387
Gly Ala Ser Asp Leu Gly Ala Gly Ser Lys
1 5 10

<210> 2388
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-B*27:05

<400> 2388
Gly Ala Ser Asp Leu Gly Ala Gly Ser Lys Lys
1 5 10

<210> 2389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*49:01

<400> 2389
Gly Glu Val Gly Asn Pro Leu Gly Gly
1 5

<210> 2390
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*27:05

<400> 2390
Gly Glu Val Gly Asn Pro Leu Gly Gly Ser
1 5 10

<210> 2391
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*39:01,HLA-B*40:02,HLA-C*16:04

<400> 2391
Gly Glu Val Gly Asn Pro Leu Gly Gly Ser Pro
1 5 10

<210> 2392
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*13:02,HLA-B*15:03,
HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*58:01,HLA-C*06:02,HLA-C*16:01,HLA-C*16:02

<400> 2392
Gly Gly Ser Pro Val Lys Asn Ser Leu
1 5

<210> 2393
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 2393
Gly His Val Glu Asn Thr Pro Asp Leu
1 5

<210> 2394
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*39:01

<400> 2394
Gly His Val Glu Asn Thr Pro Asp Leu Val
1 5 10

<210> 2395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*56:01

<400> 2395
Gly Pro Tyr Val Pro Gly Gln Thr Gly
1 5

<210> 2396
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*13:02

<400> 2396
Gly Gln Ser Val Pro Gln Phe Phe
1 5

<210> 2397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*13:02

<400> 2397
Gly Gln Ser Val Pro Gln Phe Phe Thr
1 5

<210> 2398
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*13:02,HLA-B*27:05

<400> 2398
Gly Gln Thr Gly Asn Gln Trp Gln Met
1 5

<210> 2399
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*27:05

<400> 2399
Gly Arg Ala Gly Gly Phe Gly Lys
1 5

<210> 2400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*08:01,HLA-C*01:02

<400> 2400
Gly Ser Pro Val Lys Asn Ser Leu
1 5

<210> 2401
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 2401

His Ala Met Ser Ser Gln Tyr Arg
1               5


<210> 2402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*58:01

<400> 2402
His Ala Met Ser Ser Gln Tyr Arg Met
1               5


<210> 2403
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*68:01,HLA-C*07:06

<400> 2403
His Ala Pro Gly Val Pro Pro Gln Gly Arg
1               5                   10


<210> 2404
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*11:01,HLA-B*51:01,HLA-C*06:02

<400> 2404
His Gly Tyr Ala Ser Pro Leu Lys
1               5


<210> 2405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*13:02,HLA-C*06:02

<400> 2405
His Gly Tyr Ala Ser Pro Leu Lys Gly
1               5


<210> 2406
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2406
His Pro Ile Pro Leu Pro Ser Ala
1               5


<210> 2407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2407
His Pro Ile Pro Leu Pro Ser Ala Ala
1               5


<210> 2408
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*35:01,HLA-B*35:03

<400> 2408
His Pro Ile Pro Leu Pro Ser Ala Ala Glu Leu
1               5                   10


<210> 2409
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,
HLA-A*68:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,

<220>
<223> HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03,HLA-C*16:01

<400> 2409
His Ser Tyr Tyr Pro Pro Pro Ser Tyr
1 5

<210> 2410
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:01,HLA-A*68:02

<400> 2410
His Ser Tyr Tyr Pro Pro Pro Ser Tyr Leu
1 5 10

<210> 2411
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*08:01,HLA-C*16:01

<400> 2411
Ile Ala Glu Arg Gln Arg Val Met
1 5

<210> 2412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*56:01,HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,HLA-C*14:02

<400> 2412
Ile Pro Leu Pro Ser Ala Ala Glu Leu

1 5

<210> 2413
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*35:03

<400> 2413
Ile Pro Leu Pro Ser Ala Ala Glu Leu Leu
1 5 10

<210> 2414
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-B*51:01,HLA-B*54:01

<400> 2414
Ile Pro Leu Pro Ser Ala Ala Glu Leu Leu Val
1 5 10

<210> 2415
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*54:01

<400> 2415
Ile Ser His Pro Ile Pro Leu Pro Ser Ala
1 5 10

<210> 2416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*32:01,HLA-B*55:01,HLA-B*56:01

<400> 2416
Lys Ala Ser Gly Ala Leu Val Gly Ala
1               5


<210> 2417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*07:02

<400> 2417
Lys Pro Ser Thr Pro Ser Glu Ala Pro
1               5


<210> 2418
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*39:01

<400> 2418
Leu Ala Ala Asp Ser Ala Ser Gly Glu Val
1               5                   10


<210> 2419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*29:02

<400> 2419
Leu Phe Pro Tyr Tyr Asn Asn Leu Tyr
1               5


<210> 2420
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; DMRT1; ENSG00000137090;

HLA -A*32:01

<400> 2420
Leu Gly Ala Gly Ser Lys Lys Ser Pro
1 5

<210> 2421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*08:01,HLA-C*16:01

<400> 2421
Leu Ile Ala Glu Arg Gln Arg Val Met
1 5

<210> 2422
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*35:03

<400> 2422
Leu Pro Ser Ala Ala Glu Leu Leu
1 5

<210> 2423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 2423
Leu Pro Ser Ala Ala Glu Leu Leu Val
1 5

<210> 2424
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2424
Leu Ser Ser Ser Ser Pro Ile Ser Asn Lys
1 5 10

<210> 2425
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:02,HLA-B*39:01

<400> 2425
Leu Val Ser Asp Ser Thr Tyr Tyr
1 5

<210> 2426
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*25:01

<400> 2426
Leu Val Ser Asp Ser Thr Tyr Tyr Ser Ser Phe
1 5 10

<210> 2427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*24:02

<400> 2427
Leu Tyr Asn Cys Pro Gln Tyr Ser Met
1 5

<210> 2428
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 2428
Met Ala Ala Gln Val Ala Leu Arg
1 5

<210> 2429
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-C*07:06

<400> 2429
Met Ala Ala Gln Val Ala Leu Arg Arg
1 5

<210> 2430
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*54:01

<400> 2430
Met Ala Leu Ala Ala Asp Ser Ala
1 5

<210> 2431
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:02

<400> 2431
Met Ser Ser Gln Tyr Arg Met His Ser Tyr
1 5 10

<210> 2432

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*25:01,
HLA-A*26:01,HLA-A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*35:01,
HLA-B*35:03,HLA-B*40:02,HLA-B*46:01,HLA-B*54:01,HLA-B*55:01,

<220>
<223> HLA-B*56:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04

<400> 2432
Met Val Ile Gln Asp Ile Pro Ala Val
1 5

<210> 2433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*01:02

<400> 2433
Asn Cys Pro Gln Tyr Ser Met Ala Leu
1 5

<210> 2434
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*08:01

<400> 2434
Asn Met Glu Asn Arg His Ala Met
1 5

<210> 2435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*29:02,HLA-C*07:01

<400> 2435
Asn Asn Leu Tyr Asn Cys Pro Gln Tyr
1               5


<210> 2436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*35:01,HLA-B*35:03

<400> 2436
Asn Pro Leu Gly Gly Ser Pro Val Lys
1               5


<210> 2437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*30:02,HLA-B*27:02,HLA-B*27:05,HLA-C*07:01,HLA-C*16:04

<400> 2437
Asn Arg His Ala Met Ser Ser Gln Tyr
1               5


<210> 2438
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*01:01,HLA-A*30:02

<400> 2438
Asn Ser Leu Arg Gly Leu Pro Gly Pro Tyr
1               5                   10


<210> 2439
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01

<400> 2439
Asn Thr Pro Asp Leu Val Ser Asp Ser Thr Tyr
1 5 10

<210> 2440
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*07:01

<400> 2440
Pro Asp Leu Val Ser Asp Ser Thr Tyr Tyr
1 5 10

<210> 2441
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*18:01

<400> 2441
Pro Glu Ala Arg Ala Ser Val Phe
1 5

<210> 2442
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:02

<400> 2442
Pro Leu Gly Gly Ser Pro Val Lys
1 5

<210> 2443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*56:01

<400> 2443
Pro Pro Ala Ser Val Pro Thr Thr Ala
1 5

<210> 2444
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*56:01

<400> 2444
Pro Pro Ala Ser Val Pro Thr Thr Ala Ala
1 5 10

<210> 2445
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*57:01

<400> 2445
Pro Ser Tyr Pro Glu Ala Arg Ala Ser Val Phe
1 5 10

<210> 2446
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-A*24:02

<400> 2446
Pro Tyr Val Pro Gly Gln Thr Gly Asn Gln Trp
1 5 10

<210> 2447
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*27:02,HLA-C*07:06

<400> 2447
Gln Asp Ile Pro Ala Val Thr Ser Arg
1 5

<210> 2448
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*37:01

<400> 2448
Gln Asp Ser Gly Leu Val Ser Leu
1 5

<210> 2449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*18:01

<400> 2449
Gln Glu Glu Glu Leu Gly Ile Ser His
1 5

<210> 2450
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*29:02

<400> 2450
Gln Phe Phe Thr Phe Glu Asp Ala Pro Ser Tyr
1 5 10

<210> 2451
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2451
Gln Pro Pro Pro Ala Ser Val Pro Thr Thr Ala
1 5 10

<210> 2452
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*13:02,HLA-B*38:01

<400> 2452
Gln Gln Ala Gln Glu Glu Glu Leu Gly Ile
1 5 10

<210> 2453
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*27:02,HLA-B*27:05

<400> 2453
Gln Arg Val Met Ala Ala Gln Val Ala Leu
1 5 10

<210> 2454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 2454
Gln Ser Val Pro Gln Phe Phe Thr Phe

1 5

<210> 2455
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 2455
Arg Glu Asn Asn Gly Ser Asn Pro Cys Leu
1 5 10

<210> 2456
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*40:01

<400> 2456
Arg Glu Asn Asn Gly Ser Asn Pro Cys Leu Met
1 5 10

<210> 2457
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:01

<400> 2457
Arg Met Val Ile Gln Asp Ile Pro Ala Val
1 5 10

<210> 2458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*13:02

<400> 2458
Arg Gln Arg Val Met Ala Ala Gln Val
1               5


<210> 2459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*02:04,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,
      HLA-A*31:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*13:02,
      HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-B*56:01,HLA-B*58:01,

<220>
<223> HLA-C*01:02,HLA-C*03:04,HLA-C*07:02

<400> 2459
Arg Val Met Ala Ala Gln Val Ala Leu
1               5


<210> 2460
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,
      HLA-A*68:01,HLA-B*27:02,HLA-B*57:01

<400> 2460
Arg Val Met Ala Ala Gln Val Ala Leu Arg
1               5                   10


<210> 2461
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*03:01,HLA-A*31:01

<400> 2461
Arg Val Met Ala Ala Gln Val Ala Leu Arg Arg
1               5                   10


<210> 2462

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*11:01,HLA-A*26:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-C*07:06

<400> 2462
Ser Ala Ala Glu Leu Leu Val Lys Arg
1 5

<210> 2463
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*68:01,HLA-B*07:02,HLA-B*27:05,HLA-B*35:03,HLA-B*39:01,
HLA-B*40:01,HLA-C*03:03,HLA-C*03:04,HLA-C*07:06

<400> 2463
Ser Ala Ser Gly Glu Val Gly Asn Pro Leu
1 5 10

<210> 2464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*37:01

<400> 2464
Ser Asp Ser Thr Tyr Tyr Ser Ser Phe
1 5

<210> 2465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:01,HLA-B*13:02,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*02:02

<400> 2465

Ser Glu Ala Pro His Ala Pro Gly Val
1               5


<210> 2466
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*49:01

<400> 2466
Ser Glu Pro Ser Ser Phe Thr Val
1               5


<210> 2467
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*23:01

<400> 2467
Ser Phe Thr Val Thr Pro Val Ile
1               5


<210> 2468
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*23:01

<400> 2468
Ser Phe Tyr Gln Pro Ser Leu Phe
1               5


<210> 2469
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*29:02

<400> 2469
Ser Phe Tyr Gln Pro Ser Leu Phe Pro Tyr
1               5                   10


<210> 2470
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*29:02,HLA-A*30:02

<400> 2470
Ser Phe Tyr Gln Pro Ser Leu Phe Pro Tyr Tyr
1               5                   10


<210> 2471
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -C*07:04

<400> 2471
Ser Gly Ala Leu Val Gly Ala Ala Ser Gly Ser
1               5                   10


<210> 2472
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -B*54:01

<400> 2472
Ser Gly Thr Ser Gln Pro Pro Pro Ala
1               5


<210> 2473
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 2473
Ser Leu Phe Pro Tyr Tyr Asn Asn Leu
1 5

<210> 2474
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*29:02,HLA-A*30:02

<400> 2474
Ser Leu Phe Pro Tyr Tyr Asn Asn Leu Tyr
1 5 10

<210> 2475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:02,HLA-B*46:01

<400> 2475
Ser Leu Arg Gly Leu Pro Gly Pro Tyr
1 5

<210> 2476
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:03

<400> 2476
Ser Leu Arg Gly Leu Pro Gly Pro Tyr Val
1 5 10

<210> 2477
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2477
Ser Leu Ser Ser Ser Ser Pro Ile Ser Asn Lys
1 5 10

<210> 2478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 2478
Ser Pro Ile Ser Asn Lys Ser Thr Lys
1 5

<210> 2479
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2479
Ser Pro Ile Ser Asn Lys Ser Thr Lys Ala
1 5 10

<210> 2480
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 2480
Ser Pro Ile Ser Asn Lys Ser Thr Lys Ala Val
1 5 10

<210> 2481
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02

<400> 2481
Ser Pro Pro Ser Ser Gln Asp Ser Gly Leu
1 5 10

<210> 2482
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02

<400> 2482
Ser Pro Val Lys Asn Ser Leu Arg Gly Leu
1 5 10

<210> 2483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,HLA-B*27:05,
HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-C*05:01

<400> 2483
Ser Gln Asp Ser Gly Leu Val Ser Leu
1 5

<210> 2484
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03

<400> 2484
Ser Gln Tyr Arg Met His Ser Tyr
1 5

<210> 2485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*30:02

<400> 2485
Ser Gln Tyr Arg Met His Ser Tyr Tyr
1 5

<210> 2486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*13:02,HLA-B*58:01

<400> 2486
Ser Ser Phe Thr Val Thr Pro Val Ile
1 5

<210> 2487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*57:01,HLA-C*02:02

<400> 2487
Ser Ser Phe Tyr Gln Pro Ser Leu Phe
1 5

<210> 2488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01

<400> 2488
Ser Ser Gln Tyr Arg Met His Ser Tyr

1 5

<210> 2489
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:02,HLA-A*11:01

<400> 2489
Ser Ser Ser Pro Ile Ser Asn Lys
1 5

<210> 2490
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01

<400> 2490
Ser Ser Ser Pro Ile Ser Asn Lys Ser Thr Lys
1 5 10

<210> 2491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 2491
Ser Ser Ser Ser Pro Ile Ser Asn Lys
1 5

<210> 2492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*26:01,HLA-A*31:01

<400> 2492
Ser Val Phe Ser Pro Pro Ser Ser Gln
1               5


<210> 2493
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*23:01,HLA-A*24:02

<400> 2493
Ser Tyr Leu Gly Gln Ser Val Pro Gln Phe
1               5                   10


<210> 2494
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*23:01,HLA-A*24:02

<400> 2494
Ser Tyr Leu Gly Gln Ser Val Pro Gln Phe Phe
1               5                   10


<210> 2495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -C*01:02

<400> 2495
Ser Tyr Pro Glu Ala Arg Ala Ser Val
1               5


<210> 2496
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 2496
Ser Tyr Pro Glu Ala Arg Ala Ser Val Phe
1 5 10

<210> 2497
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:03,
HLA-B*39:01,HLA-C*14:02

<400> 2497
Ser Tyr Tyr Pro Pro Pro Ser Tyr
1 5

<210> 2498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:04,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,
HLA-A*31:01,HLA-B*07:02,HLA-C*04:01,HLA-C*14:02

<400> 2498
Ser Tyr Tyr Pro Pro Pro Ser Tyr Leu
1 5

<210> 2499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*16:02

<400> 2499
Thr Ala Ala Ser Glu Gly Arg Met Val
1 5

<210> 2500
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*06:02

<400> 2500
Thr Glu Cys Ser Gly Thr Ser Gln Pro Pro Pro
1 5 10

<210> 2501
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*14:02

<400> 2501
Thr Phe Glu Asp Ala Pro Ser Tyr
1 5

<210> 2502
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-B*35:01,HLA-B*55:01,HLA-C*03:03

<400> 2502
Thr Pro Asp Leu Val Ser Asp Ser Thr Tyr
1 5 10

<210> 2503
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-B*35:01,HLA-B*55:01,HLA-C*03:03

<400> 2503
Thr Pro Asp Leu Val Ser Asp Ser Thr Tyr Tyr
1 5 10

<210> 2504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:03,HLA-A*32:01,HLA-B*46:01,HLA-B*56:01,HLA-C*06:02

<400> 2504
Thr Ser Gln Pro Pro Pro Ala Ser Val
1 5

<210> 2505
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*27:05

<400> 2505
Thr Val Thr Pro Val Ile Glu Glu Asp Glu
1 5 10

<210> 2506
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*49:01

<400> 2506
Val Glu Asn Thr Pro Asp Leu Val
1 5

<210> 2507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*46:01,HLA-C*03:04,HLA-C*14:02

<400> 2507
Val Gly Ala Ala Ser Gly Ser Ser Ala
1 5

<210> 2508
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*07:02

<400> 2508
Val Gly Ala Ala Ser Gly Ser Ser Ala Gly Gly
1 5 10

<210> 2509
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:03,HLA-B*39:01,HLA-B*46:01,HLA-C*01:02,HLA-C*04:01,
HLA-C*14:02

<400> 2509
Val Gly Asn Pro Leu Gly Gly Ser Pro Val
1 5 10

<210> 2510
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-B*27:05

<400> 2510
Val Gly Asn Pro Leu Gly Gly Ser Pro Val Lys
1 5 10

<210> 2511
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 2511
Val Ile Gln Asp Ile Pro Ala Val
1               5


<210> 2512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*02:03,HLA-A*03:02,HLA-A*32:01,HLA-B*39:01,HLA-C*12:03

<400> 2512
Val Ile Gln Asp Ile Pro Ala Val Thr
1               5


<210> 2513
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*03:02

<400> 2513
Val Ile Gln Asp Ile Pro Ala Val Thr Ser
1               5                   10


<210> 2514
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
      HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
      HLA-A*68:01,HLA-C*07:06

<400> 2514
Val Ile Gln Asp Ile Pro Ala Val Thr Ser Arg
1               5                   10


<210> 2515
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:03,HLA-A*03:01,HLA-A*03:02,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*27:05,HLA-C*07:06

<400> 2515
Val Met Ala Ala Gln Val Ala Leu Arg
1 5

<210> 2516
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*03:01

<400> 2516
Val Met Ala Ala Gln Val Ala Leu Arg Arg
1 5 10

<210> 2517
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02

<400> 2517
Val Pro Pro Gln Gly Arg Ala Gly Gly Phe
1 5 10

<210> 2518
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-C*05:01

<400> 2518
Val Ser Asp Ser Thr Tyr Tyr Ser Ser Phe
1 5 10

<210> 2519
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01

<400> 2519
Val Ser Asp Ser Thr Tyr Tyr Ser Ser Phe Tyr
1 5 10

<210> 2520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01

<400> 2520
Tyr Leu Gly Gln Ser Val Pro Gln Phe
1 5

<210> 2521
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -C*07:01,HLA-C*07:02

<400> 2521
Tyr Asn Cys Pro Gln Tyr Ser Met Ala Leu
1 5 10

<210> 2522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*55:01,HLA-C*03:03,HLA-C*07:02

<400> 2522
Tyr Pro Glu Ala Arg Ala Ser Val Phe
1 5

<210> 2523
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 2523
Tyr Pro Pro Pro Ser Tyr Leu Gly Gln Ser Val
1 5 10

<210> 2524
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*01:01,HLA-A*02:07,HLA-A*24:02,HLA-A*26:01,HLA-A*29:02

<400> 2524
Tyr Gln Pro Ser Leu Phe Pro Tyr Tyr
1 5

<210> 2525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*02:04,HLA-A*68:02,HLA-B*27:05,HLA-B*35:03,HLA-B*58:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,HLA-C*16:02

<400> 2525
Tyr Ser Ser Phe Tyr Gln Pro Ser Leu
1 5

<210> 2526
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*58:01,HLA-C*07:04

<400> 2526
Tyr Val Pro Gly Gln Thr Gly Asn Gln Trp

1 5 10

<210> 2527
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-A*24:02,HLA-C*04:01

<400> 2527
Tyr Tyr Pro Pro Pro Ser Tyr Leu
1 5

<210> 2528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*24:02,HLA-A*29:02

<400> 2528
Tyr Tyr Pro Pro Pro Ser Tyr Leu Gly
1 5

<210> 2529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*23:01,HLA-A*24:02

<400> 2529
Tyr Tyr Ser Ser Phe Tyr Gln Pro Ser Leu
1 5 10

<210> 2530
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DMRT1; ENSG00000137090;
HLA -A*24:02

<400> 2530
Tyr Tyr Ser Ser Phe Tyr Gln Pro Ser Leu Phe
1               5                   10


<210> 2531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*54:01,HLA-B*56:01

<400> 2531
Ala Ala Arg Ala Val Gln Pro Lys Ala
1               5


<210> 2532
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*07:02,HLA-B*40:02,HLA-C*07:02

<400> 2532
Ala Ala Arg Ala Val Gln Pro Lys Ala Leu
1               5                   10


<210> 2533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 2533
Ala Glu Glu Thr Asn Thr Val Glu Val
1               5


<210> 2534
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;

HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 2534
Ala Glu Glu Thr Asn Thr Val Glu Val Ile
1 5 10

<210> 2535
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*31:01

<400> 2535
Ala Gly Gln Ala Trp Val Pro Thr Thr His Arg
1 5 10

<210> 2536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01,HLA-B*55:01

<400> 2536
Ala Leu Asn Ser Cys Ser Ile Pro Val
1 5

<210> 2537
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:07

<400> 2537
Ala Leu Pro Leu Pro Thr Ile Leu Pro Pro Ile
1 5 10

<210> 2538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:04

<400> 2538
Ala Met Leu Ala Ser Trp Ala Arg Ile
1 5

<210> 2539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-B*07:02,HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*56:01

<400> 2539
Ala Pro Gly Ala Met Leu Ala Ser Trp
1 5

<210> 2540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*07:02,HLA-C*07:02

<400> 2540
Ala Pro Gln Lys Ala Arg Cys Lys Ile
1 5

<210> 2541
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*32:01,HLA-B*07:02,HLA-B*27:02,HLA-B*27:05,HLA-B*39:01,
HLA-C*06:02,HLA-C*07:02,HLA-C*12:03,HLA-C*16:01,HLA-C*16:04

<400> 2541
Ala Arg Ala Val Gln Pro Lys Ala Leu
1 5

<210> 2542

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -C*06:02

<400> 2542
Ala Arg Ile Ala Ala Arg Ala Val
1 5

<210> 2543
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:05

<400> 2543
Ala Arg Ile Ala Ala Arg Ala Val Gln Pro
1 5 10

<210> 2544
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:05,HLA-C*06:02

<400> 2544
Ala Arg Ile Ala Ala Arg Ala Val Gln Pro Lys
1 5 10

<210> 2545
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*08:01,HLA-B*27:05,HLA-B*37:01,HLA-C*16:01,HLA-C*16:04

<400> 2545
Ala Arg Leu Gln Arg Ser Tyr Glu Met
1 5

<210> 2546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-B*57:01

<400> 2546
Ala Ser Trp Ala Arg Ile Ala Ala Arg
1 5

<210> 2547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -C*01:02,HLA-C*14:02

<400> 2547
Ala Tyr Pro Glu Gln Arg Gln Asp Met
1 5

<210> 2548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*46:01,HLA-B*54:01,HLA-B*56:01

<400> 2548
Cys Ser Ile Pro Val Ser Val Glu Ala
1 5

<210> 2549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*15:03,HLA-B*57:01,HLA-B*58:01

<400> 2549
Cys Ser Ile Pro Val Ser Val Glu Ala Phe

1 5 10

<210> 2550
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*54:01

<400> 2550
Cys Val Val His Gly Arg Leu Leu Ser Ala
1 5 10

<210> 2551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:01,HLA-B*51:01

<400> 2551
Asp Ala Asn Leu Asp Ser Ser Lys Lys
1 5

<210> 2552
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:01

<400> 2552
Asp Ala Asn Leu Asp Ser Ser Lys Lys Asn Phe
1 5 10

<210> 2553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-B*18:01,HLA-B*38:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03

<400> 2553
Asp Glu Glu Ser Val Ile Leu Thr Leu
1               5


<210> 2554
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*02:07

<400> 2554
Asp Met Pro Glu Met Ser Gln Glu Thr Arg Leu
1               5                   10


<210> 2555
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*08:01

<400> 2555
Asp Ser Ser Lys Lys Asn Phe Leu
1               5


<210> 2556
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*08:01

<400> 2556
Asp Thr Lys Gly Trp Val Arg Leu
1               5


<210> 2557
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:01

<400> 2557
Asp Val Lys Leu Glu Lys Pro Lys Lys
1 5

<210> 2558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*26:01,HLA-B*54:01

<400> 2558
Glu Ala Phe Leu Met Gln Ala Ser Gly
1 5

<210> 2559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*51:01

<400> 2559
Glu Ala Phe Leu Met Gln Ala Ser Gly Val
1 5 10

<210> 2560
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*68:01

<400> 2560
Glu Ala Phe Leu Met Gln Ala Ser Gly Val Arg
1 5 10

<210> 2561
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 2561
Glu Glu Ser Val Ile Leu Thr Leu
1 5

<210> 2562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*68:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 2562
Glu Glu Ser Val Ile Leu Thr Leu Val
1 5

<210> 2563
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*18:01,HLA-B*49:01

<400> 2563
Glu Glu Thr Asn Thr Val Glu Val
1 5

<210> 2564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-A*68:02,HLA-B*18:01,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 2564
Glu Glu Thr Asn Thr Val Glu Val Ile
1 5

<210> 2565
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:05,HLA-B*39:01

<400> 2565
Glu Glu Thr Asn Thr Val Glu Val Ile Thr Ser
1 5 10

<210> 2566
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:03

<400> 2566
Glu Met Ser Gln Glu Thr Arg Leu Gln Arg
1 5 10

<210> 2567
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*68:01

<400> 2567
Glu Pro Ser Val Ser Ser Thr Ser Asp Val Lys
1 5 10

<210> 2568
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:03,HLA-A*68:01,HLA-B*13:02,
HLA-B*27:02,HLA-B*27:05,HLA-C*07:01

<400> 2568
Glu Gln Phe Thr Ala Pro Gln Lys

1 5

<210> 2569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*26:01,HLA-B*13:02,HLA-B*39:01

<400> 2569
Glu Gln Phe Thr Ala Pro Gln Lys Ala
1 5

<210> 2570
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:03,HLA-A*68:01

<400> 2570
Glu Gln Phe Thr Ala Pro Gln Lys Ala Arg
1 5 10

<210> 2571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*39:01

<400> 2571
Glu Gln Met Glu Pro Ser Val Ser Ser
1 5

<210> 2572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*26:01,HLA-B*15:01

<400> 2572
Glu Gln Arg Gln Asp Met Pro Glu Met
1               5


<210> 2573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*38:01,HLA-B*39:01

<400> 2573
Glu Arg Ala Glu Glu Thr Asn Thr Val
1               5


<210> 2574
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*68:02

<400> 2574
Glu Ser Val Ile Leu Thr Leu Val Pro Val
1               5                   10


<210> 2575
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*68:01

<400> 2575
Glu Ser Val Ile Leu Thr Leu Val Pro Val Lys
1               5                   10


<210> 2576
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;

HLA -A*33:03

<400> 2576
Glu Thr Asn Thr Val Glu Val Ile
1 5

<210> 2577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:03

<400> 2577
Glu Thr Asn Thr Val Glu Val Ile Thr
1 5

<210> 2578
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:03,HLA-A*68:01

<400> 2578
Glu Thr Asn Thr Val Glu Val Ile Thr Ser
1 5 10

<210> 2579
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*26:01,HLA-A*68:01

<400> 2579
Glu Thr Asn Thr Val Glu Val Ile Thr Ser Ala
1 5 10

<210> 2580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:01,HLA-A*33:03

<400> 2580
Glu Thr Arg Leu Gln Arg Cys Ser Arg
1 5

<210> 2581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -C*05:01

<400> 2581
Glu Val Asp Asp Glu Glu Ser Val Ile
1 5

<210> 2582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*39:01

<400> 2582
Glu Val Asp Asp Glu Glu Ser Val Ile Leu
1 5 10

<210> 2583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-A*26:01

<400> 2583
Glu Val Ile Thr Ser Ala Pro Gly Ala
1 5

<210> 2584
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-B*39:01

<400> 2584
Glu Val Ile Thr Ser Ala Pro Gly Ala Met
1 5 10

<210> 2585
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*35:03

<400> 2585
Glu Val Ile Thr Ser Ala Pro Gly Ala Met Leu
1 5 10

<210> 2586
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:03,HLA-B*08:01,HLA-B*13:02

<400> 2586
Phe Leu Met Gln Ala Ser Gly Val
1 5

<210> 2587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*24:02,HLA-A*25:01,HLA-A*29:02,HLA-B*44:02,HLA-B*57:01

<400> 2587
Phe Leu Met Gln Ala Ser Gly Val Arg Trp
1 5 10

<210> 2588

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,HLA-C*03:03

<400> 2588
Phe Pro Ser Pro Gly Ile Glu Asp Asn Met
1 5 10

<210> 2589
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01

<400> 2589
Phe Pro Ser Pro Gly Ile Glu Asp Asn Met Leu
1 5 10

<210> 2590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 2590
Gly Glu Val Asp Asp Glu Glu Ser Val
1 5

<210> 2591
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 2591
Gly Glu Val Asp Asp Glu Glu Ser Val Ile
1 5 10

<210> 2592
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-B*40:01

<400> 2592
Gly Glu Val Asp Asp Glu Glu Ser Val Ile Leu
1 5 10

<210> 2593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*38:01,HLA-B*39:01

<400> 2593
Gly His Leu Leu Gln Thr Asn Glu Gln Phe
1 5 10

<210> 2594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:03

<400> 2594
Gly Leu Ser Thr Asn Gly Lys Lys Ile
1 5

<210> 2595
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01

<400> 2595
Gly Leu Ser Thr Asn Gly Lys Lys Ile Glu Val

1 5 10

<210> 2596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:02,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:05

<400> 2596
Gly Gln Ala Trp Val Pro Thr Thr His
1 5

<210> 2597
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*31:01

<400> 2597
Gly Gln Ala Trp Val Pro Thr Thr His Arg
1 5 10

<210> 2598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:02,HLA-B*27:05

<400> 2598
Gly Arg Leu Leu Ser Ala Asp Thr Lys
1 5

<210> 2599
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:02

<400> 2599
Gly Arg Leu Leu Ser Ala Asp Thr Lys Gly Trp
1               5                   10


<210> 2600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 2600
His Ala Tyr Pro Glu Gln Arg Gln Asp Met
1               5                   10


<210> 2601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:01,HLA-B*37:01,
      HLA-B*38:01

<400> 2601
His Leu Leu Gln Thr Asn Glu Gln Phe
1               5


<210> 2602
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*02:04

<400> 2602
His Leu Leu Gln Thr Asn Glu Gln Phe Thr Ala
1               5                   10


<210> 2603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,
HLA-B*27:02,HLA-B*27:05,HLA-C*04:01,HLA-C*06:02,HLA-C*07:01,
HLA-C*07:06,HLA-C*16:01

<400> 2603
Ile Ala Ala Arg Ala Val Gln Pro Lys
1 5

<210> 2604
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*29:02

<400> 2604
Ile Phe Pro Ser Pro Gly Ile Glu Asp Asn Met
1 5 10

<210> 2605
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07

<400> 2605
Ile Leu Pro Pro Ile Asn Lys Val
1 5

<210> 2606
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:02

<400> 2606
Ile Leu Thr Leu Val Pro Val Lys
1 5

<210> 2607

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-B*07:02,HLA-B*13:02,
HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*49:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-B*58:01,HLA-C*07:02,

<220>
<223> HLA-C*16:02

<400> 2607
Ile Pro Ala Leu Pro Leu Pro Thr Ile
1 5

<210> 2608
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*07:02,HLA-B*35:03,HLA-B*56:01

<400> 2608
Ile Pro Ala Leu Pro Leu Pro Thr Ile Leu
1 5 10

<210> 2609
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*54:01

<400> 2609
Ile Pro Ala Leu Pro Leu Pro Thr Ile Leu Pro
1 5 10

<210> 2610
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*23:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,

HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,HLA-B*39:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2610
Ile Pro Val Ser Val Glu Ala Phe
1 5

<210> 2611
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*23:01,HLA-A*68:02,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2611
Ile Pro Val Ser Val Glu Ala Phe Leu
1 5

<210> 2612
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:02,HLA-B*35:01,HLA-B*35:03

<400> 2612
Ile Pro Val Ser Val Glu Ala Phe Leu Met
1 5 10

<210> 2613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*23:01,HLA-A*32:01,HLA-A*68:02,HLA-B*07:02,
HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:02,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,

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<223> HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*06:02,HLA-C*07:04,
HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02

<400> 2613
Ile Thr Ser Ala Pro Gly Ala Met Leu

1 5

<210> 2614
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01,HLA-A*02:07,HLA-A*24:02

<400> 2614
Lys Ile Pro Ala Leu Pro Leu Pro Thr Ile
1 5 10

<210> 2615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*15:03

<400> 2615
Lys Lys Tyr Asn Pro Gly His Leu Leu
1 5

<210> 2616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01,HLA-A*02:03,HLA-B*08:01

<400> 2616
Lys Met Met Lys Arg Leu Met Thr Val
1 5

<210> 2617
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:02,HLA-B*27:05,HLA-C*06:02,HLA-C*07:01

<400> 2617
Lys Arg Leu Met Thr Val Glu Lys
1               5


<210> 2618
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*23:01,HLA-A*24:02,HLA-B*58:01

<400> 2618
Lys Tyr Asn Pro Gly His Leu Leu
1               5


<210> 2619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*24:02

<400> 2619
Lys Tyr Asn Pro Gly His Leu Leu Gln
1               5


<210> 2620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*54:01,HLA-B*56:01

<400> 2620
Leu Ala Ser Trp Ala Arg Ile Ala Ala
1               5


<210> 2621
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;

HLA -B*37:01

<400> 2621
Leu Asp Ser Ser Lys Lys Asn Phe
1 5

<210> 2622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*24:02,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 2622
Leu Met Gln Ala Ser Gly Val Arg Trp
1 5

<210> 2623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 2623
Leu Pro Ala Cys Ile Phe Pro Ser Pro
1 5

<210> 2624
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*51:01

<400> 2624
Leu Pro Ala Cys Ile Phe Pro Ser Pro Gly Ile
1 5 10

<210> 2625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*54:01,HLA-B*56:01

<400> 2625
Leu Pro Leu Pro Thr Ile Leu Pro Pro
1 5

<210> 2626
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*23:01,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 2626
Leu Pro Leu Pro Thr Ile Leu Pro Pro Ile
1 5 10

<210> 2627
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*51:01,HLA-B*54:01

<400> 2627
Leu Pro Thr Ile Leu Pro Pro Ile
1 5

<210> 2628
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 2628
Leu Pro Thr Ile Leu Pro Pro Ile Asn Lys Val
1 5 10

<210> 2629
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-A*32:01

<400> 2629
Leu Gln Phe His Ala Gly Gln Ala Trp
1 5

<210> 2630
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*57:01,HLA-B*58:01

<400> 2630
Leu Ser Ala Asp Thr Lys Gly Trp
1 5

<210> 2631
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*49:01

<400> 2631
Met Glu Pro Ser Val Ser Ser Thr Ser Asp Val
1 5 10

<210> 2632
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 2632
Met Glu Gln Met Glu Pro Ser Val
1 5

<210> 2633

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*54:01

<400> 2633
Met Ile Ser Leu Phe Leu Leu Pro Ala
1 5

<210> 2634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:03,HLA-A*02:04

<400> 2634
Met Leu Ala Ser Trp Ala Arg Ile Ala
1 5

<210> 2635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*54:01

<400> 2635
Met Leu Ala Ser Trp Ala Arg Ile Ala Ala
1 5 10

<210> 2636
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*31:01

<400> 2636
Met Leu Ala Ser Trp Ala Arg Ile Ala Ala Arg
1 5 10

<210> 2637
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*08:01

<400> 2637
Met Met Lys Arg Leu Met Thr Val
1 5

<210> 2638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*35:03,HLA-B*55:01

<400> 2638
Met Pro Glu Met Ser Gln Glu Thr Arg
1 5

<210> 2639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*03:03

<400> 2639
Met Pro Glu Met Ser Gln Glu Thr Arg Leu
1 5 10

<210> 2640
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-A*32:01,HLA-B*44:02,HLA-B*44:03

<400> 2640
Met Gln Ala Ser Gly Val Arg Trp

1 5

<210> 2641
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*01:01,HLA-B*27:02

<400> 2641
Met Ser Asp Ala Asn Leu Asp Ser Ser Lys
1 5 10

<210> 2642
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*31:01,HLA-A*33:03

<400> 2642
Met Ser Gln Glu Thr Arg Leu Gln Arg
1 5

<210> 2643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:02,HLA-A*11:01

<400> 2643
Asn Glu Gln Phe Thr Ala Pro Gln Lys
1 5

<210> 2644
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*49:01

<400> 2644
Asn Glu Arg Ala Glu Glu Thr Asn Thr Val
1               5                   10


<210> 2645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*46:01

<400> 2645
Asn Gly Lys Lys Ile Glu Val Tyr
1               5


<210> 2646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*32:01,HLA-C*04:01

<400> 2646
Asn Leu Asp Ser Ser Lys Lys Asn Phe
1               5


<210> 2647
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*02:07

<400> 2647
Asn Leu Asp Ser Ser Lys Lys Asn Phe Leu
1               5                   10


<210> 2648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;

HLA -A*02:01,HLA-B*55:01

<400> 2648
Asn Met Glu Gln Met Glu Pro Ser Val
1 5

<210> 2649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*68:02,HLA-C*12:03

<400> 2649
Asn Ser Cys Ser Ile Pro Val Ser Val
1 5

<210> 2650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*25:01,HLA-A*26:01,
HLA-A*68:02,HLA-B*46:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2650
Asn Thr Val Glu Val Ile Thr Ser Ala
1 5

<210> 2651
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*23:01,HLA-B*51:01

<400> 2651
Pro Ala Leu Pro Leu Pro Thr Ile
1 5

<210> 2652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-B*27:02,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 2652
Pro Glu Met Ser Gln Glu Thr Arg Leu
1 5

<210> 2653
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:04,HLA-A*02:07,HLA-A*24:02

<400> 2653
Pro Leu Pro Thr Ile Leu Pro Pro Ile
1 5

<210> 2654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2654
Pro Thr Ile Leu Pro Pro Ile Asn Lys
1 5

<210> 2655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*51:01,
HLA-B*57:01,HLA-C*07:06

<400> 2655
Gln Ala Trp Val Pro Thr Thr His Arg
1 5

<210> 2656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*33:01,HLA-A*33:03

<400> 2656
Gln Phe Thr Ala Pro Gln Lys Ala Arg
1 5

<210> 2657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*03:02

<400> 2657
Gln Leu Gly Leu Ser Thr Asn Gly Lys
1 5

<210> 2658
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*56:01

<400> 2658
Gln Pro Lys Ala Leu Asn Ser Cys
1 5

<210> 2659
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 2659
Gln Gln Leu Gly Leu Ser Thr Asn Gly Lys
1 5 10

<210> 2660
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:05

<400> 2660
Gln Arg Ser Tyr Glu Met Asn Glu Arg
1 5

<210> 2661
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 2661
Gln Thr Asn Glu Gln Phe Thr Ala Pro Gln Lys
1 5 10

<210> 2662
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -C*05:01

<400> 2662
Arg Ala Glu Glu Thr Asn Thr Val
1 5

<210> 2663
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -C*05:01

<400> 2663

Arg Ala Glu Glu Thr Asn Thr Val Glu Val
1 5 10

<210> 2664
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*08:01,HLA-B*58:01

<400> 2664
Arg Ala Val Gln Pro Lys Ala Leu
1 5

<210> 2665
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*03:02

<400> 2665
Arg Ile Ala Ala Arg Ala Val Gln Pro Lys
1 5 10

<210> 2666
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-B*57:01

<400> 2666
Arg Leu Leu Ser Ala Asp Thr Lys Gly Trp
1 5 10

<210> 2667
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:04

<400> 2667
Arg Met Ile Ser Leu Phe Leu Leu
1               5


<210> 2668
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*31:01

<400> 2668
Arg Ser Tyr Glu Met Asn Glu Arg
1               5


<210> 2669
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*25:01,HLA-A*26:01,HLA-B*44:02,HLA-B*57:01,HLA-B*58:01

<400> 2669
Ser Ala Pro Gly Ala Met Leu Ala Ser Trp
1               5                   10


<210> 2670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*27:02

<400> 2670
Ser Asp Ala Asn Leu Asp Ser Ser Lys
1               5


<210> 2671
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*11:01,HLA-B*27:02

<400> 2671
Ser Asp Ala Asn Leu Asp Ser Ser Lys Lys
1 5 10

<210> 2672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:07,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,
HLA-B*15:01,HLA-B*46:01,HLA-C*01:02,HLA-C*07:04,HLA-C*14:02

<400> 2672
Ser Ile Pro Val Ser Val Glu Ala Phe
1 5

<210> 2673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*30:01,HLA-B*13:02

<400> 2673
Ser Leu Phe Leu Leu Pro Ala Cys Ile
1 5

<210> 2674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*35:03

<400> 2674
Ser Pro Gly Ile Glu Asp Asn Met Leu
1 5

<210> 2675
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*11:01,HLA-C*07:06

<400> 2675
Ser Ser Thr Ser Asp Val Lys Leu Glu Lys
1 5 10

<210> 2676
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 2676
Ser Thr Asn Gly Lys Lys Ile Glu Val Tyr
1 5 10

<210> 2677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*13:02,HLA-B*27:05,HLA-B*57:01,HLA-C*07:06

<400> 2677
Ser Thr Ser Asp Val Lys Leu Glu Lys
1 5

<210> 2678
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:02,HLA-A*11:01

<400> 2678
Ser Thr Ser Asp Val Lys Leu Glu Lys Pro Lys
1 5 10

<210> 2679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*56:01

<400> 2679
Ser Val Ile Leu Thr Leu Val Pro Val
1 5

<210> 2680
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 2680
Ser Val Ile Leu Thr Leu Val Pro Val Lys
1 5 10

<210> 2681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:02,HLA-A*11:01

<400> 2681
Ser Val Ser Ser Thr Ser Asp Val Lys
1 5

<210> 2682
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*35:03

<400> 2682

Ser Val Ser Ser Thr Ser Asp Val Lys Leu
1               5                   10


<210> 2683
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2683
Thr Ile Leu Pro Pro Ile Asn Lys
1               5


<210> 2684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
      HLA-B*13:02,HLA-B*51:01,HLA-B*55:01

<400> 2684
Thr Ile Leu Pro Pro Ile Asn Lys Val
1               5


<210> 2685
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*31:01

<400> 2685
Thr Ile Leu Pro Pro Ile Asn Lys Val Cys Arg
1               5                   10


<210> 2686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;

HLA -A*02:03,HLA-A*02:04

<400> 2686
Thr Leu Arg Asp Trp Cys Gln Gln Leu
1 5

<210> 2687
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*27:02

<400> 2687
Thr Asn Glu Gln Phe Thr Ala Pro Gln Lys
1 5 10

<210> 2688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*39:01

<400> 2688
Thr Asn Thr Val Glu Val Ile Thr Ser
1 5

<210> 2689
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -C*01:02,HLA-C*03:03,HLA-C*03:04

<400> 2689
Thr Ser Ala Pro Gly Ala Met Leu
1 5

<210> 2690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*54:01,HLA-C*06:02

<400> 2690
Thr Ser Ala Pro Gly Ala Met Leu Ala
1 5

<210> 2691
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*25:01,HLA-A*26:01,HLA-A*31:01,HLA-A*32:01,HLA-A*33:03,
HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 2691
Thr Ser Ala Pro Gly Ala Met Leu Ala Ser Trp
1 5 10

<210> 2692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*08:01

<400> 2692
Thr Thr His Arg Arg Met Ile Ser Leu
1 5

<210> 2693
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -C*05:01

<400> 2693
Val Asp Asp Glu Glu Ser Val Ile
1 5

<210> 2694
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*38:01,HLA-B*40:01

<400> 2694
Val Asp Asp Glu Glu Ser Val Ile Leu
1 5

<210> 2695
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*02:07

<400> 2695
Val Asp Asp Glu Glu Ser Val Ile Leu Thr Leu
1 5 10

<210> 2696
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*18:01,HLA-B*49:01

<400> 2696
Val Glu Ala Phe Leu Met Gln Ala
1 5

<210> 2697
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 2697
Val Glu Val Ile Thr Ser Ala Pro
1 5

<210> 2698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*40:02,HLA-B*49:01

<400> 2698
Val Glu Val Ile Thr Ser Ala Pro Gly
1 5

<210> 2699
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02

<400> 2699
Val Glu Val Ile Thr Ser Ala Pro Gly Ala Met
1 5 10

<210> 2700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 2700
Val Ile Leu Thr Leu Val Pro Val Lys
1 5

<210> 2701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*39:01

<400> 2701
Val Ile Thr Ser Ala Pro Gly Ala Met
1 5

<210> 2702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -A*23:01,HLA-B*39:01

<400> 2702
Val Ile Thr Ser Ala Pro Gly Ala Met Leu
1 5 10

<210> 2703
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*07:02

<400> 2703
Val Pro Thr Thr His Arg Arg Met Ile Ser Leu
1 5 10

<210> 2704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-B*56:01,
HLA-C*03:03

<400> 2704
Val Pro Val Lys Asp Asp Ala Asn Met
1 5

<210> 2705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*38:01,HLA-B*40:01,HLA-B*58:01

<400> 2705
Val Ser Ser Thr Ser Asp Val Lys Leu
1               5


<210> 2706
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2706
Val Ser Ser Thr Ser Asp Val Lys Leu Glu Lys
1               5                   10


<210> 2707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -A*02:03,HLA-A*32:01,HLA-B*08:01,HLA-B*40:02,HLA-B*46:01,
      HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2707
Val Val His Gly Arg Leu Leu Ser Ala
1               5


<210> 2708
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
      HLA -B*08:01

<400> 2708
Tyr Pro Glu Gln Arg Gln Asp Met
1               5


<210> 2709
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*55:01

<400> 2709
Tyr Pro Glu Gln Arg Gln Asp Met Pro
1 5

<210> 2710
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; DPPA2; ENSG00000163530;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 2710
Tyr Pro Glu Gln Arg Gln Asp Met Pro Glu Met
1 5 10

<210> 2711
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*58:01

<400> 2711
Ala Ala Met Ala Asp Arg Pro Gln Pro Gly Trp
1 5 10

<210> 2712
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*32:01,HLA-B*37:01,HLA-B*44:02,HLA-B*57:01

<400> 2712
Ala Asp Arg Pro Gln Pro Gly Trp
1 5

<210> 2713
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*38:01,HLA-B*39:01

<400> 2713
Ala His Leu Glu Leu Ala Thr Tyr Glu Leu
1 5 10

<210> 2714
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 2714
Ala Met Ala Asp Arg Pro Gln Pro Gly Trp
1 5 10

<210> 2715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*07:02

<400> 2715
Ala Met Arg Val Ala His Leu Glu Leu
1 5

<210> 2716
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*07:02,HLA-C*07:02

<400> 2716
Ala Pro Phe Arg Asp Val Pro Lys Gln Met
1 5 10

<210> 2717
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 2717
Cys Phe Ser Ser Ser Gly Thr Thr Ser Phe
1 5 10

<210> 2718
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*33:01,HLA-A*33:03

<400> 2718
Asp Leu Ser Glu Ser Glu Cys Leu Arg
1 5

<210> 2719
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*33:01,HLA-B*08:01,HLA-B*18:01

<400> 2719
Asp Asn Arg Val Val Thr Gly Leu
1 5

<210> 2720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*33:01

<400> 2720
Asp Asn Arg Val Val Thr Gly Leu Lys
1 5

<210> 2721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*33:01

<400> 2721
Asp Asn Arg Val Val Thr Gly Leu Lys Lys
1 5 10

<210> 2722
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*25:01

<400> 2722
Asp Ser Ala Leu Glu Ala Leu Leu Asn Phe
1 5 10

<210> 2723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*25:01,HLA-A*26:01

<400> 2723
Asp Val Pro Lys Gln Met Met Gln Met
1 5

<210> 2724
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*25:01,HLA-A*26:01

<400> 2724
Asp Val Pro Lys Gln Met Met Gln Met Phe
1 5 10

<210> 2725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*30:01,HLA-B*40:01

<400> 2725
Glu Glu Asp Ser Ala Leu Glu Ala Leu
1 5

<210> 2726
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*40:01

<400> 2726
Glu Glu Asp Ser Ala Leu Glu Ala Leu Leu
1 5 10

<210> 2727
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*33:03

<400> 2727
Glu Met Leu Gln Lys Ala Ala Arg
1 5

<210> 2728
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-B*58:01

<400> 2728
Glu Ser Asn Pro Glu Ser Ser His Pro Gly Tyr
1               5                   10


<210> 2729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 2729
Phe Phe Phe Pro Thr Thr Cys Asn Leu
1               5


<210> 2730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,
      HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*35:01,HLA-B*38:01,
      HLA-B*39:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,

<220>
<223> HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:04,HLA-C*14:02,
      HLA-C*16:01

<400> 2730
Phe Ser Ser Ser Gly Thr Thr Ser Phe
1               5


<210> 2731
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -A*01:01

<400> 2731
Phe Ser Ser Ser Gly Thr Thr Ser Phe Lys
1               5                   10


<210> 2732

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*02:04,HLA-B*35:03,HLA-C*03:04

<400> 2732
Phe Val Leu Ala Asn Gly His Ile Leu
1 5

<210> 2733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -C*12:03

<400> 2733
Gly Ala Ile Ser Leu Ile Leu Val Cys
1 5

<210> 2734
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 2734
Gly Leu Gly Ala Ile Ser Leu Ile Leu Val
1 5 10

<210> 2735
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*27:05

<400> 2735
Gly Gln Ser Leu Glu Glu Asp Ser Ala Leu
1 5 10

<210> 2736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*02:04,HLA-A*02:07,HLA-B*35:03,HLA-B*38:01

<400> 2736
His Leu Glu Leu Ala Thr Tyr Glu Leu
1 5

<210> 2737
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 2737
His Pro Gly Tyr Glu Ala Ala Met
1 5

<210> 2738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 2738
His Pro Gly Tyr Glu Ala Ala Met Ala
1 5

<210> 2739
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*18:01

<400> 2739
Leu Glu Ala Leu Leu Asn Phe Phe

1 5

<210> 2740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*30:01,HLA-B*40:01

<400> 2740
Leu Glu Glu Asp Ser Ala Leu Glu Ala Leu
1 5 10

<210> 2741
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*40:01

<400> 2741
Leu Glu Glu Asp Ser Ala Leu Glu Ala Leu Leu
1 5 10

<210> 2742
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01

<400> 2742
Leu Glu Leu Ala Thr Tyr Glu Leu
1 5

<210> 2743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*29:02

<400> 2743
Leu Phe Val Cys Tyr Tyr Leu Ser Tyr
1               5


<210> 2744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -B*27:05,HLA-B*38:01

<400> 2744
Leu Gln Asp Leu Ser Glu Ser Glu Cys Leu
1               5                   10


<210> 2745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -A*01:01,HLA-A*25:01,HLA-B*51:01,HLA-B*57:01,HLA-B*58:01

<400> 2745
Met Ala Asp Arg Pro Gln Pro Gly Trp
1               5


<210> 2746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -C*14:02

<400> 2746
Met Phe Gly Leu Gly Ala Ile Ser Leu
1               5


<210> 2747
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*02:04

<400> 2747
Met Leu Ser Ile Trp Ile Leu Leu Phe
1 5

<210> 2748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*13:02

<400> 2748
Met Gln Met Phe Gly Leu Gly Ala Ile
1 5

<210> 2749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*03:01

<400> 2749
Asn Leu Arg Glu Asn Gln Val Ala Lys
1 5

<210> 2750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*29:02,HLA-A*30:02,HLA-B*35:01,HLA-B*55:01,HLA-C*03:03

<400> 2750
Asn Pro Glu Ser Ser His Pro Gly Tyr
1 5

<210> 2751
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*54:01

<400> 2751
Asn Pro Glu Ser Ser His Pro Gly Tyr Glu Ala
1 5 10

<210> 2752
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*27:02

<400> 2752
Gln Asp Leu Ser Glu Ser Glu Cys Leu Arg
1 5 10

<210> 2753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:02,HLA-B*44:03

<400> 2753
Gln Asp Asn Arg Val Val Thr Gly Leu
1 5

<210> 2754
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*02:01,HLA-A*02:03

<400> 2754
Gln Met Phe Gly Leu Gly Ala Ile Ser Leu
1 5 10

<210> 2755
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*08:01

<400> 2755
Arg Ala Met Arg Val Ala His Leu
1 5

<210> 2756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*37:01

<400> 2756
Arg Asp Val Pro Lys Gln Met Met
1 5

<210> 2757
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*07:02,HLA-C*07:02

<400> 2757
Arg Pro Gln Pro Gly Trp Arg Glu Ser Leu
1 5 10

<210> 2758
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*38:01

<400> 2758
Arg Gln Asp Asn Arg Val Val Thr Gly Leu
1 5 10

<210> 2759
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*27:02,HLA-B*57:01,HLA-B*58:01

<400> 2759
Arg Val Ala His Leu Glu Leu Ala Thr Tyr
1 5 10

<210> 2760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*03:01

<400> 2760
Arg Val Ser Lys Pro Phe Gly Met Leu
1 5

<210> 2761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*31:01

<400> 2761
Arg Val Val Thr Gly Leu Lys Lys Gln Arg
1 5 10

<210> 2762
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*23:01,HLA-A*25:01,HLA-A*29:02

<400> 2762
Ser Ala Leu Glu Ala Leu Leu Asn Phe

1 5

<210> 2763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*44:02,HLA-B*44:03

<400> 2763
Ser Glu Met Leu Gln Lys Ala Ala Arg
1 5

<210> 2764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 2764
Ser Glu Asn Ala His Gly Gln Ser Leu
1 5

<210> 2765
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*39:01

<400> 2765
Ser His Pro Gly Tyr Glu Ala Ala Met
1 5

<210> 2766
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*08:01

<400> 2766
Ser Leu Lys Met Arg Val Ser Lys
1               5


<210> 2767
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 2767
Ser Asn Pro Glu Ser Ser His Pro Gly Tyr
1               5                   10


<210> 2768
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -A*03:02,HLA-A*11:01

<400> 2768
Ser Ser Gly Thr Thr Ser Phe Lys
1               5


<210> 2769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
      HLA -A*32:01,HLA-C*05:01

<400> 2769
Ser Ser Ser Gly Thr Thr Ser Phe
1               5


<210> 2770
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2770
Ser Ser Ser Gly Thr Thr Ser Phe Lys
1 5

<210> 2771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*30:02,HLA-C*14:02

<400> 2771
Ser Tyr Tyr Leu Cys Ser Gly Ser Ser Tyr
1 5 10

<210> 2772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:05,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,

<220>
<223> HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,
HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 2772
Val Ala His Leu Glu Leu Ala Thr Tyr
1 5

<210> 2773
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*08:01

<400> 2773
Val Ala Lys Pro Cys Asn Glu Leu

1 5

<210> 2774
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*08:01

<400> 2774
Val Pro Lys Gln Met Met Gln Met
1 5

<210> 2775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*31:01,HLA-A*32:01,HLA-B*40:02,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*12:03

<400> 2775
Val Ser Lys Pro Phe Gly Met Leu Met
1 5

<210> 2776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*31:01,HLA-A*33:01

<400> 2776
Val Val Thr Gly Leu Lys Lys Gln Arg
1 5

<210> 2777
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*18:01

<400> 2777
Tyr Glu Leu Ala Ala Thr Glu Ser
1 5

<210> 2778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 2778
Tyr Glu Leu Ala Ala Thr Glu Ser Asn
1 5

<210> 2779
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -B*46:01

<400> 2779
Tyr Leu Cys Ser Gly Ser Ser Tyr
1 5

<210> 2780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:03,HLA-C*14:02

<400> 2780
Tyr Tyr Leu Cys Ser Gly Ser Ser Tyr
1 5

<210> 2781
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; FMR1NB; ENSG00000176988;
HLA -A*23:01,HLA-A*24:02

<400> 2781
Tyr Tyr Leu Cys Ser Gly Ser Ser Tyr Phe
1 5 10

<210> 2782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*11:01,HLA-A*23:01,
HLA-A*24:02,HLA-A*25:01,HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,
HLA-A*68:02,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,

<220>
<223> HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,
HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:02,HLA-C*07:04,

<220>
<223> HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,
HLA-C*16:04

<400> 2782
Ala Ala Ile Asn Ser His Ile Thr Leu
1 5

<210> 2783
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*16:04

<400> 2783
Ala Ala Ile Asn Ser His Ile Thr Leu Glu Leu
1 5 10

<210> 2784
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 2784
Ala Glu Tyr Leu Phe Asp Lys Leu
1 5

<210> 2785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*49:01

<400> 2785
Ala Glu Tyr Leu Phe Asp Lys Leu Thr
1 5

<210> 2786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 2786
Ala Glu Tyr Leu Phe Asp Lys Leu Thr Leu
1 5 10

<210> 2787
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*32:01,HLA-B*08:01,HLA-B*37:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*16:01

<400> 2787
Ala Ile Asn Ser His Ile Thr Leu
1 5

<210> 2788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*03:01

<400> 2788
Ala Ile Asn Ser His Ile Thr Leu Glu
1 5

<210> 2789
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:03,HLA-A*02:04,HLA-A*03:01,HLA-B*07:02,HLA-B*46:01

<400> 2789
Ala Ile Asn Ser His Ile Thr Leu Glu Leu
1 5 10

<210> 2790
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*46:01

<400> 2790
Ala Ile Asn Ser His Ile Thr Leu Glu Leu Tyr
1 5 10

<210> 2791
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01

<400> 2791
Ala Leu Glu Asn Phe Phe Arg Tyr
1 5

<210> 2792
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:07

<400> 2792
Ala Leu Glu Asn Phe Phe Arg Tyr Phe
1 5

<210> 2793
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:04

<400> 2793
Ala Leu Glu Asn Phe Phe Arg Tyr Phe Leu
1 5 10

<210> 2794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2794
Ala Gln Pro Ser Gln Val Arg Gln Lys
1 5

<210> 2795
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*44:03,HLA-C*16:04

<400> 2795
Ala Gln Pro Ser Gln Val Arg Gln Lys Tyr
1               5                   10


<210> 2796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*32:01,
      HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:05,HLA-B*57:01,
      HLA-C*07:06

<400> 2796
Ala Thr Ala Gln Pro Ser Gln Val Arg
1               5


<210> 2797
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*11:01

<400> 2797
Ala Thr Ala Gln Pro Ser Gln Val Arg Gln
1               5                   10


<210> 2798
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,
      HLA-C*07:06

<400> 2798
Ala Thr Ala Gln Pro Ser Gln Val Arg Gln Lys
1               5                   10


<210> 2799
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*35:03,HLA-B*38:01,HLA-B*40:01,HLA-B*55:01,HLA-C*05:01

<400> 2799
Ala Val Glu Lys Gly Asp Pro Gln Leu
1 5

<210> 2800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*13:02,HLA-B*38:01,HLA-B*40:02,HLA-B*49:01

<400> 2800
Cys Asp Ala Ala Ile Asn Ser His Ile
1 5

<210> 2801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*38:01

<400> 2801
Cys His Phe Leu Glu Ser His Tyr Leu
1 5

<210> 2802
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*30:02,HLA-B*46:01,HLA-C*01:02

<400> 2802
Cys Ser Pro Glu Ala Gly Leu Ala Glu Tyr
1 5 10

<210> 2803
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*33:01,HLA-B*51:01

<400> 2803
Asp Ala Ala Ile Asn Ser His Ile
1 5

<210> 2804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*33:01,HLA-A*68:01,HLA-B*35:03,HLA-B*51:01,HLA-C*07:06

<400> 2804
Asp Ala Ala Ile Asn Ser His Ile Thr Leu
1 5 10

<210> 2805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*33:01

<400> 2805
Asp Asp Lys Met Glu His Ala Gln Lys
1 5

<210> 2806
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*18:01

<400> 2806
Asp Asp Val Ala Leu Glu Asn Phe
1 5

<210> 2807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*18:01

<400> 2807
Asp Asp Val Ala Leu Glu Asn Phe Phe
1 5

<210> 2808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,
HLA-C*07:06

<400> 2808
Asp Leu Tyr Gln Leu Ala Val Glu Lys
1 5

<210> 2809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 2809
Asp Val Ala Leu Glu Asn Phe Phe Arg
1 5

<210> 2810
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01

<400> 2810

Asp Val Ala Leu Glu Asn Phe Phe Arg Tyr
1               5                   10


<210> 2811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -B*38:01

<400> 2811
Glu His Ala Gln Lys Leu Met Arg Leu
1               5


<210> 2812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*02:03,HLA-A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:02

<400> 2812
Glu Leu Gly Gly Tyr Val Ser Asn Leu
1               5


<210> 2813
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*33:03,HLA-A*68:01

<400> 2813
Glu Leu Gly Gly Tyr Val Ser Asn Leu Arg
1               5                   10


<210> 2814
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*29:02

<400> 2814
Glu Leu Tyr Thr Ser Tyr Leu Tyr
1               5


<210> 2815
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,
      HLA-A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 2815
Glu Leu Tyr Thr Ser Tyr Leu Tyr Leu
1               5


<210> 2816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*25:01,HLA-A*26:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:02,
      HLA-B*44:02,HLA-B*44:03

<400> 2816
Glu Gln Val Lys Thr Ile Lys Glu Leu
1               5


<210> 2817
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*68:02

<400> 2817
Glu Ser Ala Phe His Leu Glu Lys Asn Val
1               5                   10


<210> 2818
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -C*07:01

<400> 2818
Glu Ser Gly Leu Val Ala Met Glu Ser Ala Phe
1 5 10

<210> 2819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*68:02

<400> 2819
Glu Ser His Tyr Leu His Glu Gln Val
1 5

<210> 2820
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*23:01,HLA-A*24:02,HLA-A*33:03

<400> 2820
Glu Tyr Leu Phe Asp Lys Leu Thr Leu
1 5

<210> 2821
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -C*07:04

<400> 2821
Phe Asp Lys Leu Thr Leu Gly Gly
1 5

<210> 2822
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*38:01

<400> 2822
Phe His Leu Glu Lys Asn Val Asn Gln Ser Leu
1 5 10

<210> 2823
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*23:01,HLA-A*24:02

<400> 2823
Phe Tyr Phe Asn Arg Asp Asp Val Ala Leu
1 5 10

<210> 2824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*03:01,HLA-A*11:01

<400> 2824
Gly Gly Tyr Val Ser Asn Leu Arg Lys
1 5

<210> 2825
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 2825
Gly Leu Ala Glu Tyr Leu Phe Asp Lys
1 5

<210> 2826
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 2826
Gly Leu Ala Glu Tyr Leu Phe Asp Lys Leu
1 5 10

<210> 2827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*26:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-B*55:01,
HLA-C*07:04

<400> 2827
Gly Leu Val Ala Met Glu Ser Ala Phe
1 5

<210> 2828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -C*04:01

<400> 2828
Gly Trp Glu Ser Gly Leu Val Ala Met
1 5

<210> 2829
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*23:01,HLA-A*24:02

<400> 2829
Gly Tyr Val Ser Asn Leu Arg Lys Ile

1 5

<210> 2830
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*25:01,HLA-A*30:02,HLA-B*35:01

<400> 2830
His Ile Thr Leu Glu Leu Tyr Thr Ser Tyr
1 5 10

<210> 2831
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*23:01,HLA-A*24:02

<400> 2831
His Tyr Leu His Glu Gln Val Lys Thr Ile
1 5 10

<210> 2832
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:01

<400> 2832
Ile Cys Ser Pro Glu Ala Gly Leu Ala Glu Tyr
1 5 10

<210> 2833
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*23:01,HLA-A*29:02,HLA-A*68:02,HLA-B*27:05,HLA-C*06:02

<400> 2833
Ile Asn Ser His Ile Thr Leu Glu Leu
1               5


<210> 2834
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*29:02

<400> 2834
Ile Asn Ser His Ile Thr Leu Glu Leu Tyr
1               5                   10


<210> 2835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,
      HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,
      HLA-A*33:03,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,

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<223> HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
      HLA-C*14:02,HLA-C*16:04

<400> 2835
Ile Thr Leu Glu Leu Tyr Thr Ser Tyr
1               5


<210> 2836
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*29:02

<400> 2836
Ile Thr Leu Glu Leu Tyr Thr Ser Tyr Leu Tyr
1               5                   10


<210> 2837

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 2837
Lys Glu Leu Gly Gly Tyr Val Ser Asn Leu
1 5 10

<210> 2838
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:04

<400> 2838
Lys Leu Met Arg Leu Gln Asn Leu
1 5

<210> 2839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*31:01

<400> 2839
Lys Leu Met Arg Leu Gln Asn Leu Arg
1 5

<210> 2840
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02,HLA-A*30:02

<400> 2840
Lys Asn Val Asn Gln Ser Leu Leu Asp Leu Tyr
1 5 10

<210> 2841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*57:01,HLA-B*58:01

<400> 2841
Lys Thr Ile Lys Glu Leu Gly Gly Tyr
1 5

<210> 2842
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*40:02

<400> 2842
Lys Thr Ile Lys Glu Leu Gly Gly Tyr Val
1 5 10

<210> 2843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*35:03,HLA-C*03:03,HLA-C*03:04

<400> 2843
Leu Ala Val Glu Lys Gly Asp Pro Gln Leu
1 5 10

<210> 2844
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*27:02

<400> 2844

Leu Asp Leu Tyr Gln Leu Ala Val Glu Lys
1               5                   10


<210> 2845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*23:01,HLA-A*30:01,HLA-B*07:02,HLA-B*08:01,HLA-B*18:01,
      HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
      HLA-B*49:01,HLA-C*03:04

<400> 2845
Leu Glu Lys Asn Val Asn Gln Ser Leu
1               5


<210> 2846
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*30:01,HLA-B*40:01

<400> 2846
Leu Glu Lys Asn Val Asn Gln Ser Leu Leu
1               5                   10


<210> 2847
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -B*49:01

<400> 2847
Leu Glu Leu Tyr Thr Ser Tyr Leu
1               5


<210> 2848
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02

<400> 2848
Leu Glu Leu Tyr Thr Ser Tyr Leu Tyr
1 5

<210> 2849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*68:02

<400> 2849
Leu Glu Ser His Tyr Leu His Glu Gln Val
1 5 10

<210> 2850
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -C*07:04

<400> 2850
Leu Gly Gly Tyr Val Ser Asn Leu
1 5

<210> 2851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*68:01

<400> 2851
Leu Gly Gly Tyr Val Ser Asn Leu Arg
1 5

<210> 2852
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*38:01

<400> 2852
Leu His Glu Gln Val Lys Thr Ile
1 5

<210> 2853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 2853
Leu Leu Asp Leu Tyr Gln Leu Ala Val
1 5

<210> 2854
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*27:02

<400> 2854
Leu Leu Asp Leu Tyr Gln Leu Ala Val Glu Lys
1 5 10

<210> 2855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*31:01

<400> 2855
Leu Ser Met Ala Phe Tyr Phe Asn Arg
1 5

<210> 2856
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*39:01

<400> 2856
Leu Val Ala Met Glu Ser Ala Phe
1 5

<210> 2857
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02

<400> 2857
Leu Tyr Leu Ser Met Ala Phe Tyr
1 5

<210> 2858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 2858
Leu Tyr Leu Ser Met Ala Phe Tyr Phe
1 5

<210> 2859
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -C*14:02

<400> 2859
Leu Tyr Gln Leu Ala Val Glu Lys
1 5

<210> 2860
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*24:02

<400> 2860
Leu Tyr Thr Ser Tyr Leu Tyr Leu
1 5

<210> 2861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*51:01,HLA-B*54:01,HLA-C*16:02

<400> 2861
Met Ala Thr Ala Gln Pro Ser Gln Val
1 5

<210> 2862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 2862
Met Ala Thr Ala Gln Pro Ser Gln Val Arg
1 5 10

<210> 2863
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*44:03,HLA-B*49:01

<400> 2863
Met Glu His Ala Gln Lys Leu Met
1 5

<210> 2864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*49:01

<400> 2864
Met Glu Ser Ala Phe His Leu Glu Lys
1 5

<210> 2865
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01

<400> 2865
Asn Gln Ser Leu Leu Asp Leu Tyr
1 5

<210> 2866
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*38:01,HLA-B*39:01

<400> 2866
Asn Gln Ser Leu Leu Asp Leu Tyr Gln Leu
1 5 10

<210> 2867
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*38:01

<400> 2867

Asn Arg Asp Asp Val Ala Leu Glu Asn Phe
1               5                   10


<210> 2868
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -C*03:04

<400> 2868
Asn Ser His Ile Thr Leu Glu Leu
1               5


<210> 2869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*46:01

<400> 2869
Asn Ser His Ile Thr Leu Glu Leu Tyr
1               5


<210> 2870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-B*35:01

<400> 2870
Asn Val Asn Gln Ser Leu Leu Asp Leu Tyr
1               5                   10


<210> 2871
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;

HLA -B*18:01

<400> 2871
Pro Glu Ala Gly Leu Ala Glu Tyr
1 5

<210> 2872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*40:01

<400> 2872
Pro Glu Ala Gly Leu Ala Glu Tyr Leu
1 5

<210> 2873
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*35:01,HLA-B*35:03

<400> 2873
Gln Gly Trp Glu Ser Gly Leu Val Ala Met
1 5 10

<210> 2874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*35:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*55:01,HLA-C*07:02,HLA-C*16:01

<400> 2874
Gln Pro Ser Gln Val Arg Gln Lys Tyr
1 5

<210> 2875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:04

<400> 2875
Gln Ser Leu Leu Asp Leu Tyr Gln Leu
1 5

<210> 2876
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*08:01

<400> 2876
Gln Val Lys Thr Ile Lys Glu Leu
1 5

<210> 2877
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02

<400> 2877
Gln Val Lys Thr Ile Lys Glu Leu Gly Gly Tyr
1 5 10

<210> 2878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*68:02,HLA-B*51:01,HLA-C*12:03,HLA-C*16:02

<400> 2878
Ser Ala Phe His Leu Glu Lys Asn Val
1 5

<210> 2879
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:04,HLA-A*23:01

<400> 2879
Ser Leu Leu Asp Leu Tyr Gln Leu
1 5

<210> 2880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:04

<400> 2880
Ser Leu Leu Asp Leu Tyr Gln Leu Ala
1 5

<210> 2881
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02

<400> 2881
Ser Leu Leu Asp Leu Tyr Gln Leu Ala Val
1 5 10

<210> 2882
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*31:01

<400> 2882
Ser Met Ala Phe Tyr Phe Asn Arg
1 5

<210> 2883
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*55:01,
HLA-C*03:03

<400> 2883
Ser Pro Glu Ala Gly Leu Ala Glu Tyr
1 5

<210> 2884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*35:03

<400> 2884
Ser Pro Glu Ala Gly Leu Ala Glu Tyr Leu
1 5 10

<210> 2885
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*35:01

<400> 2885
Ser Pro Glu Ala Gly Leu Ala Glu Tyr Leu Phe
1 5 10

<210> 2886
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 2886
Ser Tyr Leu Tyr Leu Ser Met Ala Phe

1 5

<210> 2887
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02

<400> 2887
Ser Tyr Leu Tyr Leu Ser Met Ala Phe Tyr
1 5 10

<210> 2888
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-C*07:06

<400> 2888
Thr Ala Gln Pro Ser Gln Val Arg Gln Lys
1 5 10

<210> 2889
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*35:01,
HLA-B*57:01,HLA-B*58:01

<400> 2889
Thr Ala Gln Pro Ser Gln Val Arg Gln Lys Tyr
1 5 10

<210> 2890
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*30:02,HLA-B*15:01,HLA-B*46:01

<400> 2890
Thr Ile Lys Glu Leu Gly Gly Tyr
1               5


<210> 2891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*02:03,HLA-A*26:01,HLA-A*68:02

<400> 2891
Thr Ile Lys Glu Leu Gly Gly Tyr Val
1               5


<210> 2892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*02:07

<400> 2892
Thr Leu Glu Leu Tyr Thr Ser Tyr Leu
1               5


<210> 2893
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*01:01

<400> 2893
Thr Leu Glu Leu Tyr Thr Ser Tyr Leu Tyr
1               5                   10


<210> 2894
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:03

<400> 2894
Thr Leu Gly Gly Arg Val Lys Glu Thr
1 5

<210> 2895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*02:04,HLA-A*03:01,HLA-A*24:02,HLA-A*29:02,
HLA-A*30:02,HLA-B*57:01,HLA-C*02:02

<400> 2895
Val Ala Leu Glu Asn Phe Phe Arg Tyr
1 5

<210> 2896
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -B*57:01

<400> 2896
Val Ala Leu Glu Asn Phe Phe Arg Tyr Phe
1 5 10

<210> 2897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:02,HLA-A*11:01,
HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*31:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*27:02,HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,

<220>
<223> HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 2897

Val Ala Met Glu Ser Ala Phe His Leu
1               5


<210> 2898
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*11:01

<400> 2898
Val Ala Met Glu Ser Ala Phe His Leu Glu Lys
1               5                   10


<210> 2899
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02

<400> 2899
Val Glu Lys Gly Asp Pro Gln Leu
1               5


<210> 2900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*30:01,HLA-B*40:02,HLA-B*49:01,HLA-C*12:03

<400> 2900
Val Glu Lys Gly Asp Pro Gln Leu Cys
1               5


<210> 2901
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 2901
Val Asn Gln Ser Leu Leu Asp Leu Tyr
1               5


<210> 2902
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01

<400> 2902
Trp Glu Ser Gly Leu Val Ala Met
1               5


<210> 2903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*23:01,HLA-A*24:02,HLA-B*35:03,HLA-B*55:01,HLA-C*14:02

<400> 2903
Tyr Phe Asn Arg Asp Asp Val Ala Leu
1               5


<210> 2904
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
      HLA-B*08:01,HLA-B*13:02,HLA-C*03:03

<400> 2904
Tyr Leu Phe Asp Lys Leu Thr Leu
1               5


<210> 2905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 2905
Tyr Leu Phe Asp Lys Leu Thr Leu Gly
1 5

<210> 2906
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 2906
Tyr Leu Phe Asp Lys Leu Thr Leu Gly Gly
1 5 10

<210> 2907
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:03

<400> 2907
Tyr Leu Phe Asp Lys Leu Thr Leu Gly Gly Arg
1 5 10

<210> 2908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*25:01,HLA-A*30:01,HLA-A*32:01,HLA-A*68:02,
HLA-B*08:01,HLA-B*13:02,HLA-B*40:02,HLA-B*46:01,HLA-B*49:01,

<220>
<223> HLA-B*51:01,HLA-B*55:01,HLA-C*02:02,HLA-C*03:04,HLA-C*06:02,
HLA-C*12:03,HLA-C*16:02

<400> 2908
Tyr Leu His Glu Gln Val Lys Thr Ile

1 5

<210> 2909
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*03:01

<400> 2909
Tyr Leu His Glu Gln Val Lys Thr Ile Lys
1 5 10

<210> 2910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*29:02

<400> 2910
Tyr Leu Tyr Leu Ser Met Ala Phe Tyr
1 5

<210> 2911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; FTHL17; ENSG00000132446;
HLA -A*01:01,HLA-A*29:02

<400> 2911
Tyr Thr Ser Tyr Leu Tyr Leu Ser Met
1 5

<210> 2912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 2912
Ala Gln Thr Gly Ile Leu Trp Leu Leu
1               5


<210> 2913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
      HLA -B*40:01

<400> 2913
Cys Glu Asp Gly Pro Asp Gly Gln Glu Met
1               5                   10


<210> 2914
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
      HLA -B*18:01

<400> 2914
Asp Glu Val Glu Pro Ala Thr Pro
1               5


<210> 2915
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
      HLA -B*51:01

<400> 2915
Asp Pro Pro Asn Pro Glu Glu Val
1               5


<210> 2916
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;

HLA -A*33:01

<400> 2916
Asp Ser Gln Glu Gln Gly His Pro Gln
1 5

<210> 2917
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*33:03,HLA-C*07:06

<400> 2917
Glu Glu Gly Glu Pro Ala Thr Gln Arg
1 5

<210> 2918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*68:01

<400> 2918
Glu Gly Ala Ser Ala Gly Gln Gly Pro Lys
1 5 10

<210> 2919
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*01:01

<400> 2919
Glu Met Asp Pro Pro Asn Pro Glu Glu Val
1 5 10

<210> 2920
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*01:01

<400> 2920
Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys
1 5 10

<210> 2921
<211> 9
<212> PRT
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<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*26:01

<400> 2921
Glu Val Lys Thr Pro Glu Glu Glu Met
1 5

<210> 2922
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*33:03,HLA-A*68:01

<400> 2922
Glu Val Lys Thr Pro Glu Glu Glu Met Arg
1 5 10

<210> 2923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 2923
His Tyr Val Ala Gln Thr Gly Ile Leu
1 5

<210> 2924
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*23:01,HLA-A*24:02

<400> 2924
His Tyr Val Ala Gln Thr Gly Ile Leu Trp
1 5 10

<210> 2925
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*23:01,HLA-A*24:02

<400> 2925
Arg Tyr Val Gln Pro Pro Glu Met Ile
1 5

<210> 2926
<211> 9
<212> PRT
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<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -B*38:01

<400> 2926
Ser His Tyr Val Ala Gln Thr Gly Ile
1 5

<210> 2927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*31:01

<400> 2927
Ser Thr Tyr Tyr Trp Pro Arg Pro Arg
1 5

<210> 2928

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -B*35:03

<400> 2928
Thr Pro Glu Glu Gly Glu Pro Ala Thr
1 5

<210> 2929
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*68:01,HLA-C*07:06

<400> 2929
Thr Pro Glu Glu Gly Glu Pro Ala Thr Gln Arg
1 5 10

<210> 2930
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -B*57:01,HLA-B*58:01

<400> 2930
Val Ala Gln Thr Gly Ile Leu Trp
1 5

<210> 2931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-B*57:01,
HLA-B*58:01

<400> 2931
Tyr Val Ala Gln Thr Gly Ile Leu Trp
1 5

<210> 2932
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*02:04,HLA-A*68:02

<400> 2932
Tyr Val Ala Gln Thr Gly Ile Leu Trp Leu Leu
1 5 10

<210> 2933
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*26:01

<400> 2933
Tyr Val Gln Pro Pro Glu Met Ile Gly Pro Met
1 5 10

<210> 2934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE1; ENSG00000205777;
HLA -A*29:02

<400> 2934
Tyr Tyr Trp Pro Arg Pro Arg Arg Tyr
1 5

<210> 2935
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -B*40:01

<400> 2935

Cys Glu Asp Gly Pro Asp Gly Gln Glu Met
1               5                   10


<210> 2936
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
      HLA -B*18:01

<400> 2936
Asp Glu Val Glu Pro Ala Thr Pro
1               5


<210> 2937
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
      HLA -B*51:01

<400> 2937
Asp Pro Pro Asn Pro Glu Glu Val
1               5


<210> 2938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
      HLA -A*33:01

<400> 2938
Asp Ser Gln Glu Gln Gly His Pro Gln
1               5


<210> 2939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
      HLA -A*33:03,HLA-C*07:06

<400> 2939
Glu Glu Gly Glu Pro Ala Thr Gln Arg
1               5


<210> 2940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
      HLA -A*68:01

<400> 2940
Glu Gly Ala Ser Ala Gly Gln Gly Pro Lys
1               5                   10


<210> 2941
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
      HLA -A*01:01

<400> 2941
Glu Met Asp Pro Pro Asn Pro Glu Glu Val
1               5                   10


<210> 2942
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
      HLA -A*01:01

<400> 2942
Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys
1               5                   10


<210> 2943
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -A*33:03

<400> 2943
Glu Val Lys Thr Pro Glu Glu Gly Lys
1 5

<210> 2944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -A*68:01

<400> 2944
Glu Val Lys Thr Pro Glu Glu Gly Lys Lys
1 5 10

<210> 2945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -A*24:02

<400> 2945
Pro Tyr Val Gln Pro Pro Glu Met Ile
1 5

<210> 2946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 2946
Arg Pro Tyr Val Gln Pro Pro Glu Met
1 5

<210> 2947
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -A*31:01

<400> 2947
Ser Thr Tyr Tyr Trp Pro Arg Pro Arg
1 5

<210> 2948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -B*35:03

<400> 2948
Thr Pro Glu Glu Gly Glu Pro Ala Thr
1 5

<210> 2949
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -A*68:01,HLA-C*07:06

<400> 2949
Thr Pro Glu Glu Gly Glu Pro Ala Thr Gln Arg
1 5 10

<210> 2950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE12J; ENSG00000224659;
HLA -A*29:02

<400> 2950
Tyr Tyr Trp Pro Arg Pro Arg Pro Tyr
1 5

<210> 2951

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*30:01,HLA-B*40:01

<400> 2951
Cys Glu Asp Gly Pro Asp Gly Gln Glu Met
1 5 10

<210> 2952
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -B*18:01

<400> 2952
Asp Glu Val Glu Pro Ala Thr Pro
1 5

<210> 2953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -B*18:01

<400> 2953
Asp Glu Val Glu Pro Ala Thr Pro Glu
1 5

<210> 2954
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -B*51:01

<400> 2954
Asp Gly Pro Asp Gly Gln Glu Met
1 5

<210> 2955
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -B*51:01

<400> 2955
Asp Pro Pro Asn Pro Glu Glu Val
1 5

<210> 2956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 2956
Glu Glu Gly Glu Pro Ala Thr Gln Arg
1 5

<210> 2957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*68:01

<400> 2957
Glu Gly Ala Ser Ala Gly Gln Gly Pro Lys
1 5 10

<210> 2958
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*01:01

<400> 2958
Glu Met Asp Pro Pro Asn Pro Glu Glu Val

1 5 10

<210> 2959
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*01:01

<400> 2959
Glu Met Asp Pro Pro Asn Pro Glu Glu Val Lys
1 5 10

<210> 2960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*26:01

<400> 2960
Glu Pro Pro Glu Met Ile Gly Pro Met
1 5

<210> 2961
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*68:01

<400> 2961
Glu Pro Pro Glu Met Ile Gly Pro Met Arg
1 5 10

<210> 2962
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*33:03,HLA-A*68:01

<400> 2962
Glu Val Lys Thr Pro Glu Glu Gly Glu Lys
1               5                   10


<210> 2963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
      HLA -A*02:07

<400> 2963
Met Asp Pro Pro Asn Pro Glu Glu Val
1               5


<210> 2964
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
      HLA -B*49:01

<400> 2964
Gln Glu Met Asp Pro Pro Asn Pro Glu Glu Val
1               5                   10


<210> 2965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
      HLA -C*16:04

<400> 2965
Arg Arg Tyr Val Glu Pro Pro Glu Met
1               5


<210> 2966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;

HLA -A*23:01,HLA-A*24:02

<400> 2966
Arg Tyr Val Glu Pro Pro Glu Met Ile
1 5

<210> 2967
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -B*54:01

<400> 2967
Ser Ala Gly Gln Gly Pro Lys Pro Glu Ala
1 5 10

<210> 2968
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*31:01

<400> 2968
Ser Thr Tyr Arg Pro Arg Pro Arg
1 5

<210> 2969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -B*35:03

<400> 2969
Thr Pro Glu Glu Gly Glu Pro Ala Thr
1 5

<210> 2970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -A*68:01,HLA-C*07:06

<400> 2970
Thr Pro Glu Glu Gly Glu Pro Ala Thr Gln Arg
1 5 10

<210> 2971
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GAGE2A; ENSG00000189064;
HLA -B*40:01,HLA-B*40:02

<400> 2971
Val Glu Pro Pro Glu Met Ile Gly Pro Met
1 5 10

<210> 2972
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 2972
Ala Glu Phe Leu Pro Cys Arg Phe
1 5

<210> 2973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*30:02,HLA-B*18:01,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*16:02,HLA-C*16:04

<400> 2973
Ala Glu Thr Asp Asn Leu Asp His Tyr
1 5

<210> 2974
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*25:01,HLA-A*32:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,
HLA-B*58:01,HLA-C*16:04

<400> 2974
Ala Asn Ala Asp Leu Leu Asn Arg Thr Trp
1 5 10

<210> 2975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*58:01

<400> 2975
Ala Ser Ile Ser Leu Leu Lys Ser Leu
1 5

<210> 2976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*26:01,HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,

<220>
<223> HLA-B*40:02,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*03:04

<400> 2976
Ala Thr Phe Ser Gly Leu Pro His Leu
1 5

<210> 2977
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;

HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 2977
Ala Val Ala Asn Ser Lys Gln Leu Asn Ile Lys
1 5 10

<210> 2978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:01,HLA-A*25:01,HLA-A*30:02

<400> 2978
Ala Val Phe Tyr Lys Asp Val Arg Ala Tyr
1 5 10

<210> 2979
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*31:01

<400> 2979
Ala Val Phe Tyr Lys Asp Val Arg Ala Tyr Arg
1 5 10

<210> 2980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*29:02

<400> 2980
Cys Phe Pro Glu Ser Leu Lys Val Tyr
1 5

<210> 2981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*18:01

<400> 2981
Asp Asp Asn Thr Ala Ser Ile Ser Leu
1 5

<210> 2982
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*27:02

<400> 2982
Asp Asp Asn Thr Ala Ser Ile Ser Leu Leu Lys
1 5 10

<210> 2983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*25:01,HLA-B*18:01,HLA-B*27:02,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-C*16:04

<400> 2983
Asp Glu Lys Gly Asn Pro Val Ser Trp
1 5

<210> 2984
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*33:01,HLA-A*33:03

<400> 2984
Asp Phe Lys Ala Val Ile Thr Arg
1 5

<210> 2985
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*33:01,HLA-A*33:03

<400> 2985
Asp Phe Lys Ala Val Ile Thr Arg Arg
1 5

<210> 2986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*38:01,HLA-B*39:01

<400> 2986
Asp His Tyr Thr Asn Ala Tyr Ala Val
1 5

<210> 2987
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*38:01

<400> 2987
Asp His Tyr Thr Asn Ala Tyr Ala Val Phe
1 5 10

<210> 2988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*33:01,HLA-A*33:03

<400> 2988
Asp Leu Leu Asn Arg Thr Trp Ser Arg
1 5

<210> 2989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*25:01,HLA-B*18:01

<400> 2989
Asp Asn Leu Asp His Tyr Thr Asn Ala Tyr
1 5 10

<210> 2990
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*27:02

<400> 2990
Asp Asn Thr Ala Ser Ile Ser Leu Leu Lys
1 5 10

<210> 2991
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*26:01

<400> 2991
Asp Gln Phe Ala Thr Met Cys His Gly Tyr
1 5 10

<210> 2992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*39:01

<400> 2992
Asp Gln Val Phe Gln Ile Gln Gly Leu
1 5

<210> 2993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*25:01,HLA-A*26:01

<400> 2993
Asp Val Phe Asn Trp Asp Gln Val Phe
1 5

<210> 2994
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*68:02

<400> 2994
Asp Val Phe Asn Trp Asp Gln Val Phe Gln Ile
1 5 10

<210> 2995
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*68:01

<400> 2995
Asp Val Ser Lys Ala Val Ala Asn Ser Lys
1 5 10

<210> 2996
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*01:01

<400> 2996

Glu Ala Glu Thr Asp Asn Leu Asp His Tyr
1               5                   10


<210> 2997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*25:01,HLA-A*26:01,
      HLA-A*68:02,HLA-B*13:02,HLA-B*51:01,HLA-B*55:01

<400> 2997
Glu Leu Tyr Asp Val Ser Lys Ala Val
1               5


<210> 2998
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*26:01

<400> 2998
Glu Leu Tyr Asp Val Ser Lys Ala Val Ala
1               5                   10


<210> 2999
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*33:01

<400> 2999
Glu Leu Tyr Asp Val Ser Lys Ala Val Ala Asn
1               5                   10


<210> 3000
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;

HLA -A*01:01

<400> 3000
Glu Thr Asp Asn Leu Asp His Tyr
1 5

<210> 3001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:03

<400> 3001
Phe Leu Lys Gly Pro Ser Pro Arg Leu
1 5

<210> 3002
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:03

<400> 3002
Phe Leu Lys Gly Pro Ser Pro Arg Leu Thr
1 5 10

<210> 3003
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*29:02

<400> 3003
Phe Leu Lys Gly Pro Ser Pro Arg Leu Thr Tyr
1 5 10

<210> 3004
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*35:01,HLA-B*55:01

<400> 3004
Phe Pro Glu Ser Leu Lys Val Tyr
1 5

<210> 3005
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*54:01

<400> 3005
Phe Pro Glu Ser Leu Lys Val Tyr Gly Ala
1 5 10

<210> 3006
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,
HLA-B*56:01,HLA-C*03:04

<400> 3006
Phe Pro Ser Gln Gly Asn Val Leu
1 5

<210> 3007
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*39:01,HLA-C*02:02

<400> 3007
Phe Gln Ile Gln Gly Leu Gln Ser Glu Leu
1 5 10

<210> 3008
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 3008
Phe Gln Ile Gln Gly Leu Gln Ser Glu Leu Tyr
1 5 10

<210> 3009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*31:01

<400> 3009
Phe Tyr Lys Asp Val Arg Ala Tyr Arg
1 5

<210> 3010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -C*14:02

<400> 3010
Gly Phe Pro Ser Gln Gly Asn Val Leu
1 5

<210> 3011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*30:02

<400> 3011
Gly Gly Asn Glu Gln Cys Leu Arg Tyr
1 5

<210> 3012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02,HLA-B*55:01

<400> 3012
Gly Leu Gln Ser Glu Leu Tyr Asp Val
1 5

<210> 3013
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:02

<400> 3013
Gly Leu Gln Ser Glu Leu Tyr Asp Val Ser Lys
1 5 10

<210> 3014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*07:02,HLA-B*37:01,HLA-C*07:02

<400> 3014
Gly Pro Ser Pro Arg Leu Thr Tyr Leu
1 5

<210> 3015
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*23:01,HLA-A*24:02

<400> 3015
Gly Tyr Ser Arg Leu Val Ala Leu Thr Leu
1 5 10

<210> 3016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 3016
His Gly Tyr Thr Leu Pro Glu His Arg
1 5

<210> 3017
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*31:01

<400> 3017
His Gly Tyr Thr Leu Pro Glu His Arg Arg
1 5 10

<210> 3018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 3018
His Tyr Thr Asn Ala Tyr Ala Val Phe
1 5

<210> 3019
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*29:02

<400> 3019

His Tyr Thr Asn Ala Tyr Ala Val Phe Tyr
1               5                   10


<210> 3020
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*15:01

<400> 3020
Ile Gln Gly Leu Gln Ser Glu Leu
1               5


<210> 3021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 3021
Ile Gln Gly Leu Gln Ser Glu Leu Tyr
1               5


<210> 3022
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -C*05:01

<400> 3022
Ile Thr Asp Gln Phe Ala Thr Met
1               5


<210> 3023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*58:01,HLA-C*03:03,HLA-C*03:04,HLA-C*16:01,HLA-C*16:02

<400> 3023
Lys Ala Val Ala Asn Ser Lys Gln Leu
1               5


<210> 3024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*32:01

<400> 3024
Lys Gly Asn Pro Val Ser Trp Ser Ile
1               5


<210> 3025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*30:02,HLA-A*32:01,HLA-C*16:01

<400> 3025
Lys Gly Pro Ser Pro Arg Leu Thr Tyr
1               5


<210> 3026
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*02:07

<400> 3026
Lys Gly Pro Ser Pro Arg Leu Thr Tyr Leu
1               5                   10


<210> 3027
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*08:01,HLA-B*37:01

<400> 3027
Lys Gly Tyr Ser Arg Leu Val Ala Leu
1 5

<210> 3028
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03

<400> 3028
Lys Gln Leu Asn Ile Lys Leu Thr Ser Phe
1 5 10

<210> 3029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*03:01,HLA-A*32:01,
HLA-B*13:02,HLA-B*40:02,HLA-B*58:01

<400> 3029
Lys Val Tyr Gly Ala Val Met Asn Ile
1 5

<210> 3030
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:01,HLA-A*31:01

<400> 3030
Lys Val Tyr Gly Ala Val Met Asn Ile Asn Arg
1 5 10

<210> 3031
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*18:01,HLA-B*37:01

<400> 3031
Leu Asp His Tyr Thr Asn Ala Tyr
1 5

<210> 3032
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*23:01,HLA-B*39:01

<400> 3032
Leu Ile Leu Thr Pro Ala Thr Phe
1 5

<210> 3033
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*27:02

<400> 3033
Leu Pro Asp Thr Ser Phe Leu Lys
1 5

<210> 3034
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*13:02

<400> 3034
Leu Gln Ser Glu Leu Tyr Asp Val
1 5

<210> 3035
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*11:01,HLA-B*27:02

<400> 3035
Leu Gln Ser Glu Leu Tyr Asp Val Ser Lys
1 5 10

<210> 3036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:07,HLA-C*01:02

<400> 3036
Leu Thr Pro Ala Thr Phe Ser Gly Leu
1 5

<210> 3037
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -C*04:01

<400> 3037
Leu Tyr Asp Val Ser Lys Ala Val
1 5

<210> 3038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*08:01,HLA-C*16:01

<400> 3038
Met Asn Ile Asn Arg Gly Asn Pro Phe
1 5

<210> 3039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*25:01,HLA-B*44:02,HLA-B*44:03,HLA-B*51:01,HLA-B*57:01,
HLA-B*58:01

<400> 3039
Asn Ala Asp Leu Leu Asn Arg Thr Trp
1 5

<210> 3040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*01:01,HLA-A*02:07,HLA-A*29:02,HLA-A*30:02

<400> 3040
Asn Leu Asp His Tyr Thr Asn Ala Tyr
1 5

<210> 3041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:01,HLA-A*02:07,HLA-B*55:01

<400> 3041
Asn Leu Ile Ser Cys Phe Pro Ser Val
1 5

<210> 3042
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*08:01,HLA-B*51:01

<400> 3042
Asn Pro Phe Gln Lys Glu Val Val
1               5


<210> 3043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
      HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,HLA-C*07:02

<400> 3043
Asn Pro Phe Gln Lys Glu Val Val Leu
1               5


<210> 3044
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*35:01

<400> 3044
Asn Pro Val Ser Trp Ser Ile Thr Asp Gln Phe
1               5                   10


<210> 3045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,
      HLA-A*29:02,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*27:05,
      HLA-C*07:06

<400> 3045
Asn Thr Ala Ser Ile Ser Leu Leu Lys
1               5


<210> 3046
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*68:02

<400> 3046
Asn Thr Ala Ser Ile Ser Leu Leu Lys Ser Leu
1 5 10

<210> 3047
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*25:01

<400> 3047
Asn Val Leu Asp Asp Asn Thr Ala Ser Ile
1 5 10

<210> 3048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*29:02

<400> 3048
Gln Phe Ala Thr Met Cys His Gly Tyr
1 5

<210> 3049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -C*01:02

<400> 3049
Gln Ile Gln Gly Leu Gln Ser Glu Leu
1 5

<210> 3050
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*30:02,HLA-B*15:01

<400> 3050
Gln Ile Gln Gly Leu Gln Ser Glu Leu Tyr
1 5 10

<210> 3051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:03,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*31:01,
HLA-A*32:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,
HLA-B*46:01

<400> 3051
Gln Leu Asn Ile Lys Leu Thr Ser Phe
1 5

<210> 3052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*27:02

<400> 3052
Gln Ser Glu Leu Tyr Asp Val Ser Lys
1 5

<210> 3053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*44:03,HLA-B*58:01

<400> 3053
Arg Asp Glu Lys Gly Asn Pro Val Ser Trp
1 5 10

<210> 3054
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*30:02,HLA-B*44:02,HLA-B*44:03

<400> 3054
Arg Glu Ala Glu Thr Asp Asn Leu Asp His Tyr
1 5 10

<210> 3055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 3055
Arg Leu Ile Leu Thr Pro Ala Thr Phe
1 5

<210> 3056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:01

<400> 3056
Arg Leu Val Ala Leu Thr Leu Ala Arg
1 5

<210> 3057
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*23:01,HLA-A*24:02

<400> 3057
Arg Tyr Ile Ala Asn Leu Ile Ser Cys Phe
1               5                   10


<210> 3058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*13:02

<400> 3058
Ser Cys Phe Pro Glu Ser Leu Lys Val
1               5


<210> 3059
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*30:02,HLA-B*15:01,HLA-C*12:03

<400> 3059
Ser Cys Phe Pro Glu Ser Leu Lys Val Tyr
1               5                   10


<210> 3060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*31:01

<400> 3060
Ser Cys Phe Pro Ser Val Cys Val Arg
1               5


<210> 3061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;

HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 3061
Ser Glu Leu Tyr Asp Val Ser Lys Ala
1 5

<210> 3062
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*49:01

<400> 3062
Ser Glu Leu Tyr Asp Val Ser Lys Ala Val
1 5 10

<210> 3063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*37:01

<400> 3063
Ser Ile Ser Leu Leu Lys Ser Leu
1 5

<210> 3064
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*32:01,HLA-A*68:01,
HLA-A*68:02,HLA-B*18:01,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*46:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04

<400> 3064
Ser Ile Thr Asp Gln Phe Ala Thr Met
1 5

<210> 3065
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*08:01,HLA-B*46:01

<400> 3065
Ser Leu Lys Val Tyr Gly Ala Val Met
1 5

<210> 3066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3066
Ser Leu Pro Asp Thr Ser Phe Leu Lys
1 5

<210> 3067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*07:02,HLA-B*54:01,HLA-B*56:01,HLA-C*07:02

<400> 3067
Ser Pro Arg Leu Thr Tyr Leu Ser Val
1 5

<210> 3068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*56:01

<400> 3068
Ser Pro Val Ser Ser Leu Pro Asp Thr
1 5

<210> 3069

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-B*56:01,
HLA-C*03:03

<400> 3069
Ser Pro Val Ser Ser Leu Pro Asp Thr Ser Phe
1 5 10

<210> 3070
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*11:01

<400> 3070
Ser Ser Leu Pro Asp Thr Ser Phe Leu Lys
1 5 10

<210> 3071
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-B*13:02

<400> 3071
Ser Thr Lys Leu Leu Ile Leu Glu Lys
1 5

<210> 3072
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 3072

Ser Val Ala Asn Ala Asp Leu Leu Asn Arg
1               5                   10


<210> 3073
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*27:02

<400> 3073
Thr Ala Ser Ile Ser Leu Leu Lys
1               5


<210> 3074
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*23:01

<400> 3074
Thr Phe Ser Gly Leu Pro His Leu
1               5


<210> 3075
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*07:02

<400> 3075
Thr Pro Ala Thr Phe Ser Gly Leu
1               5


<210> 3076
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*07:02,HLA-B*35:03,HLA-C*04:01,HLA-C*06:02

<400> 3076
Thr Pro Ala Thr Phe Ser Gly Leu Pro His Leu
1               5                   10


<210> 3077
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*57:01

<400> 3077
Thr Ser Phe Lys Ala Val His Phe
1               5


<210> 3078
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*23:01,HLA-A*24:02

<400> 3078
Thr Tyr Leu Ser Val Ala Asn Ala Asp Leu Leu
1               5                   10


<210> 3079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -C*16:01,HLA-C*16:02

<400> 3079
Val Ala Leu Thr Leu Ala Arg Lys Leu
1               5


<210> 3080
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 3080
Val Ala Asn Ala Asp Leu Leu Asn Arg
1 5

<210> 3081
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*32:01,HLA-B*44:02,HLA-B*57:01,HLA-B*58:01

<400> 3081
Val Ala Asn Ala Asp Leu Leu Asn Arg Thr Trp
1 5 10

<210> 3082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,
HLA-B*51:01,HLA-B*58:01,HLA-C*16:02

<400> 3082
Val Ala Asn Ser Lys Gln Leu Asn Ile
1 5

<210> 3083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*29:02,HLA-A*30:02

<400> 3083
Val Phe Tyr Lys Asp Val Arg Ala Tyr
1 5

<210> 3084
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*31:01

<400> 3084
Val Phe Tyr Lys Asp Val Arg Ala Tyr Arg
1 5 10

<210> 3085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -B*15:03,HLA-B*38:01,HLA-B*39:01

<400> 3085
Val His Phe Ser Pro Val Ser Ser Leu
1 5

<210> 3086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*30:01,
HLA-A*32:01,HLA-B*13:02,HLA-B*38:01,HLA-B*55:01,HLA-C*04:01,
HLA-C*05:01

<400> 3086
Val Leu Asp Asp Asn Thr Ala Ser Ile
1 5

<210> 3087
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:01,HLA-A*02:07,HLA-B*38:01,HLA-B*55:01,HLA-C*05:01

<400> 3087
Val Leu Asp Asp Asn Thr Ala Ser Ile Ser Leu
1 5 10

<210> 3088
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*02:01,HLA-A*02:07

<400> 3088
Val Leu Asp Ser Trp Pro Asp Phe Lys Ala Val
1 5 10

<210> 3089
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*32:01,HLA-C*16:01

<400> 3089
Val Met Asn Ile Asn Arg Gly Asn Pro Phe
1 5 10

<210> 3090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*03:02,HLA-A*31:01,HLA-B*58:01

<400> 3090
Val Ser Lys Ala Val Ala Asn Ser Lys
1 5

<210> 3091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
HLA -A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-B*58:01,HLA-C*05:01

<400> 3091

Val Ser Ser Leu Pro Asp Thr Ser Phe
1               5


<210> 3092
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*11:01

<400> 3092
Val Ser Ser Leu Pro Asp Thr Ser Phe Leu Lys
1               5                   10


<210> 3093
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*23:01,HLA-A*24:02

<400> 3093
Val Tyr Gly Ala Val Met Asn Ile
1               5


<210> 3094
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-B*27:02

<400> 3094
Val Tyr Gly Ala Val Met Asn Ile Asn Arg
1               5                   10


<210> 3095
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -B*08:01

<400> 3095
Trp Pro Asp Phe Lys Ala Val Ile
1               5


<210> 3096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 3096
Tyr Gly Ala Val Met Asn Ile Asn Arg
1               5


<210> 3097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*25:01,HLA-A*26:01,HLA-B*46:01,HLA-C*02:02

<400> 3097
Tyr Ile Ala Asn Leu Ile Ser Cys Phe
1               5


<210> 3098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GLYATL3; ENSG00000203972;
      HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,HLA-B*57:01,HLA-C*02:02

<400> 3098
Tyr Thr Asn Ala Tyr Ala Val Phe Tyr
1               5


<210> 3099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07,HLA-B*51:01,HLA-C*01:02

<400> 3099
Ala Ala Pro Thr Val Glu Val Asn Val
1 5

<210> 3100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*16:02

<400> 3100
Ala Ala Thr Ser Pro Gly His Ile Ile
1 5

<210> 3101
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*49:01

<400> 3101
Ala Glu Ala Asn Asn Val Cys Ile
1 5

<210> 3102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 3102
Ala Glu Ala Asn Asn Val Cys Ile Ala Phe
1 5 10

<210> 3103
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3103
Ala Glu Ile Leu Ser Asp Lys Ile
1 5

<210> 3104
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*44:02,HLA-B*44:03

<400> 3104
Ala Glu Ile Leu Ser Asp Lys Ile Arg Phe
1 5 10

<210> 3105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07,HLA-A*30:01,HLA-B*13:02,HLA-B*27:02,HLA-B*37:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-C*16:04

<400> 3105
Ala Glu Pro Gly Leu Ile His Ser Ile
1 5

<210> 3106
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 3106
Ala Glu Pro Gly Leu Ile His Ser Ile Gln Leu
1 5 10

<210> 3107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*49:01,HLA-C*16:04

<400> 3107
Ala Glu Tyr Asp Leu Gln Asn Asp Val
1 5

<210> 3108
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 3108
Ala Glu Tyr Asp Leu Gln Asn Asp Val Phe
1 5 10

<210> 3109
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*49:01

<400> 3109
Ala Glu Tyr Asp Leu Gln Asn Asp Val Phe Ile
1 5 10

<210> 3110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-B*46:01

<400> 3110
Ala Phe Lys Glu Val Leu Pro Ala Phe
1               5


<210> 3111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*29:02,HLA-A*30:02

<400> 3111
Ala Phe Lys Gly Lys Tyr Glu Asn Tyr
1               5


<210> 3112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*29:02,HLA-A*30:02

<400> 3112
Ala Phe Leu Lys Met Ile Tyr Ser Tyr
1               5


<210> 3113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*02:04

<400> 3113
Ala Ile Leu Leu Leu Ile Leu Ser Leu
1               5


<210> 3114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;

HLA -A*31:01

<400> 3114
Ala Ile Arg Asp Leu Cys Gln Ala Arg
1 5

<210> 3115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3115
Ala Leu Gly Tyr Ala Ile Arg Asp Leu
1 5

<210> 3116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-B*55:01,HLA-B*56:01

<400> 3116
Ala Leu Asn Thr Phe Ile Ile Gln Ala
1 5

<210> 3117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-A*02:04

<400> 3117
Ala Met Ala Ala Thr Leu Arg Phe Leu
1 5

<210> 3118
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01

<400> 3118
Ala Met Ala His Leu Ile Gln Lys
1 5

<210> 3119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 3119
Ala Met His Leu Ser Ala Cys Ala Tyr
1 5

<210> 3120
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*46:01

<400> 3120
Ala Met Ile His Ser Ile Glu Met
1 5

<210> 3121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*55:01

<400> 3121
Ala Met Ile His Ser Ile Glu Met Ile
1 5

<210> 3122

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02,HLA-B*35:03,HLA-B*56:01,HLA-C*07:02

<400> 3122
Ala Pro Thr Val Glu Val Asn Val Ser Leu
1 5 10

<210> 3123
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*56:01

<400> 3123
Ala Pro Val Arg Ser Thr Met Cys
1 5

<210> 3124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02

<400> 3124
Ala Pro Val Arg Ser Thr Met Cys Phe
1 5

<210> 3125
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*13:02

<400> 3125
Ala Gln Val Asn Val Ile Val Val
1 5

<210> 3126
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*32:01,
HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*38:01,
HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*58:01,HLA-C*02:02,

<220>
<223> HLA-C*12:03,HLA-C*16:04

<400> 3126
Ala Gln Val Asn Val Ile Val Val Phe
1 5

<210> 3127
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 3127
Ala Thr Lys Ile Thr Thr Ile Pro Asn Val Lys
1 5 10

<210> 3128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*57:01

<400> 3128
Ala Thr Leu Arg Phe Leu Ser Lys Phe
1 5

<210> 3129
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01,HLA-A*68:01

<400> 3129
Ala Thr Ser Val Ser Lys Thr Leu Pro Arg
1 5 10

<210> 3130
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01

<400> 3130
Ala Thr Ser Val Ser Lys Thr Leu Pro Arg Lys
1 5 10

<210> 3131
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04,HLA-B*13:02

<400> 3131
Ala Val Phe Ala Leu Gly Tyr Ala Ile
1 5

<210> 3132
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01,HLA-B*46:01

<400> 3132
Ala Val Ile Gly Ser Gly Tyr Ser Glu Ile
1 5 10

<210> 3133
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:03

<400> 3133
Ala Tyr Lys Ala Asn Lys Ala Ile Glu Arg
1 5 10

<210> 3134
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3134
Cys Ala Tyr Val Lys Asp Thr Asp Leu
1 5

<210> 3135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 3135
Cys Glu Glu Gly Ser Ile Leu Ala Phe
1 5

<210> 3136
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:02

<400> 3136
Cys Gln Asn Cys Pro Glu Asn His Tyr
1 5

<210> 3137

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*27:02,HLA-B*27:05

<400> 3137
Cys Arg Glu Asn Ala Thr Ser Val Ser Lys
1 5 10

<210> 3138
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3138
Asp Ala His Gly Asp Leu Asn Thr Gly Tyr
1 5 10

<210> 3139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*26:01,HLA-A*33:01,HLA-B*08:01,HLA-B*18:01

<400> 3139
Asp Leu Phe Asn Lys Ala Ile Glu Met
1 5

<210> 3140
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:01,HLA-A*33:03

<400> 3140
Asp Asn Thr Ile Glu Val Arg Ile Asn Arg
1 5 10

<210> 3141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3141
Asp Asn Trp Ser Thr Ala Thr Lys Ile
1 5

<210> 3142
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3142
Asp Pro Lys Leu Gln Lys Phe Leu
1 5

<210> 3143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:01

<400> 3143
Asp Pro Lys Leu Gln Lys Phe Leu Lys
1 5

<210> 3144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-A*26:01,HLA-A*30:02,HLA-A*33:01,HLA-B*18:01

<400> 3144
Asp Ser His Lys Leu Leu His Glu Tyr

1 5

<210> 3145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3145
Asp Ser Leu Ala Ile Leu Leu Leu Ile
1 5

<210> 3146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*39:01,HLA-B*51:01

<400> 3146
Asp Ser Met Ser Gly Asn Val Thr Met
1 5

<210> 3147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3147
Asp Ser Pro Arg Arg Pro Gln Ile
1 5

<210> 3148
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*26:01

<400> 3148
Asp Thr Cys Thr Glu Val Thr Val Ala Met
1               5                   10


<210> 3149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*01:01

<400> 3149
Asp Thr Asp Leu Ser Gln Cys Ile Phe
1               5


<210> 3150
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*68:01,HLA-A*68:02

<400> 3150
Asp Val Phe Ile Ile Pro Asp Gln Glu Thr Lys
1               5                   10


<210> 3151
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*33:01

<400> 3151
Asp Tyr Ala Glu Pro Gly Leu Ile His Ser
1               5                   10


<210> 3152
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*33:01,HLA-A*33:03,HLA-B*38:01

<400> 3152
Asp Tyr Ala Glu Pro Gly Leu Ile His Ser Ile
1 5 10

<210> 3153
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02

<400> 3153
Asp Tyr Gly Arg Leu Ala Leu Asn Thr Phe
1 5 10

<210> 3154
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:01

<400> 3154
Asp Tyr Ser Ser Tyr Met Pro Arg
1 5

<210> 3155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*18:01,HLA-B*27:02,
HLA-B*35:01,HLA-B*35:03,HLA-B*44:03,HLA-B*55:01,HLA-B*57:01,

<220>
<223> HLA-B*58:01,HLA-C*03:03,HLA-C*07:06,HLA-C*16:04

<400> 3155
Glu Ala Asn Asn Val Cys Ile Ala Phe
1 5

<210> 3156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*68:01

<400> 3156
Glu Ala Asn Asn Val Cys Ile Ala Phe Lys
1 5 10

<210> 3157
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01

<400> 3157
Glu Ala Gln Val Asn Val Ile Val Val Phe
1 5 10

<210> 3158
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3158
Glu Cys Val Gly Phe Glu Ile Ser Val Phe
1 5 10

<210> 3159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3159
Glu Asp Ser Pro Arg Arg Pro Gln Ile

1 5

<210> 3160
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 3160
Glu Glu Gly Ser Ile Leu Ala Phe
1 5

<210> 3161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3161
Glu Ile Ile Val Ile Leu Ile Ser Asn Tyr
1 5 10

<210> 3162
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3162
Glu Ile Asn Gly His Met Thr Val
1 5

<210> 3163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3163
Glu Ile Asn Gly His Met Thr Val Thr
1               5


<210> 3164
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*03:02,HLA-A*25:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-C*07:06

<400> 3164
Glu Ile Asn Gly His Met Thr Val Thr Lys
1               5                   10


<210> 3165
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*25:01,HLA-A*26:01

<400> 3165
Glu Ile Asn Gly His Met Thr Val Thr Lys Met
1               5                   10


<210> 3166
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*08:01

<400> 3166
Glu Ile Asn Thr Lys Ser Ala Phe
1               5


<210> 3167
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01,HLA-B*08:01

<400> 3167
Glu Ile Asn Thr Lys Ser Ala Phe Leu
1 5

<210> 3168
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:02,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 3168
Glu Ile Asn Thr Lys Ser Ala Phe Leu Lys
1 5 10

<210> 3169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*44:02

<400> 3169
Glu Ile Ser Val Phe Leu Gln Thr Leu
1 5

<210> 3170
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:03,HLA-A*68:01

<400> 3170
Glu Ile Thr Met Ala Val Ser Arg
1 5

<210> 3171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3171
Glu Ile Thr Met Ala Val Ser Arg Met
1 5

<210> 3172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*13:02

<400> 3172
Glu Ile Tyr Asp Thr Cys Thr Glu Val
1 5

<210> 3173
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01

<400> 3173
Glu Leu Leu Gly Val Leu Lys Asn Val Thr Phe
1 5 10

<210> 3174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*26:01

<400> 3174
Glu Met Ile Asn Asn Ser Thr Leu Leu
1 5

<210> 3175
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03

<400> 3175
Glu Asn Tyr Asn Glu Ala Lys Phe Ile Thr Phe
1 5 10

<210> 3176
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01,HLA-B*51:01

<400> 3176
Glu Pro Gly Leu Ile His Ser Ile
1 5

<210> 3177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:01,HLA-A*33:03

<400> 3177
Glu Pro Gln Asp Phe Thr Cys Lys Thr Arg
1 5 10

<210> 3178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*33:03

<400> 3178
Glu Thr Lys Asn Glu Phe Arg Asn Leu
1 5

<210> 3179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3179
Glu Thr Val Glu Phe Lys Cys Asp Tyr
1 5

<210> 3180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*26:01

<400> 3180
Glu Val Asn Val Ser Leu Pro Arg Val
1 5

<210> 3181
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01

<400> 3181
Glu Val Asn Val Ser Leu Pro Arg Val Ile
1 5 10

<210> 3182
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3182
Glu Val Arg Ile Asn Arg Thr Leu
1 5

<210> 3183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3183
Glu Val Thr Val Ala Met Ala Ala Thr
1 5

<210> 3184
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01

<400> 3184
Glu Val Thr Val Ala Met Ala Ala Thr Leu
1 5 10

<210> 3185
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:03,HLA-A*68:01

<400> 3185
Glu Val Thr Val Ala Met Ala Ala Thr Leu Arg
1 5 10

<210> 3186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02,HLA-B*35:03,HLA-B*55:01,HLA-C*04:01

<400> 3186

Glu Tyr Asp Leu Gln Asn Asp Val Phe
1               5


<210> 3187
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01,HLA-A*24:02

<400> 3187
Glu Tyr Leu Asn Trp Asn Asp Ser Leu
1               5


<210> 3188
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*35:03,HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,
      HLA-B*56:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,
      HLA-C*12:03,HLA-C*16:02

<400> 3188
Phe Ala Ala Pro Thr Val Glu Val
1               5


<210> 3189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*68:02,HLA-C*02:02

<400> 3189
Phe Ala Ala Pro Thr Val Glu Val Asn Val
1               5                   10


<210> 3190
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02,HLA-B*35:01,HLA-C*02:02

<400> 3190
Phe Ala Phe Lys Gly Lys Tyr Glu Asn Tyr
1 5 10

<210> 3191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*49:01

<400> 3191
Phe Glu Ile Ser Val Phe Leu Gln Thr
1 5

<210> 3192
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*49:01

<400> 3192
Phe Glu Ile Ser Val Phe Leu Gln Thr Leu
1 5 10

<210> 3193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01

<400> 3193
Phe Glu Lys Glu Val Glu Tyr Leu
1 5

<210> 3194
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*44:02

<400> 3194
Phe Glu Lys Glu Val Glu Tyr Leu Asn Trp
1 5 10

<210> 3195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 3195
Phe Phe Ile Gly Glu Pro Gln Asp Phe
1 5

<210> 3196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02,HLA-A*30:02

<400> 3196
Phe Ile Phe Ala Phe Lys Gly Lys Tyr
1 5

<210> 3197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*58:01

<400> 3197
Phe Ile Ile Pro Asp Gln Glu Thr Lys
1 5

<210> 3198
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-A*68:02

<400> 3198
Phe Ile Ile Gln Ala Glu Ala Asn Asn Val
1 5 10

<210> 3199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07,HLA-A*24:02,HLA-B*46:01,HLA-C*01:02

<400> 3199
Phe Ile Pro Ile Tyr Ala Thr Thr Phe
1 5

<210> 3200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02

<400> 3200
Phe Ile Thr Phe Gly Met Leu Ile Tyr
1 5

<210> 3201
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*01:02,
HLA-C*02:02,HLA-C*07:04,HLA-C*14:02

<400> 3201
Phe Leu Asn Phe Ala Ser Thr Ser Phe
1 5

<210> 3202
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3202
Phe Leu Gln Asn Leu His Leu Leu
1 5

<210> 3203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*46:01

<400> 3203
Phe Leu Arg Thr Val Pro Ser Asp Phe
1 5

<210> 3204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*13:02,HLA-B*46:01,HLA-B*55:01,HLA-C*02:02

<400> 3204
Phe Leu Ser Asp Asn Thr Ile Glu Val
1 5

<210> 3205
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:04

<400> 3205

Phe Leu Ser Asp Asn Thr Ile Glu Val Arg Ile
1               5                   10


<210> 3206
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 3206
Phe Leu Trp Asp Tyr Ala Glu Pro Gly Leu
1               5                   10


<210> 3207
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*02:01,HLA-A*02:04

<400> 3207
Phe Leu Trp Asp Tyr Ala Glu Pro Gly Leu Ile
1               5                   10


<210> 3208
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*29:02

<400> 3208
Phe Asn His Ser Gln Arg Thr Leu Ala Tyr
1               5                   10


<210> 3209
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*51:01,HLA-B*54:01

<400> 3209
Phe Pro Ser Phe Leu Arg Thr Val
1               5


<210> 3210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*02:07

<400> 3210
Phe Gln Pro Trp Glu Leu Leu Gly Val
1               5


<210> 3211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*03:01,HLA-A*11:01

<400> 3211
Phe Ser Phe Asp Pro Lys Leu Gln Lys
1               5


<210> 3212
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*68:02,HLA-B*57:01,
      HLA-C*02:02

<400> 3212
Phe Ser Phe Asp Pro Lys Leu Gln Lys Phe
1               5                   10


<210> 3213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01

<400> 3213
Gly Gly Leu Phe Ala Ile His Glu Lys
1 5

<210> 3214
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3214
Gly His Met Thr Val Thr Lys Met
1 5

<210> 3215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:01

<400> 3215
Gly Ile Ile Thr Thr Asp Asp Asp Tyr
1 5

<210> 3216
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:03

<400> 3216
Gly Lys Val Val Gly Phe Ala Phe
1 5

<210> 3217
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:03

<400> 3217
Gly Lys Tyr Val Pro Ala Val Glu Ile
1 5

<210> 3218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01

<400> 3218
Gly Asn Ile Ser Ser Phe His Ser Phe
1 5

<210> 3219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02

<400> 3219
Gly Tyr Ile Ala Ile Leu Ala Phe Ile
1 5

<210> 3220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*68:02,
HLA-B*13:02,HLA-B*27:05,HLA-B*49:01,HLA-C*14:02

<400> 3220
Gly Tyr Ser Glu Ile Thr Met Ala Val
1 5

<210> 3221
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*31:01,HLA-A*33:03

<400> 3221
Gly Tyr Ser Glu Ile Thr Met Ala Val Ser Arg
1 5 10

<210> 3222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*49:01,HLA-B*54:01

<400> 3222
His Glu Tyr Ala Met His Leu Ser Ala
1 5

<210> 3223
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*04:01

<400> 3223
His Phe Asp Ala His Gly Asp Leu
1 5

<210> 3224
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 3224
His Phe Leu Asn Phe Ala Ser Thr Ser Phe
1 5 10

<210> 3225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3225
His Leu Leu Pro Ser Asp Ser His Lys Leu
1 5 10

<210> 3226
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3226
His Leu Leu Pro Ser Asp Ser His Lys Leu Leu
1 5 10

<210> 3227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:02

<400> 3227
His Leu Ser Ala Cys Ala Tyr Val Lys
1 5

<210> 3228
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-A*30:02,HLA-B*58:01

<400> 3228

His Ser Gln Arg Thr Leu Ala Tyr
1               5


<210> 3229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*03:02,HLA-A*33:01

<400> 3229
His Ser Gln Arg Thr Leu Ala Tyr Lys
1               5


<210> 3230
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -C*03:03,HLA-C*03:04

<400> 3230
His Ser Val Ser Ser Ile Ala Leu
1               5


<210> 3231
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*68:02,HLA-B*54:01

<400> 3231
His Val Phe Asp Leu Phe Asn Lys Ala
1               5


<210> 3232
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*68:02

<400> 3232
His Val Phe Asp Leu Phe Asn Lys Ala Ile
1               5                   10


<210> 3233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*24:02

<400> 3233
His Trp Ala Pro Val Arg Ser Thr Met
1               5


<210> 3234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*54:01

<400> 3234
Ile Ala Phe Lys Glu Val Leu Pro Ala
1               5


<210> 3235
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*57:01

<400> 3235
Ile Ala Phe Lys Glu Val Leu Pro Ala Phe
1               5                   10


<210> 3236
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-C*03:03,HLA-C*03:04

<400> 3236
Ile Ala Leu Ser Pro Ala Ser Leu
1 5

<210> 3237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3237
Ile Glu Met Ile Asn Asn Ser Thr Leu
1 5

<210> 3238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 3238
Ile Glu Met Ile Asn Asn Ser Thr Leu Leu
1 5 10

<210> 3239
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*49:01

<400> 3239
Ile Glu Met Asn Ile Asn Lys Met
1 5

<210> 3240
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*44:02,HLA-B*44:03

<400> 3240
Ile Glu Met Asn Ile Asn Lys Met Trp
1 5

<210> 3241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01

<400> 3241
Ile Glu Val Arg Ile Asn Arg Thr Leu
1 5

<210> 3242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-B*46:01,HLA-C*14:02

<400> 3242
Ile Phe Ala Ala Pro Thr Val Glu Val
1 5

<210> 3243
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01

<400> 3243
Ile Phe Ala Ala Pro Thr Val Glu Val Asn Val
1 5 10

<210> 3244

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*14:02

<400> 3244
Ile Phe Asn His Ser Gln Arg Thr Leu
1 5

<210> 3245
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02

<400> 3245
Ile Phe Asn His Ser Gln Arg Thr Leu Ala Tyr
1 5 10

<210> 3246
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01

<400> 3246
Ile Phe Val Leu Val Val Gly Ile Ile Phe
1 5 10

<210> 3247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-B*46:01

<400> 3247
Ile Gly Lys Val Val Gly Phe Ala Phe
1 5

<210> 3248
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*39:01

<400> 3248
Ile Gly Ser Gly Tyr Ser Glu Ile Thr Met
1 5 10

<210> 3249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*38:01

<400> 3249
Ile His Ser Ile Gln Leu Ala Val Phe
1 5

<210> 3250
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02

<400> 3250
Ile Ile Cys Lys Gln Glu Ile Asn Thr Lys
1 5 10

<210> 3251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04,HLA-A*23:01

<400> 3251
Ile Ile Ile Gly Gly Leu Phe Ala Ile

1 5

<210> 3252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 3252
Ile Ile Leu Glu Ala Gln Val Asn Val
1 5

<210> 3253
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07

<400> 3253
Ile Ile Leu Glu Ala Gln Val Asn Val Ile Val
1 5 10

<210> 3254
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02,HLA-A*32:01,HLA-B*15:01

<400> 3254
Ile Ile Pro Asp Gln Glu Thr Lys Asn Glu Phe
1 5 10

<210> 3255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01

<400> 3255
Ile Ile Val Ile Leu Ile Ser Asn Tyr
1               5


<210> 3256
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*29:02

<400> 3256
Ile Leu Ala Phe Gly Thr Met Leu Gly Tyr
1               5                   10


<210> 3257
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*02:01

<400> 3257
Ile Leu Glu Ala Gln Val Asn Val Ile
1               5


<210> 3258
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*29:02

<400> 3258
Ile Leu Ile Ser Asn Tyr Gly Ile Leu Tyr
1               5                   10


<210> 3259
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;

HLA -A*02:04

<400> 3259
Ile Leu Leu Leu Ile Leu Ser Leu Leu
1 5

<210> 3260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01

<400> 3260
Ile Leu Tyr Cys Thr Phe Ile Pro Lys
1 5

<210> 3261
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,
HLA-C*03:03,HLA-C*05:01

<400> 3261
Ile Pro Asp Gln Glu Thr Lys Asn Glu Phe
1 5 10

<210> 3262
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-B*08:01,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*51:01

<400> 3262
Ile Pro Ile Tyr Ala Thr Thr Phe
1 5

<210> 3263
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*13:02

<400> 3263
Ile Gln Ala Glu Ala Asn Asn Val
1 5

<210> 3264
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:05,HLA-B*38:01

<400> 3264
Ile Gln Ala Glu Ala Asn Asn Val Cys Ile
1 5 10

<210> 3265
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02

<400> 3265
Ile Gln Leu Ala Val Phe Ala Leu Gly Tyr
1 5 10

<210> 3266
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:01

<400> 3266
Ile Gln Val Val Ile Cys Thr Leu
1 5

<210> 3267

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-A*30:02

<400> 3267
Ile Ser Asn Tyr Gly Ile Leu Tyr
1 5

<210> 3268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*57:01

<400> 3268
Ile Thr Phe Gly Met Leu Ile Tyr Phe
1 5

<210> 3269
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*57:01

<400> 3269
Ile Thr Phe Ile Pro Ile Tyr Ala Thr Thr Phe
1 5 10

<210> 3270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-C*03:03,HLA-C*03:04,HLA-C*16:01

<400> 3270
Ile Thr Met Ala Val Ser Arg Met Leu
1 5

<210> 3271
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:02

<400> 3271
Ile Thr Thr Ile Pro Asn Val Lys
1 5

<210> 3272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 3272
Ile Thr Thr Ile Pro Asn Val Lys Lys
1 5

<210> 3273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*16:02

<400> 3273
Ile Thr Thr Ile Pro Asn Val Lys Lys Ile
1 5 10

<210> 3274
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:01,HLA-B*18:01

<400> 3274
Ile Val Ile Leu Ile Ser Asn Tyr

1 5

<210> 3275
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02

<400> 3275
Ile Tyr Ala Thr Thr Phe Gly Lys Tyr
1 5

<210> 3276
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*04:01

<400> 3276
Ile Tyr Asp Thr Cys Thr Glu Val
1 5

<210> 3277
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*35:03,HLA-C*04:01

<400> 3277
Ile Tyr Asp Thr Cys Thr Glu Val Thr Val
1 5 10

<210> 3278
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02

<400> 3278
Ile Tyr Phe Ile Ala Trp Ile Thr Phe
1               5


<210> 3279
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*24:02,HLA-C*14:02,HLA-C*16:02

<400> 3279
Ile Tyr Ser Tyr Ser Ser His Ser Val
1               5


<210> 3280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*27:05,
      HLA-B*58:01

<400> 3280
Lys Ala Ile Glu Met Asn Ile Asn Lys
1               5


<210> 3281
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*58:01

<400> 3281
Lys Ala Ile Glu Met Asn Ile Asn Lys Met
1               5                   10


<210> 3282
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*08:01,HLA-B*37:01,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:04,
HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 3282
Lys Ala Ile Glu Arg Asn Phe Val Met
1 5

<210> 3283
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*31:01

<400> 3283
Lys Ala Ile Glu Arg Asn Phe Val Met Arg
1 5 10

<210> 3284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 3284
Lys Ala Met Ala His Leu Ile Gln Lys
1 5

<210> 3285
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*57:01

<400> 3285
Lys Ala Asn Lys Ala Ile Glu Arg Asn Phe
1 5 10

<210> 3286
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,HLA-B*46:01,
HLA-B*58:01

<400> 3286
Lys Ala Val Ile Gly Ser Gly Tyr
1 5

<210> 3287
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3287
Lys Asp Leu Gln Ala Gln Ala Phe
1 5

<210> 3288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,
HLA-B*49:01

<400> 3288
Lys Glu Ile Asn Gly His Met Thr Val
1 5

<210> 3289
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 3289
Lys Glu Ile Asn Gly His Met Thr Val Thr
1 5 10

<210> 3290
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*44:02

<400> 3290
Lys Glu Val Glu Tyr Leu Asn Trp
1 5

<210> 3291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3291
Lys Glu Val Leu Pro Ala Phe Leu
1 5

<210> 3292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02

<400> 3292
Lys Phe Ile Thr Phe Gly Met Leu Ile Tyr
1 5 10

<210> 3293
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*32:01,HLA-B*37:01

<400> 3293

Lys Ile Gly Lys Val Val Gly Phe
1               5


<210> 3294
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3294
Lys Ile Thr Thr Ile Pro Asn Val Lys
1               5


<210> 3295
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3295
Lys Ile Thr Thr Ile Pro Asn Val Lys Lys
1               5                   10


<210> 3296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*15:03

<400> 3296
Lys Lys Ile Gly Lys Val Val Gly Phe
1               5


<210> 3297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*57:01,HLA-B*58:01

<400> 3297
Lys Asn Val Thr Phe Thr Asp Gly Trp
1               5


<210> 3298
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
      HLA-B*57:01,HLA-B*58:01

<400> 3298
Lys Ser Lys Asp Leu Gln Ala Gln Ala Phe
1               5                   10


<210> 3299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*57:01

<400> 3299
Lys Ser Leu Lys Ile Leu Leu Ala Phe
1               5


<210> 3300
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*31:01

<400> 3300
Lys Val Val Gly Phe Ala Phe Arg
1               5


<210> 3301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*31:01

<400> 3301
Lys Val Val Gly Phe Ala Phe Arg Arg
1 5

<210> 3302
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02

<400> 3302
Lys Tyr Glu Asn Tyr Asn Glu Ala Lys Phe
1 5 10

<210> 3303
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02

<400> 3303
Lys Tyr Val Pro Ala Val Glu Ile
1 5

<210> 3304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02

<400> 3304
Lys Tyr Val Pro Ala Val Glu Ile Ile
1 5

<210> 3305
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02

<400> 3305
Lys Tyr Val Pro Ala Val Glu Ile Ile Val Ile
1 5 10

<210> 3306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02,HLA-B*15:03,HLA-B*46:01,HLA-C*02:02

<400> 3306
Leu Ala Phe Gly Thr Met Leu Gly Tyr
1 5

<210> 3307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04,HLA-A*68:02,HLA-B*35:03,HLA-C*02:02

<400> 3307
Leu Ala Phe Ser Phe Asp Pro Lys Leu
1 5

<210> 3308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*46:01,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*16:01

<400> 3308
Leu Ala Met Ile His Ser Ile Glu Met
1 5

<210> 3309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3309
Leu Ala Tyr Lys Ala Asn Lys Ala Ile
1 5

<210> 3310
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*49:01

<400> 3310
Leu Glu Ala Gln Val Asn Val Ile
1 5

<210> 3311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*49:01

<400> 3311
Leu Glu Ala Gln Val Asn Val Ile Val
1 5

<210> 3312
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*49:01

<400> 3312
Leu Glu Ala Gln Val Asn Val Ile Val Val
1 5 10

<210> 3313
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*44:02,HLA-B*44:03

<400> 3313
Leu Glu Ala Gln Val Asn Val Ile Val Val Phe
1 5 10

<210> 3314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*40:01

<400> 3314
Leu Glu Cys Glu Glu Gly Ser Ile Leu
1 5

<210> 3315
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*18:01

<400> 3315
Leu Glu Cys Glu Glu Gly Ser Ile Leu Ala Phe
1 5 10

<210> 3316
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*14:02

<400> 3316

Leu Phe Asn Lys Ala Ile Glu Met
1 5

<210> 3317
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3317
Leu Ile Phe Ala Ala Pro Thr Val
1 5

<210> 3318
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-A*68:02

<400> 3318
Leu Ile Phe Ala Ala Pro Thr Val Glu Val
1 5 10

<210> 3319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-A*29:02

<400> 3319
Leu Ile Ser Asn Tyr Gly Ile Leu Tyr
1 5

<210> 3320
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3320
Leu Leu Gly Ile Ile Phe Val Leu
1               5


<210> 3321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 3321
Leu Leu Gly Ile Ile Phe Val Leu Val
1               5


<210> 3322
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 3322
Leu Leu His Glu Tyr Ala Met His Leu
1               5


<210> 3323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*01:01,HLA-A*29:02,HLA-A*32:01

<400> 3323
Leu Leu Pro Gly Val Lys Leu Gly Tyr
1               5


<210> 3324
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07

<400> 3324
Leu Leu Pro Gly Val Lys Leu Gly Tyr Glu Ile
1 5 10

<210> 3325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07,HLA-A*24:02

<400> 3325
Leu Leu Pro Ser Asp Ser His Lys Leu
1 5

<210> 3326
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*46:01

<400> 3326
Leu Asn Phe Ala Ser Thr Ser Phe
1 5

<210> 3327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*35:03,HLA-B*51:01

<400> 3327
Leu Pro Ala Phe Leu Ser Asp Asn Thr Ile
1 5 10

<210> 3328
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*35:01

<400> 3328
Leu Pro Gly Val Lys Leu Gly Tyr
1 5

<210> 3329
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02,HLA-B*08:01,HLA-B*51:01

<400> 3329
Leu Pro Arg Lys Arg Met Ser Ser Ile
1 5

<210> 3330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 3330
Leu Pro Arg Val Ile Ile Leu Glu Cys
1 5

<210> 3331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*35:03

<400> 3331
Leu Pro Ser Asp Ser His Lys Leu
1 5

<210> 3332
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02,HLA-B*35:03,HLA-B*51:01

<400> 3332
Leu Pro Ser Asp Ser His Lys Leu Leu
1 5

<210> 3333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02,HLA-B*13:02,HLA-B*38:01

<400> 3333
Leu Gln Ala Gln Ala Phe Ala His Ile
1 5

<210> 3334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03

<400> 3334
Leu Gln Leu Met Pro Gln Val Gly Tyr
1 5

<210> 3335
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-C*05:01

<400> 3335
Leu Ser Asp Asn Thr Ile Glu Val
1 5

<210> 3336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*46:01,HLA-C*01:02

<400> 3336
Leu Ser Pro Ala Ser Leu Asp Ser Met
1 5

<210> 3337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 3337
Leu Val Val Gly Ile Ile Phe Thr Arg
1 5

<210> 3338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02,HLA-B*57:01

<400> 3338
Leu Tyr Arg Pro Ile Leu Ile Ile Phe
1 5

<210> 3339
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3339
Met Ala Phe Leu Ile Ile Leu Ile
1 5

<210> 3340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01,HLA-C*03:04

<400> 3340
Met Ala Val Ser Arg Met Leu Asn Leu
1 5

<210> 3341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:01,HLA-B*35:01,HLA-B*46:01

<400> 3341
Met Cys Phe Glu Lys Glu Val Glu Tyr
1 5

<210> 3342
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-B*35:01,HLA-B*35:03

<400> 3342
Met Phe Gly Val Ser Phe Thr Leu
1 5

<210> 3343
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01

<400> 3343

Met Ile Asn Asn Ser Thr Leu Leu
1               5


<210> 3344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 3344
Met Pro Gln Val Gly Tyr Glu Ser Thr
1               5


<210> 3345
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 3345
Met Pro Gln Val Gly Tyr Glu Ser Thr Ala
1               5                   10


<210> 3346
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*07:02,HLA-B*08:01,HLA-B*51:01

<400> 3346
Met Pro Arg Val Lys Ala Val Ile
1               5


<210> 3347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3347
Met Thr Asn Pro Ser Ser Ser Gly Lys
1               5


<210> 3348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-B*46:01,HLA-B*58:01

<400> 3348
Met Thr Val Thr Lys Met Ala Glu Tyr
1               5


<210> 3349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01,HLA-A*30:01,HLA-A*68:01,HLA-B*07:02,HLA-B*35:01,
      HLA-B*35:03,HLA-B*39:01,HLA-B*40:01,HLA-B*58:01,HLA-C*02:02,
      HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*12:03,HLA-C*16:01,

<220>
<223> HLA-C*16:02,HLA-C*16:04

<400> 3349
Asn Ala Thr Ser Val Ser Lys Thr Leu
1               5


<210> 3350
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 3350
Asn Ala Thr Ser Val Ser Lys Thr Leu Pro Arg
1               5                   10

<210> 3351
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3351
Asn Asp Ser Leu Ala Ile Leu Leu
1 5

<210> 3352
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 3352
Asn Glu Ala Lys Phe Ile Thr Phe
1 5

<210> 3353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*44:03,HLA-B*49:01

<400> 3353
Asn Glu Phe Arg Asn Leu Lys Gln Ile
1 5

<210> 3354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*16:01

<400> 3354
Asn His Ser Gln Arg Thr Leu Ala Tyr

1 5

<210> 3355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*39:01

<400> 3355
Asn His Tyr Thr Asn Gln Thr Asp Met
1 5

<210> 3356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*68:02

<400> 3356
Asn Ile Ser Ser Phe His Ser Phe Leu
1 5

<210> 3357
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:02

<400> 3357
Asn Leu Asn Thr Pro Val Val Lys
1 5

<210> 3358
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:01

<400> 3358
Asn Leu Asn Thr Pro Val Val Lys Ser
1               5


<210> 3359
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*30:02

<400> 3359
Asn Leu Gln Leu Met Pro Gln Val Gly Tyr
1               5                   10


<210> 3360
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*35:03

<400> 3360
Asn Pro Asn Ala Phe Gln Pro Trp Glu Leu
1               5                   10


<210> 3361
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*07:02,HLA-B*55:01,HLA-B*56:01

<400> 3361
Asn Pro Ser Ser Ser Gly Lys Ser Ala
1               5


<210> 3362
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;

HLA -A*25:01,HLA-B*07:02,HLA-B*35:01

<400> 3362
Asn Pro Ser Ser Ser Gly Lys Ser Ala Thr Trp
1 5 10

<210> 3363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 3363
Asn Gln Thr Asp Met Pro His Cys Leu
1 5

<210> 3364
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*68:02,HLA-B*54:01

<400> 3364
Asn Thr Phe Ile Ile Gln Ala Glu Ala
1 5

<210> 3365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*57:01,HLA-C*07:06

<400> 3365
Asn Thr Ile Glu Val Arg Ile Asn Arg
1 5

<210> 3366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02

<400> 3366
Asn Tyr Gly Ile Leu Tyr Cys Thr Phe
1 5

<210> 3367
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*33:01,HLA-A*33:03

<400> 3367
Asn Tyr Asn Glu Ala Lys Phe Ile Thr Phe
1 5 10

<210> 3368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:02

<400> 3368
Pro Ile Tyr Ala Thr Thr Phe Gly Lys
1 5

<210> 3369
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*58:01

<400> 3369
Pro Ser Ser Ser Gly Lys Ser Ala Thr Trp
1 5 10

<210> 3370
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*68:01

<400> 3370
Pro Thr Val Glu Val Asn Val Ser Leu Pro Arg
1 5 10

<210> 3371
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3371
Gln Ala Gln Ala Phe Ala His Ile
1 5

<210> 3372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*12:03

<400> 3372
Gln Ala Gln Ala Phe Ala His Ile Cys
1 5

<210> 3373
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:03

<400> 3373
Gln Ala Gln Ala Phe Ala His Ile Cys Arg
1 5 10

<210> 3374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*30:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 3374
Gln Glu Ile Asn Thr Lys Ser Ala Phe
1 5

<210> 3375
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3375
Gln Glu Ile Asn Thr Lys Ser Ala Phe Leu
1 5 10

<210> 3376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-A*03:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*15:01,HLA-B*15:03

<400> 3376
Gln Leu Ala Val Phe Ala Leu Gly Tyr
1 5

<210> 3377
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 3377
Gln Leu Met Pro Gln Val Gly Tyr
1               5


<210> 3378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*01:01

<400> 3378
Gln Thr Asp Met Pro His Cys Leu Leu
1               5


<210> 3379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*13:02

<400> 3379
Gln Thr Leu Ala Met Ile His Ser Ile
1               5


<210> 3380
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*32:01,HLA-B*15:01,HLA-B*37:01

<400> 3380
Gln Val Asn Val Ile Val Val Phe
1               5


<210> 3381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;

HLA -A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 3381
Gln Val Asn Val Ile Val Val Phe Leu
1 5

<210> 3382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3382
Arg Asp Cys Gln Asn Pro Asn Ala Phe
1 5

<210> 3383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:02

<400> 3383
Arg Glu Asn Ala Thr Ser Val Ser Lys
1 5

<210> 3384
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 3384
Arg Glu Asn Ala Thr Ser Val Ser Lys Thr Leu
1 5 10

<210> 3385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:02,HLA-A*11:01

<400> 3385
Arg Asn Leu Asn Thr Pro Val Val Lys
1 5

<210> 3386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*54:01,HLA-B*56:01

<400> 3386
Arg Pro Ile Leu Ile Ile Phe Thr Cys
1 5

<210> 3387
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02,HLA-B*57:01

<400> 3387
Arg Gln Phe His Val Phe Asp Leu Phe
1 5

<210> 3388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01

<400> 3388
Arg Gln Thr Met Phe Gly Val Ser Phe
1 5

<210> 3389
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3389
Arg Thr Leu Ala Tyr Lys Ala Asn Lys
1 5

<210> 3390
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*57:01,HLA-B*58:01

<400> 3390
Arg Thr Val Pro Ser Asp Phe His Gln Ile
1 5 10

<210> 3391
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-B*57:01

<400> 3391
Arg Thr Val Pro Ser Asp Phe His Gln Ile Lys
1 5 10

<210> 3392
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*46:01

<400> 3392
Arg Val Lys Ala Val Ile Gly Ser Gly Tyr
1 5 10

<210> 3393
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3393
Ser Ala Phe Leu Lys Met Ile Tyr
1 5

<210> 3394
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02,HLA-A*30:02

<400> 3394
Ser Ala Phe Leu Lys Met Ile Tyr Ser Tyr
1 5 10

<210> 3395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3395
Ser Asp Phe His Gln Ile Lys Ala Met
1 5

<210> 3396
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3396
Ser Asp Lys Ile Arg Phe Pro Ser Phe
1 5

<210> 3397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*38:01,HLA-B*44:02,HLA-B*44:03

<400> 3397
Ser Asp Asn Thr Ile Glu Val Arg Ile
1 5

<210> 3398
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*31:01

<400> 3398
Ser Asp Asn Thr Ile Glu Val Arg Ile Asn Arg
1 5 10

<210> 3399
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*44:02,HLA-B*49:01

<400> 3399
Ser Glu Asp Ser Pro Arg Arg Pro Gln Ile
1 5 10

<210> 3400
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*44:03,HLA-B*49:01

<400> 3400

Ser Glu Ile Thr Met Ala Val Ser Arg
1               5


<210> 3401
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*30:01,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 3401
Ser Glu Ile Thr Met Ala Val Ser Arg Met
1               5                   10


<210> 3402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*32:01,HLA-B*35:01,
      HLA-C*04:01

<400> 3402
Ser Phe Asp Pro Lys Leu Gln Lys Phe
1               5


<210> 3403
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01,HLA-A*29:02

<400> 3403
Ser Phe Phe Ile Gly Glu Pro Gln Asp Phe
1               5                   10


<210> 3404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;

HLA -A*02:04,HLA-A*23:01,HLA-A*24:02

<400> 3404
Ser Phe Leu Gln Asn Leu His Leu Leu
1 5

<210> 3405
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*16:01

<400> 3405
Ser Gly Gly Leu Arg Val Cys Tyr
1 5

<210> 3406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 3406
Ser His Ser Val Ser Ser Ile Ala Leu
1 5

<210> 3407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02,HLA-B*08:01,HLA-C*01:02

<400> 3407
Ser Ile Ala Leu Ser Pro Ala Ser Leu
1 5

<210> 3408
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*29:02

<400> 3408
Ser Ile Leu Ala Phe Gly Thr Met Leu Gly Tyr
1 5 10

<210> 3409
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3409
Ser Ile Gln Leu Ala Val Phe Ala Leu
1 5

<210> 3410
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:03

<400> 3410
Ser Lys Asp Leu Gln Ala Gln Ala Phe
1 5

<210> 3411
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3411
Ser Leu Ala Ile Leu Leu Leu Ile Leu
1 5

<210> 3412
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:07,HLA-B*38:01,HLA-B*55:01,HLA-C*05:01

<400> 3412
Ser Leu Asp Ser Met Ser Gly Asn Val Thr Met
1 5 10

<210> 3413
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04

<400> 3413
Ser Leu Leu Gly Ile Ile Phe Val
1 5

<210> 3414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*29:02

<400> 3414
Ser Leu Leu Gly Ile Ile Phe Val Leu
1 5

<210> 3415
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:04

<400> 3415
Ser Leu Leu Gly Ile Ile Phe Val Leu Val
1 5 10

<210> 3416

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-B*56:01

<400> 3416
Ser Pro Ala Ser Leu Asp Ser Met
1 5

<210> 3417
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*56:01

<400> 3417
Ser Pro Ala Ser Leu Asp Ser Met Ser Gly
1 5 10

<210> 3418
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:02

<400> 3418
Ser Ser Gly Gly Leu Arg Val Cys Tyr
1 5

<210> 3419
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 3419
Ser Ser Gly Lys Ser Ala Thr Trp
1 5

<210> 3420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 3420
Ser Ser Ser Gly Lys Ser Ala Thr Trp
1 5

<210> 3421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*54:01

<400> 3421
Ser Ser Tyr Met Pro Arg Val Lys Ala
1 5

<210> 3422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 3422
Ser Thr Ala Glu Ile Leu Ser Asp Lys
1 5

<210> 3423
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*68:02

<400> 3423
Ser Thr Ala Glu Ile Leu Ser Asp Lys Ile

1 5 10

<210> 3424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-A*25:01,HLA-A*68:02,HLA-B*13:02

<400> 3424
Ser Thr Ala Thr Lys Ile Thr Thr Ile
1 5

<210> 3425
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 3425
Ser Thr Leu Leu Pro Gly Val Lys Leu Gly Tyr
1 5 10

<210> 3426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3426
Ser Val Ser Lys Thr Leu Pro Arg Lys
1 5

<210> 3427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-B*13:02

<400> 3427
Ser Val Ser Ser Ile Ala Leu Ser Pro
1               5


<210> 3428
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*56:01

<400> 3428
Ser Val Ser Ser Ile Ala Leu Ser Pro Ala
1               5                   10


<210> 3429
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*24:02,HLA-B*37:01

<400> 3429
Ser Tyr Met Pro Arg Val Lys Ala Val
1               5


<210> 3430
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01,HLA-A*24:02

<400> 3430
Ser Tyr Met Pro Arg Val Lys Ala Val Ile
1               5                   10


<210> 3431
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;

HLA -A*24:02

<400> 3431
Ser Tyr Ser Ser His Ser Val Ser Ser Ile
1 5 10

<210> 3432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01,HLA-B*58:01

<400> 3432
Thr Ala Thr Lys Ile Thr Thr Ile
1 5

<210> 3433
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3433
Thr Cys Lys Thr Arg Gln Thr Met
1 5

<210> 3434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3434
Thr Cys Lys Thr Arg Gln Thr Met Phe
1 5

<210> 3435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-A*32:01,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*55:01,HLA-C*03:03,
HLA-C*03:04,HLA-C*04:01,HLA-C*07:06,HLA-C*16:01

<400> 3435
Thr Cys Thr Glu Val Thr Val Ala Met
1 5

<210> 3436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*38:01,HLA-B*39:01

<400> 3436
Thr Cys Thr Gly Ile Gln Val Val Ile
1 5

<210> 3437
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*37:01

<400> 3437
Thr Asp Met Pro His Cys Leu Leu
1 5

<210> 3438
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*49:01

<400> 3438
Thr Glu Val Thr Val Ala Met Ala
1 5

<210> 3439

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 3439
Thr Glu Val Thr Val Ala Met Ala Ala
1 5

<210> 3440
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*30:01,HLA-B*40:01

<400> 3440
Thr Glu Val Thr Val Ala Met Ala Ala Thr Leu
1 5 10

<210> 3441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01

<400> 3441
Thr Phe Ile Pro Ile Tyr Ala Thr Thr
1 5

<210> 3442
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 3442
Thr Phe Ile Pro Ile Tyr Ala Thr Thr Phe
1 5 10

<210> 3443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02

<400> 3443
Thr Phe Ile Pro Lys Cys Tyr Val Ile
1 5

<210> 3444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 3444
Thr Phe Thr Asp Gly Trp Asn Ser Phe
1 5

<210> 3445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-B*08:01

<400> 3445
Thr Leu Lys Lys Ile Ile Leu Glu Ala
1 5

<210> 3446
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 3446
Thr Leu Leu Pro Gly Val Lys Leu Gly Tyr

1 5 10

<210> 3447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-B*13:02,HLA-B*35:03,HLA-C*02:02

<400> 3447
Thr Met Phe Gly Val Ser Phe Thr Leu
1 5

<210> 3448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 3448
Thr Met Leu Gly Tyr Ile Ala Ile Leu
1 5

<210> 3449
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*56:01

<400> 3449
Thr Pro Asp Asp Phe Val Ala Ala
1 5

<210> 3450
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*07:02

<400> 3450
Thr Pro Val Val Lys Ser Ser Gly Gly Leu
1 5 10

<210> 3451
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*68:01

<400> 3451
Thr Pro Val Val Lys Ser Ser Gly Gly Leu Arg
1 5 10

<210> 3452
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*27:05

<400> 3452
Thr Arg Asn Leu Asn Thr Pro Val Val Lys
1 5 10

<210> 3453
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 3453
Thr Ser Val Ser Lys Thr Leu Pro Arg
1 5

<210> 3454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*05:01

<400> 3454
Thr Thr Asp Asp Asp Tyr Gly Arg Leu
1 5

<210> 3455
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*38:01

<400> 3455
Thr Thr Asp Asp Asp Tyr Gly Arg Leu Ala Leu
1 5 10

<210> 3456
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*54:01

<400> 3456
Thr Thr Phe Gly Lys Tyr Val Pro Ala
1 5

<210> 3457
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-A*68:02

<400> 3457
Thr Thr Phe Gly Lys Tyr Val Pro Ala Val
1 5 10

<210> 3458
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01

<400> 3458
Thr Thr Ile Pro Asn Val Lys Lys
1 5

<210> 3459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:03,HLA-A*25:01,HLA-A*68:02,HLA-C*16:02

<400> 3459
Thr Thr Ile Pro Asn Val Lys Lys Ile
1 5

<210> 3460
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01,HLA-A*31:01

<400> 3460
Thr Thr Ile Pro Asn Val Lys Lys Ile Gly Lys
1 5 10

<210> 3461
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*35:03

<400> 3461
Thr Val Ala Met Ala Ala Thr Leu
1 5

<210> 3462

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 3462
Thr Val Ala Met Ala Ala Thr Leu Arg
1 5

<210> 3463
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-A*26:01

<400> 3463
Thr Val Ala Met Ala Ala Thr Leu Arg Phe
1 5 10

<210> 3464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 3464
Thr Val Pro Ser Asp Phe His Gln Ile
1 5

<210> 3465
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*46:01

<400> 3465
Thr Val Thr Lys Met Ala Glu Tyr
1 5

<210> 3466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02

<400> 3466
Val Ala Met Ala Ala Thr Leu Arg Phe
1 5

<210> 3467
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*18:01

<400> 3467
Val Glu Phe Lys Cys Asp Tyr Ser Ser Tyr
1 5 10

<210> 3468
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*18:01,HLA-B*49:01

<400> 3468
Val Glu Ile Ile Val Ile Leu Ile
1 5

<210> 3469
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*49:01

<400> 3469

Val Glu Val Asn Val Ser Leu Pro Arg Val
1               5                   10


<210> 3470
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*40:01,HLA-B*49:01

<400> 3470
Val Glu Tyr Leu Asn Trp Asn Asp Ser Leu
1               5                   10


<210> 3471
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01

<400> 3471
Val Phe Ala Leu Gly Tyr Ala Ile
1               5


<210> 3472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*27:02

<400> 3472
Val Phe Ile Ile Pro Asp Gln Glu Thr Lys
1               5                   10


<210> 3473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01

<400> 3473
Val Phe Leu Gln Thr Leu Ala Met Ile
1               5


<210> 3474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*23:01,HLA-A*24:02

<400> 3474
Val Phe Leu Arg Gln Phe His Val Phe
1               5


<210> 3475
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*18:01,HLA-B*46:01

<400> 3475
Val Gly Phe Glu Ile Ser Val Phe
1               5


<210> 3476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*46:01,HLA-B*49:01,HLA-B*51:01

<400> 3476
Val Gly Tyr Glu Ser Thr Ala Glu Ile
1               5


<210> 3477
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*15:01,HLA-B*15:03

<400> 3477
Val Lys Ala Val Ile Gly Ser Gly Tyr
1 5

<210> 3478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*56:01

<400> 3478
Val Pro Ala Val Glu Ile Ile Val Ile
1 5

<210> 3479
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*51:01

<400> 3479
Val Pro Ser Asp Phe His Gln Ile
1 5

<210> 3480
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 3480
Val Pro Ser Asp Phe His Gln Ile Lys Ala
1 5 10

<210> 3481
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:04,HLA-C*16:01

<400> 3481
Val Ser Leu Pro Arg Val Ile Ile Leu
1 5

<210> 3482
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*57:01

<400> 3482
Val Thr Phe Thr Asp Gly Trp Asn Ser Phe
1 5 10

<210> 3483
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 3483
Val Thr Met Thr Asn Pro Ser Ser Ser Gly Lys
1 5 10

<210> 3484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*23:01,HLA-A*24:02,HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,
HLA-C*03:03,HLA-C*03:04

<400> 3484
Val Thr Val Ala Met Ala Ala Thr Leu
1 5

<210> 3485

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*11:01,HLA-A*31:01

<400> 3485
Val Val Gly Ile Ile Phe Thr Arg
1 5

<210> 3486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 3486
Val Val Lys Ser Ser Gly Gly Leu Arg
1 5

<210> 3487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01

<400> 3487
Trp Ala Pro Val Arg Ser Thr Met
1 5

<210> 3488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*49:01,HLA-B*51:01,HLA-B*54:01,HLA-B*58:01

<400> 3488
Tyr Ala Glu Pro Gly Leu Ile His Ser Ile
1 5 10

<210> 3489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*54:01

<400> 3489
Tyr Ala Ile Arg Asp Leu Cys Gln Ala
1 5

<210> 3490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*54:01

<400> 3490
Tyr Ala Met His Leu Ser Ala Cys Ala
1 5

<210> 3491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -C*16:02

<400> 3491
Tyr Ala Thr Thr Phe Gly Lys Tyr Val
1 5

<210> 3492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*13:02

<400> 3492

Tyr Asp Thr Cys Thr Glu Val Thr Val
1               5


<210> 3493
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -B*49:01

<400> 3493
Tyr Glu Ile Tyr Asp Thr Cys Thr Glu Val
1               5                   10


<210> 3494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,
      HLA-B*44:03,HLA-B*49:01

<400> 3494
Tyr Glu Asn Tyr Asn Glu Ala Lys Phe
1               5


<210> 3495
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*49:01

<400> 3495
Tyr Glu Ser Thr Ala Glu Ile Leu
1               5


<210> 3496
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;

HLA -B*27:02

<400> 3496
Tyr Glu Ser Thr Ala Glu Ile Leu Ser Asp Lys
1 5 10

<210> 3497
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*24:02

<400> 3497
Tyr Phe Ile Ala Trp Ile Thr Phe Ile
1 5

<210> 3498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*46:01

<400> 3498
Tyr Gly Arg Leu Ala Leu Asn Thr Phe
1 5

<210> 3499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07,HLA-A*24:02

<400> 3499
Tyr Met Pro Arg Val Lys Ala Val Ile
1 5

<210> 3500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*25:01,HLA-B*58:01,HLA-C*03:04,HLA-C*16:02

<400> 3500
Tyr Ser Ser His Ser Val Ser Ser Ile
1 5

<210> 3501
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*13:02

<400> 3501
Tyr Ser Ser Tyr Met Pro Arg Val
1 5

<210> 3502
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*08:01,HLA-B*13:02,HLA-B*51:01,HLA-B*54:01

<400> 3502
Tyr Ser Tyr Ser Ser His Ser Val
1 5

<210> 3503
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -B*13:02

<400> 3503
Tyr Val Ile Ile Cys Lys Gln Glu Ile
1 5

<210> 3504
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*26:01

<400> 3504
Tyr Val Lys Asp Thr Asp Leu Ser Gln
1 5

<210> 3505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07

<400> 3505
Tyr Val Pro Ala Val Glu Ile Ile Val
1 5

<210> 3506
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GPRC6A; ENSG00000173612;
HLA -A*02:07

<400> 3506
Tyr Val Pro Ala Val Glu Ile Ile Val Ile
1 5 10

<210> 3507
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -C*01:02

<400> 3507
Ala Ala Pro Cys Pro Ala Glu Gln Ala Phe
1 5 10

<210> 3508

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-B*46:01,HLA-B*56:01,HLA-B*57:01

<400> 3508
Ala Ala Arg Leu Glu Phe Thr Glu Lys
1 5

<210> 3509
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*44:02,HLA-B*44:03

<400> 3509
Ala Glu Glu Gln Gly Val Leu Trp
1 5

<210> 3510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3510
Ala Glu Glu Gln Gly Val Leu Trp Leu
1 5

<210> 3511
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*37:01,HLA-B*49:01

<400> 3511
Ala Glu Gln Ala Phe Arg Asn Val
1 5

<210> 3512
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*40:02

<400> 3512
Ala Glu Gln Ala Phe Arg Asn Val Ser Gly
1 5 10

<210> 3513
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:04,HLA-A*02:07

<400> 3513
Ala Ile Phe Met Val Leu Ala Gly Leu
1 5

<210> 3514
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*31:01

<400> 3514
Ala Ile Leu Leu Gly Ser Arg Val Ser Cys Arg
1 5 10

<210> 3515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*02:04

<400> 3515

Ala Leu Leu Leu Leu Pro Val Cys Leu
1               5


<210> 3516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
      HLA-B*55:01

<400> 3516
Ala Leu Thr Phe Ser Leu Thr Ala Val
1               5


<210> 3517
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 3517
Ala Leu Val Ala Ile Phe Met Val
1               5


<210> 3518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
      HLA-A*23:01,HLA-A*24:02

<400> 3518
Ala Leu Val Ala Ile Phe Met Val Leu
1               5


<210> 3519
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*31:01

<400> 3519
Ala Met Ser Arg Phe Thr Ala Ala Arg
1 5

<210> 3520
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*56:01

<400> 3520
Ala Pro Cys Pro Ala Glu Gln Ala
1 5

<210> 3521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*30:02,HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*03:03,HLA-C*04:01,HLA-C*07:01,HLA-C*07:02,HLA-C*16:01

<400> 3521
Ala Pro Cys Pro Ala Glu Gln Ala Phe
1 5

<210> 3522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*32:01

<400> 3522
Ala Gln Asn Gly Ser Arg His Ser Gln
1 5

<210> 3523
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*27:05

<400> 3523
Ala Arg Leu Glu Phe Thr Glu Lys
1 5

<210> 3524
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:04

<400> 3524
Ala Val Leu Tyr Ile Trp Glu Leu
1 5

<210> 3525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 3525
Ala Val Ser Val Ser Ala Met Ser Arg
1 5

<210> 3526
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*25:01,HLA-A*26:01

<400> 3526
Ala Val Ser Val Ser Ala Met Ser Arg Phe
1 5 10

<210> 3527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:03,HLA-B*15:01,HLA-B*27:05,HLA-B*46:01,HLA-C*01:02,
HLA-C*14:02

<400> 3527
Cys Leu Ala Val Ser Val Ser Ala Met
1 5

<210> 3528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*02:04

<400> 3528
Cys Leu Ala Trp Gly Ser Phe Ala Leu
1 5

<210> 3529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*56:01

<400> 3529
Cys Pro Ala Glu Gln Ala Phe Arg Asn Val
1 5 10

<210> 3530
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*33:01,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 3530

Asp Ala Leu Val Ala Ile Phe Met
1               5


<210> 3531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*51:01

<400> 3531
Asp Ala Leu Val Ala Ile Phe Met Val
1               5


<210> 3532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*54:01,HLA-B*56:01

<400> 3532
Asp Ile Val Leu Ile Leu Thr Ser Ala
1               5


<210> 3533
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*35:03

<400> 3533
Asp Asn Asn Ser Gln Ala Val Leu
1               5


<210> 3534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*18:01

<400> 3534
Asp Asn Asn Ser Gln Ala Val Leu Tyr
1               5


<210> 3535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*07:02,HLA-B*08:01,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01,
      HLA-C*06:02

<400> 3535
Asp Arg Ala Lys Gln Gln Gln Ala Leu
1               5


<210> 3536
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 3536
Glu Leu Gly Asp Asp Lys Phe Ile Gln Arg
1               5                   10


<210> 3537
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*33:01,HLA-A*33:03

<400> 3537
Glu Ser Leu Asn Gly Glu Asp Glu Lys Cys Arg
1               5                   10


<210> 3538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:04,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*33:03,HLA-A*68:02,HLA-B*35:03

<400> 3538
Glu Val Leu Asp Ile Val Leu Ile Leu
1 5

<210> 3539
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3539
Glu Val Leu Asp Ile Val Leu Ile Leu Thr
1 5 10

<210> 3540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-B*51:01,HLA-B*54:01

<400> 3540
Phe Ala Leu Cys Leu Ala Val Ser Val
1 5

<210> 3541
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*57:01

<400> 3541
Phe Ser Leu Thr Ala Val Val Ser Ser His Trp
1 5 10

<210> 3542
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*23:01,HLA-A*32:01,HLA-B*08:01,HLA-B*46:01,HLA-C*16:01

<400> 3542
Phe Thr Ala Ala Arg Leu Glu Phe
1 5

<210> 3543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*01:01

<400> 3543
Phe Thr Glu Lys Gln Gln Ala Gln Asn
1 5

<210> 3544
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*15:01

<400> 3544
Gly Ala Ala Pro Cys Pro Ala Glu Gln Ala Phe
1 5 10

<210> 3545
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*11:01,HLA-A*31:01

<400> 3545
Gly Asp Asp Lys Phe Ile Gln Arg
1 5

<210> 3546
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*44:02

<400> 3546
Gly Asp Asp Lys Phe Ile Gln Arg Gly Phe
1 5 10

<210> 3547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 3547
Gly Glu Asp Glu Lys Cys Arg Ser Phe
1 5

<210> 3548
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*30:01,HLA-B*40:01

<400> 3548
Gly Glu Val Leu Asp Ile Val Leu
1 5

<210> 3549
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3549
Gly Glu Val Leu Asp Ile Val Leu Ile
1 5

<210> 3550
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*40:01

<400> 3550
Gly Glu Val Leu Asp Ile Val Leu Ile Leu
1 5 10

<210> 3551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*29:02,HLA-B*55:01

<400> 3551
Gly Leu Leu Gly Met Val Ala His Met
1 5

<210> 3552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*27:05

<400> 3552
Gly Arg Met Asp Asn Asn Ser Gln Ala
1 5

<210> 3553
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*27:02,HLA-B*27:05

<400> 3553

Gly Arg Met Asp Asn Asn Ser Gln Ala Val
1               5                   10


<210> 3554
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*27:02,HLA-B*27:05,HLA-C*16:04

<400> 3554
Gly Arg Met Asp Asn Asn Ser Gln Ala Val Leu
1               5                   10


<210> 3555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*13:02

<400> 3555
Gly Ser Phe Ala Leu Cys Leu Ala Val
1               5


<210> 3556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*57:01

<400> 3556
Gly Ser Arg His Ser Gln His Ser Phe
1               5


<210> 3557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*03:02

<400> 3557
His Leu Pro Pro Gly Ala Pro Gly Lys
1               5


<210> 3558
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*02:03,HLA-A*02:07,HLA-A*68:02

<400> 3558
His Leu Pro Pro Gly Ala Pro Gly Lys Val
1               5                   10


<210> 3559
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*54:01

<400> 3559
His Ser Phe Leu Glu Pro Glu Ala
1               5


<210> 3560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*23:01,HLA-A*24:02

<400> 3560
Ile Phe Met Val Leu Ala Gly Leu Leu
1               5


<210> 3561
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*23:01,HLA-C*14:02

<400> 3561
Ile Phe Gln Ile Thr Val Asn Leu
1 5

<210> 3562
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*51:01

<400> 3562
Ile Gly Gly Glu Val Leu Asp Ile
1 5

<210> 3563
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*23:01

<400> 3563
Ile Leu Thr Ser Ala Ile Leu Leu
1 5

<210> 3564
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*57:01,HLA-B*58:01

<400> 3564
Ile Thr Val Asn Leu Gly Pro Glu Asp Trp
1 5 10

<210> 3565
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*54:01

<400> 3565
Ile Val Leu Ile Leu Thr Ser Ala
1 5

<210> 3566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*23:01,HLA-C*01:02

<400> 3566
Ile Val Leu Ile Leu Thr Ser Ala Ile
1 5

<210> 3567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:04,HLA-B*13:02

<400> 3567
Lys Gln Gln Gln Ala Leu Leu Leu Leu
1 5

<210> 3568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*54:01

<400> 3568
Leu Ala Gly Leu Leu Gly Met Val Ala
1 5

<210> 3569
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*54:01

<400> 3569
Leu Ala Leu Thr Phe Ser Leu Thr Ala
1 5

<210> 3570
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*30:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*40:02,HLA-B*46:01,
HLA-B*51:01,HLA-B*54:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,

<220>
<223> HLA-C*03:04,HLA-C*05:01,HLA-C*12:03,HLA-C*14:02

<400> 3570
Leu Ala Val Ser Val Ser Ala Met
1 5

<210> 3571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 3571
Leu Ala Val Ser Val Ser Ala Met Ser Arg
1 5 10

<210> 3572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*54:01

<400> 3572
Leu Cys Leu Ala Val Ser Val Ser Ala
1               5


<210> 3573
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -C*04:01

<400> 3573
Leu Cys Leu Ala Val Ser Val Ser Ala Met
1               5                   10


<210> 3574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,
      HLA-B*49:01

<400> 3574
Leu Glu Phe Thr Glu Lys Gln Gln Ala
1               5


<210> 3575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*49:01

<400> 3575
Leu Glu Pro Glu Ala Ser Glu Ser Ile
1               5


<210> 3576
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*44:02,HLA-B*44:03,HLA-B*57:01

<400> 3576
Leu Glu Pro Glu Ala Ser Glu Ser Ile Trp
1 5 10

<210> 3577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*11:01,HLA-A*31:01

<400> 3577
Leu Gly Asp Asp Lys Phe Ile Gln Arg
1 5

<210> 3578
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*08:01

<400> 3578
Leu Gly Met Val Ala His Met Met
1 5

<210> 3579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 3579
Leu Leu Leu Pro Val Cys Leu Ala Leu
1 5

<210> 3580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*51:01

<400> 3580
Leu Pro Pro Gly Ala Pro Gly Lys Val
1 5

<210> 3581
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 3581
Leu Pro Pro Gly Ala Pro Gly Lys Val Ser Ile
1 5 10

<210> 3582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 3582
Leu Pro Val Cys Leu Ala Leu Thr Phe
1 5

<210> 3583
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -C*03:03,HLA-C*03:04

<400> 3583
Leu Ser Ile Gly Gly Glu Val Leu
1 5

<210> 3584
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*44:02,
HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 3584
Leu Thr Ala Val Val Ser Ser His Trp
1 5

<210> 3585
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3585
Leu Thr Phe Ser Leu Thr Ala Val
1 5

<210> 3586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3586
Leu Thr Phe Ser Leu Thr Ala Val Val
1 5

<210> 3587
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3587
Leu Thr Ser Ala Ile Leu Leu Gly Ser Arg Val
1 5 10

<210> 3588
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*37:01

<400> 3588
Met Asp Asn Asn Ser Gln Ala Val
1 5

<210> 3589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*30:01,HLA-B*37:01

<400> 3589
Met Asp Asn Asn Ser Gln Ala Val Leu
1 5

<210> 3590
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*29:02,HLA-A*33:01,HLA-B*35:01,HLA-B*44:03

<400> 3590
Met Asp Asn Asn Ser Gln Ala Val Leu Tyr
1 5 10

<210> 3591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*51:01

<400> 3591

Met Met Tyr Thr Thr Ile Phe Gln Ile
1               5


<210> 3592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*26:01,HLA-A*29:02

<400> 3592
Met Val Leu Ala Gly Leu Leu Gly Met
1               5


<210> 3593
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*54:01

<400> 3593
Met Val Leu Ala Gly Leu Leu Gly Met Val Ala
1               5                   10


<210> 3594
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*23:01,HLA-A*24:02

<400> 3594
Met Tyr Thr Thr Ile Phe Gln Ile
1               5


<210> 3595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*24:02

<400> 3595
Met Tyr Thr Thr Ile Phe Gln Ile Thr
1               5


<210> 3596
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*18:01

<400> 3596
Asn Asn Ser Gln Ala Val Leu Tyr
1               5


<210> 3597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*57:01

<400> 3597
Asn Ser Gln Ala Val Leu Tyr Ile Trp
1               5


<210> 3598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*44:02

<400> 3598
Pro Glu Asp Trp Lys Pro Gln Thr Trp
1               5


<210> 3599
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*54:01

<400> 3599
Gln Ala Leu Leu Leu Leu Pro Val Cys
1 5

<210> 3600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:04,HLA-B*35:03

<400> 3600
Gln Ala Val Leu Tyr Ile Trp Glu Leu
1 5

<210> 3601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*39:01

<400> 3601
Gln His Ser Phe Leu Glu Pro Glu Ala
1 5

<210> 3602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*13:02

<400> 3602
Gln Gln Ala Leu Leu Leu Leu Pro Val
1 5

<210> 3603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*01:01,HLA-A*29:02

<400> 3603
Gln Thr Trp Asp Tyr Gly Trp Ser Tyr
1 5

<210> 3604
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*08:01

<400> 3604
Arg Ala Lys Gln Gln Gln Ala Leu
1 5

<210> 3605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*23:01,HLA-A*24:02

<400> 3605
Arg Phe Thr Ala Ala Arg Leu Glu Phe
1 5

<210> 3606
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*57:01

<400> 3606
Arg Gly Phe His Val Gly Leu Trp
1 5

<210> 3607
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01

<400> 3607
Arg Met Asp Asn Asn Ser Gln Ala Val
1 5

<210> 3608
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 3608
Arg Met Asp Asn Asn Ser Gln Ala Val Leu Tyr
1 5 10

<210> 3609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:07,HLA-B*57:01

<400> 3609
Arg Val Asp Ala Leu Val Ala Ile Phe
1 5

<210> 3610
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:07

<400> 3610
Arg Val Asp Ala Leu Val Ala Ile Phe Met
1 5 10

<210> 3611
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:07

<400> 3611
Arg Val Asp Ala Leu Val Ala Ile Phe Met Val
1 5 10

<210> 3612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02,HLA-B*51:01,HLA-C*02:02,HLA-C*12:03

<400> 3612
Ser Ala Ile Leu Leu Gly Ser Arg Val
1 5

<210> 3613
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*32:01,HLA-B*08:01,HLA-B*54:01,HLA-B*56:01,HLA-C*16:01

<400> 3613
Ser Ala Met Ser Arg Phe Thr Ala
1 5

<210> 3614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*02:03,HLA-A*25:01,HLA-A*30:01,HLA-A*32:01,
HLA-B*07:02,HLA-B*08:01,HLA-B*37:01,HLA-B*40:02,HLA-B*46:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*01:02,HLA-C*02:02,

<220>

<223> HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,HLA-C*12:03,HLA-C*14:02,
HLA-C*16:01,HLA-C*16:02

<400> 3614
Ser Ala Met Ser Arg Phe Thr Ala Ala
1 5

<210> 3615
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 3615
Ser Ala Met Ser Arg Phe Thr Ala Ala Arg
1 5 10

<210> 3616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*37:01

<400> 3616
Ser Glu Ser Ile Trp Lys Thr Gly Ala
1 5

<210> 3617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*03:01,HLA-A*03:02,HLA-A*30:02,HLA-A*32:01,HLA-B*46:01

<400> 3617
Ser Leu Thr Ala Val Val Ser Ser His
1 5

<210> 3618
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*32:01,HLA-B*27:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01

<400> 3618
Ser Leu Thr Ala Val Val Ser Ser His Trp
1 5 10

<210> 3619
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:04

<400> 3619
Ser Gln Ala Val Leu Tyr Ile Trp Glu Leu
1 5 10

<210> 3620
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*32:01,HLA-B*37:01

<400> 3620
Ser Val Ser Ala Met Ser Arg Phe
1 5

<210> 3621
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 3621
Thr Ala Ala Arg Leu Glu Phe Thr Glu Lys
1 5 10

<210> 3622

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*25:01,HLA-A*32:01,HLA-B*51:01,HLA-B*57:01,HLA-B*58:01

<400> 3622
Thr Ala Val Val Ser Ser His Trp
1 5

<210> 3623
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*33:03

<400> 3623
Thr Glu Lys Gln Gln Ala Gln Asn Gly Ser Arg
1 5 10

<210> 3624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*27:05

<400> 3624
Thr Ile Phe Gln Ile Thr Val Asn Leu
1 5

<210> 3625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 3625
Thr Ser Ala Ile Leu Leu Gly Ser Arg
1 5

<210> 3626
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3626
Thr Ser Ala Ile Leu Leu Gly Ser Arg Val
1 5 10

<210> 3627
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3627
Thr Thr Ile Phe Gln Ile Thr Val
1 5

<210> 3628
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3628
Thr Thr Ile Phe Gln Ile Thr Val Asn Leu
1 5 10

<210> 3629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*57:01

<400> 3629

Thr Val Asn Leu Gly Pro Glu Asp Trp
1               5


<210> 3630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*23:01,HLA-A*24:02,HLA-B*51:01

<400> 3630
Val Ala His Met Met Tyr Thr Thr Ile
1               5


<210> 3631
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*18:01,HLA-B*37:01

<400> 3631
Val Asp Ala Leu Val Ala Ile Phe
1               5


<210> 3632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -B*37:01

<400> 3632
Val Asp Ala Leu Val Ala Ile Phe Met
1               5


<210> 3633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,

HLA-B*55:01

<400> 3633
Val Leu Ala Gly Leu Leu Gly Met Val
1 5

<210> 3634
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:03

<400> 3634
Val Leu Ala Gly Leu Leu Gly Met Val Ala
1 5 10

<210> 3635
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:07

<400> 3635
Val Leu Asp Ile Val Leu Ile Leu Thr
1 5

<210> 3636
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*51:01

<400> 3636
Val Pro Ala Glu Glu Gln Gly Val
1 5

<210> 3637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*55:01,
HLA-C*07:02

<400> 3637
Val Pro Ala Glu Glu Gln Gly Val Leu
1 5

<210> 3638
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*25:01,HLA-B*35:01,HLA-B*57:01

<400> 3638
Val Pro Ala Glu Glu Gln Gly Val Leu Trp
1 5 10

<210> 3639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -B*40:02

<400> 3639
Val Ser Ala Met Ser Arg Phe Thr Ala Ala
1 5 10

<210> 3640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 3640
Val Ser Val Ser Ala Met Ser Arg Phe
1 5

<210> 3641

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:07

<400> 3641
Val Val Pro Ala Glu Glu Gln Gly Val
1 5

<210> 3642
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 3642
Val Val Pro Ala Glu Glu Gln Gly Val Leu Trp
1 5 10

<210> 3643
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:07

<400> 3643
Tyr Ile Trp Glu Leu Gly Asp Asp Lys Phe
1 5 10

<210> 3644
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*02:01

<400> 3644
Tyr Ile Trp Glu Leu Gly Asp Asp Lys Phe Ile
1 5 10

<210> 3645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*40:02,HLA-B*51:01,
HLA-B*54:01,HLA-C*16:02

<400> 3645
Tyr Thr Thr Ile Phe Gln Ile Thr Val
1 5

<210> 3646
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; GSG1L2; ENSG00000214978;
HLA -A*68:02

<400> 3646
Tyr Thr Thr Ile Phe Gln Ile Thr Val Asn Leu
1 5 10

<210> 3647
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*29:02

<400> 3647
Ala Phe Glu Leu Pro Gln Glu Phe Leu Gln Tyr
1 5 10

<210> 3648
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02

<400> 3648

Ala Phe Asn Ile Phe Ser Gln His Thr Phe
1               5                   10


<210> 3649
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -A*23:01

<400> 3649
Ala Phe Tyr Glu Met Ser Leu Gln Ala Phe
1               5                   10


<210> 3650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -B*27:05

<400> 3650
Ala Arg Val Pro Gln Leu Ser Ser Leu
1               5


<210> 3651
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -B*51:01

<400> 3651
Cys Ala Trp Glu Ile Val Arg Val
1               5


<210> 3652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -A*33:01

<400> 3652
Asp Cys Asn Leu Leu Asn Val His Leu
1               5


<210> 3653
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -A*33:01

<400> 3653
Asp Cys Asn Leu Leu Asn Val His Leu Arg
1               5                   10


<210> 3654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -A*33:01,HLA-B*08:01

<400> 3654
Asp Ile Lys Lys Ala Phe Tyr Glu Met
1               5


<210> 3655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 3655
Glu Leu Pro Gln Glu Phe Leu Gln Tyr
1               5


<210> 3656
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*29:02,HLA-B*44:02,HLA-B*44:03

<400> 3656
Phe Glu Leu Pro Gln Glu Phe Leu Gln Tyr
1 5 10

<210> 3657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*23:01,HLA-A*24:02,HLA-C*04:01,HLA-C*14:02

<400> 3657
Phe Tyr Glu Met Ser Leu Gln Ala Phe
1 5

<210> 3658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*02:01,HLA-A*02:07

<400> 3658
Gly Leu Asp Gln Gln Ala Glu Tyr Leu
1 5

<210> 3659
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*02:03,HLA-A*02:04,HLA-B*08:01

<400> 3659
His Leu Lys Gln Ile Gln Ile Gly Leu
1 5

<210> 3660
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*38:01

<400> 3660
His Leu Ser Ser Met Ser Asn Ser Phe
1 5

<210> 3661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*35:01,HLA-B*46:01,HLA-B*51:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*05:01,HLA-C*12:03,HLA-C*16:02,

<220>
<223> HLA-C*16:04

<400> 3661
Ile Ala Phe Glu Leu Pro Gln Glu Phe
1 5

<210> 3662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*23:01,HLA-A*24:02,HLA-B*46:01,HLA-C*01:02,HLA-C*14:02

<400> 3662
Ile Phe Ile Ala Gly Thr Leu Ser Leu
1 5

<210> 3663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*24:02,HLA-A*29:02

<400> 3663
Ile Phe Ser Gln His Thr Phe Lys Tyr

1 5

<210> 3664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:03,HLA-B*46:01

<400> 3664
Ile Gly Leu Asp Gln Gln Ala Glu Tyr
1 5

<210> 3665
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*46:01,HLA-B*58:01,HLA-C*07:04,HLA-C*16:04

<400> 3665
Ile Gln Ile Gly Leu Asp Gln Gln Ala Glu Tyr
1 5 10

<210> 3666
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -B*07:02,HLA-C*07:02

<400> 3666
Lys Pro Ser Glu Ala Arg Val Pro Gln Leu
1 5 10

<210> 3667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*24:02

<400> 3667
Lys Tyr Ser Asp Cys Ala Trp Glu Ile
1               5


<210> 3668
<211> 9
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<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -B*49:01

<400> 3668
Leu Glu Ile Leu Met Gly Ile Phe Ile
1               5


<210> 3669
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -B*35:01

<400> 3669
Leu Pro Gln Glu Phe Leu Gln Tyr
1               5


<210> 3670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
      HLA -A*03:01,HLA-A*31:01

<400> 3670
Leu Gln Tyr Thr Gln Pro Met Lys Arg
1               5


<210> 3671
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; IFNK; ENSG00000147896;
HLA -B*54:01

<400> 3671
Met Ser Asn Ser Phe Pro Val Glu Cys
1 5

<210> 3672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -B*18:01,HLA-B*44:03

<400> 3672
Asn Glu Asn Glu Asp Met Lys Glu Met
1 5

<210> 3673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*03:01

<400> 3673
Asn Ile Phe Ser Gln His Thr Phe Lys
1 5

<210> 3674
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*29:02

<400> 3674
Asn Ile Phe Ser Gln His Thr Phe Lys Tyr
1 5 10

<210> 3675
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*01:01

<400> 3675
Gln Ile Gly Leu Asp Gln Gln Ala Glu Tyr
1 5 10

<210> 3676
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -B*13:02

<400> 3676
Gln Gln Ala Glu Tyr Leu Asn Gln Cys Leu
1 5 10

<210> 3677
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -B*37:01

<400> 3677
Arg Glu Asn Ile Ala Phe Glu Leu
1 5

<210> 3678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*03:01,HLA-A*03:02

<400> 3678
Arg Ile Asp Asn Phe Leu Lys Glu Lys
1 5

<210> 3679
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*31:01

<400> 3679
Arg Val Pro Gln Leu Ser Ser Leu Glu Leu Arg
1 5 10

<210> 3680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*24:02

<400> 3680
Arg Tyr Phe His Arg Ile Asp Asn Phe
1 5

<210> 3681
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01

<400> 3681
Ser Glu Ala Arg Val Pro Gln Leu
1 5

<210> 3682
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*30:01,HLA-B*40:01

<400> 3682
Ser Glu Ala Arg Val Pro Gln Leu Ser Ser Leu
1 5 10

<210> 3683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*02:01,HLA-A*02:07

<400> 3683
Ser Leu Asp Cys Asn Leu Leu Asn Val
1 5

<210> 3684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -B*57:01

<400> 3684
Ser Ser Leu Glu Leu Arg Arg Tyr Phe
1 5

<210> 3685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*13:02

<400> 3685
Ser Thr Lys Pro Asp Met Ile Gln Lys
1 5

<210> 3686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 3686
Val Pro Gln Leu Ser Ser Leu Glu Leu

1 5

<210> 3687
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 3687
Tyr Glu Met Ser Leu Gln Ala Phe
1 5

<210> 3688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*24:02,HLA-A*29:02

<400> 3688
Tyr Phe Tyr Lys Phe Thr Ala Leu Phe
1 5

<210> 3689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IFNK; ENSG00000147896;
HLA -A*24:02

<400> 3689
Tyr Tyr Phe Tyr Lys Phe Thr Ala Leu
1 5

<210> 3690
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*27:02,HLA-B*44:03,

HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 3690
Ala Ala Ser Ala Gly Ser Tyr Ser Glu Trp
1 5 10

<210> 3691
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 3691
Ala Glu Ile Tyr Gln Pro Met Leu
1 5

<210> 3692
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*38:01

<400> 3692
Ala His Arg Ala Val Glu Ile Glu Ala Leu
1 5 10

<210> 3693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*07:04,HLA-C*14:02

<400> 3693
Ala Leu Thr Gly Asn Ser Ser Val Tyr
1 5

<210> 3694
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 3694
Ala Leu Thr Pro His Ser Ser Tyr
1 5

<210> 3695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:04

<400> 3695
Ala Ser Ala Gly Ser Tyr Ser Glu Trp
1 5

<210> 3696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -C*06:02

<400> 3696
Cys Asn Phe Pro Gly Cys Arg Thr Leu
1 5

<210> 3697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:02,HLA-A*11:01

<400> 3697
Cys Ser Met Lys Ser Ser His Gln Lys
1 5

<210> 3698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 3698
Asp Ile Gln Glu Pro Tyr Tyr Gly Arg
1 5

<210> 3699
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*68:01,HLA-A*68:02

<400> 3699
Asp Ile Gln Glu Pro Tyr Tyr Gly Arg Val
1 5 10

<210> 3700
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*33:01,HLA-A*68:01

<400> 3700
Asp Ile Gln Glu Pro Tyr Tyr Gly Arg Val Arg
1 5 10

<210> 3701
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*51:01

<400> 3701

Asp Pro Pro Val Met Asn Ile Thr Gln Val
1               5                   10


<210> 3702
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*33:01,HLA-A*33:03

<400> 3702
Asp Tyr Tyr Glu Leu Leu Tyr Arg
1               5


<210> 3703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*08:01,
      HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,

<220>
<223> HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*51:01,
      HLA-B*54:01,HLA-B*55:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
      HLA-C*03:03,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
      HLA-C*16:04

<400> 3703
Glu Ala Leu Thr Pro His Ser Ser Tyr
1               5


<210> 3704
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02

<400> 3704
Glu Ile Glu Ala Leu Thr Pro His Ser Ser Tyr
1               5                   10

<210> 3705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-C*07:06

<400> 3705
Glu Ile Tyr Gln Pro Met Leu Asp Arg
1 5

<210> 3706
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*68:02

<400> 3706
Glu Ile Tyr Gln Pro Met Leu Asp Arg Arg
1 5 10

<210> 3707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*15:03

<400> 3707
Glu Lys Asn Val Ser Ile Glu Asp Tyr
1 5

<210> 3708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02

<400> 3708
Glu Leu Leu Tyr Arg Val Phe Ile Ile

1 5

<210> 3709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 3709
Glu Pro Tyr Tyr Gly Arg Val Arg Ala
1 5

<210> 3710
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 3710
Glu Pro Tyr Tyr Gly Arg Val Arg Ala Ala
1 5 10

<210> 3711
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*33:03

<400> 3711
Glu Gln Lys Val Tyr Glu Gly Ala His Arg
1 5 10

<210> 3712
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02,HLA-A*33:03,HLA-B*57:01

<400> 3712
Glu Ser Leu Lys Pro Gln Arg Val Gln Phe
1               5                   10


<210> 3713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-B*39:01

<400> 3713
Glu Thr Lys Ile Asp Pro Pro Val Met
1               5


<210> 3714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*35:01,
      HLA-C*07:06

<400> 3714
Glu Thr Ser Asp Ile Gln Glu Pro Tyr
1               5


<210> 3715
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*68:01,HLA-A*68:02

<400> 3715
Glu Thr Ser Asp Ile Gln Glu Pro Tyr Tyr
1               5                   10


<210> 3716
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*29:02

<400> 3716
Phe Phe Leu Thr Gly Val Ala Gly Thr Gln
1 5 10

<210> 3717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:01,HLA-A*11:01

<400> 3717
Phe Ile Ile Asn Asn Ser Leu Glu Lys
1 5

<210> 3718
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 3718
Phe Leu Ile Ser Phe Phe Leu Thr Gly Val
1 5 10

<210> 3719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*26:01,HLA-C*12:03

<400> 3719
Phe Leu Thr Gly Val Ala Gly Thr Gln
1 5

<210> 3720
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:07

<400> 3720
Phe Thr Pro Trp Trp Glu Thr Lys Ile
1 5

<210> 3721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*29:02,HLA-A*30:02

<400> 3721
Gly Asn Ser Ser Val Tyr Phe Val Gln Tyr
1 5 10

<210> 3722
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -C*16:04

<400> 3722
Gly Arg Ala Leu Thr Gly Asn Ser Ser Val Tyr
1 5 10

<210> 3723
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02,HLA-B*27:02,HLA-C*16:04

<400> 3723
Gly Arg Val Arg Ala Ala Ser Ala Gly Ser Tyr
1 5 10

<210> 3724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*32:01,HLA-B*58:01,HLA-C*01:02

<400> 3724
Gly Thr Gln Ser Thr His Glu Ser Leu
1 5

<210> 3725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3725
Gly Thr Gln Ser Thr His Glu Ser Leu Lys
1 5 10

<210> 3726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*15:01

<400> 3726
Gly Val Ala Gly Thr Gln Ser Thr His
1 5

<210> 3727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*29:02,HLA-A*30:02,HLA-B*35:01

<400> 3727
His Ala Pro Asn Leu Pro Tyr Arg Tyr
1 5

<210> 3728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*37:01

<400> 3728
His Glu Ser Leu Lys Pro Gln Arg Val
1 5

<210> 3729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*27:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 3729
His Arg Ala Val Glu Ile Glu Ala Leu
1 5

<210> 3730
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*37:01,HLA-B*51:01

<400> 3730
Ile Asp Pro Pro Val Met Asn Ile
1 5

<210> 3731
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*30:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 3731
Ile Glu Ala Leu Thr Pro His Ser Ser Tyr
1               5                   10


<210> 3732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 3732
Ile Glu Asp Tyr Tyr Glu Leu Leu Tyr
1               5


<210> 3733
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*03:02

<400> 3733
Ile Ile Asn Asn Ser Leu Glu Lys Glu Gln Lys
1               5                   10


<210> 3734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
      HLA-B*46:01

<400> 3734
Ile Leu His Ala Pro Asn Leu Pro Tyr
1               5


<210> 3735
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*29:02,HLA-A*30:02

<400> 3735
Ile Leu His Ala Pro Asn Leu Pro Tyr Arg Tyr
1 5 10

<210> 3736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -C*03:03,HLA-C*03:04

<400> 3736
Ile Thr Gln Val Asn Gly Ser Leu Leu
1 5

<210> 3737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02,HLA-A*31:01

<400> 3737
Ile Tyr Gln Pro Met Leu Asp Arg Arg
1 5

<210> 3738
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*40:01

<400> 3738
Lys Glu Asp Cys Trp Gly Thr Gln Glu Leu
1 5 10

<210> 3739
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02,HLA-B*44:02,HLA-B*44:03

<400> 3739
Lys Glu Lys Asn Val Ser Ile Glu Asp Tyr
1 5 10

<210> 3740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02,HLA-B*44:02,HLA-B*44:03

<400> 3740
Lys Glu Lys Asn Val Ser Ile Glu Asp Tyr Tyr
1 5 10

<210> 3741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*40:02

<400> 3741
Lys Glu Gln Lys Val Tyr Glu Gly Ala
1 5

<210> 3742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,
HLA-A*03:01,HLA-A*03:02,HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,
HLA-B*13:02,HLA-B*38:01,HLA-B*49:01,HLA-B*58:01,HLA-C*05:01

<400> 3742
Lys Ile Asp Pro Pro Val Met Asn Ile
1 5

<210> 3743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*29:02,HLA-A*30:02

<400> 3743
Lys Asn Val Ser Ile Glu Asp Tyr Tyr
1 5

<210> 3744
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*31:01

<400> 3744
Lys Val Tyr Glu Gly Ala His Arg
1 5

<210> 3745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*55:01

<400> 3745
Lys Val Tyr Glu Gly Ala His Arg Ala
1 5

<210> 3746
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:03,HLA-A*03:01

<400> 3746
Lys Val Tyr Glu Gly Ala His Arg Ala Val

1 5 10

<210> 3747
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*57:01

<400> 3747
Leu Ala Lys Tyr Gly Gln Arg Gln Trp
1 5

<210> 3748
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*18:01

<400> 3748
Leu Glu Lys Glu Gln Lys Val Tyr
1 5

<210> 3749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*29:02,HLA-B*57:01

<400> 3749
Leu His Ala Pro Asn Leu Pro Tyr Arg Tyr
1 5 10

<210> 3750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 3750
Leu Ile Ser Phe Phe Leu Thr Gly Val
1               5


<210> 3751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -B*15:03

<400> 3751
Leu Gln Trp Gln Pro Gly Arg Ala Leu
1               5


<210> 3752
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-B*39:01,HLA-C*12:03

<400> 3752
Leu Thr Gly Asn Ser Ser Val Tyr
1               5


<210> 3753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*02:04

<400> 3753
Leu Val Ile Leu His Ala Pro Asn Leu
1               5


<210> 3754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;

HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*35:01,HLA-C*16:01

<400> 3754
Asn Ser Ser Val Tyr Phe Val Gln Tyr
1 5

<210> 3755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*31:01

<400> 3755
Pro Gln Arg Val Gln Phe Gln Ser Arg
1 5

<210> 3756
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*57:01

<400> 3756
Gln Ser Arg Asn Phe His Asn Ile Leu Gln Trp
1 5 10

<210> 3757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*25:01,HLA-B*13:02

<400> 3757
Gln Val Asn Gly Ser Leu Leu Val Ile
1 5

<210> 3758
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02,HLA-B*46:01,HLA-B*58:01

<400> 3758
Arg Ala Ala Ser Ala Gly Ser Tyr
1 5

<210> 3759
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 3759
Arg Ala Ala Ser Ala Gly Ser Tyr Ser Glu Trp
1 5 10

<210> 3760
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*23:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-B*58:01

<400> 3760
Arg Ala Leu Thr Gly Asn Ser Ser Val Tyr
1 5 10

<210> 3761
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*57:01,HLA-B*58:01

<400> 3761
Arg Ala Leu Thr Gly Asn Ser Ser Val Tyr Phe
1 5 10

<210> 3762

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*57:01

<400> 3762
Arg Asn Phe His Asn Ile Leu Gln Trp
1 5

<210> 3763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:01,HLA-A*31:01

<400> 3763
Arg Thr Leu Ala Lys Tyr Gly Gln Arg
1 5

<210> 3764
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*57:01

<400> 3764
Arg Thr Leu Ala Lys Tyr Gly Gln Arg Gln Trp
1 5 10

<210> 3765
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:04,HLA-A*32:01,HLA-A*68:02,HLA-B*07:02,HLA-B*27:05,
HLA-B*58:01

<400> 3765
Arg Val Phe Ile Ile Asn Asn Ser Leu
1 5

<210> 3766
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:01

<400> 3766
Arg Val Phe Ile Ile Asn Asn Ser Leu Glu Lys
1 5 10

<210> 3767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*32:01

<400> 3767
Arg Val Gln Phe Gln Ser Arg Asn Phe
1 5

<210> 3768
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 3768
Arg Val Arg Ala Ala Ser Ala Gly Ser Tyr
1 5 10

<210> 3769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*25:01,HLA-A*32:01,HLA-B*58:01

<400> 3769

Ser Ala Gly Ser Tyr Ser Glu Trp
1               5


<210> 3770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -B*18:01

<400> 3770
Ser Asp Ile Gln Glu Pro Tyr Tyr
1               5


<210> 3771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*33:01

<400> 3771
Ser Asp Ile Gln Glu Pro Tyr Tyr Gly Arg
1               5                   10


<210> 3772
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*30:02,HLA-B*18:01,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03

<400> 3772
Ser Glu Thr Ser Asp Ile Gln Glu Pro Tyr
1               5                   10


<210> 3773
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*30:02,HLA-B*44:02,HLA-B*44:03

<400> 3773
Ser Glu Thr Ser Asp Ile Gln Glu Pro Tyr Tyr
1               5                   10


<210> 3774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 3774
Ser Glu Trp Ser Met Thr Pro Arg Phe
1               5


<210> 3775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*02:07

<400> 3775
Ser Ile Glu Asp Tyr Tyr Glu Leu Leu
1               5


<210> 3776
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-A*29:02

<400> 3776
Ser Ile Glu Asp Tyr Tyr Glu Leu Leu Tyr
1               5                   10


<210> 3777
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-C*07:04

<400> 3777
Ser Leu Glu Lys Glu Gln Lys Val Tyr
1 5

<210> 3778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*32:01,HLA-B*08:01,HLA-B*15:01,HLA-B*37:01,HLA-B*46:01

<400> 3778
Ser Leu Lys Pro Gln Arg Val Gln Phe
1 5

<210> 3779
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:04

<400> 3779
Ser Leu Leu Val Ile Leu His Ala Pro Asn Leu
1 5 10

<210> 3780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02

<400> 3780
Ser Met Thr Pro Arg Phe Thr Pro Trp
1 5

<210> 3781
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*15:01

<400> 3781
Ser Ser Val Tyr Phe Val Gln Tyr
1 5

<210> 3782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:02,HLA-A*11:01

<400> 3782
Ser Ser Val Tyr Phe Val Gln Tyr Lys
1 5

<210> 3783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*13:02

<400> 3783
Ser Ser Tyr Cys Val Val Ala Glu Ile
1 5

<210> 3784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:07,HLA-A*68:02,HLA-B*13:02

<400> 3784
Ser Val Tyr Phe Val Gln Tyr Lys Ile
1 5

<210> 3785
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*29:02

<400> 3785
Ser Tyr Cys Val Val Ala Glu Ile Tyr
1 5

<210> 3786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*31:01,HLA-A*33:03

<400> 3786
Ser Tyr Ser Glu Trp Ser Met Thr Pro Arg
1 5 10

<210> 3787
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02

<400> 3787
Ser Tyr Ser Glu Trp Ser Met Thr Pro Arg Phe
1 5 10

<210> 3788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*13:02

<400> 3788
Thr Gly Asn Ser Ser Val Tyr Phe Val
1 5

<210> 3789
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02

<400> 3789
Thr Gly Asn Ser Ser Val Tyr Phe Val Gln Tyr
1 5 10

<210> 3790
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*38:01

<400> 3790
Thr His Glu Ser Leu Lys Pro Gln Arg Val
1 5 10

<210> 3791
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*15:03

<400> 3791
Thr Lys Ile Asp Pro Pro Val Met
1 5

<210> 3792
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 3792
Thr Pro His Ser Ser Tyr Cys Val Val
1 5

<210> 3793
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*54:01,HLA-B*56:01

<400> 3793
Thr Pro His Ser Ser Tyr Cys Val Val Ala
1 5 10

<210> 3794
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*37:01,HLA-B*38:01,HLA-B*39:01

<400> 3794
Thr Gln Ser Thr His Glu Ser Leu
1 5

<210> 3795
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*39:01

<400> 3795
Thr Gln Val Asn Gly Ser Leu Leu
1 5

<210> 3796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*13:02,HLA-B*38:01,HLA-B*39:01,HLA-B*49:01

<400> 3796

Thr Gln Val Asn Gly Ser Leu Leu Val
1               5


<210> 3797
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -B*13:02,HLA-B*39:01

<400> 3797
Thr Gln Val Asn Gly Ser Leu Leu Val Ile
1               5                   10


<210> 3798
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01

<400> 3798
Thr Ser Asp Ile Gln Glu Pro Tyr
1               5


<210> 3799
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*01:01,HLA-A*30:02

<400> 3799
Thr Ser Asp Ile Gln Glu Pro Tyr Tyr
1               5


<210> 3800
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*31:01,HLA-A*33:01,HLA-A*68:01

<400> 3800
Thr Ser Asp Ile Gln Glu Pro Tyr Tyr Gly Arg
1 5 10

<210> 3801
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*01:01

<400> 3801
Thr Ser Glu Thr Ser Asp Ile Gln Glu Pro Tyr
1 5 10

<210> 3802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*35:03

<400> 3802
Val Ala Glu Ile Tyr Gln Pro Met Leu
1 5

<210> 3803
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*18:01,HLA-B*49:01

<400> 3803
Val Glu Ile Glu Ala Leu Thr Pro
1 5

<210> 3804
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*18:01,HLA-B*40:02,HLA-B*46:01,HLA-B*49:01

<400> 3804
Val Glu Ile Glu Ala Leu Thr Pro His
1 5

<210> 3805
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*23:01,HLA-B*08:01,HLA-C*01:02,HLA-C*14:02

<400> 3805
Val Phe Ile Ile Asn Asn Ser Leu
1 5

<210> 3806
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*03:01,HLA-A*29:02

<400> 3806
Val Ile Leu His Ala Pro Asn Leu Pro Tyr
1 5 10

<210> 3807
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*15:01,HLA-B*15:03

<400> 3807
Val Gln Phe Gln Ser Arg Asn Phe
1 5

<210> 3808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:03,HLA-B*27:02,HLA-B*27:05,
HLA-B*39:01,HLA-C*16:04

<400> 3808
Val Arg Ala Ala Ser Ala Gly Ser Tyr
1 5

<210> 3809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:07,HLA-A*23:01,HLA-B*27:05,HLA-B*35:03,HLA-B*46:01,
HLA-B*58:01,HLA-C*03:03,HLA-C*03:04

<400> 3809
Val Ser Ile Glu Asp Tyr Tyr Glu Leu
1 5

<210> 3810
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*01:01

<400> 3810
Val Ser Ile Glu Asp Tyr Tyr Glu Leu Leu Tyr
1 5 10

<210> 3811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,
HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*31:01,
HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*27:05,

<220>
<223> HLA-B*35:01,HLA-B*35:03,HLA-B*46:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:04,HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*16:04

<400> 3811
Val Val Ala Glu Ile Tyr Gln Pro Met
1               5


<210> 3812
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*68:02

<400> 3812
Val Val Ala Glu Ile Tyr Gln Pro Met Leu
1               5                   10


<210> 3813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*32:01,HLA-C*06:02

<400> 3813
Val Tyr Glu Gly Ala His Arg Ala Val
1               5


<210> 3814
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
      HLA -A*24:02

<400> 3814
Val Tyr Glu Gly Ala His Arg Ala Val Glu Ile
1               5                   10


<210> 3815
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*23:01,HLA-A*24:02

<400> 3815
Val Tyr Phe Val Gln Tyr Lys Ile
1 5

<210> 3816
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02

<400> 3816
Val Tyr Phe Val Gln Tyr Lys Ile Met Phe
1 5 10

<210> 3817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*49:01

<400> 3817
Trp Glu Thr Lys Ile Asp Pro Pro Val
1 5

<210> 3818
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*46:01

<400> 3818
Tyr Cys Val Val Ala Glu Ile Tyr
1 5

<210> 3819
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*37:01,HLA-B*49:01

<400> 3819
Tyr Glu Gly Ala His Arg Ala Val
1 5

<210> 3820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02

<400> 3820
Tyr Phe Val Gln Tyr Lys Ile Met Phe
1 5

<210> 3821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -B*08:01,HLA-B*54:01

<400> 3821
Tyr Gly Arg Val Arg Ala Ala Ser Ala
1 5

<210> 3822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*02:03,HLA-A*30:01,HLA-A*32:01,HLA-B*08:01,HLA-B*13:02,
HLA-B*38:01,HLA-B*40:02

<400> 3822
Tyr Gln Lys Glu Lys Asn Val Ser Ile
1 5

<210> 3823

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; IL22RA2; ENSG00000164485;
HLA -A*24:02,HLA-A*29:02

<400> 3823
Tyr Tyr Glu Leu Leu Tyr Arg Val Phe
1 5

<210> 3824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:04

<400> 3824
Ala Ile Trp Leu Leu Leu Ser Gln Leu
1 5

<210> 3825
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*32:01,HLA-B*46:01

<400> 3825
Ala Leu Gly Thr Thr Ser Glu Phe
1 5

<210> 3826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*13:02

<400> 3826
Ala Leu Gly Thr Thr Ser Glu Phe Ile
1 5

<210> 3827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*38:01,HLA-B*40:01

<400> 3827
Cys Asp Asp Gly Thr Ser Val Lys Leu
1 5

<210> 3828
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*56:01

<400> 3828
Cys Pro Met Pro Glu Lys Thr Phe Thr Thr Thr
1 5 10

<210> 3829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*18:01

<400> 3829
Asp Asp Gly Thr Ser Val Lys Leu
1 5

<210> 3830
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*51:01

<400> 3830
Asp Pro Phe Cys Cys Glu Val Ile

1 5

<210> 3831
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*23:01,HLA-A*24:02

<400> 3831
Glu Phe Ile Pro Asn Leu Ser Pro Glu Leu
1 5 10

<210> 3832
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*33:03

<400> 3832
Glu Met Val Ser Thr Ser Asn Asn Lys
1 5

<210> 3833
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*33:03

<400> 3833
Glu Ser Leu Ala Ala Glu Leu Arg
1 5

<210> 3834
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 3834
Glu Val Ile Cys Asp Asp Gly Thr Ser Val
1               5                   10


<210> 3835
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*26:01,HLA-A*68:01

<400> 3835
Glu Val Ile Cys Asp Asp Gly Thr Ser Val Lys
1               5                   10


<210> 3836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,
      HLA-A*26:01,HLA-A*68:02,HLA-B*35:03,HLA-B*58:01,HLA-C*01:02

<400> 3836
Phe Ile Pro Asn Leu Ser Pro Glu Leu
1               5


<210> 3837
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*32:01

<400> 3837
Phe Thr Thr Thr Pro Gly Gly Trp
1               5


<210> 3838
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*01:01,HLA-A*68:02

<400> 3838
Phe Thr Thr Thr Pro Gly Gly Trp Leu Leu
1 5 10

<210> 3839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 3839
Gly Gln Ala Leu Gly Thr Thr Ser Glu Phe
1 5 10

<210> 3840
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*13:02

<400> 3840
Gly Gln Ala Leu Gly Thr Thr Ser Glu Phe Ile
1 5 10

<210> 3841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:04,HLA-A*11:01,HLA-A*68:02

<400> 3841
Gly Thr Thr Ser Glu Phe Ile Pro Asn Leu
1 5 10

<210> 3842
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -C*05:01

<400> 3842
Ile Cys Asp Asp Gly Thr Ser Val
1 5

<210> 3843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:01,HLA-A*02:07,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*40:01,HLA-C*05:01

<400> 3843
Ile Cys Asp Asp Gly Thr Ser Val Lys Leu
1 5 10

<210> 3844
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*07:02,HLA-C*16:01

<400> 3844
Ile Pro Asn Leu Ser Pro Glu Leu
1 5

<210> 3845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*24:02

<400> 3845
Ile Trp Leu Leu Leu Ser Gln Leu Leu
1 5

<210> 3846
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*15:03

<400> 3846
Lys Lys Pro Leu Ser Glu Gly Gln Pro Ser Leu
1 5 10

<210> 3847
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*40:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 3847
Lys Pro Leu Ser Glu Gly Gln Pro Ser Leu
1 5 10

<210> 3848
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*03:02,HLA-B*27:02

<400> 3848
Lys Pro Leu Ser Glu Gly Gln Pro Ser Leu Lys
1 5 10

<210> 3849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 3849

Lys Thr Phe Thr Thr Thr Pro Gly Gly Trp
1               5                   10


<210> 3850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -B*37:01

<400> 3850
Leu Glu Ser Gly Arg Pro Lys Glu Met
1               5


<210> 3851
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*02:03,HLA-A*02:04

<400> 3851
Leu Leu Arg Glu Ser Leu Ala Ala Glu Leu
1               5                   10


<210> 3852
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*02:04

<400> 3852
Leu Leu Ser Gln Leu Leu Arg Glu Ser Leu
1               5                   10


<210> 3853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01,HLA-C*06:02

<400> 3853
Leu Arg Glu Ser Leu Ala Ala Glu Leu
1               5


<210> 3854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*01:01,HLA-A*03:02

<400> 3854
Leu Ser Glu Gly Gln Pro Ser Leu Lys
1               5


<210> 3855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*03:01,HLA-A*11:01

<400> 3855
Leu Ser Tyr Cys Pro Met Pro Glu Lys
1               5


<210> 3856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 3856
Met Pro Glu Lys Thr Phe Thr Thr Thr
1               5


<210> 3857
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*08:01

<400> 3857
Asn Asn Lys Asp Gly Gln Ala Leu
1 5

<210> 3858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:01,HLA-A*02:04

<400> 3858
Pro Leu Ser Glu Gly Gln Pro Ser Leu
1 5

<210> 3859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,

<220>
<223> HLA-C*03:04,HLA-C*05:01,HLA-C*14:02,HLA-C*16:04

<400> 3859
Gln Ala Leu Gly Thr Thr Ser Glu Phe
1 5

<210> 3860
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:01,HLA-A*02:04

<400> 3860
Gln Leu Leu Arg Glu Ser Leu Ala Ala Glu Leu
1 5 10

<210> 3861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 3861
Gln Pro Ser Leu Lys Lys Ile Ile Leu
1 5

<210> 3862
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01

<400> 3862
Arg Glu Ser Leu Ala Ala Glu Leu
1 5

<210> 3863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*29:02

<400> 3863
Arg Phe Gly Lys His Leu Leu Ser Tyr
1 5

<210> 3864
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*57:01

<400> 3864
Arg Ser Tyr Leu Pro Ala Ile Trp

1 5

<210> 3865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*40:02

<400> 3865
Ser Glu Phe Ile Pro Asn Leu Ser Pro
1 5

<210> 3866
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*30:01,HLA-B*40:01

<400> 3866
Ser Glu Phe Ile Pro Asn Leu Ser Pro Glu Leu
1 5 10

<210> 3867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*44:03

<400> 3867
Ser Glu Gly Gln Pro Ser Leu Lys Lys
1 5

<210> 3868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3868
Ser Glu Gly Gln Pro Ser Leu Lys Lys Ile
1               5                   10


<210> 3869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*02:03

<400> 3869
Ser Leu Ala Ala Glu Leu Arg Gly Cys
1               5


<210> 3870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 3870
Ser Leu Phe Arg Ser Tyr Leu Pro Ala Ile
1               5                   10


<210> 3871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
      HLA -A*02:03,HLA-A*03:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 3871
Ser Leu Lys Lys Ile Ile Leu Ser Arg
1               5


<210> 3872
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;

HLA -B*07:02,HLA-B*08:01

<400> 3872
Ser Pro Glu Leu Lys Lys Pro Leu
1 5

<210> 3873
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -B*08:01

<400> 3873
Ser Gln Leu Leu Arg Glu Ser Leu
1 5

<210> 3874
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*23:01,HLA-A*24:02

<400> 3874
Ser Tyr Cys Pro Met Pro Glu Lys Thr Phe
1 5 10

<210> 3875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:04,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 3875
Ser Tyr Leu Pro Ala Ile Trp Leu Leu
1 5

<210> 3876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*23:01,HLA-A*24:02

<400> 3876
Ser Tyr Leu Pro Ala Ile Trp Leu Leu Leu
1 5 10

<210> 3877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:02,
HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*31:01,
HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*35:03,HLA-B*38:01,

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<223> HLA-B*39:01,HLA-C*16:02

<400> 3877
Thr Thr Ser Glu Phe Ile Pro Asn Leu
1 5

<210> 3878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*68:02

<400> 3878
Thr Thr Thr Pro Gly Gly Trp Leu Leu
1 5

<210> 3879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:01,HLA-A*02:03,HLA-C*05:01

<400> 3879
Val Ile Cys Asp Asp Gly Thr Ser Val
1 5

<210> 3880
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*03:02

<400> 3880
Val Ile Cys Asp Asp Gly Thr Ser Val Lys
1 5 10

<210> 3881
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:04,HLA-A*02:07

<400> 3881
Tyr Leu Pro Ala Ile Trp Leu Leu
1 5

<210> 3882
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL4; ENSG00000120211;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*24:02,
HLA-A*29:02

<400> 3882
Tyr Leu Pro Ala Ile Trp Leu Leu Leu
1 5

<210> 3883
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*11:01

<400> 3883
Ala Cys Leu Pro Tyr Ile Asp Phe Lys
1               5


<210> 3884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*44:02,HLA-B*44:03,HLA-C*07:04

<400> 3884
Ala Gln Ala Ser Glu Lys Val Glu Ala Tyr
1               5                   10


<210> 3885
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*01:01,HLA-A*30:02,HLA-B*58:01

<400> 3885
Ala Ser Glu Lys Val Glu Ala Tyr
1               5


<210> 3886
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*01:01

<400> 3886
Ala Ser Glu Lys Val Glu Ala Tyr Ser Pro Tyr
1               5                   10


<210> 3887
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*08:01

<400> 3887
Asp Ile Ser Ser Ala Arg Lys Leu
1 5

<210> 3888
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*35:01,HLA-B*35:03

<400> 3888
Glu Ala Val Asn Ser Trp Glu Met
1 5

<210> 3889
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*23:01,HLA-B*08:01

<400> 3889
Glu Ala Tyr Ser Pro Tyr Gln Phe
1 5

<210> 3890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*40:01,HLA-B*44:03

<400> 3890
Glu Glu Glu Thr Pro Phe Ser Arg Leu
1 5

<210> 3891
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3891
Glu Glu Glu Thr Pro Phe Ser Arg Leu Ile
1 5 10

<210> 3892
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*18:01

<400> 3892
Glu Glu Leu Ser Ile Ala Cys Leu
1 5

<210> 3893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*18:01,HLA-B*44:03

<400> 3893
Glu Glu Thr Pro Phe Ser Arg Leu
1 5

<210> 3894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*30:01,HLA-A*68:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 3894
Glu Glu Thr Pro Phe Ser Arg Leu Ile
1 5

<210> 3895

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*26:01,HLA-B*15:03

<400> 3895
Glu Lys Val Glu Ala Tyr Ser Pro Tyr
1 5

<210> 3896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 3896
Glu Leu Ser Asp Ile Ser Ser Ala Arg
1 5

<210> 3897
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*33:03,HLA-A*68:01

<400> 3897
Glu Leu Ser Asp Ile Ser Ser Ala Arg Lys
1 5 10

<210> 3898
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*68:02

<400> 3898
Glu Leu Ser Asp Ile Ser Ser Ala Arg Lys Leu
1 5 10

<210> 3899
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*30:02

<400> 3899
Glu Met Gln Ser Leu Pro Glu Tyr
1 5

<210> 3900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*03:02,HLA-A*33:03

<400> 3900
Glu Met Gln Ser Leu Pro Glu Tyr Lys
1 5

<210> 3901
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*33:03

<400> 3901
Glu Asn Ala Lys Phe Gln Lys Lys Arg
1 5

<210> 3902
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*68:01

<400> 3902
Glu Ser Pro Gln Thr Ala Ser Pro Ala Arg

1 5 10

<210> 3903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*40:01,HLA-B*49:01

<400> 3903
Phe Glu Glu Glu Thr Pro Phe Ser Arg Leu
1 5 10

<210> 3904
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*49:01

<400> 3904
Phe Glu Glu Glu Thr Pro Phe Ser Arg Leu Ile
1 5 10

<210> 3905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*49:01

<400> 3905
Phe Glu Ser Pro Gln Thr Ala Ser Pro
1 5

<210> 3906
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*27:02,HLA-B*27:05

<400> 3906
Phe Glu Ser Pro Gln Thr Ala Ser Pro Ala Arg
1               5                   10


<210> 3907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*68:02,HLA-C*02:02

<400> 3907
Phe Ser Ser Ser His Asn Ile Asn Val
1               5


<210> 3908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*01:01,HLA-A*26:01,HLA-A*30:02

<400> 3908
Phe Ser Ser Ser His Asn Ile Asn Val Tyr
1               5                   10


<210> 3909
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -B*27:02,HLA-C*16:04

<400> 3909
Gly Arg Gly Thr Asn Pro Val Ser Thr Ser Trp
1               5                   10


<210> 3910
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;

HLA -B*27:05

<400> 3910
Gly Arg Tyr Leu Val Lys Glu Ile Glu Lys
1 5 10

<210> 3911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:03,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,

<220>
<223> HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 3911
Gly Thr Asn Pro Val Ser Thr Ser Trp
1 5

<210> 3912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*33:03

<400> 3912
Gly Tyr Ser Pro Leu Gly Lys Thr Arg
1 5

<210> 3913
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*24:02

<400> 3913
Gly Tyr Ser Pro Leu Gly Lys Thr Arg Glu Phe
1 5 10

<210> 3914
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*54:01

<400> 3914
Ile Ala Gln Ala Ser Glu Lys Val Glu Ala
1 5 10

<210> 3915
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*26:01,HLA-A*30:02,HLA-B*15:01,HLA-B*35:01,HLA-B*46:01

<400> 3915
Ile Ala Gln Ala Ser Glu Lys Val Glu Ala Tyr
1 5 10

<210> 3916
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*40:01

<400> 3916
Lys Glu Glu Leu Ser Ile Ala Cys Leu
1 5

<210> 3917
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*03:01,HLA-A*03:02

<400> 3917
Lys Gly Tyr Ser Pro Leu Gly Lys
1 5

<210> 3918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*31:01,HLA-B*57:01

<400> 3918
Lys Gly Tyr Ser Pro Leu Gly Lys Thr Arg
1 5 10

<210> 3919
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*57:01

<400> 3919
Lys Ile Lys Thr Leu Ser Asn Leu Phe Trp
1 5 10

<210> 3920
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*57:01

<400> 3920
Lys Thr Leu Ser Asn Leu Phe Trp
1 5

<210> 3921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 3921

Leu Leu Trp Leu Gly Leu Leu Leu Val
1               5


<210> 3922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -B*51:01

<400> 3922
Leu Pro Tyr Ile Asp Phe Lys Arg Leu
1               5


<210> 3923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*01:01

<400> 3923
Leu Ser Asp Ile Ser Ser Ala Arg Lys
1               5


<210> 3924
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -B*08:01

<400> 3924
Leu Val Lys Glu Ile Glu Lys Leu
1               5


<210> 3925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -B*07:02

<400> 3925
Met Pro Arg Leu Leu Arg Leu Ser Leu
1               5


<210> 3926
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3926
Asn Val Tyr Ile His Glu Asn Ala Lys
1               5


<210> 3927
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*25:01

<400> 3927
Asn Val Tyr Ile His Glu Asn Ala Lys Phe
1               5                   10


<210> 3928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
      HLA-B*35:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,

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<223> HLA-B*55:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*07:04,
      HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,
      HLA-C*16:04

<400> 3928
Gln Ala Ser Glu Lys Val Glu Ala Tyr
1               5

<210> 3929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 3929
Gln Thr Ala Ser Pro Ala Arg Gly Arg
1 5

<210> 3930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3930
Arg Glu Phe Ser Ser Ser His Asn Ile
1 5

<210> 3931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 3931
Arg Glu Leu Ser Asp Ile Ser Ser Ala
1 5

<210> 3932
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*40:01

<400> 3932
Arg Glu Leu Ser Asp Ile Ser Ser Ala Arg

1 5 10

<210> 3933
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*23:01,HLA-A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*16:04

<400> 3933
Arg Gly Thr Asn Pro Val Ser Thr Ser Trp
1 5 10

<210> 3934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*03:01,HLA-A*03:02

<400> 3934
Arg Leu Ile Ala Gln Ala Ser Glu Lys
1 5

<210> 3935
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*02:03

<400> 3935
Arg Leu Ile Ala Gln Ala Ser Glu Lys Val
1 5 10

<210> 3936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*08:01

<400> 3936
Arg Leu Lys Glu Lys Arg Ser Ser Leu
1               5


<210> 3937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -B*57:01

<400> 3937
Arg Leu Leu Arg Leu Ser Leu Leu Trp
1               5


<210> 3938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*01:01,HLA-A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
      HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*44:02,HLA-B*44:03,
      HLA-B*57:01,HLA-B*58:01,HLA-C*06:02,HLA-C*07:01,HLA-C*12:03,

<220>
<223> HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 3938
Arg Ser Ser Leu Val Thr Lys Ile Tyr
1               5


<210> 3939
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*24:02

<400> 3939
Arg Tyr Leu Val Lys Glu Ile Glu Lys Leu
1               5                   10


<210> 3940

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*30:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 3940
Ser Asp Ile Ser Ser Ala Arg Lys Leu
1 5

<210> 3941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*40:02

<400> 3941
Ser Glu Lys Val Glu Ala Tyr Ser Pro
1 5

<210> 3942
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*30:02,HLA-B*44:02,HLA-B*44:03

<400> 3942
Ser Glu Lys Val Glu Ala Tyr Ser Pro Tyr
1 5 10

<210> 3943
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*38:01

<400> 3943
Ser His Asn Ile Asn Val Tyr Ile
1 5

<210> 3944
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*02:01,HLA-A*02:04

<400> 3944
Ser Leu Leu Trp Leu Gly Leu Leu Leu
1 5

<210> 3945
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*02:01,HLA-A*02:04

<400> 3945
Ser Leu Leu Trp Leu Gly Leu Leu Leu Val
1 5 10

<210> 3946
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*07:02

<400> 3946
Ser Pro Ala Arg Gly Arg Gly Thr Asn Pro Val
1 5 10

<210> 3947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-C*07:02,HLA-C*16:01

<400> 3947
Ser Pro Leu Gly Lys Thr Arg Glu Phe

1 5

<210> 3948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -C*07:06

<400> 3948
Ser Pro Gln Thr Ala Ser Pro Ala Arg
1 5

<210> 3949
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*56:01

<400> 3949
Ser Pro Tyr Gln Phe Glu Ser Pro
1 5

<210> 3950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*51:01,HLA-B*56:01

<400> 3950
Ser Pro Tyr Gln Phe Glu Ser Pro Gln Thr
1 5 10

<210> 3951
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 3951
Ser Pro Tyr Gln Phe Glu Ser Pro Gln Thr Ala
1               5                   10


<210> 3952
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*30:02,HLA-B*46:01

<400> 3952
Ser Ser His Asn Ile Asn Val Tyr
1               5


<210> 3953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -A*68:02,HLA-B*13:02

<400> 3953
Ser Ser His Asn Ile Asn Val Tyr Ile
1               5


<210> 3954
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
      HLA -B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*12:03,HLA-C*16:01

<400> 3954
Ser Ser Leu Val Thr Lys Ile Tyr
1               5


<210> 3955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;

HLA -A*01:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 3955
Ser Ser Ser His Asn Ile Asn Val Tyr
1 5

<210> 3956
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*68:02

<400> 3956
Ser Ser Ser His Asn Ile Asn Val Tyr Ile
1 5 10

<210> 3957
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*25:01

<400> 3957
Ser Thr Ser Trp Glu Glu Ala Val Asn Ser Trp
1 5 10

<210> 3958
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*54:01,HLA-B*56:01

<400> 3958
Thr Pro Phe Ser Arg Leu Ile Ala
1 5

<210> 3959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*54:01,HLA-B*56:01

<400> 3959
Thr Pro Phe Ser Arg Leu Ile Ala Gln
1 5

<210> 3960
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*54:01,HLA-B*56:01

<400> 3960
Thr Pro Phe Ser Arg Leu Ile Ala Gln Ala
1 5 10

<210> 3961
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 3961
Thr Ser Trp Glu Glu Ala Val Asn Ser Trp
1 5 10

<210> 3962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-B*18:01,HLA-B*27:02,
HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 3962
Val Glu Ala Tyr Ser Pro Tyr Gln Phe
1 5

<210> 3963

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 3963
Val Tyr Ile His Glu Asn Ala Lys Phe
1 5

<210> 3964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*15:03,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 3964
Trp Glu Met Gln Ser Leu Pro Glu Tyr
1 5

<210> 3965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 3965
Tyr Leu Val Lys Glu Ile Glu Lys Leu
1 5

<210> 3966
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -B*13:02

<400> 3966
Tyr Gln Phe Glu Ser Pro Gln Thr
1 5

<210> 3967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; INSL6; ENSG00000120210;
HLA -A*02:01,HLA-A*02:03,HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*39:01,HLA-C*02:02,
HLA-C*12:03

<400> 3967
Tyr Gln Phe Glu Ser Pro Gln Thr Ala
1 5

<210> 3968
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 3968
Ala Ala Asp Asp Lys Ile Lys Phe
1 5

<210> 3969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 3969
Ala Ala Asp Asp Lys Ile Lys Phe Trp
1 5

<210> 3970
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*46:01

<400> 3970
Ala Ala Phe Ile Leu Ser Ser Phe
1               5


<210> 3971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*46:01,HLA-B*58:01,HLA-C*03:04

<400> 3971
Ala Ala Asn Ile Glu Gln Cys Ser Met
1               5


<210> 3972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -C*04:01

<400> 3972
Ala Asp Pro Val Gly Ser Cys Ser Ser Tyr
1               5                   10


<210> 3973
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*37:01

<400> 3973
Ala Asp Ser Cys Thr Ser Leu Leu
1               5


<210> 3974
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -B*37:01,HLA-B*40:01,HLA-B*49:01

<400> 3974
Ala Glu Asp Ile Ser Asn Ile Met
1 5

<210> 3975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 3975
Ala Glu Asp Ile Ser Asn Ile Met Arg Val
1 5 10

<210> 3976
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 3976
Ala Glu Asp Ile Ser Asn Ile Met Arg Val Leu
1 5 10

<210> 3977
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:02

<400> 3977
Ala Glu Leu Lys Leu Gly Phe Ile Ala Gln
1 5 10

<210> 3978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02

<400> 3978
Ala Phe Ile Leu Ser Ser Phe Val Thr Phe
1 5 10

<210> 3979
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-B*15:03,HLA-C*14:02

<400> 3979
Ala Phe Ser Thr Gly Thr Val Phe
1 5

<210> 3980
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*11:01

<400> 3980
Ala Gly Met Ser Phe Pro Glu Val Ala Arg
1 5 10

<210> 3981
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 3981
Ala Gly Met Ser Phe Pro Glu Val Ala Arg Leu
1 5 10

<210> 3982
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*38:01

<400> 3982
Ala His Ser Ala Pro Met Gly Leu
1 5

<210> 3983
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*08:01

<400> 3983
Ala Ile Lys Thr Ser Asn Ser Val
1 5

<210> 3984
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01

<400> 3984
Ala Ile Lys Thr Ser Asn Ser Val Lys
1 5

<210> 3985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*46:01

<400> 3985
Ala Ile Lys Thr Ser Asn Ser Val Lys Phe
1 5 10

<210> 3986

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-C*01:02,HLA-C*07:04

<400> 3986
Ala Ile Pro Phe Ser Thr Ala Cys Tyr
1 5

<210> 3987
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 3987
Ala Ile Pro Phe Ser Thr Ala Cys Tyr Lys
1 5 10

<210> 3988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*15:03

<400> 3988
Ala Lys Thr Ser Leu Gly Arg Thr Phe
1 5

<210> 3989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 3989
Ala Leu Arg Leu Leu Glu Leu Pro Gln Ile
1 5 10

<210> 3990
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*55:01

<400> 3990
Ala Leu Tyr Ser Gly Asp Leu His Ala
1 5

<210> 3991
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-B*13:02,HLA-B*46:01,HLA-B*55:01,HLA-B*56:01

<400> 3991
Ala Leu Tyr Ser Gly Asp Leu His Ala Ala
1 5 10

<210> 3992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*56:01

<400> 3992
Ala Pro Met Gly Leu Arg Asn Phe Val
1 5

<210> 3993
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 3993
Ala Pro Met Gly Leu Arg Asn Phe Val Met
1               5                   10


<210> 3994
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*13:02

<400> 3994
Ala Gln Thr Phe Val Gly Gln Val
1               5


<210> 3995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*30:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
      HLA-B*27:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
      HLA-B*40:02,HLA-C*02:02,HLA-C*06:02,HLA-C*16:04

<400> 3995
Ala Gln Thr Phe Val Gly Gln Val Leu
1               5


<210> 3996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*30:02,HLA-A*32:01,HLA-B*58:01

<400> 3996
Ala Ser Thr Ser Ser Ile Ser Asn Phe
1               5


<210> 3997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 3997
Ala Thr Ala Phe Tyr Asn Tyr His Val
1 5

<210> 3998
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01

<400> 3998
Ala Thr Thr Ser Thr Val Gly Phe
1 5

<210> 3999
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*14:02

<400> 3999
Ala Tyr Thr Thr Phe Ile Ser Gly Ser Ala Met
1 5 10

<210> 4000
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 4000
Cys Ala Ile Pro Phe Ser Thr Ala Cys Tyr
1 5 10

<210> 4001
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*51:01

<400> 4001
Cys Pro Pro Thr Ile Asp Ser Val
1 5

<210> 4002
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01

<400> 4002
Cys Thr Ser Leu Leu Ser Gly Arg Asn Arg
1 5 10

<210> 4003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:03,
HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 4003
Cys Thr Thr Glu Ile Gln Ala Ala Phe
1 5

<210> 4004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*56:01

<400> 4004
Cys Val Phe Gly Asp Ala His Ser Ala
1 5

<210> 4005
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02

<400> 4005
Cys Tyr Leu Ala Tyr Thr Thr Phe
1 5

<210> 4006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4006
Cys Tyr Leu Ala Tyr Thr Thr Phe Ile
1 5

<210> 4007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*08:01,HLA-B*35:03,HLA-B*51:01

<400> 4007
Asp Ala His Ser Ala Pro Met Gly Leu
1 5

<210> 4008
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 4008
Asp Ala His Ser Ala Pro Met Gly Leu Arg

1 5 10

<210> 4009
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01,HLA-B*37:01,HLA-B*40:02

<400> 4009
Asp Asp Phe Ala Gly Met Ser Phe
1 5

<210> 4010
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01

<400> 4010
Asp Asp Val Phe Ile Pro Glu Leu
1 5

<210> 4011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4011
Asp Asp Val Phe Ile Pro Glu Leu Ile
1 5

<210> 4012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01

<400> 4012
Asp Glu Asp Pro Phe Ala Tyr Ser Glu
1               5


<210> 4013
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*18:01

<400> 4013
Asp Glu Asp Pro Phe Ala Tyr Ser Glu Pro Leu
1               5                   10


<210> 4014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*18:01

<400> 4014
Asp Glu Val Tyr Asp Glu Asp Pro Phe
1               5


<210> 4015
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*18:01

<400> 4015
Asp Glu Val Tyr Asp Glu Asp Pro Phe Ala Tyr
1               5                   10


<210> 4016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-B*18:01

<400> 4016
Asp Ile Phe Thr Ile Pro Pro Thr Phe
1 5

<210> 4017
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4017
Asp Ile Phe Thr Ile Pro Pro Thr Phe Ile
1 5 10

<210> 4018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*68:02

<400> 4018
Asp Ile Ser Asn Ile Met Arg Val Leu
1 5

<210> 4019
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01

<400> 4019
Asp Ile Val Phe Ile Gly Ser Leu Asp Tyr
1 5 10

<210> 4020
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4020
Asp Ile Val Phe Ile Gly Ser Leu Asp Tyr Leu
1 5 10

<210> 4021
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*51:01

<400> 4021
Asp Leu Phe Gly Ile Leu Cys Val
1 5

<210> 4022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*33:01,HLA-A*68:01,HLA-B*18:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*51:01,HLA-C*07:01

<400> 4022
Asp Pro Phe Ala Tyr Ser Glu Pro Leu
1 5

<210> 4023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-B*35:01

<400> 4023
Asp Pro Val Gly Ser Cys Ser Ser Tyr
1 5

<210> 4024
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*33:01,HLA-A*68:01

<400> 4024
Asp Ser Cys Thr Ser Leu Leu Ser Gly Arg
1 5 10

<210> 4025
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01,HLA-B*18:01,HLA-B*35:01

<400> 4025
Asp Ser Leu Leu Ala Thr Ala Phe
1 5

<210> 4026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*26:01,HLA-A*33:01

<400> 4026
Asp Ser Leu Leu Ala Thr Ala Phe Tyr
1 5

<210> 4027
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:01

<400> 4027
Asp Ser Val Thr Ala Phe Leu Arg
1 5

<210> 4028
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01

<400> 4028
Asp Ser Val Thr Ala Phe Leu Arg Asn Phe
1 5 10

<210> 4029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*68:01,HLA-A*68:02,HLA-B*35:03

<400> 4029
Asp Thr Glu Ala Ile Met Ala Thr Leu
1 5

<210> 4030
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 4030
Asp Thr Gly Asp Asn Ile Ile Cys Phe
1 5

<210> 4031
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*51:01

<400> 4031
Asp Val Phe Ile Pro Glu Leu Ile
1 5

<210> 4032
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4032
Asp Val Phe Ile Pro Glu Leu Ile Thr Asn
1 5 10

<210> 4033
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-B*08:01

<400> 4033
Asp Val Asn Pro Arg Asn Thr Phe
1 5

<210> 4034
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*33:01

<400> 4034
Asp Val Asn Pro Arg Asn Thr Phe Gly Gln Leu
1 5 10

<210> 4035
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4035

Asp Val Val Ala Lys Thr Ser Leu
1               5


<210> 4036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*26:01

<400> 4036
Asp Val Val Ala Lys Thr Ser Leu Gly
1               5


<210> 4037
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 4037
Asp Val Val Ala Lys Thr Ser Leu Gly Arg
1               5                   10


<210> 4038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*24:02

<400> 4038
Asp Tyr Leu Gln Arg Glu Trp Arg Phe
1               5


<210> 4039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*35:03,

HLA-B*51:01

<400> 4039
Glu Ala Ile Met Ala Thr Leu Thr Ile
1 5

<210> 4040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01

<400> 4040
Glu Asp Ile Ser Asn Ile Met Arg Val
1 5

<210> 4041
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:02,HLA-B*44:03

<400> 4041
Glu Glu Glu Leu Asn Pro Glu Asn Lys Arg Phe
1 5 10

<210> 4042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-B*18:01,HLA-B*27:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 4042
Glu Glu Phe Ser Leu Gln Lys Ser Tyr
1 5

<210> 4043
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:02,HLA-B*44:03

<400> 4043
Glu Glu Leu Asn Pro Glu Asn Lys Arg Phe
1 5 10

<210> 4044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4044
Glu Ile Asn Thr Glu Ile Val Phe Leu
1 5

<210> 4045
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01

<400> 4045
Glu Ile Gln Ala Ala Phe Ile Leu Ser Ser Phe
1 5 10

<210> 4046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4046
Glu Leu Glu Thr Ile Phe Lys Cys Tyr
1 5

<210> 4047
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01

<400> 4047
Glu Leu Phe Thr Ser Gly Thr Ile Ala
1 5

<210> 4048
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 4048
Glu Leu Phe Thr Ser Gly Thr Ile Ala Arg
1 5 10

<210> 4049
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*33:03

<400> 4049
Glu Leu Lys Asn Pro Ser Asn Ile His Phe
1 5 10

<210> 4050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07,HLA-A*24:02,HLA-A*68:02

<400> 4050
Glu Leu Pro Gln Ile Leu Gln Ile Leu
1 5

<210> 4051
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4051
Glu Leu Pro Gln Ile Leu Gln Ile Leu Arg
1 5 10

<210> 4052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 4052
Glu Met Leu Leu Ser Ala Gln Thr Phe
1 5

<210> 4053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01,HLA-A*33:03

<400> 4053
Glu Met Asn Ser Ile Val Asp Ile Phe
1 5

<210> 4054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02

<400> 4054

Glu Met Val Glu Leu Phe Ala Asn Lys
1               5


<210> 4055
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:03,HLA-A*68:01

<400> 4055
Glu Met Val Glu Leu Phe Ala Asn Lys Arg
1               5                   10


<210> 4056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:01,HLA-A*33:03

<400> 4056
Glu Asn Lys Arg Phe Val Ile Thr Arg
1               5


<210> 4057
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*39:01

<400> 4057
Glu Gln Leu Gly Gly Leu Glu Gly Ser Leu
1               5                   10


<210> 4058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:03

<400> 4058
Glu Gln Asn Lys Lys Val Met Pro Lys
1               5


<210> 4059
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
      HLA-C*07:06

<400> 4059
Glu Thr Ile Leu Ser Asp Val Asn Pro Arg
1               5                   10


<210> 4060
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*26:01,HLA-B*18:01

<400> 4060
Glu Thr Leu Tyr Ser Pro Val Tyr
1               5


<210> 4061
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 4061
Glu Thr Leu Tyr Ser Pro Val Tyr Ser Tyr
1               5                   10


<210> 4062
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*44:02

<400> 4062
Glu Thr Asn Leu His Leu Ser Thr Ala Phe
1 5 10

<210> 4063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01

<400> 4063
Glu Thr Pro Gly Tyr Thr Asn Gly His
1 5

<210> 4064
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*68:02

<400> 4064
Glu Thr Pro Pro Ser Leu Glu Leu Glu Thr Ile
1 5 10

<210> 4065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 4065
Glu Thr Trp Glu Asp Leu Pro Lys Met
1 5

<210> 4066
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*35:01

<400> 4066
Glu Val Tyr Asp Glu Asp Pro Phe Ala Tyr
1 5 10

<210> 4067
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4067
Glu Tyr Lys Ser Leu Phe Thr Asp Gly Phe
1 5 10

<210> 4068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*46:01,HLA-B*51:01,HLA-B*54:01

<400> 4068
Phe Ala Gly Met Ser Phe Pro Glu Val
1 5

<210> 4069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*35:01,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-C*03:04

<400> 4069
Phe Ala Asn Tyr Ile Pro Glu Met
1 5

<210> 4070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02,HLA-B*54:01

<400> 4070
Phe Ala Asn Tyr Ile Pro Glu Met Val
1 5

<210> 4071
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*54:01

<400> 4071
Phe Cys Ala Ile Pro Phe Ser Thr Ala
1 5

<210> 4072
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01

<400> 4072
Phe Glu Ser Ile Tyr Leu Val Met
1 5

<210> 4073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*35:01,HLA-B*35:03,HLA-B*46:01,HLA-B*55:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,
HLA-C*07:04

<400> 4073

Phe Gly Asp Ala His Ser Ala Pro Met
1               5


<210> 4074
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*40:01,HLA-C*05:01

<400> 4074
Phe Gly Asp Val Val Ala Lys Thr Ser Leu
1               5                   10


<210> 4075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:03

<400> 4075
Phe Ile Ala Glu Thr Pro Lys Asp Val
1               5


<210> 4076
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 4076
Phe Ile Ala Glu Thr Pro Lys Asp Val Arg
1               5                   10


<210> 4077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,

HLA-A*29:02,HLA-C*02:02

<400> 4077
Phe Ile Leu Ser Ser Phe Val Thr Phe
1 5

<210> 4078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:07

<400> 4078
Phe Ile Pro Glu Leu Ile Thr Asn Cys
1 5

<210> 4079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01

<400> 4079
Phe Ile Ser Gly Ser Ala Met Lys Trp
1 5

<210> 4080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:07

<400> 4080
Phe Leu Asp Ser Leu Leu Ala Thr Ala
1 5

<210> 4081
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*02:07,HLA-A*29:02

<400> 4081
Phe Leu Asp Ser Leu Leu Ala Thr Ala Phe
1 5 10

<210> 4082
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4082
Phe Leu Asp Ser Leu Leu Ala Thr Ala Phe Tyr
1 5 10

<210> 4083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*30:01,HLA-B*13:02,HLA-B*35:03,HLA-B*39:01,HLA-B*55:01,
HLA-C*01:02,HLA-C*07:04

<400> 4083
Phe Leu Gly Glu Thr Pro Pro Ser Leu
1 5

<210> 4084
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01

<400> 4084
Phe Leu Gly Glu Thr Pro Pro Ser Leu Glu Leu
1 5 10

<210> 4085

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03

<400> 4085
Phe Leu Lys Met His Leu Leu Leu Ile
1 5

<210> 4086
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03

<400> 4086
Phe Leu Arg Ala Leu Arg Leu Leu Glu Leu
1 5 10

<210> 4087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03

<400> 4087
Phe Leu Arg Asp Lys Ser Gly Glu Ile
1 5

<210> 4088
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07

<400> 4088
Phe Leu Trp Asn Phe Pro Gln Ile
1 5

<210> 4089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*29:02

<400> 4089
Phe Leu Trp Asn Phe Pro Gln Ile Tyr
1 5

<210> 4090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:04

<400> 4090
Phe Leu Trp Asn Phe Pro Gln Ile Tyr Ile
1 5 10

<210> 4091
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 4091
Phe Leu Trp Asn Phe Pro Gln Ile Tyr Ile Leu
1 5 10

<210> 4092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*29:02

<400> 4092
Phe Ser Phe Tyr Phe Gly Leu Arg Phe

1 5

<210> 4093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4093
Phe Ser Gly Leu Ile Ile Leu Leu Ile
1 5

<210> 4094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04,HLA-A*68:02,HLA-C*02:02,HLA-C*03:04

<400> 4094
Phe Thr Ala Ala Gly Phe Ile His Leu
1 5

<210> 4095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4095
Phe Thr Ala Ala Gly Phe Ile His Leu Val
1 5 10

<210> 4096
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*46:01,HLA-B*57:01,HLA-C*02:02

<400> 4096
Phe Thr Ile Pro Pro Thr Phe Ile Ser Tyr
1               5                   10


<210> 4097
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*01:01,HLA-A*29:02

<400> 4097
Phe Thr Ile Pro Pro Thr Phe Ile Ser Tyr Tyr
1               5                   10


<210> 4098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*29:02,HLA-B*57:01

<400> 4098
Phe Thr Leu Gly Ser Leu Ile Leu Phe
1               5


<210> 4099
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:03,HLA-A*68:01

<400> 4099
Phe Thr Ser Gly Thr Ile Ala Arg
1               5


<210> 4100
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01,HLA-C*03:03

<400> 4100
Phe Val Glu Gln Asn Lys Lys Val Met
1 5

<210> 4101
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-B*46:01,HLA-C*02:02

<400> 4101
Phe Val Ile Thr Arg Pro Ala Asn Glu Phe
1 5 10

<210> 4102
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*29:02

<400> 4102
Phe Val Leu Ser Ile Gly Ser Leu Ile Ile Tyr
1 5 10

<210> 4103
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*46:01,HLA-C*02:02

<400> 4103
Phe Val Met Pro Leu Arg Ala Ser Asn Tyr
1 5 10

<210> 4104
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 4104
Phe Tyr Asn Tyr His Val Leu Glu Leu
1 5

<210> 4105
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4105
Gly Asp Ala His Ser Ala Pro Met
1 5

<210> 4106
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4106
Gly Asp Leu His Ala Ala Asn Ile
1 5

<210> 4107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*15:03,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:03,HLA-B*49:01

<400> 4107
Gly Asp Val Val Ala Lys Thr Ser Leu
1 5

<210> 4108
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4108
Gly Glu Ile Asn Thr Glu Ile Val
1 5

<210> 4109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01,HLA-C*16:04

<400> 4109
Gly Glu Ile Asn Thr Glu Ile Val Phe
1 5

<210> 4110
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 4110
Gly Glu Ile Asn Thr Glu Ile Val Phe Leu
1 5 10

<210> 4111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,
HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 4111
Gly Glu Thr Pro Pro Ser Leu Glu Leu
1               5


<210> 4112
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*03:02

<400> 4112
Gly Phe Gly Asp Val Val Ala Lys
1               5


<210> 4113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:04

<400> 4113
Gly Leu Cys Thr Phe Leu Thr Ser Leu
1               5


<210> 4114
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:04

<400> 4114
Gly Leu Ile Ile Leu Leu Ile Phe Arg Leu
1               5                   10


<210> 4115
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03

<400> 4115
Gly Leu Ile Leu Asn Pro Pro Pro Gln Val
1 5 10

<210> 4116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04,HLA-B*13:02

<400> 4116
Gly Leu Leu Ser Leu His Glu Thr Ile
1 5

<210> 4117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:04

<400> 4117
Gly Leu Leu Ser Leu His Glu Thr Ile Leu
1 5 10

<210> 4118
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 4118
Gly Leu Tyr Arg Ile Ile Asp Glu Glu Glu Leu
1 5 10

<210> 4119
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-B*13:02

<400> 4119
Gly Gln Asp Ser Pro Pro Arg Val
1 5

<210> 4120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*15:01

<400> 4120
Gly Gln Phe Arg Asp His Ile Glu Met
1 5

<210> 4121
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*13:02

<400> 4121
Gly Gln Val Leu Val Ile Leu Val
1 5

<210> 4122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*13:02,HLA-B*15:01,HLA-B*15:03

<400> 4122
Gly Gln Val Leu Val Ile Leu Val Phe
1 5

<210> 4123
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:02,HLA-A*32:01,HLA-B*27:02,HLA-B*27:05,HLA-C*16:04

<400> 4123
Gly Arg Asn Ser Gln Asn Ile Ser Tyr
1 5

<210> 4124
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:02,HLA-B*27:05

<400> 4124
Gly Arg Asn Ser Gln Asn Ile Ser Tyr Phe
1 5 10

<210> 4125
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4125
Gly Ser Leu Asp Tyr Leu Gln Arg Glu Trp
1 5 10

<210> 4126
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*29:02,HLA-A*30:02

<400> 4126
Gly Ser Leu Ile Leu Phe Ala Asn Tyr
1 5

<210> 4127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4127
Gly Thr Gly Ile Ile Leu Glu Leu Phe
1 5

<210> 4128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:03

<400> 4128
Gly Thr Ile Ala Arg Ser His Val Arg
1 5

<210> 4129
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-B*15:01,HLA-B*27:05

<400> 4129
Gly Val Ala Asp Ser Cys Thr Ser Leu
1 5

<210> 4130
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01

<400> 4130
Gly Val Ala Asp Ser Cys Thr Ser Leu Leu
1 5 10

<210> 4131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:05

<400> 4131
Gly Val Ser Ser Gln Leu Glu Gln His Leu
1 5 10

<210> 4132
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*35:01,HLA-B*35:03

<400> 4132
His Ala Ala Asn Ile Glu Gln Cys Ser Met
1 5 10

<210> 4133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 4133
His Ala Glu Asp Ile Ser Asn Ile
1 5

<210> 4134
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*55:01,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:06,HLA-C*12:03

<400> 4134
His Ala Glu Asp Ile Ser Asn Ile Met
1               5


<210> 4135
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-C*07:06

<400> 4135
His Ala Glu Asp Ile Ser Asn Ile Met Arg
1               5                   10


<210> 4136
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*68:02

<400> 4136
His Ala Glu Asp Ile Ser Asn Ile Met Arg Val
1               5                   10


<210> 4137
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*30:01,HLA-B*18:01,HLA-B*49:01

<400> 4137
His Glu Thr Ile Leu Ser Asp Val
1               5


<210> 4138
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -B*27:02

<400> 4138
His Glu Thr Ile Leu Ser Asp Val Asn Pro Arg
1 5 10

<210> 4139
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02

<400> 4139
His Ile Thr Val Pro Ser Val Lys
1 5

<210> 4140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 4140
His Ile Thr Val Pro Ser Val Lys Arg
1 5

<210> 4141
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:07

<400> 4141
His Leu Asp Lys Asp Lys Val Tyr Gly Val
1 5 10

<210> 4142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*29:02,HLA-B*35:01

<400> 4142
His Leu Leu Leu Ile Ala Ile Glu Tyr
1 5

<210> 4143
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01

<400> 4143
His Leu Val Glu Asn Ser Gly Asp Pro Trp
1 5 10

<210> 4144
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4144
His Ser Ala Pro Met Gly Leu Arg Asn Phe
1 5 10

<210> 4145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04,HLA-A*02:07

<400> 4145
His Val Leu Glu Leu Leu Gln Met Leu
1 5

<210> 4146
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*07:06

<400> 4146
Ile Ala Glu Thr Pro Lys Asp Val Arg
1 5

<210> 4147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*03:04

<400> 4147
Ile Ala Ile Glu Tyr Lys Ser Leu
1 5

<210> 4148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-B*46:01,HLA-B*51:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02

<400> 4148
Ile Ala Ile Glu Tyr Lys Ser Leu Phe
1 5

<210> 4149
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4149
Ile Asp Leu Val Phe Asn Ala Phe
1 5

<210> 4150
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4150
Ile Asp Ser Val Thr Glu Thr Leu
1 5

<210> 4151
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 4151
Ile Glu Met Leu Leu Ser Ala Gln Thr Phe
1 5 10

<210> 4152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4152
Ile Glu Gln Cys Ser Met Cys Ala Val
1 5

<210> 4153
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 4153
Ile Glu Gln Leu Gly Gly Leu Glu Gly Ser Leu

1 5 10

<210> 4154
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02

<400> 4154
Ile Phe Thr Ile Pro Pro Thr Phe
1 5

<210> 4155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02

<400> 4155
Ile Phe Thr Ile Pro Pro Thr Phe Ile
1 5

<210> 4156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4156
Ile Gly Ser Leu Ile Ile Tyr Phe Ile
1 5

<210> 4157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*46:01

<400> 4157
Ile Ile Ile Gln Ile Leu Gln Ser His
1               5


<210> 4158
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:04

<400> 4158
Ile Ile Leu Leu Ile Phe Arg Leu
1               5


<210> 4159
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*03:02

<400> 4159
Ile Ile Gln Ile Leu Gln Ser His Asn Lys
1               5                   10


<210> 4160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*24:02,HLA-B*15:03

<400> 4160
Ile Lys Thr Ser Asn Ser Val Lys Phe
1               5


<210> 4161
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*55:01,HLA-C*16:02

<400> 4161
Ile Leu Asn Pro Pro Pro Gln Val
1 5

<210> 4162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,
HLA-A*29:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*57:01

<400> 4162
Ile Leu Asn Pro Pro Pro Gln Val Arg
1 5

<210> 4163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*13:02

<400> 4163
Ile Leu Asn Pro Pro Pro Gln Val Arg Ile
1 5 10

<210> 4164
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01

<400> 4164
Ile Leu Asn Pro Pro Pro Gln Val Arg Ile Arg
1 5 10

<210> 4165
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 4165
Ile Leu Gln Ser His Asn Lys Val Tyr
1 5

<210> 4166
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03

<400> 4166
Ile Leu Ser Asp Val Asn Pro Arg Asn Thr
1 5 10

<210> 4167
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01

<400> 4167
Ile Leu Ser Asp Val Asn Pro Arg Asn Thr Phe
1 5 10

<210> 4168
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-B*37:01

<400> 4168
Ile Leu Ser Ser Phe Val Thr Phe
1 5

<210> 4169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*29:02

<400> 4169
Ile Leu Ser Ser Phe Val Thr Phe Phe
1 5

<210> 4170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03,HLA-A*02:04

<400> 4170
Ile Leu Ser Thr Trp Phe Thr Ala Ala
1 5

<210> 4171
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03

<400> 4171
Ile Met Ala Thr Leu Thr Ile Gly Ser Leu
1 5 10

<210> 4172
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:02

<400> 4172
Ile Pro Glu Met Val Glu Leu Phe Ala Asn Lys

1 5 10

<210> 4173
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*56:01

<400> 4173
Ile Pro Phe Ser Thr Ala Cys Tyr
1 5

<210> 4174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*54:01,HLA-B*56:01

<400> 4174
Ile Pro Ile Asp Leu Val Phe Asn Ala
1 5

<210> 4175
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-B*35:01

<400> 4175
Ile Pro Ile Asp Leu Val Phe Asn Ala Phe
1 5 10

<210> 4176
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*35:01,HLA-B*51:01

<400> 4176
Ile Pro Pro Thr Phe Ile Ser Tyr
1               5


<210> 4177
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*35:01

<400> 4177
Ile Pro Pro Thr Phe Ile Ser Tyr Tyr
1               5


<210> 4178
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*46:01,HLA-C*02:02

<400> 4178
Ile Gln Ala Ala Phe Ile Leu Ser Ser Phe
1               5                   10


<210> 4179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*68:01,HLA-C*07:06

<400> 4179
Ile Ser Gly Gln Asp Ser Pro Pro Arg
1               5


<210> 4180
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 4180
Ile Ser Gly Ser Ala Met Lys Trp
1 5

<210> 4181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*03:04,HLA-C*16:01,HLA-C*16:02

<400> 4181
Ile Ser Asn Phe Thr Thr Arg Thr Leu
1 5

<210> 4182
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01,HLA-C*16:01

<400> 4182
Ile Ser Asn Ile Met Arg Val Leu
1 5

<210> 4183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4183
Ile Ser Tyr Tyr Leu Lys Ser Asn Trp
1 5

<210> 4184
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 4184
Ile Thr Arg Pro Ala Asn Glu Phe
1 5

<210> 4185
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4185
Ile Thr Arg Pro Ala Asn Glu Phe Lys Leu
1 5 10

<210> 4186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*39:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,

<220>
<223> HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,HLA-C*12:03,
HLA-C*14:02,HLA-C*16:01,HLA-C*16:04

<400> 4186
Ile Thr Val Asp Ser Val Thr Ala Phe
1 5

<210> 4187
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4187
Ile Thr Val Asp Ser Val Thr Ala Phe Leu
1               5                   10


<210> 4188
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
      HLA-C*07:06

<400> 4188
Ile Thr Val Asp Ser Val Thr Ala Phe Leu Arg
1               5                   10


<210> 4189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*57:01,HLA-B*58:01,HLA-C*16:02

<400> 4189
Ile Thr Val Pro Ser Val Lys Arg Met
1               5


<210> 4190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
      HLA-B*15:03,HLA-B*35:01,HLA-B*46:01

<400> 4190
Ile Val Phe Ile Gly Ser Leu Asp Tyr
1               5


<210> 4191
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4191
Ile Val Phe Ile Gly Ser Leu Asp Tyr Leu
1 5 10

<210> 4192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 4192
Ile Tyr Ile Leu Pro Gly Cys Ala Leu
1 5

<210> 4193
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02,HLA-A*29:02

<400> 4193
Ile Tyr Ile Leu Pro Gly Cys Ala Leu Tyr
1 5 10

<210> 4194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*14:02

<400> 4194
Ile Tyr Leu Val Met Ala Thr Thr Ser
1 5

<210> 4195
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*58:01

<400> 4195
Lys Ala Ser Gln Thr Thr Glu Thr His
1 5

<210> 4196
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4196
Lys Glu Leu Lys Asp Ile Val Phe
1 5

<210> 4197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*40:01,HLA-B*44:02,HLA-B*49:01

<400> 4197
Lys Glu Leu Lys Asp Ile Val Phe Ile
1 5

<210> 4198
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:02

<400> 4198
Lys Gly Arg Asn Ser Gln Asn Ile Ser Tyr
1 5 10

<210> 4199

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04,HLA-A*23:01,HLA-A*29:02,HLA-B*57:01

<400> 4199
Lys Leu Leu Pro Ser Asp Leu Val Phe
1 5

<210> 4200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:04

<400> 4200
Lys Leu Leu Pro Ser Asp Leu Val Phe Cys
1 5 10

<210> 4201
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 4201
Lys Leu Leu Ser Ile Ile Leu Ser Thr
1 5

<210> 4202
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04,HLA-B*57:01

<400> 4202
Lys Leu Leu Ser Ile Ile Leu Ser Thr Trp
1 5 10

<210> 4203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07,HLA-A*24:02

<400> 4203
Lys Asn Pro Ser Asn Ile His Phe Ile
1 5

<210> 4204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01

<400> 4204
Lys Asn Tyr Asp Ser Thr Thr Arg Ile
1 5

<210> 4205
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*56:01

<400> 4205
Lys Pro Thr Ser Leu Asp Lys Val
1 5

<210> 4206
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*40:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 4206

Lys Pro Thr Ser Leu Asp Lys Val Thr Leu
1               5                   10


<210> 4207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*31:01

<400> 4207
Lys Gln Ile Ala Trp Asn Gln Ser Arg
1               5


<210> 4208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*58:01

<400> 4208
Lys Ser Gly Glu Ile Asn Thr Glu Ile
1               5


<210> 4209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*57:01

<400> 4209
Lys Ser Asn Trp Leu Gly Leu Arg Phe
1               5


<210> 4210
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 4210
Lys Ser Tyr Glu Ile Val Asn Lys
1               5


<210> 4211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*40:02,HLA-B*56:01,HLA-B*58:01,HLA-C*12:03

<400> 4211
Lys Ser Tyr Glu Ile Val Asn Lys Ala
1               5


<210> 4212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*57:01,HLA-B*58:01

<400> 4212
Lys Thr Ile Pro Ile Asp Leu Val Phe
1               5


<210> 4213
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -C*16:01

<400> 4213
Lys Thr Ser Leu Gly Arg Thr Phe
1               5


<210> 4214
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*37:01,HLA-B*58:01

<400> 4214
Lys Thr Ser Asn Ser Val Lys Phe
1 5

<210> 4215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 4215
Lys Thr Ser Asn Ser Val Lys Phe Ser Lys
1 5 10

<210> 4216
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 4216
Lys Val Met Pro Lys Gln Thr Trp
1 5

<210> 4217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02

<400> 4217
Lys Val Met Pro Lys Gln Thr Trp Lys
1 5

<210> 4218
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07,HLA-C*01:02

<400> 4218
Lys Val Pro Ile Leu Thr Glu Leu
1 5

<210> 4219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02

<400> 4219
Lys Val Pro Ile Leu Thr Glu Leu Lys
1 5

<210> 4220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-B*57:01

<400> 4220
Lys Val Tyr Leu Pro Lys Ile Pro Ser Trp
1 5 10

<210> 4221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-C*01:02,HLA-C*14:02

<400> 4221
Lys Tyr Thr Ser Ser Tyr Glu Ala Leu
1 5

<210> 4222

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03,HLA-B*37:01

<400> 4222
Leu Asp Lys Asp Lys Val Tyr Gly Val
1 5

<210> 4223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02

<400> 4223
Leu Asp Ser Leu Leu Ala Thr Ala Phe
1 5

<210> 4224
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*40:01

<400> 4224
Leu Glu Gly Ser Leu Gln Glu Thr Asn Leu
1 5 10

<210> 4225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:02,HLA-B*44:03

<400> 4225
Leu Glu Leu Glu Thr Ile Phe Lys Cys Tyr
1 5 10

<210> 4226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4226
Leu Glu Leu Phe Thr Ser Gly Thr Ile
1 5

<210> 4227
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4227
Leu Glu Leu Leu Gln Met Leu Val
1 5

<210> 4228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-B*51:01

<400> 4228
Leu Glu Leu Pro Gln Ile Leu Gln Ile
1 5

<210> 4229
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:02

<400> 4229

Leu Glu Leu Pro Gln Ile Leu Gln Ile Leu
1               5                   10


<210> 4230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 4230
Leu Glu Met Asn Ser Ile Val Asp Ile
1               5


<210> 4231
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*18:01

<400> 4231
Leu Glu Thr Ile Phe Lys Cys Tyr
1               5


<210> 4232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*24:02

<400> 4232
Leu Phe Ala Asn Tyr Ile Pro Glu Met
1               5


<210> 4233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*33:01,HLA-A*33:03

<400> 4233
Leu Phe Thr Ser Gly Thr Ile Ala Arg
1               5


<210> 4234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:04

<400> 4234
Leu Ile Ile Leu Leu Ile Phe Arg Leu
1               5


<210> 4235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 4235
Leu Ile Leu Asn Pro Pro Pro Gln Val
1               5


<210> 4236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*15:03

<400> 4236
Leu Lys Asn Pro Ser Asn Ile His Phe
1               5


<210> 4237
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*03:01,HLA-A*29:02

<400> 4237
Leu Leu Ala Thr Ala Phe Tyr Asn Tyr
1 5

<210> 4238
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*29:02

<400> 4238
Leu Leu Leu Ile Ala Ile Glu Tyr
1 5

<210> 4239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:07

<400> 4239
Leu Leu Pro Ser Asp Leu Val Phe Cys
1 5

<210> 4240
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07

<400> 4240
Leu Leu Pro Ser Asp Leu Val Phe Cys Ala Ile
1 5 10

<210> 4241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:02,HLA-B*57:01

<400> 4241
Leu Leu Ser Ile Ile Leu Ser Thr Trp
1 5

<210> 4242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 4242
Leu Leu Ser Leu His Glu Thr Ile Leu
1 5

<210> 4243
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*54:01,HLA-B*56:01

<400> 4243
Leu Pro Gln Ile Leu Gln Ile Leu Arg Ala
1 5 10

<210> 4244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 4244
Leu Pro Ser Asp Leu Val Phe Cys Ala
1 5

<210> 4245
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 4245
Leu Ser Asp Asp Phe Ala Gly Met
1 5

<210> 4246
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-B*46:01,HLA-B*58:01,HLA-C*03:04,HLA-C*05:01

<400> 4246
Leu Ser Asp Asp Phe Ala Gly Met Ser Phe
1 5 10

<210> 4247
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-B*58:01,HLA-C*05:01

<400> 4247
Leu Ser Asp Val Asn Pro Arg Asn Thr Phe
1 5 10

<210> 4248
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 4248
Leu Ser Phe Pro Lys Gln Ile Ala Trp
1 5

<210> 4249
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4249
Leu Ser Ile Gly Ser Leu Ile Ile Tyr Phe
1 5 10

<210> 4250
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01,HLA-B*58:01

<400> 4250
Leu Ser Ile Ile Leu Ser Thr Trp
1 5

<210> 4251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4251
Leu Ser Ile Ile Leu Ser Thr Trp Phe
1 5

<210> 4252
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:02

<400> 4252
Leu Thr Ser Leu Phe Val Glu Gln Asn Lys
1 5 10

<210> 4253
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 4253
Leu Val Asp Thr Glu Ala Ile Met
1 5

<210> 4254
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07

<400> 4254
Leu Val Asp Thr Glu Ala Ile Met Ala Thr Leu
1 5 10

<210> 4255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*25:01,HLA-B*13:02,HLA-B*46:01,
HLA-B*51:01,HLA-B*55:01,HLA-B*56:01

<400> 4255
Leu Val Met Ala Thr Thr Ser Thr Val
1 5

<210> 4256
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*29:02,HLA-A*30:02,HLA-C*14:02

<400> 4256
Leu Tyr Ser Pro Val Tyr Ser Tyr
1               5


<210> 4257
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,HLA-B*58:01,
      HLA-C*02:02,HLA-C*03:03,HLA-C*16:01

<400> 4257
Met Ala Ala Asp Asp Lys Ile Lys Phe
1               5


<210> 4258
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*25:01,HLA-B*57:01

<400> 4258
Met Ala Ala Asp Asp Lys Ile Lys Phe Trp
1               5                   10


<210> 4259
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-C*03:03,HLA-C*03:04,
      HLA-C*16:02

<400> 4259
Met Ala Thr Leu Thr Ile Gly Ser Leu
1               5


<210> 4260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:03,
HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*46:01,HLA-B*55:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*16:01,

<220>
<223> HLA-C*16:02

<400> 4260
Met Ala Thr Thr Ser Thr Val Gly Phe
1 5

<210> 4261
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01

<400> 4261
Met Leu Leu Ser Ala Gln Thr Phe
1 5

<210> 4262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:04

<400> 4262
Met Leu Leu Ser Ala Gln Thr Phe Val
1 5

<210> 4263
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01,HLA-B*35:01,HLA-B*55:01

<400> 4263
Met Pro Leu Arg Ala Ser Asn Tyr
1 5

<210> 4264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:02,HLA-B*27:05

<400> 4264
Met Arg Val Leu Ser Ile Lys Asn Tyr
1 5

<210> 4265
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,HLA-B*57:01,
HLA-B*58:01

<400> 4265
Met Ser Phe Pro Glu Val Ala Arg Leu
1 5

<210> 4266
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4266
Met Ser Phe Pro Glu Val Ala Arg Leu Cys Phe
1 5 10

<210> 4267
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 4267
Asn Glu Glu Phe Ser Leu Gln Lys Ser Tyr
1               5                   10


<210> 4268
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*18:01

<400> 4268
Asn His Ile Val Ala Cys Val Phe
1               5


<210> 4269
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*51:01

<400> 4269
Asn Ile Met Arg Val Leu Ser Ile
1               5


<210> 4270
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*25:01,HLA-B*39:01

<400> 4270
Asn Ile Thr Val Asp Ser Val Thr Ala Phe
1               5                   10


<210> 4271
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -B*37:01

<400> 4271
Asn Leu His Leu Ser Thr Ala Phe
1 5

<210> 4272
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*51:01

<400> 4272
Asn Pro Pro Pro Gln Val Arg Ile
1 5

<210> 4273
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*07:02,HLA-C*07:02

<400> 4273
Asn Pro Arg Asn Thr Phe Gly Gln Leu
1 5

<210> 4274
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*07:02

<400> 4274
Asn Pro Arg Asn Thr Phe Gly Gln Leu Phe
1 5 10

<210> 4275
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*51:01

<400> 4275
Asn Pro Ser Asn Ile His Phe Ile
1 5

<210> 4276
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4276
Asn Pro Ser Asn Ile His Phe Ile Glu Gln Leu
1 5 10

<210> 4277
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*12:03

<400> 4277
Asn Ser Ala Asp Pro Val Gly Ser Cys
1 5

<210> 4278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*51:01

<400> 4278
Asn Ser Ile Ile Ser Ser Gln Ile
1 5

<210> 4279
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01

<400> 4279
Asn Ser Leu Ser Phe Pro Lys Gln Ile Ala Trp
1 5 10

<210> 4280
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01,HLA-C*07:04

<400> 4280
Asn Tyr Asp Ser Thr Thr Arg Ile
1 5

<210> 4281
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-B*35:01,HLA-B*35:03

<400> 4281
Asn Tyr Asp Ser Thr Thr Arg Ile Ile
1 5

<210> 4282
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4282
Asn Tyr Asp Ser Thr Thr Arg Ile Ile Ile
1 5 10

<210> 4283

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-B*35:03,HLA-B*38:01,HLA-C*14:02

<400> 4283
Asn Tyr Ile Pro Glu Met Val Glu Leu
1 5

<210> 4284
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 4284
Asn Tyr Ile Pro Glu Met Val Glu Leu Phe
1 5 10

<210> 4285
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:02

<400> 4285
Pro Glu Met Val Glu Leu Phe Ala Asn Lys
1 5 10

<210> 4286
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*07:02

<400> 4286
Pro Pro Pro Gln Pro Ser Ser Asn Gln Thr Leu
1 5 10

<210> 4287
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:02

<400> 4287
Pro Ser Leu Glu Leu Glu Thr Ile Phe Lys
1 5 10

<210> 4288
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*30:02

<400> 4288
Pro Thr Ile Asp Ser Val Thr Glu Thr Leu Tyr
1 5 10

<210> 4289
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*07:01

<400> 4289
Pro Val Gly Ser Cys Ser Ser Tyr
1 5

<210> 4290
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*03:04,HLA-C*12:03,HLA-C*16:04

<400> 4290
Gln Ala Ala Phe Ile Leu Ser Ser Phe
1               5


<210> 4291
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*37:01,HLA-B*56:01

<400> 4291
Gln Asp Ser Pro Pro Arg Val Ser Ala
1               5


<210> 4292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*30:01

<400> 4292
Gln Glu Thr Asn Leu His Leu Ser Thr Ala
1               5                   10


<210> 4293
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 4293
Gln Glu Thr Asn Leu His Leu Ser Thr Ala Phe
1               5                   10


<210> 4294
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -B*38:01,HLA-B*39:01

<400> 4294
Gln His Asp Val Glu Gln Asp Ser Asp Gln Leu
1 5 10

<210> 4295
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*13:02,HLA-B*39:01,HLA-B*51:01

<400> 4295
Gln His Ile Thr Val Pro Ser Val
1 5

<210> 4296
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*33:03

<400> 4296
Gln His Ile Thr Val Pro Ser Val Lys Arg
1 5 10

<210> 4297
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 4297
Gln Leu Asp Ser Ser Gly Met Phe
1 5

<210> 4298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4298
Gln Leu Asp Ser Ser Gly Met Phe His
1 5

<210> 4299
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4299
Gln Leu Asp Ser Ser Gly Met Phe His Trp
1 5 10

<210> 4300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*07:02,HLA-B*35:01,HLA-C*07:02

<400> 4300
Gln Pro Arg Thr Asn Ser Leu Ser Phe
1 5

<210> 4301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*56:01

<400> 4301
Gln Pro Ser Ser Asn Gln Thr Leu Val
1 5

<210> 4302
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4302
Gln Ser His Asn Lys Val Tyr Leu
1 5

<210> 4303
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*01:02,HLA-C*03:03,HLA-C*03:04

<400> 4303
Gln Thr Phe Val Gly Gln Val Leu
1 5

<210> 4304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4304
Gln Thr Phe Val Gly Gln Val Leu Val
1 5

<210> 4305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*57:01

<400> 4305
Gln Thr Lys Leu Arg Asn Glu Thr Trp
1 5

<210> 4306

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4306
Gln Val Arg Ile Arg Lys Asn Thr Leu
1 5

<210> 4307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01,HLA-B*46:01,HLA-B*58:01,HLA-C*03:04

<400> 4307
Arg Ala Ile Lys Thr Ser Asn Ser Val
1 5

<210> 4308
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*57:01,HLA-B*58:01

<400> 4308
Arg Ala Ile Lys Thr Ser Asn Ser Val Lys Phe
1 5 10

<210> 4309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4309
Arg Phe Leu Trp Asn Phe Pro Gln Ile
1 5

<210> 4310
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4310
Arg Phe Met Ala Ala Asp Asp Lys Ile Lys Phe
1 5 10

<210> 4311
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4311
Arg Phe Val Ile Thr Arg Pro Ala Asn Glu Phe
1 5 10

<210> 4312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*15:03

<400> 4312
Arg Lys Val Pro Ile Leu Thr Glu Leu
1 5

<210> 4313
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 4313
Arg Leu Leu Glu Leu Pro Gln Ile

1 5

<210> 4314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 4314
Arg Leu Leu Glu Leu Pro Gln Ile Leu
1 5

<210> 4315
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 4315
Arg Leu Leu Glu Leu Pro Gln Ile Leu Gln Ile
1 5 10

<210> 4316
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 4316
Arg Gln His Ile Thr Val Pro Ser Val
1 5

<210> 4317
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02

<400> 4317
Arg Gln His Ile Thr Val Pro Ser Val Lys
1               5                   10


<210> 4318
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*57:01

<400> 4318
Arg Ser Leu His Phe Gln Gly Gln Phe
1               5


<210> 4319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*31:01

<400> 4319
Arg Ser Leu His Phe Gln Gly Gln Phe Arg
1               5                   10


<210> 4320
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*57:01

<400> 4320
Arg Thr Phe Ile Met Phe Phe Thr Leu
1               5


<210> 4321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 4321
Arg Thr Asn Ser Leu Ser Phe Pro Lys
1 5

<210> 4322
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 4322
Ser Ala Asp Pro Val Gly Ser Cys
1 5

<210> 4323
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*30:02,HLA-B*35:01

<400> 4323
Ser Ala Asp Pro Val Gly Ser Cys Ser Ser Tyr
1 5 10

<210> 4324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01

<400> 4324
Ser Ala Met Lys Trp Glu Asp Leu Arg
1 5

<210> 4325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*01:02

<400> 4325
Ser Ala Pro Met Gly Leu Arg Asn Phe
1 5

<210> 4326
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*16:02

<400> 4326
Ser Ala Gln Thr Phe Val Gly Gln Val
1 5

<210> 4327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*03:04

<400> 4327
Ser Ala Gln Thr Phe Val Gly Gln Val Leu
1 5 10

<210> 4328
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4328
Ser Asp Gln Leu Asp Ser Ser Gly Met
1 5

<210> 4329
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*30:01,HLA-A*32:01,HLA-B*37:01,HLA-B*44:02,
HLA-B*44:03

<400> 4329
Ser Asp Val Asn Pro Arg Asn Thr Phe
1 5

<210> 4330
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 4330
Ser Phe Leu Asp Ser Leu Leu Ala Thr Ala Phe
1 5 10

<210> 4331
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4331
Ser Phe Pro Glu Val Ala Arg Leu Cys Phe
1 5 10

<210> 4332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01

<400> 4332
Ser Gly Asp Pro Trp Leu Lys Gly Arg
1 5

<210> 4333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 4333
Ser His Ala Glu Asp Ile Ser Asn Ile
1 5

<210> 4334
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*38:01,HLA-B*39:01

<400> 4334
Ser His Ala Glu Asp Ile Ser Asn Ile Met
1 5 10

<210> 4335
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 4335
Ser Ile Lys Asn Tyr Asp Ser Thr Thr Arg
1 5 10

<210> 4336
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 4336
Ser Ile Ser Asn Phe Thr Thr Arg
1 5

<210> 4337
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04,HLA-B*13:02

<400> 4337
Ser Ile Val Asp Ile Phe Thr Ile
1 5

<210> 4338
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02

<400> 4338
Ser Leu Asp Lys Val Thr Leu Lys
1 5

<210> 4339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07,HLA-A*03:01

<400> 4339
Ser Leu Asp Lys Val Thr Leu Lys Arg
1 5

<210> 4340
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01

<400> 4340

Ser Leu Asp Leu Phe Gly Ile Leu Cys Val
1               5                   10


<210> 4341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*44:02

<400> 4341
Ser Leu Asp Tyr Leu Gln Arg Glu Trp
1               5


<210> 4342
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 4342
Ser Leu Phe Thr Asp Gly Phe Cys Gly Leu
1               5                   10


<210> 4343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 4343
Ser Leu Phe Val Glu Gln Asn Lys Lys
1               5


<210> 4344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:03

<400> 4344
Ser Leu Phe Val Glu Gln Asn Lys Lys Val
1               5                   10


<210> 4345
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:03

<400> 4345
Ser Leu His Glu Thr Ile Leu Ser Asp Val
1               5                   10


<210> 4346
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*29:02

<400> 4346
Ser Leu Leu Ala Thr Ala Phe Tyr Asn Tyr
1               5                   10


<210> 4347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
      HLA-B*55:01

<400> 4347
Ser Leu Gln Glu Thr Asn Leu His Leu
1               5


<210> 4348
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*13:02

<400> 4348
Ser Leu Gln Lys Ser Tyr Glu Ile
1 5

<210> 4349
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-A*11:01

<400> 4349
Ser Leu Gln Lys Ser Tyr Glu Ile Val Asn Lys
1 5 10

<210> 4350
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01

<400> 4350
Ser Met Lys Asn Lys Ile Leu Thr Gln Arg
1 5 10

<210> 4351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4351
Ser Asn Ile Met Arg Val Leu Ser Ile
1 5

<210> 4352
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01,HLA-C*16:01

<400> 4352
Ser Asn Tyr Thr Arg Lys Glu Leu
1 5

<210> 4353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:01

<400> 4353
Ser Pro Val Tyr Ser Tyr Gln Pro Arg
1 5

<210> 4354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*39:01

<400> 4354
Ser Gln Ile Pro Leu Gly Asp Asn Ala
1 5

<210> 4355
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 4355
Ser Ser Asp Pro Ser Pro Ser Val
1 5

<210> 4356

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*11:01,HLA-A*25:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*57:01,HLA-B*58:01,HLA-C*07:06

<400> 4356
Ser Ser Ile Ser Asn Phe Thr Thr Arg
1 5

<210> 4357
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*11:01

<400> 4357
Ser Ser Gln Ile Pro Leu Gly Asp Asn Ala Lys
1 5 10

<210> 4358
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-B*13:02,HLA-B*39:01,HLA-B*51:01,HLA-C*03:03,
HLA-C*03:04,HLA-C*05:01

<400> 4358
Ser Ser Ser Asp Pro Ser Pro Ser Val
1 5

<210> 4359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 4359
Ser Ser Tyr Glu Ala Leu Lys Gly Lys

1 5

<210> 4360
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03

<400> 4360
Ser Thr Ala Phe Ser Thr Gly Thr Val
1 5

<210> 4361
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*26:01,HLA-B*15:01,HLA-B*15:03,HLA-C*07:04

<400> 4361
Ser Thr Ala Phe Ser Thr Gly Thr Val Phe
1 5 10

<210> 4362
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4362
Ser Thr Ser Ser Ile Ser Asn Phe
1 5

<210> 4363
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 4363
Ser Thr Ser Ser Ile Ser Asn Phe Thr Thr Arg
1               5                   10


<210> 4364
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:04,HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*57:01

<400> 4364
Ser Thr Thr Arg Ile Ile Ile Gln Ile
1               5


<210> 4365
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*68:02

<400> 4365
Ser Thr Thr Arg Ile Ile Ile Gln Ile Leu
1               5                   10


<210> 4366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*68:02,HLA-B*39:01

<400> 4366
Ser Thr Val Gly Phe Gly Asp Val Val
1               5


<210> 4367
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 4367
Ser Thr Val Gly Phe Gly Asp Val Val Ala Lys
1 5 10

<210> 4368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*35:01

<400> 4368
Ser Val Ser Glu Glu Thr Pro Gly Tyr
1 5

<210> 4369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01

<400> 4369
Ser Val Thr Ala Phe Leu Arg Asn Phe
1 5

<210> 4370
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04,HLA-A*24:02,HLA-A*29:02,HLA-A*68:02

<400> 4370
Ser Tyr Phe Glu Ser Ile Tyr Leu Val
1 5

<210> 4371
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*29:02

<400> 4371
Ser Tyr Phe Glu Ser Ile Tyr Leu Val Met
1 5 10

<210> 4372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-B*07:02,HLA-B*08:01,HLA-C*01:02,
HLA-C*14:02

<400> 4372
Ser Tyr Gln Pro Arg Thr Asn Ser Leu
1 5

<210> 4373
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02

<400> 4373
Ser Tyr Gln Pro Arg Thr Asn Ser Leu Ser Phe
1 5 10

<210> 4374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*26:01,
HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*51:01,HLA-B*54:01,
HLA-C*02:02,HLA-C*12:03,HLA-C*16:02

<400> 4374
Thr Ala Ala Gly Phe Ile His Leu Val

1 5

<210> 4375
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4375
Thr Ala Phe Leu Arg Asn Phe Leu
1 5

<210> 4376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01,HLA-B*57:01

<400> 4376
Thr Ala Phe Leu Arg Asn Phe Leu Arg
1 5

<210> 4377
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*51:01

<400> 4377
Thr Ala Phe Ser Thr Gly Thr Val
1 5

<210> 4378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,

HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,

<220>
<223> HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:02,HLA-C*07:04,
HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,

<220>
<223> HLA-C*16:04

<400> 4378
Thr Ala Phe Ser Thr Gly Thr Val Phe
1 5

<210> 4379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,
HLA-C*02:02,HLA-C*03:04

<400> 4379
Thr Ala Phe Tyr Asn Tyr His Val Leu
1 5

<210> 4380
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01

<400> 4380
Thr Glu Ala Ile Met Ala Thr Leu
1 5

<210> 4381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4381
Thr Glu Ala Ile Met Ala Thr Leu Thr
1               5


<210> 4382
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*49:01

<400> 4382
Thr Glu Ala Ile Met Ala Thr Leu Thr Ile
1               5                   10


<210> 4383
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*49:01

<400> 4383
Thr Glu Ile Gln Ala Ala Phe Ile
1               5


<210> 4384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 4384
Thr Glu Ile Gln Ala Ala Phe Ile Leu
1               5


<210> 4385
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4385
Thr Glu Leu Lys Asn Pro Ser Asn Ile
1 5

<210> 4386
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:03

<400> 4386
Thr Glu Leu Lys Asn Pro Ser Asn Ile His Phe
1 5 10

<210> 4387
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4387
Thr Glu Thr Leu Tyr Ser Pro Val
1 5

<210> 4388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 4388
Thr Glu Thr Leu Tyr Ser Pro Val Tyr
1 5

<210> 4389
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01

<400> 4389
Thr Glu Thr Leu Tyr Ser Pro Val Tyr Ser Tyr
1 5 10

<210> 4390
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01

<400> 4390
Thr Phe Ile Met Phe Phe Thr Leu
1 5

<210> 4391
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*01:02,HLA-C*14:02

<400> 4391
Thr Phe Ile Ser Gly Ser Ala Met
1 5

<210> 4392
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01

<400> 4392
Thr Phe Ile Ser Gly Ser Ala Met Lys Trp
1 5 10

<210> 4393

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02

<400> 4393
Thr Phe Val Gly Gln Val Leu Val Ile
1 5

<210> 4394
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4394
Thr Gly Lys Ser Lys Tyr Lys Phe
1 5

<210> 4395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*15:03,HLA-B*39:01

<400> 4395
Thr Gly Thr Val Phe Ser Gly Ser Phe
1 5

<210> 4396
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*38:01

<400> 4396
Thr His Ser Asp Thr Asn Cys Pro Pro Thr Ile
1 5 10

<210> 4397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07,HLA-B*35:03,HLA-B*38:01,HLA-C*05:01

<400> 4397
Thr Ile Asp Ser Val Thr Glu Thr Leu
1 5

<210> 4398
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4398
Thr Ile Asp Ser Val Thr Glu Thr Leu Tyr
1 5 10

<210> 4399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*29:02

<400> 4399
Thr Ile Phe Lys Cys Tyr Leu Ala Tyr
1 5

<210> 4400
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 4400

Thr Ile Leu Ser Asp Val Asn Pro Arg
1               5


<210> 4401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*46:01

<400> 4401
Thr Ile Pro Pro Thr Phe Ile Ser Tyr
1               5


<210> 4402
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:07

<400> 4402
Thr Ile Pro Pro Thr Phe Ile Ser Tyr Tyr Leu
1               5                   10


<210> 4403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:01,HLA-A*02:03

<400> 4403
Thr Leu Gly Ser Leu Ile Leu Phe Ala
1               5


<210> 4404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -B*13:02

<400> 4404
Thr Leu Thr Ile Gly Ser Leu Gln Ile
1 5

<210> 4405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*35:01,HLA-B*35:03

<400> 4405
Thr Leu Val Asp Thr Glu Ala Ile Met
1 5

<210> 4406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*46:01,HLA-C*14:02

<400> 4406
Thr Leu Tyr Ser Pro Val Tyr Ser Tyr
1 5

<210> 4407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01

<400> 4407
Thr Asn Leu His Leu Ser Thr Ala Phe
1 5

<210> 4408
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*07:02,HLA-C*07:02

<400> 4408
Thr Pro Lys Asp Val Arg Arg Ala Leu
1 5

<210> 4409
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4409
Thr Ser Leu Asp Lys Val Thr Leu
1 5

<210> 4410
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01

<400> 4410
Thr Ser Leu Asp Lys Val Thr Leu Lys
1 5

<210> 4411
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*33:01

<400> 4411
Thr Ser Leu Asp Lys Val Thr Leu Lys Arg
1 5 10

<210> 4412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-C*07:06

<400> 4412
Thr Ser Leu Phe Val Glu Gln Asn Lys
1 5

<210> 4413
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*11:01,HLA-B*27:02

<400> 4413
Thr Ser Leu Phe Val Glu Gln Asn Lys Lys
1 5 10

<210> 4414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*31:01,HLA-A*33:03

<400> 4414
Thr Ser Leu Leu Ser Gly Arg Asn Arg
1 5

<210> 4415
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03

<400> 4415
Thr Ser Asn Ser Val Lys Phe Ser Lys
1 5

<210> 4416
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:01,HLA-C*07:06

<400> 4416
Thr Ser Ser Ile Ser Asn Phe Thr Thr Arg
1 5 10

<210> 4417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*26:01,HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*39:01,HLA-B*46:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*14:02

<400> 4417
Thr Thr Phe Ile Ser Gly Ser Ala Met
1 5

<210> 4418
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 4418
Thr Thr Phe Ile Ser Gly Ser Ala Met Lys
1 5 10

<210> 4419
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 4419
Thr Thr Phe Ile Ser Gly Ser Ala Met Lys Trp
1               5                   10


<210> 4420
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*01:01,HLA-A*68:02

<400> 4420
Thr Thr Ser Thr Val Gly Phe Gly Asp Val Val
1               5                   10


<210> 4421
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*37:01,HLA-C*05:01

<400> 4421
Thr Val Asp Ser Val Thr Ala Phe
1               5


<210> 4422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*01:01,HLA-A*02:01,HLA-A*02:07,HLA-A*68:02,HLA-B*13:02,
      HLA-B*35:03,HLA-B*38:01,HLA-C*05:01

<400> 4422
Thr Val Asp Ser Val Thr Ala Phe Leu
1               5


<210> 4423
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:01,HLA-B*27:02

<400> 4423
Thr Val Asp Ser Val Thr Ala Phe Leu Arg
1 5 10

<210> 4424
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4424
Thr Val Phe Ser Gly Ser Phe Leu Asp Ser Leu
1 5 10

<210> 4425
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*39:01

<400> 4425
Thr Val Gly Phe Gly Asp Val Val
1 5

<210> 4426
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 4426
Thr Val Gly Phe Gly Asp Val Val Ala Lys
1 5 10

<210> 4427
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -C*05:01

<400> 4427
Val Ala Asp Ser Cys Thr Ser Leu
1 5

<210> 4428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*02:07,HLA-B*35:03,HLA-B*38:01,HLA-C*04:01,
HLA-C*05:01,HLA-C*07:04

<400> 4428
Val Ala Asp Ser Cys Thr Ser Leu Leu
1 5

<210> 4429
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*46:01

<400> 4429
Val Ala Val Glu Ser Ala Glu Ala
1 5

<210> 4430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*46:01,HLA-C*03:03,HLA-C*03:04

<400> 4430
Val Ala Val Glu Ser Ala Glu Ala Cys
1 5

<210> 4431
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*35:03

<400> 4431
Val Ala Val Glu Ser Ala Glu Ala Cys Leu
1 5 10

<210> 4432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4432
Val Asp Ser Val Thr Ala Phe Leu
1 5

<210> 4433
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01

<400> 4433
Val Asp Thr Glu Ala Ile Met Ala Thr Leu
1 5 10

<210> 4434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*40:01

<400> 4434
Val Glu Asn Ser Gly Asp Pro Trp Leu
1 5

<210> 4435
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 4435
Val Glu Asn Ser Gly Asp Pro Trp Leu Lys
1 5 10

<210> 4436
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4436
Val Glu Gln Asn Lys Lys Val Met
1 5

<210> 4437
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*40:01

<400> 4437
Val Glu Ser Ala Glu Ala Cys Leu
1 5

<210> 4438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*40:01,HLA-B*49:01

<400> 4438

Val Glu Ser Ala Glu Ala Cys Leu Ile
1               5


<210> 4439
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -B*49:01

<400> 4439
Val Glu Ser Ala Glu Ala Cys Leu Ile Ile
1               5                   10


<210> 4440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*24:02

<400> 4440
Val Phe Ile Gly Ser Leu Asp Tyr Leu
1               5


<210> 4441
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 4441
Val Phe Leu Gly Glu Thr Pro Pro Ser Leu
1               5                   10


<210> 4442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*29:02

<400> 4442
Val Phe Asn Ala Phe Phe Ser Phe Tyr
1               5


<210> 4443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01,HLA-C*14:02

<400> 4443
Val Phe Val Leu Ser Ile Gly Ser Leu
1               5


<210> 4444
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*23:01

<400> 4444
Val Phe Val Leu Ser Ile Gly Ser Leu Ile
1               5                   10


<210> 4445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,
      HLA-B*27:02,HLA-B*27:05,HLA-C*07:04,HLA-C*07:06

<400> 4445
Val Gly Phe Gly Asp Val Val Ala Lys
1               5


<210> 4446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,HLA-C*16:01,
HLA-C*16:02

<400> 4446
Val Ile Thr Arg Pro Ala Asn Glu Phe
1 5

<210> 4447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4447
Val Leu Glu Leu Leu Gln Met Leu Val
1 5

<210> 4448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:02,HLA-B*27:05,HLA-B*39:01

<400> 4448
Val Leu Ser Pro Pro Pro Gln Pro Ser
1 5

<210> 4449
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:05

<400> 4449
Val Leu Ser Pro Pro Pro Gln Pro Ser Ser
1 5 10

<210> 4450

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:04

<400> 4450
Val Leu Val Ile Leu Val Phe Val Leu
1 5

<210> 4451
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03

<400> 4451
Val Met Ala Thr Thr Ser Thr Val
1 5

<210> 4452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*32:01

<400> 4452
Val Met Ala Thr Thr Ser Thr Val Gly
1 5

<210> 4453
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-C*14:02

<400> 4453
Val Met Ala Thr Thr Ser Thr Val Gly Phe
1 5 10

<210> 4454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*01:02

<400> 4454
Val Met Pro Leu Arg Ala Ser Asn Tyr
1 5

<210> 4455
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4455
Val Asn Pro Arg Asn Thr Phe Gly Gln Leu Phe
1 5 10

<210> 4456
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*56:01

<400> 4456
Val Pro Ile Leu Thr Glu Leu Lys Asn Pro Ser
1 5 10

<210> 4457
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4457
Val Ser Glu Glu Thr Pro Gly Tyr

1 5

<210> 4458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*58:01

<400> 4458
Val Ser Ser Gln Leu Glu Gln His Leu
1 5

<210> 4459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*68:02

<400> 4459
Val Thr Ala Phe Leu Arg Asn Phe Leu
1 5

<210> 4460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01

<400> 4460
Val Thr Glu Thr Leu Tyr Ser Pro Val
1 5

<210> 4461
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*30:02

<400> 4461
Val Thr Glu Thr Leu Tyr Ser Pro Val Tyr
1               5                   10


<210> 4462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*03:01,HLA-A*03:02,HLA-A*32:01,HLA-A*68:01,HLA-C*01:02

<400> 4462
Val Thr Gly Gly Val Ser Ser Gln Leu
1               5


<210> 4463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*03:01

<400> 4463
Val Val Ala Lys Thr Ser Leu Gly Arg
1               5


<210> 4464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*01:01,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,
      HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*04:01

<400> 4464
Val Tyr Asp Glu Asp Pro Phe Ala Tyr
1               5


<210> 4465
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*32:01,HLA-B*57:01,
HLA-B*58:01

<400> 4465
Val Tyr Leu Pro Lys Ile Pro Ser Trp
1 5

<210> 4466
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4466
Val Tyr Leu Pro Lys Ile Pro Ser Trp Asn Trp
1 5 10

<210> 4467
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4467
Val Tyr Ser Tyr Gln Pro Arg Thr Asn Ser Leu
1 5 10

<210> 4468
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*18:01

<400> 4468
Tyr Asp Glu Asp Pro Phe Ala Tyr
1 5

<210> 4469
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*37:01

<400> 4469
Tyr Asp Ser Thr Thr Arg Ile Ile
1 5

<210> 4470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*44:02,HLA-B*44:03

<400> 4470
Tyr Glu Ala Leu Lys Gly Lys Lys Phe
1 5

<210> 4471
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*49:01

<400> 4471
Tyr Glu Asp Lys Thr Ile Pro Ile
1 5

<210> 4472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*40:01

<400> 4472
Tyr Glu Asp Lys Thr Ile Pro Ile Asp Leu
1 5 10

<210> 4473

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 4473
Tyr Glu Ile Val Asn Lys Ala Ser Gln
1 5

<210> 4474
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*40:02,HLA-B*49:01

<400> 4474
Tyr Glu Ile Val Asn Lys Ala Ser Gln Thr
1 5 10

<210> 4475
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*30:01

<400> 4475
Tyr Glu Ile Val Asn Lys Ala Ser Gln Thr Thr
1 5 10

<210> 4476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*23:01,HLA-A*29:02

<400> 4476
Tyr Phe Glu Ser Ile Tyr Leu Val Met
1 5

<210> 4477
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*08:01

<400> 4477
Tyr Ile Leu Pro Gly Cys Ala Leu
1 5

<210> 4478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*29:02

<400> 4478
Tyr Ile Leu Pro Gly Cys Ala Leu Tyr
1 5

<210> 4479
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07

<400> 4479
Tyr Ile Pro Glu Met Val Glu Leu
1 5

<210> 4480
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07,HLA-A*24:02,HLA-A*26:01,HLA-A*29:02

<400> 4480
Tyr Ile Pro Glu Met Val Glu Leu Phe

1 5

<210> 4481
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:07

<400> 4481
Tyr Ile Pro Glu Met Val Glu Leu Phe Ala
1 5 10

<210> 4482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*13:02

<400> 4482
Tyr Leu Ala Tyr Thr Thr Phe Ile
1 5

<210> 4483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*02:03,HLA-A*02:04

<400> 4483
Tyr Leu Lys Ser Asn Trp Leu Gly Leu
1 5

<210> 4484
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4484
Tyr Leu Pro Lys Ile Pro Ser Trp
1               5


<210> 4485
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:07,HLA-A*24:02

<400> 4485
Tyr Leu Pro Lys Ile Pro Ser Trp Asn Trp
1               5                   10


<210> 4486
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:03

<400> 4486
Tyr Leu Val Met Ala Thr Thr Ser Thr Val
1               5                   10


<210> 4487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
      HLA -A*02:04,HLA-A*68:02

<400> 4487
Tyr Asn Tyr His Val Leu Glu Leu Leu
1               5


<210> 4488
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;

HLA -B*13:02,HLA-C*01:02

<400> 4488
Tyr Gln Pro Arg Thr Asn Ser Leu
1 5

<210> 4489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*24:02

<400> 4489
Tyr Gln Pro Arg Thr Asn Ser Leu Ser Phe
1 5 10

<210> 4490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 4490
Tyr Arg Ile Ile Asp Glu Glu Glu Leu
1 5

<210> 4491
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*54:01

<400> 4491
Tyr Ser Gly Asp Leu His Ala Ala
1 5

<210> 4492
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*25:01,HLA-A*30:01,HLA-B*08:01,HLA-B*46:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03

<400> 4492
Tyr Ser Tyr Gln Pro Arg Thr Asn Ser Leu
1 5 10

<210> 4493
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 4493
Tyr Thr Ser Ser Tyr Glu Ala Leu Lys
1 5

<210> 4494
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 4494
Tyr Thr Ser Ser Tyr Glu Ala Leu Lys Gly Lys
1 5 10

<210> 4495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; KCNU1; ENSG00000215262;
HLA -B*54:01,HLA-B*56:01

<400> 4495
Tyr Thr Thr Phe Ile Ser Gly Ser Ala
1 5

<210> 4496
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*01:01,HLA-A*32:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*55:01,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04

<400> 4496
Ala Ala Asp Glu Pro Gln Leu Leu
1 5

<210> 4497
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*29:02,HLA-B*27:05,HLA-B*58:01,HLA-C*05:01,HLA-C*07:06

<400> 4497
Ala Ala Asp Glu Pro Gln Leu Leu His
1 5

<210> 4498
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:07

<400> 4498
Ala Ala Asp Glu Pro Gln Leu Leu His Gly Ala
1 5 10

<210> 4499
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02

<400> 4499
Ala Ala Arg Ala Ala Asp Glu Pro Gln Leu
1 5 10

<210> 4500
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*40:02,HLA-B*57:01

<400> 4500
Ala Ala Arg Ala Ala Asp Glu Pro Gln Leu Leu
1 5 10

<210> 4501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*40:02,HLA-B*55:01,HLA-B*56:01,HLA-C*04:01,HLA-C*06:02

<400> 4501
Ala Gly Val Ala Leu Asp Pro Pro Val
1 5

<210> 4502
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:01,HLA-A*02:07,HLA-B*55:01,HLA-C*04:01,HLA-C*05:01

<400> 4502
Ala Leu Asp Pro Pro Val Asp Val
1 5

<210> 4503
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:02,
HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,

<220>
<223> HLA-B*35:01,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*03:03,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,HLA-C*12:03

<400> 4503
Ala Leu Asp Pro Pro Val Asp Val Phe
1 5

<210> 4504
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,
HLA-A*68:02,HLA-B*13:02,HLA-B*38:01,HLA-B*55:01,HLA-C*05:01

<400> 4504
Ala Leu Asp Pro Pro Val Asp Val Phe Val
1 5 10

<210> 4505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 4505
Ala Pro Glu Asp Ala Ala Arg Ala Ala
1 5

<210> 4506
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*38:01,
HLA-B*39:01

<400> 4506
Ala Gln Gly Lys Pro Thr Tyr Phe
1 5

<210> 4507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*31:01

<400> 4507
Ala Gln Gly Lys Pro Thr Tyr Phe Arg
1 5

<210> 4508
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:05

<400> 4508
Ala Gln Gln Gly Pro Ser Ala Gln Gly Lys
1 5 10

<210> 4509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*27:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-C*16:04

<400> 4509
Ala Arg Ala Ala Asp Glu Pro Gln Leu
1 5

<210> 4510
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 4510

Ala Arg Ala Ala Asp Glu Pro Gln Leu Leu
1               5                   10


<210> 4511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*27:05

<400> 4511
Ala Arg Ala Gly Val Ala Leu Asp Pro
1               5


<210> 4512
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*03:02,HLA-A*11:01

<400> 4512
Ala Val Glu Phe Thr Phe Lys Lys
1               5


<210> 4513
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*03:02

<400> 4513
Ala Val Glu Phe Thr Phe Lys Lys Ser Ala Lys
1               5                   10


<210> 4514
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 4514
Cys Pro Leu Lys Ala Gln Gln Gly Pro Ser Ala
1               5                   10


<210> 4515
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*13:02,HLA-B*37:01

<400> 4515
Cys Gln Ser Ile Ser His Met Val
1               5


<210> 4516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*18:01

<400> 4516
Asp Glu Pro Gln Leu Leu His Gly Ala
1               5


<210> 4517
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*51:01

<400> 4517
Asp Pro Pro Val Asp Val Phe Val
1               5


<210> 4518
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*68:01,HLA-A*68:02,
HLA-B*51:01

<400> 4518
Asp Val Phe Val His Gln Ser Lys Leu
1 5

<210> 4519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*26:01

<400> 4519
Glu Ala Pro Glu Asp Ala Ala Arg Ala
1 5

<210> 4520
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
HLA-B*51:01,HLA-C*07:01

<400> 4520
Glu Ala Val Glu Phe Thr Phe Lys
1 5

<210> 4521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*27:02,HLA-B*57:01,HLA-C*07:06

<400> 4521
Glu Ala Val Glu Phe Thr Phe Lys Lys
1 5

<210> 4522

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*54:01

<400> 4522
Glu Ala Val Glu Phe Thr Phe Lys Lys Ser Ala
1 5 10

<210> 4523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*33:01,HLA-A*33:03

<400> 4523
Glu Cys Lys Leu Pro Pro Gln Pro Lys
1 5

<210> 4524
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*39:01

<400> 4524
Glu Glu Ala Pro Glu Glu Ala Pro Glu Asp Ala
1 5 10

<210> 4525
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 4525
Glu Glu Glu Glu Glu Ile His Ser Pro Thr Leu
1 5 10

<210> 4526
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*30:01,HLA-B*18:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 4526
Glu Glu Glu Glu Ile His Ser Pro Thr Leu
1 5 10

<210> 4527
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*40:01

<400> 4527
Glu Glu Glu Glu Ile His Ser Pro Thr Leu Leu
1 5 10

<210> 4528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 4528
Glu Glu Glu Ile His Ser Pro Thr Leu
1 5

<210> 4529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*40:01

<400> 4529
Glu Glu Glu Ile His Ser Pro Thr Leu Leu
1               5                   10


<210> 4530
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
      HLA-B*44:03,HLA-B*49:01

<400> 4530
Glu Glu Ile His Ser Pro Thr Leu
1               5


<210> 4531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*68:02,HLA-B*18:01,
      HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 4531
Glu Glu Ile His Ser Pro Thr Leu Leu
1               5


<210> 4532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*33:01,HLA-A*33:03

<400> 4532
Glu Phe Thr Phe Lys Lys Ser Ala Lys
1               5


<210> 4533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*23:01,HLA-B*27:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01

<400> 4533
Glu Gly Glu Ala Val Glu Phe Thr Phe
1 5

<210> 4534
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*27:02

<400> 4534
Glu Gly Glu Ala Val Glu Phe Thr Phe Lys
1 5 10

<210> 4535
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 4535
Glu Pro Gln Leu Leu His Gly Ala
1 5

<210> 4536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*54:01

<400> 4536
Phe Ala Gly Gly Cys Ala Lys Ala Ala
1 5

<210> 4537
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:01,HLA-C*04:01,HLA-C*12:03

<400> 4537
Phe Cys Gln Ser Ile Ser His Met Val
1 5

<210> 4538
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*40:02,HLA-B*54:01,HLA-B*56:01,HLA-C*06:02,HLA-C*12:03

<400> 4538
Phe Gly Phe Leu Ser Met Thr Ala
1 5

<210> 4539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
HLA-B*27:05,HLA-B*35:01,HLA-B*46:01,HLA-B*54:01

<400> 4539
Phe Gly Phe Leu Ser Met Thr Ala Arg
1 5

<210> 4540
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*54:01

<400> 4540
Phe Gly Phe Leu Ser Met Thr Ala Arg Ala
1 5 10

<210> 4541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:03

<400> 4541
Phe Leu Ser Met Thr Ala Arg Ala Gly Val
1 5 10

<210> 4542
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*23:01,HLA-A*30:01,HLA-B*13:02,HLA-B*15:01,HLA-B*18:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 4542
Gly Glu Ala Val Glu Phe Thr Phe
1 5

<210> 4543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*27:02,HLA-B*27:05,HLA-B*49:01

<400> 4543
Gly Glu Ala Val Glu Phe Thr Phe Lys
1 5

<210> 4544
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*27:02

<400> 4544
Gly Glu Ala Val Glu Phe Thr Phe Lys Lys
1               5                   10


<210> 4545
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*31:01

<400> 4545
Gly Phe Leu Ser Met Thr Ala Arg
1               5


<210> 4546
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*11:01,HLA-B*27:05

<400> 4546
Gly Gly Leu Asp His His Ala Lys
1               5


<210> 4547
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*30:02,HLA-B*07:02,HLA-B*15:01,HLA-B*35:01,HLA-B*44:03,
      HLA-B*55:01,HLA-C*07:02

<400> 4547
Gly Pro Ser Ala Gln Gly Lys Pro Thr Tyr
1               5                   10


<210> 4548
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02,HLA-C*04:01,HLA-C*07:02

<400> 4548
Gly Pro Ser Ala Gln Gly Lys Pro Thr Tyr Phe
1 5 10

<210> 4549
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*58:01

<400> 4549
Gly Ser Val Ser Asn Gln Gln Phe
1 5

<210> 4550
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*39:01

<400> 4550
Gly Val Ala Leu Asp Pro Pro Val Asp Val
1 5 10

<210> 4551
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*25:01,HLA-B*39:01

<400> 4551
Gly Val Ala Leu Asp Pro Pro Val Asp Val Phe
1 5 10

<210> 4552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 4552
Gly Val Phe Cys Ile Gly Ser Glu Arg
1 5

<210> 4553
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*08:01

<400> 4553
His Met Glu Gly Phe Arg Ser Leu
1 5

<210> 4554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:01

<400> 4554
His Met Glu Gly Phe Arg Ser Leu Lys
1 5

<210> 4555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-C*06:02,HLA-C*07:01

<400> 4555
His Met Val Ala Ser Cys Pro Leu Lys
1 5

<210> 4556
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:07,HLA-B*54:01

<400> 4556
His Ser Pro Thr Leu Leu Pro Glu Ala
1 5

<210> 4557
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -C*16:01

<400> 4557
Ile Gly Ser Glu Arg Arg Pro Lys
1 5

<210> 4558
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02,HLA-B*15:03,HLA-B*27:02,HLA-B*27:05,HLA-B*38:01,
HLA-B*39:01,HLA-C*06:02,HLA-C*07:01,HLA-C*12:03,HLA-C*16:04

<400> 4558
Ile Arg Val Thr Gly Pro Gly Gly Val Phe
1 5 10

<210> 4559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -C*06:02,HLA-C*07:01

<400> 4559
Ile Ser His Met Val Ala Ser Cys Pro Leu
1 5 10

<210> 4560
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:02

<400> 4560
Lys Ala Gln Gln Gly Pro Ser Ala Gln Gly Lys
1 5 10

<210> 4561
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*30:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*12:03,HLA-C*16:01,

<220>
<223> HLA-C*16:02,HLA-C*16:04

<400> 4561
Lys Glu Gly Glu Ala Val Glu Phe
1 5

<210> 4562
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,HLA-B*18:01,
HLA-B*27:02,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,HLA-B*58:01,

<220>
<223> HLA-C*16:04

<400> 4562
Lys Glu Gly Glu Ala Val Glu Phe Thr Phe
1 5 10

<210> 4563

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:02,HLA-A*11:01

<400> 4563
Lys Glu Gly Glu Ala Val Glu Phe Thr Phe Lys
1 5 10

<210> 4564
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*32:01

<400> 4564
Lys Gly Leu Glu Ser Ile Arg Val Thr Gly Pro
1 5 10

<210> 4565
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:03

<400> 4565
Lys Leu His Met Glu Gly Phe Arg Ser Leu
1 5 10

<210> 4566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:07

<400> 4566
Lys Leu Pro Pro Gln Pro Lys Lys Cys
1 5

<210> 4567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*40:02,HLA-B*58:01

<400> 4567
Lys Ser Ala Lys Gly Leu Glu Ser Ile
1 5

<210> 4568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*24:02

<400> 4568
Lys Trp Phe Asn Val Arg Met Gly Phe
1 5

<210> 4569
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*37:01

<400> 4569
Leu Asp Pro Pro Val Asp Val Phe
1 5

<210> 4570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:07,HLA-A*68:02

<400> 4570
Leu Asp Pro Pro Val Asp Val Phe Val

1 5

<210> 4571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*37:01,HLA-B*40:02,HLA-B*49:01,HLA-C*07:04

<400> 4571
Leu Glu Ser Ile Arg Val Thr Gly Pro
1 5

<210> 4572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*38:01,HLA-B*57:01,HLA-C*03:04

<400> 4572
Leu His Met Glu Gly Phe Arg Ser Leu
1 5

<210> 4573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*15:03,HLA-B*38:01

<400> 4573
Leu Lys Glu Gly Glu Ala Val Glu Phe
1 5

<210> 4574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:01

<400> 4574
Leu Leu His Gly Ala Gly Ile Cys Lys
1               5


<210> 4575
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*07:02,HLA-C*03:03,HLA-C*03:04

<400> 4575
Leu Ser Met Thr Ala Arg Ala Gly Val Ala Leu
1               5                   10


<210> 4576
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*51:01,HLA-B*54:01

<400> 4576
Met Gly Phe Gly Phe Leu Ser Met
1               5


<210> 4577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*54:01

<400> 4577
Met Gly Phe Gly Phe Leu Ser Met Thr
1               5


<210> 4578
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;

HLA -B*54:01

<400> 4578
Met Gly Phe Gly Phe Leu Ser Met Thr Ala
1 5 10

<210> 4579
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*31:01

<400> 4579
Met Gly Phe Gly Phe Leu Ser Met Thr Ala Arg
1 5 10

<210> 4580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*15:01,HLA-B*27:05,HLA-B*38:01,HLA-C*04:01,HLA-C*07:04

<400> 4580
Met Gly Ser Val Ser Asn Gln Gln Phe
1 5

<210> 4581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*25:01,HLA-A*32:01,HLA-B*07:02,HLA-B*35:03,HLA-B*40:02,
HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,
HLA-C*03:04,HLA-C*07:04,HLA-C*16:01

<400> 4581
Met Thr Ala Arg Ala Gly Val Ala Leu
1 5

<210> 4582
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:02

<400> 4582
Met Val Ala Ser Cys Pro Leu Lys
1 5

<210> 4583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:01,HLA-B*13:02,HLA-B*54:01,HLA-C*06:02

<400> 4583
Met Val Ala Ser Cys Pro Leu Lys Ala
1 5

<210> 4584
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*27:05

<400> 4584
Asn Gln Gln Phe Ala Gly Gly Cys Ala Lys
1 5 10

<210> 4585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*27:02

<400> 4585
Pro Glu Glu Ala Pro Glu Asp Ala Ala Arg
1 5 10

<210> 4586

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*58:01,
HLA-C*16:01,HLA-C*16:02

<400> 4586
Pro Ser Ala Gln Gly Lys Pro Thr Tyr
1 5

<210> 4587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*24:02,HLA-B*07:02,HLA-C*07:02

<400> 4587
Pro Ser Ala Gln Gly Lys Pro Thr Tyr Phe
1 5 10

<210> 4588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -C*07:01

<400> 4588
Pro Thr Leu Leu Pro Glu Ala Gln Asn
1 5

<210> 4589
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*31:01

<400> 4589
Gln Gly Lys Pro Thr Tyr Phe Arg
1 5

<210> 4590
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*30:02,HLA-B*39:01,HLA-C*04:01,HLA-C*07:01

<400> 4590
Gln Gly Pro Ser Ala Gln Gly Lys Pro Thr Tyr
1 5 10

<210> 4591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*30:02,HLA-A*31:01,
HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*39:01,HLA-B*40:02,HLA-C*06:02,HLA-C*07:04

<400> 4591
Gln Gln Phe Ala Gly Gly Cys Ala Lys
1 5

<210> 4592
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:03,HLA-B*13:02

<400> 4592
Gln Gln Phe Ala Gly Gly Cys Ala Lys Ala
1 5 10

<210> 4593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:02

<400> 4593
Gln Gln Gly Pro Ser Ala Gln Gly Lys
1               5


<210> 4594
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*40:02,HLA-C*12:03

<400> 4594
Gln Ser Ile Ser His Met Val Ala
1               5


<210> 4595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*33:01,HLA-B*08:01,HLA-B*57:01,HLA-C*07:01

<400> 4595
Gln Ser Lys Leu His Met Glu Gly Phe
1               5


<210> 4596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -B*38:01,HLA-B*40:01,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01

<400> 4596
Arg Ala Ala Asp Glu Pro Gln Leu Leu
1               5


<210> 4597
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*57:01

<400> 4597
Arg Ala Ala Asp Glu Pro Gln Leu Leu His
1 5 10

<210> 4598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02

<400> 4598
Arg Pro Lys Gly Lys Ser Met Gln Lys
1 5

<210> 4599
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*57:01,HLA-B*58:01

<400> 4599
Arg Ser Leu Lys Glu Gly Glu Ala Val Glu Phe
1 5 10

<210> 4600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*39:01,
HLA-B*40:02,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,

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<223> HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,HLA-C*07:02,
HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 4600
Arg Val Thr Gly Pro Gly Gly Val Phe
1 5

<210> 4601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 4601
Ser Ala Lys Gly Leu Glu Ser Ile Arg
1 5

<210> 4602
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*30:02,HLA-A*32:01,HLA-B*39:01,HLA-B*58:01,HLA-C*16:01

<400> 4602
Ser Ala Gln Gly Lys Pro Thr Tyr
1 5

<210> 4603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*26:01,HLA-A*30:02,
HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-B*35:01,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*04:01,

<220>
<223> HLA-C*05:01,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,
HLA-C*16:04

<400> 4603
Ser Ala Gln Gly Lys Pro Thr Tyr Phe
1 5

<210> 4604
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 4604
Ser Ala Gln Gly Lys Pro Thr Tyr Phe Arg
1 5 10

<210> 4605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*39:01

<400> 4605
Ser His Met Val Ala Ser Cys Pro Leu
1 5

<210> 4606
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:03

<400> 4606
Ser Ile Arg Val Thr Gly Pro Gly Gly Val
1 5 10

<210> 4607
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02,HLA-B*15:01,HLA-B*46:01,HLA-C*07:02

<400> 4607
Ser Ile Arg Val Thr Gly Pro Gly Gly Val Phe
1 5 10

<210> 4608
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*08:01

<400> 4608
Ser Leu Lys Glu Gly Glu Ala Val
1 5

<210> 4609
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:03,HLA-A*03:02,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*46:01,HLA-B*57:01,HLA-C*07:04,HLA-C*14:02

<400> 4609
Ser Leu Lys Glu Gly Glu Ala Val Glu Phe
1 5 10

<210> 4610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*55:01

<400> 4610
Ser Met Thr Ala Arg Ala Gly Val Ala
1 5

<210> 4611
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02

<400> 4611
Ser Met Thr Ala Arg Ala Gly Val Ala Leu
1 5 10

<210> 4612
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 4612
Ser Pro Thr Leu Leu Pro Glu Ala
1 5

<210> 4613
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*07:02,HLA-B*08:01,HLA-B*40:02,HLA-B*46:01,HLA-C*01:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,HLA-C*07:04,HLA-C*16:01

<400> 4613
Thr Ala Arg Ala Gly Val Ala Leu
1 5

<210> 4614
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -C*06:02

<400> 4614
Thr Ala Arg Ala Gly Val Ala Leu Asp Pro Pro
1 5 10

<210> 4615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -B*13:02,HLA-C*06:02

<400> 4615
Thr Gly Pro Gly Gly Val Phe Cys Ile
1               5


<210> 4616
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -C*04:01,HLA-C*06:02,HLA-C*07:01,HLA-C*07:02

<400> 4616
Thr Gly Pro Gly Gly Val Phe Cys Ile Gly
1               5                   10


<210> 4617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*02:01,HLA-A*23:01,HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,
      HLA-B*54:01,HLA-C*02:02,HLA-C*03:03,HLA-C*05:01,HLA-C*12:03,
      HLA-C*16:04

<400> 4617
Val Ala Leu Asp Pro Pro Val Asp Val
1               5


<210> 4618
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
      HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-A*33:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,
      HLA-B*38:01,HLA-B*39:01,HLA-B*46:01,HLA-B*57:01,HLA-C*02:02,

<220>
<223> HLA-C*05:01,HLA-C*12:03,HLA-C*16:04

<400> 4618
Val Ala Leu Asp Pro Pro Val Asp Val Phe
1               5                   10

<210> 4619
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 4619
Val Ala Leu Asp Pro Pro Val Asp Val Phe Val
1 5 10

<210> 4620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*44:03,HLA-B*49:01

<400> 4620
Val Glu Phe Thr Phe Lys Lys Ser Ala
1 5

<210> 4621
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*23:01

<400> 4621
Val Phe Val His Gln Ser Lys Leu
1 5

<210> 4622
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*39:01,HLA-B*40:02,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,

<220>

<223> HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,HLA-C*06:02,
HLA-C*07:01,HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01

<400> 4622
Val Thr Gly Pro Gly Gly Val Phe
1 5

<210> 4623
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LIN28A; ENSG00000131914;
HLA -A*02:01,HLA-C*06:02

<400> 4623
Val Thr Gly Pro Gly Gly Val Phe Cys Ile
1 5 10

<210> 4624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*08:01,HLA-B*40:02,HLA-C*16:01

<400> 4624
Ala Ser Phe Arg Lys Leu Thr Leu
1 5

<210> 4625
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 4625
Ala Thr Gln Lys Asp Leu Ile Ala Thr Gln Arg
1 5 10

<210> 4626
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*27:02

<400> 4626
Ala Thr Gln Arg Asp Leu Ile Ala Thr Gln Lys
1 5 10

<210> 4627
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 4627
Ala Thr Gln Arg Asp Leu Ile Ala Thr Gln Arg
1 5 10

<210> 4628
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*11:01

<400> 4628
Ala Thr Gln Arg Asp Leu Ile Val Thr Gln
1 5 10

<210> 4629
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 4629
Ala Thr Gln Arg Asp Leu Ile Val Thr Gln Arg
1 5 10

<210> 4630
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*18:01

<400> 4630
Asp Asp Ile Ile Ile Tyr Lys Glu
1 5

<210> 4631
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*18:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 4631
Asp Asp Ile Ile Ile Tyr Lys Glu Leu
1 5

<210> 4632
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*08:01

<400> 4632
Asp Ile Ile Ile Tyr Lys Glu Leu
1 5

<210> 4633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*08:01

<400> 4633
Asp Leu Ile Ala Thr Gln Lys Asp Leu
1 5

<210> 4634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*08:01

<400> 4634
Asp Leu Ile Ala Thr Gln Arg Asp Leu
1 5

<210> 4635
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*33:01,HLA-A*33:03

<400> 4635
Asp Leu Ile Asn Gln Ser Gly Arg
1 5

<210> 4636
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*25:01

<400> 4636
Asp Leu Ile Asn Gln Ser Gly Arg Ser His
1 5 10

<210> 4637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*08:01

<400> 4637

Asp Leu Ile Val Thr Gln Arg Asp Leu
1               5


<210> 4638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*26:01

<400> 4638
Asp Leu Val Asp Thr Gln Ser Asp Leu
1               5


<210> 4639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*25:01

<400> 4639
Asp Leu Val Asp Thr Gln Ser Asp Leu Ile
1               5                   10


<210> 4640
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*33:01,HLA-B*27:02

<400> 4640
Asp Met Ser Leu Asp Asp Ile Ile Ile Tyr Lys
1               5                   10


<210> 4641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,

HLA-C*07:06

<400> 4641
Asp Asn Tyr Glu Ala Gln Ala Glu Lys
1 5

<210> 4642
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 4642
Asp Thr Gln Ser Asp Leu Ile Ala Thr Gln
1 5 10

<210> 4643
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 4643
Asp Thr Gln Ser Asp Leu Ile Ala Thr Gln Arg
1 5 10

<210> 4644
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*33:01

<400> 4644
Glu Glu Asn His His Ser Glu Arg
1 5

<210> 4645
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:02

<400> 4645
Glu Leu Glu Gly Thr Asn Ala Glu Glu Glu Lys
1 5 10

<210> 4646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:05

<400> 4646
Glu Arg Asp Leu Ile Asn Gln Ser Gly
1 5

<210> 4647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*02:07

<400> 4647
Phe Leu Asp Met Ser Leu Asp Asp Ile
1 5

<210> 4648
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*15:01,HLA-B*27:05,HLA-B*39:01

<400> 4648
Gly Gln His Pro Leu Asn Gly Gln Pro Leu
1 5 10

<210> 4649
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*30:01,HLA-B*13:02

<400> 4649
Gly Gln His Pro Leu Asn Gly Gln Pro Leu Ile
1 5 10

<210> 4650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*11:01,HLA-B*13:02

<400> 4650
Gly Gln Pro Leu Ile Glu Gln Glu Lys
1 5

<210> 4651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*13:02,HLA-B*27:05

<400> 4651
Gly Gln Ser Glu Gly Asn Gln His Gln Ser
1 5 10

<210> 4652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-C*16:01

<400> 4652
Gly Gln Ser Glu Arg His Gln Arg Tyr
1 5

<210> 4653
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:05

<400> 4653
Gly Arg Ser His Gly Gln Ser Glu Arg
1 5

<210> 4654
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:02,HLA-A*11:01

<400> 4654
Gly Thr Asn Ala Glu Glu Glu Lys Asn Lys
1 5 10

<210> 4655
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-A*33:03

<400> 4655
Gly Thr Asn Ala Glu Glu Glu Lys Asn Lys Arg
1 5 10

<210> 4656
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*07:02,HLA-C*04:01

<400> 4656
His Asp Lys Lys Pro Ser Gln Lys

1 5

<210> 4657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*33:01

<400> 4657
His Gly Gln Ser Glu Arg His Gln Arg
1 5

<210> 4658
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*35:03

<400> 4658
His Pro Leu Asn Gly Gln Pro Leu
1 5

<210> 4659
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*23:01,HLA-B*13:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 4659
His Pro Leu Asn Gly Gln Pro Leu Ile
1 5

<210> 4660
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*35:01

<400> 4660
His Pro Gln Tyr Glu Arg Ser His Gly Gln Tyr
1               5                   10


<210> 4661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -B*39:01

<400> 4661
His Gln Ser Glu Gly Asn Pro Asp Lys
1               5


<210> 4662
<211> 9
<212> PRT
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<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 4662
His Ser Lys Lys Glu Ser Pro Ser Arg
1               5


<210> 4663
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -B*51:01,HLA-C*16:02

<400> 4663
Ile Ala Thr Gln Lys Asp Leu Ile
1               5


<210> 4664
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*54:01

<400> 4664
Ile Ala Thr Gln Lys Asp Leu Ile Ala
1 5

<210> 4665
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*51:01,HLA-C*16:01

<400> 4665
Ile Ala Thr Gln Arg Asp Leu Ile
1 5

<210> 4666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*54:01,HLA-C*16:01,HLA-C*16:02

<400> 4666
Ile Ala Thr Gln Arg Asp Leu Ile Ala
1 5

<210> 4667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*51:01,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 4667
Ile Ala Thr Gln Arg Asp Leu Ile Val
1 5

<210> 4668
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*30:02

<400> 4668
Ile Glu Gln Glu Lys Cys Ser Asp Asn Tyr
1 5 10

<210> 4669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*54:01

<400> 4669
Ile Val Thr Gln Arg Asp Leu Val Ala
1 5

<210> 4670
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -C*14:02

<400> 4670
Ile Tyr Lys Glu Leu Glu Gly Thr Asn Ala
1 5 10

<210> 4671
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-B*37:01

<400> 4671
Lys Asp Leu Ile Ala Thr Gln Arg
1 5

<210> 4672
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*37:01

<400> 4672
Lys Glu Ser Pro Ser Arg Gln Gln Ser Lys
1 5 10

<210> 4673
<211> 10
<212> PRT
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<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*15:03

<400> 4673
Lys Lys Pro Ser Gln Lys Pro Ser Gly Phe
1 5 10

<210> 4674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*07:02,HLA-B*08:01,HLA-B*37:01,HLA-C*07:02

<400> 4674
Lys Pro Ser Gln Lys Pro Ser Gly Phe
1 5

<210> 4675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*07:02

<400> 4675
Lys Val Asn Phe Leu Asp Met Ser Leu
1 5

<210> 4676
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,
HLA-A*32:01

<400> 4676
Lys Val Pro Pro Asn His Pro Ser Arg
1 5

<210> 4677
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 4677
Lys Val Pro Pro Asn His Pro Ser Arg Lys
1 5 10

<210> 4678
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:02

<400> 4678
Leu Asp Asp Ile Ile Ile Tyr Lys
1 5

<210> 4679
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -C*05:01

<400> 4679
Leu Val Asp Thr Gln Ser Asp Leu

1 5

<210> 4680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01,HLA-A*02:07,HLA-B*27:05,HLA-B*38:01,HLA-C*05:01

<400> 4680
Leu Val Asp Thr Gln Ser Asp Leu Ile
1 5

<210> 4681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*08:01,HLA-C*16:01

<400> 4681
Met Ala Ser Phe Arg Lys Leu Thr Leu
1 5

<210> 4682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01,HLA-A*29:02,HLA-B*35:01,HLA-B*55:01,HLA-B*57:01,
HLA-C*07:01,HLA-C*12:03

<400> 4682
Met Ser Leu Asp Asp Ile Ile Ile Tyr
1 5

<210> 4683
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:02,HLA-B*27:02,

HLA-B*57:01

<400> 4683
Met Ser Leu Asp Asp Ile Ile Ile Tyr Lys
1 5 10

<210> 4684
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:02

<400> 4684
Asn Gly Gln Pro Leu Ile Glu Gln Glu Lys
1 5 10

<210> 4685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01

<400> 4685
Asn Ser Glu Glu Gly Asn His Asp Lys
1 5

<210> 4686
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*30:02

<400> 4686
Pro Gln Tyr Glu Arg Ser His Gly Gln Tyr
1 5 10

<210> 4687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*38:01,HLA-B*39:01

<400> 4687
Gln His Pro Leu Asn Gly Gln Pro Leu
1 5

<210> 4688
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*38:01

<400> 4688
Gln His Pro Leu Asn Gly Gln Pro Leu Ile
1 5 10

<210> 4689
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*39:01

<400> 4689
Gln His Gln Ser Glu Gly Asn Pro Asp Lys
1 5 10

<210> 4690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*55:01

<400> 4690
Gln Pro Leu Ile Glu Gln Glu Lys Cys
1 5

<210> 4691
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:02,HLA-B*27:05

<400> 4691
Gln Arg Asp Leu Ile Ala Thr Gln Lys
1 5

<210> 4692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:05

<400> 4692
Gln Arg Asp Leu Ile Ala Thr Gln Arg
1 5

<210> 4693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:02,HLA-B*27:05

<400> 4693
Gln Arg Asp Leu Ile Val Thr Gln Arg
1 5

<210> 4694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:05

<400> 4694
Gln Arg Asp Leu Val Ala Thr Glu Arg
1 5

<210> 4695

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*38:01

<400> 4695
Gln Arg Tyr Ser Thr Gly Lys Asn Thr Ile
1 5 10

<210> 4696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 4696
Gln Ser Asp Leu Ile Ala Thr Gln Arg
1 5

<210> 4697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01,HLA-C*05:01

<400> 4697
Gln Ser Asp Arg Ser Gln Gly Gln Leu
1 5

<210> 4698
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01,HLA-A*03:02

<400> 4698
Gln Ser Asp Arg Ser Gln Gly Gln Leu Lys
1 5 10

<210> 4699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*29:02,HLA-A*30:02

<400> 4699
Gln Tyr Glu Arg Ser His Gly Gln Tyr
1 5

<210> 4700
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-B*37:01

<400> 4700
Arg Asp Leu Ile Ala Thr Gln Lys
1 5

<210> 4701
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-B*37:01

<400> 4701
Arg Asp Leu Ile Ala Thr Gln Arg
1 5

<210> 4702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01

<400> 4702

Arg Asp Leu Ile Asn Gln Ser Gly Arg
1               5


<210> 4703
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*31:01,HLA-B*37:01

<400> 4703
Arg Asp Leu Ile Val Thr Gln Arg
1               5


<210> 4704
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-B*37:01

<400> 4704
Arg Asp Leu Val Ala Thr Glu Arg
1               5


<210> 4705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*23:01,HLA-A*24:02

<400> 4705
Arg Tyr Ser Thr Gly Lys Asn Thr Ile
1               5


<210> 4706
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -B*37:01

<400> 4706
Ser Asp Leu Ile Ala Thr Gln Arg
1               5


<210> 4707
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 4707
Ser Asp Asn Tyr Glu Ala Gln Ala Glu Lys
1               5                   10


<210> 4708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -C*06:02

<400> 4708
Ser Asp Arg Ser Gln Gly Gln Leu Lys
1               5


<210> 4709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -B*40:02

<400> 4709
Ser Glu Lys Val Pro Pro Asn His Pro
1               5


<210> 4710
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*40:02,HLA-C*04:01,HLA-C*06:02

<400> 4710
Ser Glu Lys Val Pro Pro Asn His Pro Ser
1 5 10

<210> 4711
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01

<400> 4711
Ser Glu Lys Val Pro Pro Asn His Pro Ser Arg
1 5 10

<210> 4712
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01

<400> 4712
Ser Leu Asp Asp Ile Ile Ile Tyr
1 5

<210> 4713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-A*68:02

<400> 4713
Ser Leu Asp Asp Ile Ile Ile Tyr Lys
1 5

<210> 4714
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*02:07

<400> 4714
Ser Leu Asp Asp Ile Ile Ile Tyr Lys Glu
1 5 10

<210> 4715
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*02:07

<400> 4715
Ser Leu Asp Asp Ile Ile Ile Tyr Lys Glu Leu
1 5 10

<210> 4716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*56:01

<400> 4716
Ser Pro Ser Arg Gln Gln Ser Lys Ala
1 5

<210> 4717
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*27:05,HLA-B*39:01

<400> 4717
Ser Gln Ser Asp Arg Ser Gln Gly Gln Leu
1 5 10

<210> 4718

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 4718
Ser Gln Ser Asp Arg Ser Gln Gly Gln Leu Lys
1 5 10

<210> 4719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -C*06:02

<400> 4719
Ser Arg Asn His Leu Glu Arg Ser Leu
1 5

<210> 4720
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*30:01,HLA-B*40:02,HLA-C*06:02

<400> 4720
Thr Glu Arg Asp Leu Ile Asn Gln Ser Gly
1 5 10

<210> 4721
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01

<400> 4721
Thr Glu Arg Asp Leu Ile Asn Gln Ser Gly Arg
1 5 10

<210> 4722
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -C*07:04

<400> 4722
Thr Gly Lys Asn Thr Ile Thr Thr
1 5

<210> 4723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-B*27:05

<400> 4723
Thr Gln Lys Asp Leu Ile Ala Thr Gln
1 5

<210> 4724
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 4724
Thr Gln Lys Asp Leu Ile Ala Thr Gln Arg
1 5 10

<210> 4725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*03:01,HLA-A*03:02,HLA-A*31:01

<400> 4725
Thr Gln Arg Asp Leu Ile Ala Thr Gln Lys

1 5 10

<210> 4726
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 4726
Thr Gln Arg Asp Leu Ile Ala Thr Gln Arg
1 5 10

<210> 4727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01

<400> 4727
Thr Gln Arg Asp Leu Ile Val Thr Gln
1 5

<210> 4728
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 4728
Thr Gln Arg Asp Leu Ile Val Thr Gln Arg
1 5 10

<210> 4729
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-C*07:06

<400> 4729
Thr Gln Arg Asp Leu Val Ala Thr Glu Arg
1               5                   10


<210> 4730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 4730
Thr Gln Ser Asp Leu Ile Ala Thr Gln
1               5


<210> 4731
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
      HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 4731
Thr Gln Ser Asp Leu Ile Ala Thr Gln Arg
1               5                   10


<210> 4732
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
      HLA -B*51:01,HLA-C*16:01

<400> 4732
Val Ala Thr Glu Arg Asp Leu Ile
1               5


<210> 4733
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*51:01

<400> 4733
Val Pro Pro Asn His Pro Ser Arg
1 5

<210> 4734
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*31:01,HLA-A*33:01,HLA-A*68:01

<400> 4734
Val Thr Gln Arg Asp Leu Val Ala Thr Glu Arg
1 5 10

<210> 4735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*07:02,HLA-B*44:02,HLA-B*44:03,HLA-C*06:02

<400> 4735
Tyr Glu Ala Gln Ala Glu Lys Asn Gln
1 5

<210> 4736
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*40:02,HLA-B*49:01

<400> 4736
Tyr Glu Ala Gln Ala Glu Lys Asn Gln Gly
1 5 10

<210> 4737
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -B*18:01

<400> 4737
Tyr Glu Arg Ser His Gly Gln Tyr
1 5

<210> 4738
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; LUZP4; ENSG00000102021;
HLA -A*32:01,HLA-B*08:01,HLA-C*16:02

<400> 4738
Tyr Ser Thr Gly Lys Asn Thr Ile
1 5

<210> 4739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*07:02,HLA-B*35:03,HLA-B*46:01,HLA-C*01:02,HLA-C*03:03,
HLA-C*03:04,HLA-C*07:02,HLA-C*14:02,HLA-C*16:01

<400> 4739
Ala Ala Thr Ser Ser Ser Ser Pro Leu
1 5

<210> 4740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -C*03:03,HLA-C*03:04

<400> 4740
Ala Ala Thr Ser Ser Ser Ser Pro Leu Val Leu
1 5 10

<210> 4741

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*37:01,HLA-B*40:02

<400> 4741
Ala Asp Leu Val Gly Phe Leu Leu
1 5

<210> 4742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*44:02

<400> 4742
Ala Asp Leu Val Gly Phe Leu Leu Leu
1 5

<210> 4743
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:02,HLA-B*15:03,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,
HLA-C*01:02,HLA-C*14:02

<400> 4743
Ala Asp Pro Thr Gly His Ser Tyr
1 5

<210> 4744
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*37:01

<400> 4744
Ala Asp Pro Thr Gly His Ser Tyr Val
1 5

<210> 4745
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*37:01

<400> 4745
Ala Asp Pro Thr Gly His Ser Tyr Val Leu
1 5 10

<210> 4746
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 4746
Ala Glu Met Leu Glu Ser Val Ile
1 5

<210> 4747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*44:02,HLA-B*49:01

<400> 4747
Ala Glu Met Leu Glu Ser Val Ile Lys Asn
1 5 10

<210> 4748
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-A*30:02,HLA-B*18:01,HLA-B*27:02,HLA-B*40:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 4748
Ala Glu Met Leu Glu Ser Val Ile Lys Asn Tyr
1               5                   10


<210> 4749
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*30:01,HLA-B*37:01,HLA-B*49:01

<400> 4749
Ala Glu Thr Ser Tyr Val Lys Val
1               5


<210> 4750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,
      HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
      HLA-C*02:02,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 4750
Ala Glu Thr Ser Tyr Val Lys Val Leu
1               5


<210> 4751
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-B*18:01,HLA-B*27:02,
      HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 4751
Ala Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr
1               5                   10


<210> 4752
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 4752
Ala Phe Pro Thr Thr Ile Asn Phe
1 5

<210> 4753
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 4753
Ala Leu Ala Glu Thr Ser Tyr Val
1 5

<210> 4754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*29:02,
HLA-A*68:01,HLA-B*13:02,HLA-B*27:05

<400> 4754
Ala Leu Ala Glu Thr Ser Tyr Val Lys
1 5

<210> 4755
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*55:01

<400> 4755
Ala Leu Ala Glu Thr Ser Tyr Val Lys Val
1 5 10

<210> 4756
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:03,HLA-A*02:04

<400> 4756
Ala Leu Ala Glu Thr Ser Tyr Val Lys Val Leu
1 5 10

<210> 4757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-B*55:01

<400> 4757
Ala Leu Gly Leu Val Cys Val Gln Ala
1 5

<210> 4758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*15:01,HLA-B*40:02,HLA-B*55:01,HLA-C*06:02,HLA-C*07:04

<400> 4758
Ala Leu Arg Glu Glu Glu Glu Gly Val
1 5

<210> 4759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 4759
Ala Gln Gln Glu Ala Leu Gly Leu Val

1 5

<210> 4760
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:04,HLA-A*30:01,HLA-B*13:02,HLA-B*15:01

<400> 4760
Ala Gln Gln Glu Ala Leu Gly Leu Val Cys Val
1 5 10

<210> 4761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:05,HLA-B*38:01

<400> 4761
Ala Arg Glu Pro Val Thr Lys Ala Glu Met
1 5 10

<210> 4762
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*57:01,HLA-B*58:01

<400> 4762
Ala Ser Ala Phe Pro Thr Thr Ile Asn Phe
1 5 10

<210> 4763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*11:01,HLA-A*29:02,HLA-B*57:01,HLA-B*58:01

<400> 4763
Ala Ser Glu Ser Leu Gln Leu Val Phe
1               5


<210> 4764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*01:01,HLA-A*02:01,HLA-A*03:02,HLA-A*11:01,HLA-B*13:02,
      HLA-B*27:05,HLA-B*39:01

<400> 4764
Ala Thr Ser Ser Ser Ser Pro Leu Val
1               5


<210> 4765
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*03:01,HLA-A*11:01

<400> 4765
Ala Thr Ser Ser Ser Ser Pro Leu Val Leu
1               5                   10


<210> 4766
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*11:01,HLA-A*31:01

<400> 4766
Ala Thr Ser Ser Ser Ser Pro Leu Val Leu Gly
1               5                   10


<210> 4767
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01

<400> 4767
Ala Val Ile Thr Lys Lys Val Ala
1 5

<210> 4768
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*24:02

<400> 4768
Ala Tyr Gly Glu Pro Arg Lys Leu
1 5

<210> 4769
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*24:02

<400> 4769
Ala Tyr Gly Glu Pro Arg Lys Leu Leu
1 5

<210> 4770
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:04

<400> 4770
Cys Ile Leu Glu Ser Leu Phe Arg Ala
1 5

<210> 4771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*38:01,HLA-B*51:01

<400> 4771
Asp Gly Leu Leu Gly Asp Asn Gln Ile
1 5

<210> 4772
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01,HLA-B*18:01

<400> 4772
Asp Gly Arg Glu His Ser Ala Tyr
1 5

<210> 4773
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 4773
Asp Leu Val Gly Phe Leu Leu Leu Lys Tyr
1 5 10

<210> 4774
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:01,
HLA-B*35:01

<400> 4774
Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr
1 5 10

<210> 4775

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*33:01

<400> 4775
Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg
1 5 10

<210> 4776
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*51:01

<400> 4776
Asp Pro Pro Gln Ser Pro Gln Gly
1 5

<210> 4777
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*51:01

<400> 4777
Asp Pro Thr Gly His Ser Tyr Val
1 5

<210> 4778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*51:01,HLA-B*55:01,HLA-C*07:02

<400> 4778
Asp Pro Thr Gly His Ser Tyr Val Leu
1 5

<210> 4779
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*25:01,HLA-A*32:01,HLA-A*33:01,HLA-B*18:01,
HLA-B*35:01,HLA-B*38:01,HLA-B*39:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*05:01

<400> 4779
Asp Ser Asp Pro Ala Arg Tyr Glu Phe
1 5

<210> 4780
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01

<400> 4780
Asp Ser Asp Pro Ala Arg Tyr Glu Phe Leu
1 5 10

<210> 4781
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 4781
Asp Val Lys Glu Ala Asp Pro Thr Gly His
1 5 10

<210> 4782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,

HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,

<220>
<223> HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*55:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,
HLA-C*05:01,HLA-C*07:04,HLA-C*07:06,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 4782
Glu Ala Asp Pro Thr Gly His Ser Tyr
1 5

<210> 4783
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*68:02,HLA-B*38:01,HLA-B*51:01,HLA-C*05:01

<400> 4783
Glu Ala Asp Pro Thr Gly His Ser Tyr Val
1 5 10

<210> 4784
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*68:01,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*55:01,HLA-C*03:04,
HLA-C*05:01,HLA-C*16:02

<400> 4784
Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu
1 5 10

<210> 4785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*54:01

<400> 4785

Glu Ala Leu Glu Ala Gln Gln Glu Ala
1               5


<210> 4786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*68:01,HLA-B*35:03

<400> 4786
Glu Ala Leu Glu Ala Gln Gln Glu Ala Leu
1               5                   10


<210> 4787
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*51:01

<400> 4787
Glu Ala Leu Gly Leu Val Cys Val
1               5


<210> 4788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*33:03,HLA-C*07:01

<400> 4788
Glu Ala Leu Gly Leu Val Cys Val Gln
1               5


<210> 4789
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*33:03,HLA-A*68:02,HLA-B*54:01

<400> 4789
Glu Ala Leu Gly Leu Val Cys Val Gln Ala
1               5                   10


<210> 4790
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*30:01,HLA-B*40:01

<400> 4790
Glu Glu Ala Leu Glu Ala Gln Gln Glu Ala Leu
1               5                   10


<210> 4791
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*39:01

<400> 4791
Glu Glu Glu Gly Pro Ser Thr Ser Cys
1               5


<210> 4792
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*40:01,HLA-B*49:01

<400> 4792
Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile
1               5                   10


<210> 4793
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*40:01

<400> 4793
Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu
1 5 10

<210> 4794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 4794
Glu Glu Gly Pro Ser Thr Ser Cys Ile
1 5

<210> 4795
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*40:01,HLA-B*44:03

<400> 4795
Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu
1 5 10

<210> 4796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*49:01

<400> 4796
Glu Glu Ile Trp Glu Glu Leu Ser Val
1 5

<210> 4797
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 4797
Glu Glu Leu Ser Val Met Glu Val
1 5

<210> 4798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*35:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 4798
Glu Glu Leu Ser Val Met Glu Val Tyr
1 5

<210> 4799
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*40:02

<400> 4799
Glu Glu Val Pro Thr Ala Gly Ser Thr
1 5

<210> 4800
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*51:01

<400> 4800
Glu Gly Pro Ser Thr Ser Cys Ile
1 5

<210> 4801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*33:03

<400> 4801
Glu His Ser Ala Tyr Gly Glu Pro Arg
1 5

<210> 4802
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01,HLA-A*26:01

<400> 4802
Glu Ile Phe Gly Lys Ala Ser Glu Ser Leu
1 5 10

<210> 4803
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*18:01

<400> 4803
Glu Leu Ser Val Met Glu Val Tyr
1 5

<210> 4804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*33:01,
HLA-A*33:03,HLA-B*44:02,HLA-B*44:03

<400> 4804
Glu Met Leu Glu Ser Val Ile Lys Asn Tyr

1 5 10

<210> 4805
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*33:03

<400> 4805
Glu Met Leu Glu Ser Val Ile Lys Asn Tyr Lys
1 5 10

<210> 4806
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 4806
Glu Pro Val Thr Lys Ala Glu Met
1 5

<210> 4807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 4807
Glu Pro Val Thr Lys Ala Glu Met Leu
1 5

<210> 4808
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01

<400> 4808
Glu Ser Leu Phe Arg Ala Val Ile
1               5


<210> 4809
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*33:03

<400> 4809
Glu Ser Leu Phe Arg Ala Val Ile Thr Lys
1               5                   10


<210> 4810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*33:01,HLA-A*68:02,HLA-C*07:01

<400> 4810
Glu Ser Leu Gln Leu Val Phe Gly Ile
1               5


<210> 4811
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*68:02

<400> 4811
Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val
1               5                   10


<210> 4812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;

HLA -A*68:02

<400> 4812
Glu Thr Ser Tyr Val Lys Val Leu Glu
1 5

<210> 4813
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*44:03

<400> 4813
Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr
1 5 10

<210> 4814
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*68:02

<400> 4814
Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val
1 5 10

<210> 4815
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*08:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 4815
Glu Val Tyr Asp Gly Arg Glu His Ser Ala
1 5 10

<210> 4816
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,
HLA-B*35:01

<400> 4816
Glu Val Tyr Asp Gly Arg Glu His Ser Ala Tyr
1 5 10

<210> 4817
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01

<400> 4817
Glu Tyr Val Ile Lys Val Ser Ala
1 5

<210> 4818
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*26:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 4818
Glu Tyr Val Ile Lys Val Ser Ala Arg
1 5

<210> 4819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:03,HLA-B*54:01

<400> 4819
Phe Phe Phe Pro Ser Leu Arg Glu Ala

1 5

<210> 4820
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*29:02

<400> 4820
Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu
1 5 10

<210> 4821
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01,HLA-B*46:01

<400> 4821
Phe Gly Lys Ala Ser Glu Ser Leu
1 5

<210> 4822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 4822
Phe Leu Ile Ile Val Leu Val Met Ile
1 5

<210> 4823
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:04

<400> 4823
Phe Leu Trp Gly Pro Arg Ala Leu
1               5


<210> 4824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:07

<400> 4824
Phe Leu Trp Gly Pro Arg Ala Leu Ala
1               5


<210> 4825
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 4825
Phe Leu Trp Gly Pro Arg Ala Leu Ala Glu Thr
1               5                   10


<210> 4826
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*54:01,HLA-B*56:01

<400> 4826
Phe Pro Glu Ile Phe Gly Lys Ala
1               5


<210> 4827
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;

HLA -B*54:01,HLA-B*56:01

<400> 4827
Phe Pro Ser Leu Arg Glu Ala Ala
1 5

<210> 4828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,HLA-C*16:01

<400> 4828
Phe Pro Ser Leu Arg Glu Ala Ala Leu
1 5

<210> 4829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*54:01,HLA-B*56:01

<400> 4829
Phe Pro Thr Thr Ile Asn Phe Thr
1 5

<210> 4830
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*27:02,HLA-B*35:01,
HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*07:06

<400> 4830
Phe Pro Thr Thr Ile Asn Phe Thr Arg
1 5

<210> 4831
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*54:01

<400> 4831
Phe Pro Thr Thr Ile Asn Phe Thr Arg Gln
1 5 10

<210> 4832
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:05

<400> 4832
Phe Arg Ala Val Ile Thr Lys Lys
1 5

<210> 4833
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*68:02,HLA-C*06:02

<400> 4833
Phe Arg Ala Val Ile Thr Lys Lys Val
1 5

<210> 4834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:03,HLA-B*13:02,HLA-B*49:01,HLA-B*51:01,HLA-C*02:02,
HLA-C*12:03,HLA-C*16:02

<400> 4834
Gly Ala Ser Ala Phe Pro Thr Thr Ile
1 5

<210> 4835
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*11:01,HLA-B*27:02

<400> 4835
Gly Asp Asn Gln Ile Met Pro Lys
1 5

<210> 4836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*23:01,HLA-A*29:02

<400> 4836
Gly Phe Leu Ile Ile Val Leu Val Met
1 5

<210> 4837
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*38:01

<400> 4837
Gly His Ala Pro Glu Glu Glu Ile
1 5

<210> 4838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*38:01

<400> 4838
Gly His Ala Pro Glu Glu Glu Ile Trp

1 5

<210> 4839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*38:01

<400> 4839
Gly His Ser Tyr Val Leu Val Thr Cys Leu
1 5 10

<210> 4840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*15:03

<400> 4840
Gly Lys Ala Ser Glu Ser Leu Gln Leu
1 5

<210> 4841
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*15:03

<400> 4841
Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe
1 5 10

<210> 4842
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:04,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*31:01,HLA-B*27:02,HLA-B*27:05

<400> 4842
Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys
1               5                   10


<210> 4843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*30:02,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
      HLA-B*55:01

<400> 4843
Gly Pro Arg Ala Leu Ala Glu Thr Ser Tyr
1               5                   10


<210> 4844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 4844
Gly Thr Leu Glu Glu Val Pro Thr Ala
1               5


<210> 4845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 4845
His Cys Phe Pro Glu Ile Phe Gly Lys
1               5


<210> 4846
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*68:01

<400> 4846
His Ser Ala Tyr Gly Glu Pro Arg
1 5

<210> 4847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -C*03:04

<400> 4847
Ile Ala Met Glu Gly Gly His Ala Pro
1 5

<210> 4848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -C*14:02

<400> 4848
Ile Phe Gly Lys Ala Ser Glu Ser Leu
1 5

<210> 4849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 4849
Ile Leu Glu Ser Leu Phe Arg Ala Val
1 5

<210> 4850
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:07,HLA-A*24:02

<400> 4850
Ile Met Pro Lys Thr Gly Phe Leu Ile
1 5

<210> 4851
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*24:02

<400> 4851
Ile Met Pro Lys Thr Gly Phe Leu Ile Ile
1 5 10

<210> 4852
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*57:01

<400> 4852
Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe
1 5 10

<210> 4853
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:02

<400> 4853
Lys Ala Glu Met Leu Glu Ser Val Ile Lys
1 5 10

<210> 4854

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -C*03:04

<400> 4854
Lys Ala Ser Glu Ser Leu Gln Leu
1 5

<210> 4855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*58:01,HLA-C*16:02

<400> 4855
Lys Ala Ser Glu Ser Leu Gln Leu Val
1 5

<210> 4856
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-B*27:02,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*16:04

<400> 4856
Lys Ala Ser Glu Ser Leu Gln Leu Val Phe
1 5 10

<210> 4857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*03:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,

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<223> HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 4857
Lys Glu Ala Asp Pro Thr Gly His Ser Tyr
1 5 10

<210> 4858
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*40:01,HLA-B*49:01

<400> 4858
Lys Glu Ala Asp Pro Thr Gly His Ser Tyr Val
1 5 10

<210> 4859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*15:03

<400> 4859
Lys Lys Val Ala Asp Leu Val Gly Phe
1 5

<210> 4860
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 4860
Lys Leu Leu Thr Gln Asp Leu Val Gln Glu Lys
1 5 10

<210> 4861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*32:01,HLA-A*68:02,HLA-B*27:05,HLA-B*58:01

<400> 4861
Lys Val Ala Asp Leu Val Gly Phe Leu
1 5

<210> 4862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*31:01,
HLA-A*68:02,HLA-B*57:01

<400> 4862
Lys Val Ala Asp Leu Val Gly Phe Leu Leu
1 5 10

<210> 4863
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01

<400> 4863
Lys Val Ala Asp Leu Val Gly Phe Leu Leu Leu
1 5 10

<210> 4864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*40:02,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,

<220>
<223> HLA-C*02:02,HLA-C*06:02

<400> 4864
Lys Val Leu Glu Tyr Val Ile Lys Val
1               5


<210> 4865
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*02:01,HLA-B*54:01,HLA-B*56:01

<400> 4865
Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala
1               5                   10


<210> 4866
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*27:02

<400> 4866
Leu Ala Glu Thr Ser Tyr Val Lys
1               5


<210> 4867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -C*05:01

<400> 4867
Leu Ala Glu Thr Ser Tyr Val Lys Val
1               5


<210> 4868
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;

HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*49:01

<400> 4868
Leu Glu Ala Gln Gln Glu Ala Leu
1 5

<210> 4869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*40:01

<400> 4869
Leu Glu Ala Gln Gln Glu Ala Leu Gly Leu
1 5 10

<210> 4870
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*49:01

<400> 4870
Leu Glu Ala Gln Gln Glu Ala Leu Gly Leu Val
1 5 10

<210> 4871
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*18:01,HLA-B*37:01,HLA-B*49:01

<400> 4871
Leu Glu Ser Leu Phe Arg Ala Val
1 5

<210> 4872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*44:02,HLA-B*49:01

<400> 4872
Leu Glu Ser Leu Phe Arg Ala Val Ile
1 5

<210> 4873
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-C*12:03,
HLA-C*16:04

<400> 4873
Leu Glu Ser Val Ile Lys Asn Tyr
1 5

<210> 4874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01,HLA-B*54:01,HLA-B*56:01

<400> 4874
Leu Glu Tyr Val Ile Lys Val Ser Ala
1 5

<210> 4875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 4875
Leu Gly Asp Asn Gln Ile Met Pro Lys
1 5

<210> 4876

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*38:01

<400> 4876
Leu His Cys Lys Pro Glu Glu Ala Leu
1 5

<210> 4877
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 4877
Leu Leu Gly Asp Asn Gln Ile Met Pro Lys
1 5 10

<210> 4878
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:02

<400> 4878
Leu Leu Thr Gln Asp Leu Val Gln Glu Lys
1 5 10

<210> 4879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*13:02

<400> 4879
Leu Gln Leu Val Phe Gly Ile Asp Val
1 5

<210> 4880
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:02

<400> 4880
Leu Ser Val Met Glu Val Tyr Asp Gly Arg
1 5 10

<210> 4881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 4881
Leu Thr Gln Asp Leu Val Gln Glu Lys
1 5

<210> 4882
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 4882
Leu Thr Gln Asp Leu Val Gln Glu Lys Tyr
1 5 10

<210> 4883
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:02

<400> 4883
Leu Val Phe Gly Ile Asp Val Lys
1               5


<210> 4884
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*27:05

<400> 4884
Leu Val Phe Gly Ile Asp Val Lys Glu
1               5


<210> 4885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*01:01,HLA-A*29:02

<400> 4885
Leu Val Gly Phe Leu Leu Leu Lys Tyr
1               5


<210> 4886
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*55:01

<400> 4886
Leu Val Leu Gly Thr Leu Glu Glu Val
1               5


<210> 4887
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;

HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-A*33:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,

<220>
<223> HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,
HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02

<400> 4887
Leu Val Gln Glu Lys Tyr Leu Glu Tyr
1 5

<210> 4888
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*31:01,HLA-A*33:01

<400> 4888
Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg
1 5 10

<210> 4889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 4889
Leu Val Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 4890
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*40:02,HLA-B*54:01

<400> 4890
Met Glu Val Tyr Asp Gly Arg Glu His Ser Ala
1 5 10

<210> 4891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*44:02,

<220>
<223> HLA-B*44:03,HLA-C*06:02,HLA-C*07:01,HLA-C*07:04,HLA-C*16:02

<400> 4891
Met Leu Glu Ser Val Ile Lys Asn Tyr
1 5

<210> 4892
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02

<400> 4892
Met Leu Glu Ser Val Ile Lys Asn Tyr Lys
1 5 10

<210> 4893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01,HLA-B*51:01

<400> 4893
Met Pro Lys Thr Gly Phe Leu Ile
1 5

<210> 4894
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*51:01,HLA-B*54:01

<400> 4894
Met Pro Lys Thr Gly Phe Leu Ile Ile
1 5

<210> 4895
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*54:01

<400> 4895
Met Pro Lys Thr Gly Phe Leu Ile Ile Val
1 5 10

<210> 4896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*46:01,HLA-C*07:04,HLA-C*16:04

<400> 4896
Asn Gln Ile Met Pro Lys Thr Gly Phe
1 5

<210> 4897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*24:02

<400> 4897
Asn Tyr Lys His Cys Phe Pro Glu Ile
1 5

<210> 4898
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*15:03,HLA-B*27:02,HLA-C*07:01

<400> 4898
Pro Arg Ala Leu Ala Glu Thr Ser Tyr
1 5

<210> 4899
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*07:02,HLA-C*07:01,HLA-C*07:02

<400> 4899
Pro Thr Gly His Ser Tyr Val Leu
1 5

<210> 4900
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:02

<400> 4900
Pro Thr Thr Ile Asn Phe Thr Arg
1 5

<210> 4901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*35:03,HLA-C*03:03,HLA-C*03:04

<400> 4901
Gln Ala Ala Thr Ser Ser Ser Ser Pro Leu
1 5 10

<210> 4902
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*15:03,HLA-B*18:01,HLA-B*37:01,HLA-C*07:01

<400> 4902
Gln Asp Leu Val Gln Glu Lys Tyr
1 5

<210> 4903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*13:02,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 4903
Gln Glu Ala Leu Gly Leu Val Cys Val
1 5

<210> 4904
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*08:01,HLA-B*37:01

<400> 4904
Gln Ile Met Pro Lys Thr Gly Phe
1 5

<210> 4905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:02

<400> 4905
Gln Leu Val Phe Gly Ile Asp Val Lys
1 5

<210> 4906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*68:01

<400> 4906
Gln Pro Ser Glu Gly Ser Ser Ser Arg
1 5

<210> 4907
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-B*13:02,HLA-C*04:01

<400> 4907
Gln Gln Glu Ala Leu Gly Leu Val Cys Val
1 5 10

<210> 4908
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:05

<400> 4908
Gln Arg Gln Pro Ser Glu Gly Ser Ser Ser Arg
1 5 10

<210> 4909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*46:01,HLA-C*01:02

<400> 4909

Gln Ser Pro Gln Gly Ala Ser Ala Phe
1               5


<210> 4910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*68:01

<400> 4910
Gln Val Pro Asp Ser Asp Pro Ala Arg
1               5


<210> 4911
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 4911
Gln Val Pro Asp Ser Asp Pro Ala Arg Tyr
1               5                   10


<210> 4912
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*03:02,HLA-B*27:02

<400> 4912
Arg Ala Leu Ala Glu Thr Ser Tyr Val Lys
1               5                   10


<210> 4913
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*03:01,HLA-B*57:01

<400> 4913
Arg Ala Arg Glu Pro Val Thr Lys
1               5


<210> 4914
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*32:01,HLA-B*07:02,HLA-B*54:01,HLA-B*56:01

<400> 4914
Arg Ala Arg Glu Pro Val Thr Lys Ala
1               5


<210> 4915
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 4915
Arg Glu Glu Glu Gly Pro Ser Thr Ser Cys
1               5                   10


<210> 4916
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*40:01,HLA-B*49:01

<400> 4916
Arg Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile
1               5                   10


<210> 4917
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03

<400> 4917
Arg Glu Pro Val Thr Lys Ala Glu Met
1 5

<210> 4918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 4918
Arg Glu Pro Val Thr Lys Ala Glu Met Leu
1 5 10

<210> 4919
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*31:01

<400> 4919
Arg Phe Phe Phe Pro Ser Leu Arg
1 5

<210> 4920
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*57:01,HLA-B*58:01

<400> 4920
Arg Gln Val Pro Asp Ser Asp Pro Ala Arg Tyr
1 5 10

<210> 4921
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:04

<400> 4921
Arg Val Arg Phe Phe Phe Pro Ser Leu
1 5

<210> 4922
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*31:01

<400> 4922
Arg Val Arg Phe Phe Phe Pro Ser Leu Arg
1 5 10

<210> 4923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:01,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,

<220>
<223> HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*07:02,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,
HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*51:01,

<220>
<223> HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,
HLA-C*05:01,HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,
HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 4923
Ser Ala Phe Pro Thr Thr Ile Asn Phe
1 5

<210> 4924
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:02,HLA-A*11:01,HLA-A*29:02,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*57:01,HLA-C*02:02,
HLA-C*07:06

<400> 4924
Ser Ala Phe Pro Thr Thr Ile Asn Phe Thr Arg
1 5 10

<210> 4925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:01,HLA-B*15:03,HLA-B*51:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*06:02,HLA-C*12:03,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 4925
Ser Ala Tyr Gly Glu Pro Arg Lys Leu
1 5

<210> 4926
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*37:01

<400> 4926
Ser Asp Pro Ala Arg Tyr Glu Phe
1 5

<210> 4927
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,

HLA-B*49:01

<400> 4927
Ser Glu Ser Leu Gln Leu Val Phe
1 5

<210> 4928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:03,HLA-A*02:04,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*31:01

<400> 4928
Ser Leu Phe Arg Ala Val Ile Thr Lys
1 5

<210> 4929
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:01,HLA-A*03:02

<400> 4929
Ser Leu Phe Arg Ala Val Ile Thr Lys Lys
1 5 10

<210> 4930
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:04,HLA-B*37:01

<400> 4930
Ser Leu Gln Leu Val Phe Gly Ile
1 5

<210> 4931
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*07:02,HLA-B*08:01

<400> 4931
Ser Pro Leu Val Leu Gly Thr Leu
1 5

<210> 4932
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*56:01

<400> 4932
Ser Pro Leu Val Leu Gly Thr Leu Glu Glu Val
1 5 10

<210> 4933
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*07:02

<400> 4933
Ser Pro Gln Gly Ala Ser Ala Phe
1 5

<210> 4934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:07,HLA-B*46:01,HLA-C*01:02

<400> 4934
Ser Ser Pro Leu Val Leu Gly Thr Leu
1 5

<210> 4935
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*25:01

<400> 4935
Ser Ser Ser Pro Leu Val Leu Gly Thr Leu
1 5 10

<210> 4936
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -C*03:03,HLA-C*03:04,HLA-C*16:01

<400> 4936
Ser Ser Ser Ser Pro Leu Val Leu
1 5

<210> 4937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*11:01

<400> 4937
Ser Thr Asp Pro Pro Gln Ser Pro Gln
1 5

<210> 4938
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01

<400> 4938
Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly
1 5 10

<210> 4939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*68:02

<400> 4939
Ser Thr Ser Cys Ile Leu Glu Ser Leu
1 5

<210> 4940
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*03:02,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*31:01,
HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-C*07:06

<400> 4940
Ser Val Met Glu Val Tyr Asp Gly Arg
1 5

<210> 4941
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*35:03,HLA-B*38:01,HLA-C*04:01

<400> 4941
Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile
1 5 10

<210> 4942
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*46:01,HLA-C*07:01,HLA-C*14:02

<400> 4942

Ser Tyr Val Lys Val Leu Glu Tyr
1 5

<210> 4943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*24:02

<400> 4943
Ser Tyr Val Lys Val Leu Glu Tyr Val
1 5

<210> 4944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*23:01,HLA-A*24:02

<400> 4944
Ser Tyr Val Lys Val Leu Glu Tyr Val Ile
1 5 10

<210> 4945
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 4945
Ser Tyr Val Leu Val Thr Cys Leu
1 5

<210> 4946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*68:02,HLA-B*51:01

<400> 4946
Thr Gly Phe Leu Ile Ile Val Leu Val
1               5


<210> 4947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*38:01,HLA-B*39:01,
      HLA-B*44:02,HLA-B*44:03,HLA-B*58:01,HLA-C*04:01,HLA-C*05:01,

<220>
<223> HLA-C*16:04

<400> 4947
Thr Gln Asp Leu Val Gln Glu Lys Tyr
1               5


<210> 4948
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*38:01

<400> 4948
Thr Gln Asp Leu Val Gln Glu Lys Tyr Leu
1               5                   10


<210> 4949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*01:01,HLA-A*03:01,HLA-A*23:01,HLA-A*25:01,HLA-A*30:01,
      HLA-A*68:01,HLA-A*68:02,HLA-B*07:02,HLA-B*13:02,HLA-B*27:05,
      HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,

<220>
<223> HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
      HLA-C*05:01,HLA-C*06:02,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,
      HLA-C*16:02

<400> 4949
Thr Ser Ser Ser Ser Pro Leu Val Leu
1               5


<210> 4950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,
      HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,
      HLA-B*08:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,

<220>
<223> HLA-B*27:02,HLA-B*35:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,
      HLA-B*46:01,HLA-B*51:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,
      HLA-C*02:02,HLA-C*03:03,HLA-C*07:01,HLA-C*07:04,HLA-C*07:06,
      HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 4950
Thr Ser Tyr Val Lys Val Leu Glu Tyr
1               5


<210> 4951
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*68:02

<400> 4951
Thr Ser Tyr Val Lys Val Leu Glu Tyr Val
1               5                   10


<210> 4952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 4952
Thr Thr Ile Asn Phe Thr Arg Gln Arg
1               5

<210> 4953
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -C*04:01,HLA-C*05:01

<400> 4953
Val Ala Asp Leu Val Gly Phe Leu
1 5

<210> 4954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*02:07,HLA-A*23:01,HLA-B*38:01,HLA-C*03:04,
HLA-C*05:01

<400> 4954
Val Ala Asp Leu Val Gly Phe Leu Leu
1 5

<210> 4955
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*02:07

<400> 4955
Val Ala Asp Leu Val Gly Phe Leu Leu Leu
1 5 10

<210> 4956
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -C*07:01

<400> 4956
Val Gly Phe Leu Leu Leu Lys Tyr
1               5


<210> 4957
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*08:01

<400> 4957
Val Ile Lys Val Ser Ala Arg Val
1               5


<210> 4958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*08:01

<400> 4958
Val Ile Thr Lys Lys Val Ala Asp Leu
1               5


<210> 4959
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -B*15:03

<400> 4959
Val Lys Glu Ala Asp Pro Thr Gly His Ser Tyr
1               5                   10


<210> 4960
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;

HLA -A*02:07

<400> 4960
Val Leu Glu Tyr Val Ile Lys Val Ser Ala
1 5 10

<210> 4961
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03

<400> 4961
Val Leu Gly Thr Leu Glu Glu Val
1 5

<210> 4962
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*29:02

<400> 4962
Val Leu Val Thr Cys Leu Gly Leu Ser Tyr
1 5 10

<210> 4963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*55:01,HLA-C*03:03,HLA-C*05:01

<400> 4963
Val Pro Asp Ser Asp Pro Ala Arg Tyr
1 5

<210> 4964
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*24:02,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,
HLA-C*03:03,HLA-C*05:01,HLA-C*07:02

<400> 4964
Val Pro Asp Ser Asp Pro Ala Arg Tyr Glu Phe
1 5 10

<210> 4965
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:05,HLA-C*07:04

<400> 4965
Val Gln Ala Ala Thr Ser Ser Ser Ser Pro Leu
1 5 10

<210> 4966
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-C*07:01

<400> 4966
Val Gln Glu Lys Tyr Leu Glu Tyr
1 5

<210> 4967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*57:01

<400> 4967
Val Ser Ala Arg Val Arg Phe Phe Phe
1 5

<210> 4968

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01

<400> 4968
Val Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 4969
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-C*04:01

<400> 4969
Val Tyr Asp Gly Arg Glu His Ser Ala Tyr
1 5 10

<210> 4970
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*49:01

<400> 4970
Trp Glu Glu Leu Ser Val Met Glu Val
1 5

<210> 4971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*01:01,HLA-A*29:02,HLA-C*07:01

<400> 4971
Tyr Asp Gly Arg Glu His Ser Ala Tyr
1 5

<210> 4972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:04

<400> 4972
Tyr Glu Phe Leu Trp Gly Pro Arg Ala
1 5

<210> 4973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -B*27:02,HLA-B*27:05,HLA-B*39:01

<400> 4973
Tyr Arg Ala Arg Glu Pro Val Thr Lys
1 5

<210> 4974
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*26:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*08:01,HLA-B*18:01,HLA-B*40:02

<400> 4974
Tyr Val Ile Lys Val Ser Ala Arg
1 5

<210> 4975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*26:01,
HLA-A*68:02,HLA-B*13:02,HLA-B*27:05

<400> 4975
Tyr Val Ile Lys Val Ser Ala Arg Val
1               5


<210> 4976
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*02:03

<400> 4976
Tyr Val Lys Val Leu Glu Tyr Val
1               5


<210> 4977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA1; ENSG00000198681;
      HLA -A*02:04,HLA-A*24:02,HLA-A*68:02,HLA-B*08:01,HLA-B*13:02,
      HLA-B*40:02,HLA-B*51:01,HLA-B*57:01

<400> 4977
Tyr Val Lys Val Leu Glu Tyr Val Ile
1               5


<210> 4978
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*30:01

<400> 4978
Ala Cys Ser Ser Pro Ser Val Val Ala Ser Leu
1               5                   10


<210> 4979
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 4979
Ala Glu Ile Leu Glu Ser Val Ile
1 5

<210> 4980
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-A*30:02,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*57:01,HLA-C*16:04

<400> 4980
Ala Glu Ile Leu Glu Ser Val Ile Arg Asn Tyr
1 5 10

<210> 4981
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*37:01,HLA-B*40:02

<400> 4981
Ala Glu Ile Arg Lys Met Ser Leu
1 5

<210> 4982
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 4982
Ala Glu Ile Arg Lys Met Ser Leu Leu
1 5

<210> 4983
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*15:03

<400> 4983
Ala Lys Val Asn Gly Ser Asp Pro Arg Ser Phe
1 5 10

<210> 4984
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:02

<400> 4984
Ala Leu Asn Met Met Gly Leu Tyr
1 5

<210> 4985
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:03,HLA-A*32:01,HLA-B*55:01

<400> 4985
Ala Met Ala Ser Ala Ser Ser Ser Ala
1 5

<210> 4986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*56:01

<400> 4986
Ala Pro Leu Ala Val Glu Glu Asp Ala
1 5

<210> 4987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*27:05

<400> 4987
Ala Gln Ala Pro Leu Ala Val Glu Glu
1 5

<210> 4988
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*13:02

<400> 4988
Ala Gln Ile Ala Cys Ser Ser Pro Ser Val
1 5 10

<210> 4989
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*46:01,HLA-B*58:01

<400> 4989
Ala Ser Ala Ser Ser Ser Ala Thr Gly Ser Phe
1 5 10

<210> 4990
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*37:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*03:04,HLA-C*05:01

<400> 4990
Ala Ser Ser Ser Ala Thr Gly Ser Phe
1               5


<210> 4991
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-A*32:01,HLA-B*58:01,HLA-C*16:04

<400> 4991
Ala Ser Ser Ser Ala Thr Gly Ser Phe Ser Tyr
1               5                   10


<210> 4992
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*30:02,HLA-A*32:01

<400> 4992
Ala Ser Ser Ser Thr Ser Thr Ser Ser Ser Phe
1               5                   10


<210> 4993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:01,HLA-B*39:01,
      HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
      HLA-C*12:03,HLA-C*16:02

<400> 4993
Ala Thr Thr Asp Asp Thr Thr Ala Met
1               5


<210> 4994
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*39:01

<400> 4994
Asp Asp Glu Thr Pro Asn Pro Pro Gln Ser Ala
1 5 10

<210> 4995
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*18:01,HLA-B*49:01

<400> 4995
Asp Glu Lys Val Thr Asp Leu Val
1 5

<210> 4996
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*18:01,HLA-B*44:02

<400> 4996
Asp Glu Lys Val Thr Asp Leu Val Gln Phe
1 5 10

<210> 4997
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*18:01

<400> 4997
Asp Glu Thr Pro Asn Pro Pro Gln
1 5

<210> 4998
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*18:01

<400> 4998
Asp Glu Thr Pro Asn Pro Pro Gln Ser Ala
1 5 10

<210> 4999
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*08:01,HLA-B*18:01,HLA-B*35:01

<400> 4999
Asp Gly Met Glu His Leu Ile Tyr
1 5

<210> 5000
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01

<400> 5000
Asp Gly Met Leu Ser Asp Val Gln Ser Met
1 5 10

<210> 5001
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01

<400> 5001
Asp Pro Thr Gly His Ser Phe Val
1 5

<210> 5002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*08:01,HLA-B*35:01,HLA-B*35:03

<400> 5002
Asp Pro Thr Gly His Ser Phe Val Leu
1 5

<210> 5003
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*26:01,HLA-A*33:01,HLA-A*68:01

<400> 5003
Asp Val Lys Glu Val Asp Pro Thr Gly His
1 5 10

<210> 5004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*33:03

<400> 5004
Glu Ala Leu Lys Asp Glu Glu Glu Arg
1 5

<210> 5005
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01

<400> 5005
Glu Ala Leu Asn Met Met Gly Leu
1 5

<210> 5006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-B*35:01

<400> 5006
Glu Ala Leu Asn Met Met Gly Leu Tyr
1 5

<210> 5007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*68:02,HLA-B*51:01

<400> 5007
Glu Ala Ser Glu Cys Met Leu Leu Val
1 5

<210> 5008
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -C*07:01

<400> 5008
Glu Asp His Phe Pro Leu Leu Phe
1 5

<210> 5009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5009
Glu Glu Ser Pro Ser Thr Leu Gln Val
1               5


<210> 5010
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*25:01,HLA-A*30:01,HLA-B*27:02,HLA-B*38:01,HLA-B*39:01,
      HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 5010
Glu Glu Ser Pro Ser Thr Leu Gln Val Leu
1               5                   10


<210> 5011
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*18:01

<400> 5011
Glu Glu Val Ile Trp Glu Ala Leu
1               5


<210> 5012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*13:02,HLA-B*51:01

<400> 5012
Glu Gly Ala Gln Ala Pro Leu Ala Val
1               5


<210> 5013
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*33:01,HLA-A*33:03

<400> 5013
Glu His Leu Ile Tyr Gly Glu Pro Arg
1 5

<210> 5014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:07,HLA-C*05:01

<400> 5014
Glu Ile Asp Glu Lys Val Thr Asp Leu
1 5

<210> 5015
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*33:03

<400> 5015
Glu Ile Leu Glu Ser Val Ile Arg
1 5

<210> 5016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*33:01,
HLA-A*33:03,HLA-B*44:02,HLA-B*44:03

<400> 5016
Glu Ile Leu Glu Ser Val Ile Arg Asn Tyr
1 5 10

<210> 5017
<211> 9
<212> PRT

<213> Homo sapiens

<220>
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HLA -A*23:01

<400> 5017
Glu Lys Val Thr Asp Leu Val Gln Phe
1 5

<210> 5018
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*08:01,HLA-B*51:01

<400> 5018
Glu Pro Ile Thr Lys Ala Glu Ile
1 5

<210> 5019
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 5019
Glu Pro Ile Thr Lys Ala Glu Ile Leu
1 5

<210> 5020
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*33:01

<400> 5020
Glu Ser Leu Pro Arg Ser Glu Ile Asp Glu Lys
1 5 10

<210> 5021

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01

<400> 5021
Glu Ser Pro Ser Thr Leu Gln Val Leu
1 5

<210> 5022
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*33:03

<400> 5022
Glu Thr Pro Asn Pro Pro Gln Ser Ala
1 5

<210> 5023
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*26:01,HLA-A*68:02

<400> 5023
Glu Thr Pro Asn Pro Pro Gln Ser Ala Gln Ile
1 5 10

<210> 5024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,

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<223> HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,

HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*55:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,
HLA-C*07:04,HLA-C*07:06,HLA-C*16:04

<400> 5024
Glu Val Asp Pro Thr Gly His Ser Phe
1 5

<210> 5025
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*26:01,HLA-A*68:02

<400> 5025
Glu Val Asp Pro Thr Gly His Ser Phe Val
1 5 10

<210> 5026
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*02:07,HLA-A*68:02,HLA-B*35:03,HLA-B*38:01

<400> 5026
Glu Val Asp Pro Thr Gly His Ser Phe Val Leu
1 5 10

<210> 5027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01,HLA-A*26:01

<400> 5027
Glu Val Ile Trp Glu Ala Leu Asn Met
1 5

<210> 5028
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01,HLA-A*26:01

<400> 5028
Glu Val Ile Trp Glu Ala Leu Asn Met Met
1 5 10

<210> 5029
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01

<400> 5029
Phe Gly Ile Asp Val Lys Glu Val
1 5

<210> 5030
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01,HLA-A*02:07

<400> 5030
Phe Leu Trp Gly Pro Arg Ala His Ala Glu Ile
1 5 10

<210> 5031
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 5031
Phe Pro Leu Leu Phe Ser Glu Ala
1 5

<210> 5032

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01

<400> 5032
Phe Pro Leu Leu Phe Ser Glu Ala Ser
1 5

<210> 5033
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01

<400> 5033
Phe Pro Leu Leu Phe Ser Glu Ala Ser Glu Cys
1 5 10

<210> 5034
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01

<400> 5034
Phe Pro Leu Trp Tyr Glu Glu Ala
1 5

<210> 5035
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01

<400> 5035
Phe Pro Leu Trp Tyr Glu Glu Ala Leu
1 5

<210> 5036
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01

<400> 5036
Phe Pro Ser Ser Phe Pro Ser Ser
1 5

<210> 5037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01,HLA-B*56:01

<400> 5037
Phe Pro Ser Ser Phe Pro Ser Ser Ser
1 5

<210> 5038
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01,HLA-B*56:01

<400> 5038
Phe Pro Ser Ser Phe Pro Ser Ser Ser Ser
1 5 10

<210> 5039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*39:01

<400> 5039
Phe Pro Ser Ser Ser Ser Ser Ser Ser

1 5

<210> 5040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -C*05:01

<400> 5040
Phe Ser Glu Ala Ser Glu Cys Met Leu
1 5

<210> 5041
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*29:02

<400> 5041
Phe Val Leu Val Thr Ser Leu Gly Leu Thr Tyr
1 5 10

<210> 5042
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*38:01

<400> 5042
Gly His Ser Phe Val Leu Val Thr Ser Leu
1 5 10

<210> 5043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,

HLA-B*40:01,HLA-B*46:01,HLA-B*55:01,HLA-C*02:02

<400> 5043
Gly Leu Tyr Asp Gly Met Glu His Leu
1 5

<210> 5044
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*30:01,HLA-B*13:02,HLA-B*55:01

<400> 5044
Gly Leu Tyr Asp Gly Met Glu His Leu Ile
1 5 10

<210> 5045
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*03:01,HLA-A*29:02

<400> 5045
Gly Leu Tyr Asp Gly Met Glu His Leu Ile Tyr
1 5 10

<210> 5046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01,HLA-A*02:04,HLA-A*23:01,HLA-A*32:01,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*37:01,HLA-B*46:01,
HLA-B*55:01,HLA-B*58:01,HLA-C*01:02,HLA-C*14:02

<400> 5046
Gly Met Leu Ser Asp Val Gln Ser Met
1 5

<210> 5047
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:05

<400> 5047
Gly Met Leu Ser Asp Val Gln Ser Met Pro Lys
1 5 10

<210> 5048
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*07:02

<400> 5048
Gly Pro Arg Ala His Ala Glu Ile
1 5

<210> 5049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*38:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*05:01,HLA-C*16:01

<400> 5049
Gly Ser Asp Pro Ala Arg Tyr Glu Phe
1 5

<210> 5050
<211> 11
<212> PRT
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<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*57:01

<400> 5050
Gly Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp
1 5 10

<210> 5051
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01

<400> 5051
Gly Ser Asp Pro Arg Ser Phe Pro Leu
1 5

<210> 5052
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*57:01

<400> 5052
Gly Ser Asp Pro Arg Ser Phe Pro Leu Trp
1 5 10

<210> 5053
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01

<400> 5053
Gly Ser Asp Pro Arg Ser Phe Pro Leu Trp Tyr
1 5 10

<210> 5054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*08:01

<400> 5054
His Ala Glu Ile Arg Lys Met Ser Leu

1 5

<210> 5055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-A*68:02,HLA-B*08:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*35:01,HLA-B*40:02,HLA-B*46:01,HLA-B*58:01

<400> 5055
His Ser Phe Val Leu Val Thr Ser Leu
1 5

<210> 5056
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01

<400> 5056
Ile Ala Cys Ser Ser Pro Ser Val
1 5

<210> 5057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01,HLA-C*12:03

<400> 5057
Ile Ala Cys Ser Ser Pro Ser Val Val
1 5

<210> 5058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*35:03

<400> 5058
Ile Ala Thr Thr Asp Asp Thr Thr Ala
1               5


<210> 5059
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*55:01,HLA-C*03:03,
      HLA-C*03:04,HLA-C*05:01

<400> 5059
Ile Ala Thr Thr Asp Asp Thr Thr Ala Met
1               5                   10


<210> 5060
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*37:01

<400> 5060
Ile Asp Glu Lys Val Thr Asp Leu
1               5


<210> 5061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*29:02,
      HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*44:02,
      HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,

<220>
<223> HLA-C*07:04,HLA-C*16:01,HLA-C*16:02

<400> 5061
Ile Leu Glu Ser Val Ile Arg Asn Tyr
1               5

<210> 5062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01,HLA-A*02:04

<400> 5062
Ile Leu Ile Leu Ser Ile Val Phe Ile
1 5

<210> 5063
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01

<400> 5063
Ile Leu Ser Ile Val Phe Ile Glu Gly Tyr
1 5 10

<210> 5064
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 5064
Ile Pro Ser Thr Pro Glu Glu Val Ser Ala
1 5 10

<210> 5065
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*23:01,HLA-A*24:02,HLA-C*06:02

<400> 5065
Ile Tyr Gly Glu Pro Arg Lys Leu
1 5

<210> 5066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*24:02

<400> 5066
Ile Tyr Gly Glu Pro Arg Lys Leu Leu
1 5

<210> 5067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*40:01

<400> 5067
Lys Glu Glu Ser Pro Ser Thr Leu
1 5

<210> 5068
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*40:01,HLA-B*49:01

<400> 5068
Lys Glu Glu Ser Pro Ser Thr Leu Gln Val
1 5 10

<210> 5069
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5069

Lys Glu Glu Ser Pro Ser Thr Leu Gln Val Leu
1               5                   10


<210> 5070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*49:01

<400> 5070
Lys Glu Pro Ile Thr Lys Ala Glu Ile
1               5


<210> 5071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*40:01

<400> 5071
Lys Glu Pro Ile Thr Lys Ala Glu Ile Leu
1               5                   10


<210> 5072
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*30:01,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
      HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,

<220>
<223> HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,HLA-B*58:01,
      HLA-C*02:02,HLA-C*16:04

<400> 5072
Lys Glu Val Asp Pro Thr Gly His Ser Phe
1               5                   10


<210> 5073
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*49:01

<400> 5073
Lys Glu Val Asp Pro Thr Gly His Ser Phe Val
1 5 10

<210> 5074
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*03:02,HLA-A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01,
HLA-B*58:01

<400> 5074
Lys Val Asn Gly Ser Asp Pro Arg Ser Phe
1 5 10

<210> 5075
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*32:01

<400> 5075
Lys Val Thr Asp Leu Val Gln Phe
1 5

<210> 5076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*24:02,
HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*27:05,
HLA-B*58:01

<400> 5076
Lys Val Thr Asp Leu Val Gln Phe Leu

1 5

<210> 5077
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:04

<400> 5077
Lys Val Thr Asp Leu Val Gln Phe Leu Leu
1 5 10

<210> 5078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*49:01

<400> 5078
Leu Glu Gly Ala Gln Ala Pro Leu Ala
1 5

<210> 5079
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-B*49:01

<400> 5079
Leu Glu Gly Ala Gln Ala Pro Leu Ala Val
1 5 10

<210> 5080
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:02,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 5080
Leu Glu Ser Val Ile Arg Asn Tyr
1               5


<210> 5081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*02:01,HLA-A*02:07

<400> 5081
Leu Ile Pro Ser Thr Pro Glu Glu Val
1               5


<210> 5082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*03:01

<400> 5082
Leu Ile Tyr Gly Glu Pro Arg Lys Leu
1               5


<210> 5083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*02:01

<400> 5083
Leu Leu Phe Ser Glu Ala Ser Glu Cys
1               5


<210> 5084
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;

HLA -A*02:01

<400> 5084
Leu Leu Phe Ser Glu Ala Ser Glu Cys Met Leu
1 5 10

<210> 5085
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 5085
Leu Gln Ser Gln Ser Glu Thr Gln Gly Leu
1 5 10

<210> 5086
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*39:01

<400> 5086
Leu Gln Val Leu Pro Asp Ser Glu Ser Leu
1 5 10

<210> 5087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5087
Leu Ser Asp Val Gln Ser Met Pro Lys
1 5

<210> 5088
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*30:02,HLA-B*46:01,HLA-B*57:01

<400> 5088
Leu Ser Ile Val Phe Ile Glu Gly Tyr
1 5

<210> 5089
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01,
HLA-B*58:01

<400> 5089
Leu Thr Gln Asp Trp Val Gln Glu Asn Tyr
1 5 10

<210> 5090
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -C*04:01

<400> 5090
Leu Thr Gln Asp Trp Val Gln Glu Asn Tyr Leu
1 5 10

<210> 5091
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:03,HLA-A*68:02

<400> 5091
Leu Thr Tyr Asp Gly Met Leu Ser Asp Val
1 5 10

<210> 5092
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 5092
Leu Val Phe Gly Ile Asp Val Lys Glu Val
1 5 10

<210> 5093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*29:02

<400> 5093
Leu Val Gln Phe Leu Leu Phe Lys Tyr
1 5

<210> 5094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*35:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:04,

<220>
<223> HLA-C*16:01

<400> 5094
Leu Val Thr Ser Leu Gly Leu Thr Tyr
1 5

<210> 5095
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -C*04:01

<400> 5095
Leu Tyr Asp Gly Met Glu His Leu
1               5


<210> 5096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-B*35:01,HLA-B*35:03,
      HLA-B*38:01,HLA-C*04:01

<400> 5096
Leu Tyr Asp Gly Met Glu His Leu Ile
1               5


<210> 5097
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*29:02

<400> 5097
Leu Tyr Asp Gly Met Glu His Leu Ile Tyr
1               5                   10


<210> 5098
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*54:01

<400> 5098
Met Ala Ser Ala Ser Ser Ser Ala
1               5


<210> 5099
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*40:02

<400> 5099
Met Glu His Leu Ile Tyr Gly Glu Pro
1 5

<210> 5100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01,HLA-A*02:04

<400> 5100
Met Leu Leu Val Phe Gly Ile Asp Val
1 5

<210> 5101
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*37:01

<400> 5101
Met Leu Ser Asp Val Gln Ser Met
1 5

<210> 5102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,
HLA-B*27:02,HLA-B*27:05,HLA-C*06:02,HLA-C*07:01

<400> 5102
Met Leu Ser Asp Val Gln Ser Met Pro Lys
1 5 10

<210> 5103
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*03:03

<400> 5103
Met Pro Glu Glu Asp Leu Gln Ser Gln
1 5

<210> 5104
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*08:01,HLA-B*51:01,HLA-B*54:01

<400> 5104
Met Pro Lys Thr Gly Ile Leu Ile
1 5

<210> 5105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01,HLA-C*07:02

<400> 5105
Met Pro Lys Thr Gly Ile Leu Ile Leu
1 5

<210> 5106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*03:01

<400> 5106
Met Ser Leu Leu Lys Phe Leu Ala Lys
1 5

<210> 5107
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -C*16:01

<400> 5107
Asn Gly Ser Asp Pro Arg Ser Phe
1 5

<210> 5108
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*51:01

<400> 5108
Asn Pro Pro Gln Ser Ala Gln Ile
1 5

<210> 5109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*23:01,HLA-A*24:02

<400> 5109
Asn Tyr Glu Asp His Phe Pro Leu Leu
1 5

<210> 5110
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*24:02,HLA-A*29:02

<400> 5110
Asn Tyr Glu Asp His Phe Pro Leu Leu Phe
1 5 10

<210> 5111
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*27:02

<400> 5111
Pro Asp Ser Glu Ser Leu Pro Arg
1 5

<210> 5112
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:03

<400> 5112
Pro Leu Ile Pro Ser Thr Pro Glu Glu Val
1 5 10

<210> 5113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01

<400> 5113
Gln Asp Trp Val Gln Glu Asn Tyr Leu
1 5

<210> 5114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:01

<400> 5114

Gln Ile Ala Cys Ser Ser Pro Ser Val
1               5


<210> 5115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*39:01

<400> 5115
Gln Lys Glu Glu Ser Pro Ser Thr Leu
1               5


<210> 5116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*02:03,HLA-B*55:01

<400> 5116
Gln Met Lys Glu Pro Ile Thr Lys Ala
1               5


<210> 5117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*01:01

<400> 5117
Gln Ser Asp Glu Gly Ser Ser Ser Gln Lys
1               5                   10


<210> 5118
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*08:01

<400> 5118
Gln Ser Met Pro Lys Thr Gly Ile
1               5


<210> 5119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*08:01

<400> 5119
Gln Ser Met Pro Lys Thr Gly Ile Leu
1               5


<210> 5120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*15:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01

<400> 5120
Gln Val Leu Pro Asp Ser Glu Ser Leu
1               5


<210> 5121
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
      HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 5121
Gln Val Leu Pro Asp Ser Glu Ser Leu Pro Arg
1               5                   10


<210> 5122
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 5122
Gln Val Pro Gly Ser Asp Pro Ala Arg Tyr
1 5 10

<210> 5123
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*15:01

<400> 5123
Arg Ile Ala Thr Thr Asp Asp Thr Thr Ala Met
1 5 10

<210> 5124
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*57:01

<400> 5124
Arg Asn Tyr Glu Asp His Phe Pro Leu Leu Phe
1 5 10

<210> 5125
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*58:01

<400> 5125
Arg Gln Val Pro Gly Ser Asp Pro Ala Arg Tyr
1 5 10

<210> 5126
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*07:02

<400> 5126
Ser Ala Ser Ser Ser Ala Thr Gly Ser Phe
1 5 10

<210> 5127
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:02,HLA-B*15:01,HLA-B*35:01,HLA-B*39:01,HLA-B*58:01,
HLA-C*16:01

<400> 5127
Ser Ala Thr Gly Ser Phe Ser Tyr
1 5

<210> 5128
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*37:01

<400> 5128
Ser Asp Pro Ala Arg Tyr Glu Phe
1 5

<210> 5129
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*24:02

<400> 5129
Ser Asp Pro Arg Ser Phe Pro Leu Trp
1 5

<210> 5130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 5130
Ser Glu Ala Ser Glu Cys Met Leu Leu
1 5

<210> 5131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*49:01

<400> 5131
Ser Glu Ala Ser Glu Cys Met Leu Leu Val
1 5 10

<210> 5132
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*18:01

<400> 5132
Ser Glu Cys Met Leu Leu Val Phe
1 5

<210> 5133
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 5133

Ser Glu Ile Asp Glu Lys Val Thr Asp Leu
1               5                   10


<210> 5134
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*49:01

<400> 5134
Ser Glu Ile Asp Glu Lys Val Thr Asp Leu Val
1               5                   10


<210> 5135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5135
Ser Glu Ser Leu Pro Arg Ser Glu Ile
1               5


<210> 5136
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*23:01,HLA-C*14:02

<400> 5136
Ser Phe Val Leu Val Thr Ser Leu
1               5


<210> 5137
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*15:01

<400> 5137
Ser Ile Val Phe Ile Glu Gly Tyr
1               5


<210> 5138
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*03:01

<400> 5138
Ser Leu Leu Lys Phe Leu Ala Lys
1               5


<210> 5139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5139
Ser Leu Leu Lys Phe Leu Ala Lys Val
1               5


<210> 5140
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*07:02

<400> 5140
Ser Pro Ser Thr Leu Gln Val Leu
1               5


<210> 5141
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*07:02,HLA-B*08:01,HLA-B*37:01,HLA-B*56:01,HLA-C*07:02

<400> 5141
Ser Pro Ser Val Val Ala Ser Leu
1 5

<210> 5142
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*07:02

<400> 5142
Ser Pro Ser Val Val Ala Ser Leu Pro Leu
1 5 10

<210> 5143
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*15:01

<400> 5143
Ser Gln Lys Glu Glu Ser Pro Ser Thr Leu
1 5 10

<210> 5144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*35:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:01,

<220>
<223> HLA-C*16:02

<400> 5144
Ser Ser Ala Thr Gly Ser Phe Ser Tyr
1 5

<210> 5145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:07,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02,
HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*14:02

<400> 5145
Ser Ser Pro Ser Val Val Ala Ser Leu
1 5

<210> 5146
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 5146
Ser Ser Ser Ala Thr Gly Ser Phe Ser Tyr
1 5 10

<210> 5147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:02

<400> 5147
Ser Ser Ser Ser Ser Ser Cys Tyr
1 5

<210> 5148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*26:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 5148

Ser Ser Ser Ser Ser Ser Ser Cys Tyr
1               5


<210> 5149
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*30:02

<400> 5149
Ser Ser Ser Ser Ser Ser Ser Ser Cys Tyr
1               5                   10


<210> 5150
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*30:02

<400> 5150
Ser Ser Ser Ser Ser Ser Ser Ser Ser Cys Tyr
1               5                   10


<210> 5151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*46:01,HLA-B*58:01,HLA-C*16:01

<400> 5151
Ser Ser Thr Ser Thr Ser Ser Ser Phe
1               5


<210> 5152
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;

HLA -A*25:01,HLA-A*26:01,HLA-A*30:02

<400> 5152
Ser Thr Ser Ser Ser Phe Pro Ser Ser Phe
1 5 10

<210> 5153
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*32:01

<400> 5153
Ser Thr Ser Thr Ser Ser Ser Phe
1 5

<210> 5154
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01,HLA-B*56:01

<400> 5154
Thr Ala Met Ala Ser Ala Ser Ser Ser Ala
1 5 10

<210> 5155
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*37:01

<400> 5155
Thr Asp Leu Val Gln Phe Leu Leu
1 5

<210> 5156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*68:02

<400> 5156
Thr Lys Ala Glu Ile Leu Glu Ser Val
1 5

<210> 5157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01,HLA-B*56:01

<400> 5157
Thr Pro Glu Glu Val Ile Trp Glu Ala
1 5

<210> 5158
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*35:03

<400> 5158
Thr Pro Glu Glu Val Ile Trp Glu Ala Leu
1 5 10

<210> 5159
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*56:01

<400> 5159
Thr Pro Asn Pro Pro Gln Ser Ala
1 5

<210> 5160
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*07:02,HLA-B*51:01,HLA-B*56:01,HLA-C*07:02

<400> 5160
Thr Pro Asn Pro Pro Gln Ser Ala Gln Ile
1 5 10

<210> 5161
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*54:01,HLA-B*56:01

<400> 5161
Thr Pro Asn Pro Pro Gln Ser Ala Gln Ile Ala
1 5 10

<210> 5162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*38:01

<400> 5162
Thr Gln Asp Trp Val Gln Glu Asn Tyr
1 5

<210> 5163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*38:01

<400> 5163
Thr Gln Asp Trp Val Gln Glu Asn Tyr Leu
1 5 10

<210> 5164

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 5164
Thr Gln Gly Leu Glu Gly Ala Gln Ala Pro Leu
1 5 10

<210> 5165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*37:01,
HLA-C*02:02,HLA-C*16:01

<400> 5165
Thr Ser Ser Ser Phe Pro Ser Ser Phe
1 5

<210> 5166
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*32:01,HLA-B*35:03,HLA-C*04:01,HLA-C*05:01

<400> 5166
Thr Thr Asp Asp Thr Thr Ala Met
1 5

<210> 5167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01

<400> 5167
Thr Thr Asp Asp Thr Thr Ala Met Ala
1 5

<210> 5168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*35:01,HLA-B*35:03,HLA-C*04:01,HLA-C*05:01

<400> 5168
Thr Tyr Asp Gly Met Leu Ser Asp Val
1 5

<210> 5169
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*32:01,HLA-B*37:01,HLA-C*01:02

<400> 5169
Val Asp Pro Thr Gly His Ser Phe
1 5

<210> 5170
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:01

<400> 5170
Val Glu Glu Asp Ala Ser Ser Ser Thr Ser Thr
1 5 10

<210> 5171
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*15:03

<400> 5171

Val Lys Glu Val Asp Pro Thr Gly His Ser Phe
1               5                   10


<210> 5172
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -C*01:02

<400> 5172
Val Leu Pro Asp Ser Glu Ser Leu
1               5


<210> 5173
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*02:07

<400> 5173
Val Leu Pro Asp Ser Glu Ser Leu Pro Arg Ser
1               5                   10


<210> 5174
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
      HLA-B*58:01

<400> 5174
Val Leu Val Thr Ser Leu Gly Leu Thr Tyr
1               5                   10


<210> 5175
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -C*16:01

<400> 5175
Val Asn Gly Ser Asp Pro Arg Ser Phe
1 5

<210> 5176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*30:02,HLA-B*35:01,HLA-B*55:01

<400> 5176
Val Pro Gly Ser Asp Pro Ala Arg Tyr
1 5

<210> 5177
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*35:01

<400> 5177
Val Pro Gly Ser Asp Pro Ala Arg Tyr Glu Phe
1 5 10

<210> 5178
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-B*39:01

<400> 5178
Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 5179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*32:01,HLA-B*13:02,HLA-B*38:01

<400> 5179
Val Gln Ser Met Pro Lys Thr Gly Ile
1 5

<210> 5180
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-C*04:01,HLA-C*05:01

<400> 5180
Val Thr Asp Leu Val Gln Phe Leu
1 5

<210> 5181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*02:07

<400> 5181
Val Thr Asp Leu Val Gln Phe Leu Leu
1 5

<210> 5182
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01

<400> 5182
Val Thr Asp Leu Val Gln Phe Leu Leu Phe
1 5 10

<210> 5183
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*29:02,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,
HLA-C*14:02,HLA-C*16:01

<400> 5183
Val Thr Ser Leu Gly Leu Thr Tyr
1 5

<210> 5184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*15:01,HLA-B*35:01

<400> 5184
Trp Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 5185
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -B*38:01,HLA-C*07:01,HLA-C*07:04

<400> 5185
Tyr Asp Gly Met Glu His Leu Ile
1 5

<210> 5186
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:07,HLA-B*49:01

<400> 5186
Tyr Glu Asp His Phe Pro Leu Leu
1 5

<210> 5187
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*02:07,HLA-A*24:02,HLA-A*29:02,HLA-B*18:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5187
Tyr Glu Asp His Phe Pro Leu Leu Phe
1 5

<210> 5188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*02:04

<400> 5188
Tyr Glu Phe Leu Trp Gly Pro Arg Ala
1 5

<210> 5189
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*68:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 5189
Tyr Pro Leu Ile Pro Ser Thr Pro Glu Glu Val
1 5 10

<210> 5190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
HLA -A*01:01,HLA-A*02:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-B*13:02,HLA-B*27:05,HLA-B*38:01

<400> 5190
Tyr Gln Met Lys Glu Pro Ile Thr Lys
1               5


<210> 5191
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -A*02:03

<400> 5191
Tyr Gln Met Lys Glu Pro Ile Thr Lys Ala
1               5                   10


<210> 5192
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA10; ENSG00000124260;
      HLA -B*27:05

<400> 5192
Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Arg
1               5                   10


<210> 5193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*08:01,HLA-B*46:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,
      HLA-C*12:03

<400> 5193
Ala Ala Phe Phe Ser Ser Thr Leu
1               5


<210> 5194
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*37:01

<400> 5194
Ala Asp Leu Thr Arg Val Ile Met
1 5

<210> 5195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*37:01

<400> 5195
Ala Asp Leu Thr Arg Val Ile Met Pro
1 5

<210> 5196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*27:02,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 5196
Ala Glu Glu Gln Glu Ala Ala Phe Phe
1 5

<210> 5197
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5197
Ala Glu Met Leu Gly Ser Val Ile
1 5

<210> 5198

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*44:02

<400> 5198
Ala Glu Met Leu Gly Ser Val Ile Lys Asn
1 5 10

<210> 5199
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-A*30:02,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 5199
Ala Glu Met Leu Gly Ser Val Ile Lys Asn Tyr
1 5 10

<210> 5200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01

<400> 5200
Ala Glu Ser Pro Ser Pro Pro Gln Ser Pro
1 5 10

<210> 5201
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*49:01

<400> 5201
Ala Glu Thr Ser Lys Met Lys Val
1 5

<210> 5202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 5202
Ala Glu Thr Ser Lys Met Lys Val Leu
1 5

<210> 5203
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*44:02

<400> 5203
Ala Glu Thr Ser Lys Met Lys Val Leu Glu Tyr
1 5 10

<210> 5204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*13:02

<400> 5204
Ala Phe Phe Ser Ser Thr Leu Asn Val
1 5

<210> 5205
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*15:01

<400> 5205
Ala Leu Gln Ala Glu Glu Gln Glu Ala Ala Phe
1               5                   10


<210> 5206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*07:02,
      HLA-B*13:02,HLA-B*15:01,HLA-B*40:02,HLA-B*46:01,HLA-B*55:01,
      HLA-C*06:02

<400> 5206
Ala Leu Arg Glu Glu Gly Glu Gly Val
1               5


<210> 5207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*01:01,HLA-A*02:07,HLA-A*32:01,HLA-C*02:02,HLA-C*05:01

<400> 5207
Ala Met Asp Ala Ile Phe Gly Ser Leu
1               5


<210> 5208
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*30:02,HLA-C*12:03

<400> 5208
Ala Asn Ala Asn Gly Arg Asp Pro Thr Ser Tyr
1               5                   10


<210> 5209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:02

<400> 5209
Ala Asn Gly Arg Asp Pro Thr Ser Tyr
1 5

<210> 5210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*33:01,HLA-A*33:03

<400> 5210
Ala Asn Leu Glu Asp Arg Ser Pro Arg
1 5

<210> 5211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-B*07:02,HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*51:01,HLA-B*54:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*07:02

<400> 5211
Ala Pro Tyr Gly Pro Gln Leu Gln Trp
1 5

<210> 5212
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:07

<400> 5212
Cys Ile Pro Glu Glu Val Met Trp Glu Val
1 5 10

<210> 5213

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*33:01,HLA-A*68:01

<400> 5213
Asp Asp Phe Gln Ser Thr Glu Arg
1 5

<210> 5214
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*18:01

<400> 5214
Asp Asp Phe Gln Ser Thr Glu Arg Ala Pro Tyr
1 5 10

<210> 5215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01

<400> 5215
Asp Phe Gly Leu Gln Val Ser Thr Met Phe
1 5 10

<210> 5216
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:02

<400> 5216
Asp Phe Gln Ser Thr Glu Arg Ala Pro Tyr
1 5 10

<210> 5217
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01

<400> 5217
Asp Leu Ile Asp Pro Glu Ser Phe
1 5

<210> 5218
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*08:01,HLA-B*51:01

<400> 5218
Asp Leu Pro Arg Val Gln Val Phe
1 5

<210> 5219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*33:01,HLA-A*33:03

<400> 5219
Asp Leu Pro Arg Val Gln Val Phe Arg
1 5

<210> 5220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*35:03

<400> 5220
Asp Pro Glu Ser Phe Ser Gln Asp Ile Leu

1 5 10

<210> 5221
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*51:01

<400> 5221
Asp Pro Thr Ser His Ser Tyr Val
1 5

<210> 5222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*51:01,HLA-C*07:02

<400> 5222
Asp Pro Thr Ser His Ser Tyr Val Leu
1 5

<210> 5223
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 5223
Asp Pro Thr Ser Tyr Pro Ser Leu
1 5

<210> 5224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*26:01,HLA-B*18:01,HLA-B*35:01

<400> 5224
Asp Pro Thr Ser Tyr Pro Ser Leu Tyr
1               5


<210> 5225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*51:01

<400> 5225
Asp Ser Gly Asp Phe Gly Leu Gln Val
1               5


<210> 5226
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*68:01

<400> 5226
Asp Val Lys Glu Val Asp Pro Thr Ser His
1               5                   10


<210> 5227
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*54:01

<400> 5227
Asp Tyr Phe Pro Glu Ile Phe Arg Glu Ala
1               5                   10


<210> 5228
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*07:02,HLA-B*08:01,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-B*51:01,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*07:06,HLA-C*12:03,HLA-C*16:04

<400> 5228
Glu Ala Ala Phe Phe Ser Ser Thr Leu
1 5

<210> 5229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*33:03,HLA-A*68:01

<400> 5229
Glu Asp Asp Phe Gln Ser Thr Glu Arg
1 5

<210> 5230
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*44:02,HLA-C*07:01

<400> 5230
Glu Asp Leu Gly Leu Val Gly Ala Gln Ala Leu
1 5 10

<210> 5231
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*33:01,HLA-A*68:02

<400> 5231
Glu Asp Tyr Phe Pro Glu Ile Phe Arg
1 5

<210> 5232
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*49:01

<400> 5232
Glu Glu Asp Leu Gly Leu Val Gly Ala
1 5

<210> 5233
<211> 9
<212> PRT
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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*40:02

<400> 5233
Glu Glu Leu Pro Ala Ala Glu Ser Pro
1 5

<210> 5234
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02

<400> 5234
Glu Glu Gln Glu Ala Ala Phe Phe
1 5

<210> 5235
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*18:01

<400> 5235
Glu Glu Ser Phe Ser Pro Thr Ala

1 5

<210> 5236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*44:03

<400> 5236
Glu Glu Ser Phe Ser Pro Thr Ala Met
1 5

<210> 5237
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*26:01

<400> 5237
Glu Ile Phe Arg Glu Ala Ser Val Cys Met
1 5 10

<210> 5238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*33:01,
HLA-A*33:03,HLA-B*44:02,HLA-B*44:03

<400> 5238
Glu Met Leu Gly Ser Val Ile Lys Asn Tyr
1 5 10

<210> 5239
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;

HLA -B*38:01

<400> 5239
Glu Gln Glu Ala Ala Phe Phe Ser Ser Thr Leu
1 5 10

<210> 5240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*38:01,HLA-B*39:01

<400> 5240
Glu Gln Ser Met Pro Lys Ser Gly Leu
1 5

<210> 5241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01,HLA-C*06:02

<400> 5241
Glu Arg Ala Pro Tyr Gly Pro Gln Leu
1 5

<210> 5242
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*26:01

<400> 5242
Glu Ser Phe Ser Pro Thr Ala Met
1 5

<210> 5243
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*68:01

<400> 5243
Glu Ser Phe Ser Gln Asp Ile Leu His Asp Lys
1 5 10

<210> 5244
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01

<400> 5244
Glu Thr Ser Lys Met Lys Val Leu Glu Tyr
1 5 10

<210> 5245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*38:01,HLA-B*39:01,

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<223> HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,
HLA-C*03:03,HLA-C*05:01,HLA-C*07:04,HLA-C*07:06,HLA-C*16:02,
HLA-C*16:04

<400> 5245
Glu Val Asp Pro Thr Ser His Ser Tyr
1 5

<210> 5246
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*26:01,HLA-A*68:02,HLA-C*05:01

<400> 5246

Glu Val Asp Pro Thr Ser His Ser Tyr Val
1               5                   10


<210> 5247
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*01:01,HLA-A*02:07,HLA-A*68:02,HLA-B*35:03,HLA-B*38:01,
      HLA-B*39:01

<400> 5247
Glu Val Asp Pro Thr Ser His Ser Tyr Val Leu
1               5                   10


<210> 5248
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*26:01

<400> 5248
Glu Val Leu Ser Ile Met Gly Val
1               5


<210> 5249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*33:01,
      HLA-A*33:03,HLA-B*35:01,HLA-B*44:03,HLA-C*07:06

<400> 5249
Glu Val Leu Ser Ile Met Gly Val Tyr
1               5


<210> 5250
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*26:01,HLA-A*68:02,HLA-B*54:01

<400> 5250
Glu Val Leu Ser Ile Met Gly Val Tyr Ala
1 5 10

<210> 5251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 5251
Glu Val Met Trp Glu Val Leu Ser Ile
1 5

<210> 5252
<211> 10
<212> PRT
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<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*26:01

<400> 5252
Glu Val Met Trp Glu Val Leu Ser Ile Met
1 5 10

<210> 5253
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 5253
Glu Tyr Ile Ala Asn Ala Asn Gly Arg
1 5

<210> 5254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*46:01,HLA-B*49:01,HLA-B*51:01,HLA-C*16:02

<400> 5254
Phe Gly Ile Asp Val Lys Glu Val
1 5

<210> 5255
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*08:01,HLA-B*46:01,HLA-B*51:01,HLA-C*14:02

<400> 5255
Phe Gly Leu Gln Val Ser Thr Met
1 5

<210> 5256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01

<400> 5256
Phe Gly Leu Gln Val Ser Thr Met Phe
1 5

<210> 5257
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5257
Phe Leu Phe Gly Glu Pro Lys Arg Leu
1 5

<210> 5258
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 5258
Phe Leu Phe Gly Glu Pro Lys Arg Leu Leu
1 5 10

<210> 5259
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01

<400> 5259
Phe Leu Phe Gly Glu Pro Lys Arg Leu Leu Thr
1 5 10

<210> 5260
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 5260
Phe Pro Glu Ile Phe Arg Glu Ala
1 5

<210> 5261
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*54:01,HLA-B*56:01

<400> 5261
Phe Pro Glu Ile Phe Arg Glu Ala Ser Val
1 5 10

<210> 5262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 5262
Phe Pro Thr Val Arg Pro Ala Asp Leu
1 5

<210> 5263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*46:01,HLA-C*02:02,HLA-C*07:04,HLA-C*16:01

<400> 5263
Phe Gln Ser Thr Glu Arg Ala Pro Tyr
1 5

<210> 5264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -C*01:02

<400> 5264
Phe Ser Pro Thr Ala Met Asp Ala Ile
1 5

<210> 5265
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*11:01,HLA-A*33:01

<400> 5265
Phe Ser Gln Asp Ile Leu His Asp Lys

1 5

<210> 5266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,
HLA-B*27:05,HLA-C*07:06

<400> 5266
Gly Cys Ser Pro Ala Ser Ile Lys Arg
1 5

<210> 5267
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 5267
Gly Cys Ser Pro Ala Ser Ile Lys Arg Lys
1 5 10

<210> 5268
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*40:02

<400> 5268
Gly Asp Phe Gly Leu Gln Val Ser Thr Met
1 5 10

<210> 5269
<211> 11
<212> PRT
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<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*44:02

<400> 5269
Gly Glu Pro Lys Arg Leu Leu Thr Gln Asn Trp
1               5                   10


<210> 5270
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 5270
Gly Ile Gln Cys Asn Glu Gln Ser Met Pro Lys
1               5                   10


<210> 5271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*02:01,HLA-A*02:03

<400> 5271
Gly Leu Gly Cys Ser Pro Ala Ser Ile
1               5


<210> 5272
<211> 10
<212> PRT
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<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*03:01,HLA-A*03:02

<400> 5272
Gly Leu Gly Cys Ser Pro Ala Ser Ile Lys
1               5                   10


<210> 5273
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<212> PRT
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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*08:01

<400> 5273
Gly Leu Ile Thr Lys Ala Glu Met
1 5

<210> 5274
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*08:01

<400> 5274
Gly Leu Ile Thr Lys Ala Glu Met Leu
1 5

<210> 5275
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02

<400> 5275
Gly Leu Leu Ile Ile Val Leu Gly Val
1 5

<210> 5276
<211> 8
<212> PRT
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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*15:01

<400> 5276
Gly Leu Gln Val Ser Thr Met Phe
1 5

<210> 5277
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*55:01,HLA-B*56:01

<400> 5277
Gly Pro Ile Thr Gln Ile Phe Pro Thr Val
1 5 10

<210> 5278
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*07:02

<400> 5278
Gly Pro Arg Ala His Ala Glu Thr Ser Lys
1 5 10

<210> 5279
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*07:02

<400> 5279
Gly Pro Arg Ala His Ala Glu Thr Ser Lys Met
1 5 10

<210> 5280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:05

<400> 5280
Gly Arg Asp Pro Thr Ser Tyr Pro Ser
1 5

<210> 5281
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<212> PRT
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<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 5281
Gly Arg Asp Pro Thr Ser Tyr Pro Ser Leu
1 5 10

<210> 5282
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01

<400> 5282
Gly Arg Asp Pro Thr Ser Tyr Pro Ser Leu Tyr
1 5 10

<210> 5283
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01

<400> 5283
Gly Thr Asp Pro Ala Cys Tyr Glu Phe
1 5

<210> 5284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01

<400> 5284
Gly Thr Leu Glu Glu Leu Pro Ala Ala
1 5

<210> 5285
<211> 9
<212> PRT
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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*32:01,HLA-B*15:01

<400> 5285
Gly Val Tyr Ala Gly Arg Glu His Phe
1 5

<210> 5286
<211> 10
<212> PRT
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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*03:01

<400> 5286
Gly Val Tyr Ala Gly Arg Glu His Phe Leu
1 5 10

<210> 5287
<211> 11
<212> PRT
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<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*29:02

<400> 5287
Gly Val Tyr Ala Gly Arg Glu His Phe Leu Phe
1 5 10

<210> 5288
<211> 8
<212> PRT
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<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*37:01,HLA-B*40:02

<400> 5288
His Asp Lys Ile Ile Asp Leu Val
1 5

<210> 5289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-A*30:01,HLA-A*32:01,HLA-A*68:02,HLA-B*08:01,
HLA-B*13:02,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*39:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,HLA-B*58:01,

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<223> HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03

<400> 5289
His Ser Tyr Val Leu Val Thr Ser Leu
1 5

<210> 5290
<211> 8
<212> PRT
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<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*37:01

<400> 5290
Ile Asp Leu Val His Leu Leu Leu
1 5

<210> 5291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:07,HLA-C*05:01

<400> 5291
Ile Ile Asp Leu Val His Leu Leu
1 5

<210> 5292
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*02:07

<400> 5292
Ile Ile Asp Leu Val His Leu Leu Leu
1 5

<210> 5293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*08:01

<400> 5293
Ile Leu His Asp Lys Ile Ile Asp Leu
1 5

<210> 5294
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5294
Ile Leu His Asp Lys Ile Ile Asp Leu Val
1 5 10

<210> 5295
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*35:03,HLA-B*54:01

<400> 5295
Ile Pro Glu Glu Val Met Trp Glu Val
1 5

<210> 5296
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*35:03

<400> 5296
Ile Pro Glu Glu Val Met Trp Glu Val Leu
1 5 10

<210> 5297
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5297
Ile Gln Cys Asn Glu Gln Ser Met Pro Lys
1 5 10

<210> 5298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*57:01,HLA-B*58:01

<400> 5298
Ile Thr Gly Gly Glu Gln Val Leu Trp
1 5

<210> 5299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 5299
Ile Thr Gln Ile Phe Pro Thr Val Arg
1 5

<210> 5300

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*40:01

<400> 5300
Lys Glu Gly Pro Ser Thr Ser Pro Asp Leu
1 5 10

<210> 5301
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*40:01,HLA-B*49:01

<400> 5301
Lys Glu Gly Pro Ser Thr Ser Pro Asp Leu Ile
1 5 10

<210> 5302
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,

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<223> HLA-B*49:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:01,HLA-C*16:02,
HLA-C*16:04

<400> 5302
Lys Glu Val Asp Pro Thr Ser His Ser Tyr
1 5 10

<210> 5303
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;

HLA -B*40:01,HLA-B*49:01

<400> 5303
Lys Glu Val Asp Pro Thr Ser His Ser Tyr Val
1 5 10

<210> 5304
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:04,HLA-A*02:07

<400> 5304
Lys Ile Ile Asp Leu Val His Leu
1 5

<210> 5305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,HLA-B*57:01,
HLA-B*58:01

<400> 5305
Lys Ile Ile Asp Leu Val His Leu Leu
1 5

<210> 5306
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 5306
Lys Ile Ile Asp Leu Val His Leu Leu Leu
1 5 10

<210> 5307
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*31:01

<400> 5307
Lys Ile Ile Asp Leu Val His Leu Leu Leu Arg
1 5 10

<210> 5308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*31:01,
HLA-B*40:02,HLA-B*55:01,HLA-B*56:01

<400> 5308
Lys Val Leu Glu Tyr Ile Ala Asn Ala
1 5

<210> 5309
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:02

<400> 5309
Leu Glu Tyr Ile Ala Asn Ala Asn Gly Arg
1 5 10

<210> 5310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*08:01,HLA-B*46:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*14:02

<400> 5310
Leu Gly Leu Val Gly Ala Gln Ala Leu
1 5

<210> 5311
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 5311
Leu Gly Ser Val Ile Lys Asn Tyr
1 5

<210> 5312
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5312
Leu Leu Phe Gly Ile Asp Val Lys Glu Val
1 5 10

<210> 5313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*55:01

<400> 5313
Leu Pro Ala Ala Glu Ser Pro Ser Pro
1 5

<210> 5314
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*15:01,HLA-C*07:04

<400> 5314
Leu Gln Ala Glu Glu Gln Glu Ala Ala Phe

1 5 10

<210> 5315
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:05,HLA-B*38:01

<400> 5315
Leu Gln Ala Glu Glu Gln Glu Ala Ala Phe Phe
1 5 10

<210> 5316
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:05

<400> 5316
Leu Gln Ala Gln Glu Glu Asp Leu Gly Leu
1 5 10

<210> 5317
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01

<400> 5317
Leu Ser Asp Glu Gly Ser Gly Ser Gln Glu
1 5 10

<210> 5318
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01

<400> 5318
Leu Ser Asp Glu Gly Ser Gly Ser Gln Glu Lys
1               5                   10


<210> 5319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*03:02,HLA-A*11:01

<400> 5319
Leu Thr Gln Asn Trp Val Gln Glu Lys
1               5


<210> 5320
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*57:01,HLA-B*58:01

<400> 5320
Leu Thr Gln Asn Trp Val Gln Glu Lys Tyr
1               5                   10


<210> 5321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:01,HLA-B*35:01,HLA-B*58:01,HLA-C*02:02,
      HLA-C*07:04

<400> 5321
Leu Val Thr Ser Leu Asn Leu Ser Tyr
1               5


<210> 5322
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*24:02

<400> 5322
Leu Trp Gly Pro Ile Thr Gln Ile Phe
1 5

<210> 5323
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02

<400> 5323
Met Asp Ala Ile Phe Gly Ser Leu
1 5

<210> 5324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:01,HLA-A*03:02,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*44:02,HLA-B*44:03,HLA-C*07:04

<400> 5324
Met Leu Gly Ser Val Ile Lys Asn Tyr
1 5

<210> 5325
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*51:01

<400> 5325
Met Pro Lys Ser Gly Leu Leu Ile
1 5

<210> 5326
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 5326
Met Pro Lys Ser Gly Leu Leu Ile Ile
1 5

<210> 5327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 5327
Met Pro Lys Ser Gly Leu Leu Ile Ile Val
1 5 10

<210> 5328
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*54:01

<400> 5328
Met Pro Lys Ser Gly Leu Leu Ile Ile Val Leu
1 5 10

<210> 5329
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*54:01

<400> 5329
Met Pro Leu Glu Gln Arg Ser Gln His Cys
1 5 10

<210> 5330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*13:02

<400> 5330
Met Gln Leu Leu Phe Gly Ile Asp Val
1 5

<210> 5331
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-A*30:02,HLA-B*35:01

<400> 5331
Asn Ala Asn Gly Arg Asp Pro Thr Ser Tyr
1 5 10

<210> 5332
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*40:01

<400> 5332
Asn Glu Gln Ser Met Pro Lys Ser Gly Leu
1 5 10

<210> 5333
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*33:01

<400> 5333
Asn Gly Arg Asp Pro Thr Ser Tyr Pro Ser
1 5 10

<210> 5334
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*29:02

<400> 5334
Asn Trp Val Gln Glu Lys Tyr Leu Val Tyr
1 5 10

<210> 5335
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*24:02

<400> 5335
Asn Tyr Glu Asp Tyr Phe Pro Glu Ile
1 5

<210> 5336
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*24:02

<400> 5336
Asn Tyr Glu Asp Tyr Phe Pro Glu Ile Phe
1 5 10

<210> 5337
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*51:01

<400> 5337

Pro Ala Asp Leu Thr Arg Val Ile
1               5


<210> 5338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*37:01

<400> 5338
Pro Asp Leu Ile Asp Pro Glu Ser Phe
1               5


<210> 5339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 5339
Pro Glu Ile Phe Arg Glu Ala Ser Val
1               5


<210> 5340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*15:01

<400> 5340
Pro Gln Ser Pro Gln Glu Glu Ser Phe
1               5


<210> 5341
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*01:01

<400> 5341
Pro Thr Ser Tyr Pro Ser Leu Tyr
1               5


<210> 5342
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*24:02

<400> 5342
Pro Tyr Gly Pro Gln Leu Gln Trp
1               5


<210> 5343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*55:01,
      HLA-C*03:03,HLA-C*05:01

<400> 5343
Gln Ala Glu Glu Gln Glu Ala Ala Phe
1               5


<210> 5344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*27:02,HLA-B*38:01,HLA-C*05:01

<400> 5344
Gln Ala Glu Glu Gln Glu Ala Ala Phe Phe
1               5                   10


<210> 5345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*35:03

<400> 5345
Gln Ala Gln Glu Glu Asp Leu Gly Leu
1 5

<210> 5346
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 5346
Gln Cys Asn Glu Gln Ser Met Pro Lys
1 5

<210> 5347
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*37:01

<400> 5347
Gln Asp Leu Pro Arg Val Gln Val
1 5

<210> 5348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,HLA-B*08:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*57:01,HLA-C*07:01,HLA-C*12:03,HLA-C*16:04

<400> 5348
Gln Asp Leu Pro Arg Val Gln Val Phe
1 5

<210> 5349

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*31:01

<400> 5349
Gln Asp Leu Pro Arg Val Gln Val Phe Arg
1 5 10

<210> 5350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*18:01,HLA-B*49:01

<400> 5350
Gln Glu Ala Ala Phe Phe Ser Ser Thr
1 5

<210> 5351
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 5351
Gln Glu Ala Ala Phe Phe Ser Ser Thr Leu
1 5 10

<210> 5352
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*49:01

<400> 5352
Gln Glu Glu Asp Leu Gly Leu Val Gly Ala
1 5 10

<210> 5353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*49:01

<400> 5353
Gln Glu Glu Ser Phe Ser Pro Thr Ala
1 5

<210> 5354
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01

<400> 5354
Gln Glu Glu Ser Phe Ser Pro Thr Ala Met
1 5 10

<210> 5355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*38:01

<400> 5355
Gln His Cys Lys Pro Glu Glu Gly Leu
1 5

<210> 5356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:03

<400> 5356

Gln Ile Phe Pro Thr Val Arg Pro Ala
1               5


<210> 5357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*38:01,HLA-B*39:01

<400> 5357
Gln Arg Ile Thr Gly Gly Glu Gln Val
1               5


<210> 5358
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*38:01,HLA-B*39:01

<400> 5358
Gln Arg Ile Thr Gly Gly Glu Gln Val Leu
1               5                   10


<210> 5359
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*08:01

<400> 5359
Gln Ser Met Pro Lys Ser Gly Leu
1               5


<210> 5360
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-C*07:04

<400> 5360
Gln Val Pro Gly Thr Asp Pro Ala Cys Tyr
1 5 10

<210> 5361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -C*01:02

<400> 5361
Arg Ala Pro Tyr Gly Pro Gln Leu
1 5

<210> 5362
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*24:02,HLA-B*57:01,HLA-B*58:01

<400> 5362
Arg Ala Pro Tyr Gly Pro Gln Leu Gln Trp
1 5 10

<210> 5363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*37:01

<400> 5363
Arg Asp Pro Thr Ser Tyr Pro Ser Leu
1 5

<210> 5364
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*40:01

<400> 5364
Arg Glu Ala Ser Val Cys Met Gln Leu
1 5

<210> 5365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*37:01,HLA-B*38:01,HLA-B*40:01

<400> 5365
Arg Glu Asp Ser Gly Asp Phe Gly Leu
1 5

<210> 5366
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*49:01

<400> 5366
Arg Glu Asp Ser Gly Asp Phe Gly Leu Gln Val
1 5 10

<210> 5367
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*57:01,HLA-B*58:01

<400> 5367
Arg Ile Thr Gly Gly Glu Gln Val Leu Trp
1 5 10

<210> 5368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*07:02,HLA-B*51:01,HLA-B*56:01,HLA-C*07:02

<400> 5368
Arg Pro Ala Asp Leu Thr Arg Val Ile
1 5

<210> 5369
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*07:02

<400> 5369
Arg Pro Ala Asp Leu Thr Arg Val Ile Met
1 5 10

<210> 5370
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03

<400> 5370
Arg Gln Val Pro Gly Thr Asp Pro Ala Cys Tyr
1 5 10

<210> 5371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*57:01

<400> 5371
Arg Val Ile Met Pro Leu Glu Gln Arg
1 5

<210> 5372

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:01

<400> 5372
Arg Val Lys Gly Leu Ile Thr Lys
1 5

<210> 5373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:03

<400> 5373
Arg Val Lys Gly Leu Ile Thr Lys Ala
1 5

<210> 5374
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -C*05:01

<400> 5374
Ser Gly Asp Phe Gly Leu Gln Val
1 5

<210> 5375
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*38:01

<400> 5375
Ser His Ser Tyr Val Leu Val Thr Ser Leu
1 5 10

<210> 5376
<211> 9
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<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-C*07:06

<400> 5376
Ser Ile Met Gly Val Tyr Ala Gly Arg
1 5

<210> 5377
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*15:03

<400> 5377
Ser Lys Met Lys Val Leu Glu Tyr
1 5

<210> 5378
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:07

<400> 5378
Ser Met Pro Lys Ser Gly Leu Leu Ile Ile Val
1 5 10

<210> 5379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 5379

Ser Pro Asp Leu Ile Asp Pro Glu Ser Phe
1               5                   10


<210> 5380
<211> 11
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<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*56:01

<400> 5380
Ser Pro Gln Glu Glu Ser Phe Ser Pro Thr Ala
1               5                   10


<210> 5381
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*56:01

<400> 5381
Ser Pro Thr Ala Met Asp Ala Ile
1               5


<210> 5382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 5382
Ser Pro Thr Ala Met Asp Ala Ile Phe
1               5


<210> 5383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*13:02,HLA-B*38:01

<400> 5383
Ser Gln Asp Ile Leu His Asp Lys Ile
1               5


<210> 5384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*02:01,HLA-A*02:07,HLA-B*13:02,HLA-B*38:01,HLA-B*39:01,
      HLA-C*04:01,HLA-C*05:01

<400> 5384
Ser Gln Asp Leu Pro Arg Val Gln Val
1               5


<210> 5385
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*38:01,HLA-B*44:02

<400> 5385
Ser Gln Asp Leu Pro Arg Val Gln Val Phe
1               5                   10


<210> 5386
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*68:02

<400> 5386
Ser Thr Leu Asn Val Gly Thr Leu Glu Glu Leu
1               5                   10


<210> 5387
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*35:01,HLA-B*46:01,HLA-B*58:01

<400> 5387
Ser Val Ile Lys Asn Tyr Glu Asp Tyr
1 5

<210> 5388
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*24:02,HLA-B*15:03,HLA-C*14:02

<400> 5388
Ser Tyr Val Leu Val Thr Ser Leu
1 5

<210> 5389
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*24:02

<400> 5389
Ser Tyr Val Leu Val Thr Ser Leu Asn Leu
1 5 10

<210> 5390
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*68:01,
HLA-A*68:02,HLA-B*27:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,

<220>
<223> HLA-C*03:03,HLA-C*03:04,HLA-C*16:04

<400> 5390
Thr Ala Met Asp Ala Ile Phe Gly Ser Leu

1 5 10

<210> 5391
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 5391
Thr Glu Arg Ala Pro Tyr Gly Pro Gln Leu
1 5 10

<210> 5392
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-C*16:04

<400> 5392
Thr Gln Asn Trp Val Gln Glu Lys Tyr
1 5

<210> 5393
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -C*06:02

<400> 5393
Thr Arg Val Ile Met Pro Leu Glu Gln
1 5

<210> 5394
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*32:01,HLA-B*08:01,HLA-B*46:01,HLA-C*07:01,HLA-C*12:03,

HLA-C*16:01,HLA-C*16:02

<400> 5394
Thr Ser Lys Met Lys Val Leu Glu Tyr
1 5

<210> 5395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*31:01,HLA-A*33:03

<400> 5395
Thr Val Arg Pro Ala Asp Leu Thr Arg
1 5

<210> 5396
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:02,HLA-B*37:01,HLA-C*01:02,HLA-C*07:01

<400> 5396
Val Asp Pro Thr Ser His Ser Tyr
1 5

<210> 5397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*24:02

<400> 5397
Val Ile Lys Asn Tyr Glu Asp Tyr Phe
1 5

<210> 5398
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*31:01

<400> 5398
Val Ile Met Pro Leu Glu Gln Arg
1 5

<210> 5399
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*15:03

<400> 5399
Val Lys Glu Val Asp Pro Thr Ser His Ser Tyr
1 5 10

<210> 5400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01

<400> 5400
Val Leu Ser Ile Met Gly Val Tyr
1 5

<210> 5401
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01

<400> 5401
Val Leu Val Thr Ser Leu Asn Leu
1 5

<210> 5402
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01

<400> 5402
Val Leu Val Thr Ser Leu Asn Leu Ser Tyr
1 5 10

<210> 5403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-B*13:02,HLA-B*55:01

<400> 5403
Val Leu Trp Gly Pro Ile Thr Gln Ile
1 5

<210> 5404
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*51:01

<400> 5404
Val Met Trp Glu Val Leu Ser Ile
1 5

<210> 5405
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:07

<400> 5405
Val Met Trp Glu Val Leu Ser Ile Met Gly Val
1 5 10

<210> 5406
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*55:01

<400> 5406
Val Pro Gly Thr Asp Pro Ala Cys
1 5

<210> 5407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*35:01,HLA-B*55:01

<400> 5407
Val Pro Gly Thr Asp Pro Ala Cys Tyr
1 5

<210> 5408
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*15:01,HLA-B*15:03

<400> 5408
Val Gln Glu Lys Tyr Leu Val Tyr
1 5

<210> 5409
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*31:01

<400> 5409
Val Gln Glu Lys Tyr Leu Val Tyr Arg

1 5

<210> 5410
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01

<400> 5410
Val Thr Ser Leu Asn Leu Ser Tyr
1 5

<210> 5411
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*23:01,HLA-A*24:02

<400> 5411
Val Tyr Ala Gly Arg Glu His Phe Leu
1 5

<210> 5412
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*24:02

<400> 5412
Val Tyr Ala Gly Arg Glu His Phe Leu Phe
1 5 10

<210> 5413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*49:01

<400> 5413
Trp Glu Val Leu Ser Ile Met Gly Val
1               5


<210> 5414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-B*15:01,HLA-B*35:01

<400> 5414
Trp Val Gln Glu Lys Tyr Leu Val Tyr
1               5


<210> 5415
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -A*31:01,HLA-A*33:01

<400> 5415
Trp Val Gln Glu Lys Tyr Leu Val Tyr Arg
1               5                   10


<210> 5416
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
      HLA -B*49:01

<400> 5416
Tyr Glu Asp Tyr Phe Pro Glu Ile
1               5


<210> 5417
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*18:01

<400> 5417
Tyr Glu Asp Tyr Phe Pro Glu Ile Phe
1 5

<210> 5418
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:04

<400> 5418
Tyr Glu Phe Leu Trp Gly Pro Arg Ala
1 5

<210> 5419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:07,HLA-A*29:02,HLA-B*54:01

<400> 5419
Tyr Phe Pro Glu Ile Phe Arg Glu Ala
1 5

<210> 5420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*55:01,HLA-C*03:03

<400> 5420
Tyr Pro Ser Leu Tyr Glu Asp Ala Leu
1 5

<210> 5421
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -B*27:05

<400> 5421
Tyr Arg Val Lys Gly Leu Ile Thr Lys
1 5

<210> 5422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,
HLA-B*13:02,HLA-C*03:04

<400> 5422
Tyr Val Leu Val Thr Ser Leu Asn Leu
1 5

<210> 5423
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA11; ENSG00000185247;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 5423
Tyr Val Leu Val Thr Ser Leu Asn Leu Ser Tyr
1 5 10

<210> 5424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -C*16:01

<400> 5424
Ala Ala Leu Ser Arg Lys Val Ala Glu
1 5

<210> 5425
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 5425
Ala Ala Ser Ser Ser Ser Thr Leu
1 5

<210> 5426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*13:02

<400> 5426
Ala Ala Ser Ser Ser Ser Thr Leu Val
1 5

<210> 5427
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 5427
Ala Glu Leu Val His Phe Leu Leu
1 5

<210> 5428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5428
Ala Glu Leu Val His Phe Leu Leu Leu
1 5

<210> 5429
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*44:02,HLA-B*44:03

<400> 5429
Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr
1 5 10

<210> 5430
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5430
Ala Glu Met Leu Gly Ser Val Val
1 5

<210> 5431
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5431
Ala Glu Met Leu Gly Ser Val Val Gly
1 5

<210> 5432
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*44:02,HLA-B*49:01

<400> 5432
Ala Glu Met Leu Gly Ser Val Val Gly Asn
1               5                   10


<210> 5433
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:01,HLA-A*32:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,
      HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,HLA-C*16:04

<400> 5433
Ala Glu Met Leu Gly Ser Val Val Gly Asn Trp
1               5                   10


<210> 5434
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:01,HLA-B*40:02,HLA-B*49:01

<400> 5434
Ala Glu Ser Pro Asp Pro Pro Gln Ser Pro
1               5                   10


<210> 5435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01,HLA-A*02:03,HLA-B*55:01,HLA-B*56:01

<400> 5435
Ala Leu Gly Leu Val Gly Ala Gln Ala
1               5


<210> 5436
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*56:01

<400> 5436
Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
1 5 10

<210> 5437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*08:01

<400> 5437
Ala Leu Ser Arg Lys Val Ala Glu Leu
1 5

<210> 5438
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*49:01,HLA-B*55:01

<400> 5438
Ala Leu Val Glu Thr Ser Tyr Val
1 5

<210> 5439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5439
Ala Leu Val Glu Thr Ser Tyr Val Lys
1 5

<210> 5440
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5440
Ala Leu Val Glu Thr Ser Tyr Val Lys Val
1 5 10

<210> 5441
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5441
Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu
1 5 10

<210> 5442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*55:01,HLA-B*56:01

<400> 5442
Ala Pro Ala Thr Glu Glu Gln Glu Ala
1 5

<210> 5443
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*55:01,HLA-B*56:01

<400> 5443
Ala Pro Ala Thr Glu Glu Gln Glu Ala Ala
1 5 10

<210> 5444
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:01

<400> 5444
Ala Gln Ala Pro Ala Thr Glu Glu Gln
1 5

<210> 5445
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*13:02,HLA-B*27:05,HLA-B*39:01

<400> 5445
Ala Gln Ala Pro Ala Thr Glu Glu Gln Glu Ala
1 5 10

<210> 5446
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02,HLA-B*27:05,HLA-B*38:01

<400> 5446
Ala Arg Glu Pro Val Thr Lys Ala Glu Met
1 5 10

<210> 5447
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*37:01

<400> 5447
Ala Ser Ser Leu Pro Thr Thr Met
1 5

<210> 5448
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-B*58:01,HLA-C*16:02

<400> 5448
Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr
1 5 10

<210> 5449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,

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<223> HLA-C*02:02,HLA-C*12:03,HLA-C*16:01,HLA-C*16:04

<400> 5449
Ala Ser Ser Ser Leu Gln Leu Val Phe
1 5

<210> 5450
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01

<400> 5450
Ala Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 5451
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*38:01,HLA-B*51:01

<400> 5451
Asp Gly Leu Leu Gly Asp Asn Gln Ile
1 5

<210> 5452
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:03

<400> 5452
Asp Gly Leu Leu Gly Asp Asn Gln Ile Met
1 5 10

<210> 5453
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*08:01,HLA-B*51:01

<400> 5453
Asp Pro Ile Gly His Leu Tyr Ile
1 5

<210> 5454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 5454
Asp Pro Ile Gly His Leu Tyr Ile Phe
1 5

<210> 5455
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01

<400> 5455
Asp Pro Ile Gly His Leu Tyr Ile Phe Ala
1 5 10

<210> 5456
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*51:01

<400> 5456
Asp Pro Pro Gln Ser Pro Gln Gly
1 5

<210> 5457
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02

<400> 5457
Asp Ser Ile Leu Gly Asp Pro Lys
1 5

<210> 5458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-B*07:02,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*51:01,HLA-C*01:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 5458
Glu Ala Ala Ser Ser Ser Ser Thr Leu
1 5

<210> 5459
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01

<400> 5459
Glu Ala Leu Gly Leu Val Gly Ala
1 5

<210> 5460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*27:05,HLA-C*07:01,
HLA-C*12:03

<400> 5460
Glu Ala Leu Gly Leu Val Gly Ala Gln
1 5

<210> 5461
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-B*54:01

<400> 5461
Glu Ala Leu Gly Leu Val Gly Ala Gln Ala
1 5 10

<210> 5462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01

<400> 5462
Glu Ala Arg Gly Glu Ala Leu Gly Leu

1 5

<210> 5463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02

<400> 5463
Glu Asp Ser Ile Leu Gly Asp Pro Lys
1 5

<210> 5464
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*18:01

<400> 5464
Glu Glu Glu Gly Pro Ser Thr Phe
1 5

<210> 5465
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*39:01,HLA-B*40:01

<400> 5465
Glu Glu Glu Gly Pro Ser Thr Phe Pro Asp Leu
1 5 10

<210> 5466
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*40:01

<400> 5466
Glu Glu Gly Leu Glu Ala Arg Gly Glu Ala Leu
1               5                   10


<210> 5467
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 5467
Glu Glu Gly Pro Ser Thr Phe Pro Asp Leu
1               5                   10


<210> 5468
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -B*18:01,HLA-B*49:01,HLA-B*51:01

<400> 5468
Glu Glu Leu Ser Val Leu Glu Val
1               5


<210> 5469
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*23:01,HLA-A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*44:02,
      HLA-B*44:03,HLA-C*16:04

<400> 5469
Glu Glu Leu Ser Val Leu Glu Val Phe
1               5


<210> 5470
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*33:01,HLA-A*33:03

<400> 5470
Glu Phe Gln Ala Ala Leu Ser Arg
1 5

<210> 5471
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*33:03

<400> 5471
Glu Phe Gln Ala Ala Leu Ser Arg Lys
1 5

<210> 5472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01

<400> 5472
Glu Leu Met Glu Val Asp Pro Ile Gly His
1 5 10

<210> 5473
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 5473
Glu Leu Met Glu Val Asp Pro Ile Gly His Leu
1 5 10

<210> 5474
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*26:01,HLA-A*29:02

<400> 5474
Glu Leu Val His Phe Leu Leu Leu Lys Tyr
1 5 10

<210> 5475
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*44:02,
HLA-B*44:03,HLA-B*57:01

<400> 5475
Glu Met Leu Gly Ser Val Val Gly Asn Trp
1 5 10

<210> 5476
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,
HLA-C*07:02

<400> 5476
Glu Pro Val Thr Lys Ala Glu Met
1 5

<210> 5477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*68:01,HLA-B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,
HLA-C*07:02

<400> 5477
Glu Pro Val Thr Lys Ala Glu Met Leu
1 5

<210> 5478
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*38:01,HLA-B*39:01

<400> 5478
Glu Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu
1 5 10

<210> 5479
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*68:01

<400> 5479
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg
1 5 10

<210> 5480
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*68:01

<400> 5480
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys
1 5 10

<210> 5481
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 5481
Glu Thr Ser Tyr Val Lys Val Leu His

1 5

<210> 5482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-C*04:01,HLA-C*05:01

<400> 5482
Glu Val Asp Pro Ile Gly His Leu
1 5

<210> 5483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*15:01,HLA-B*15:03,

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<223> HLA-B*18:01,HLA-B*27:05,HLA-B*35:01,HLA-B*38:01,HLA-B*39:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*05:01,HLA-C*07:06,HLA-C*16:02,
HLA-C*16:04

<400> 5483
Glu Val Asp Pro Ile Gly His Leu Tyr
1 5

<210> 5484
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*02:07,HLA-A*29:02,HLA-A*68:02,HLA-B*38:01

<400> 5484
Glu Val Asp Pro Ile Gly His Leu Tyr Ile
1 5 10

<210> 5485

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07,HLA-A*68:02

<400> 5485
Glu Val Asp Pro Ile Gly His Leu Tyr Ile Phe
1 5 10

<210> 5486
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*08:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*51:01

<400> 5486
Glu Val Phe Glu Gly Arg Glu Asp Ser Ile
1 5 10

<210> 5487
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*27:05,HLA-B*35:03

<400> 5487
Glu Val Phe Glu Gly Arg Glu Asp Ser Ile Leu
1 5 10

<210> 5488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01

<400> 5488
Glu Val Thr Leu Gly Glu Val Pro Ala Ala

1 5 10

<210> 5489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,
HLA-B*35:01,HLA-B*46:01,HLA-C*02:02

<400> 5489
Phe Ala Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 5490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*40:01

<400> 5490
Phe Glu Gly Arg Glu Asp Ser Ile Leu
1 5

<210> 5491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07,HLA-A*29:02

<400> 5491
Phe Phe Pro Val Ile Phe Ser Lys Ala
1 5

<210> 5492
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01

<400> 5492
Phe Gly Ile Glu Leu Met Glu Val
1               5


<210> 5493
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:04

<400> 5493
Phe Leu Trp Gly Pro Arg Ala Leu
1               5


<210> 5494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5494
Phe Leu Trp Gly Pro Arg Ala Leu Val
1               5


<210> 5495
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 5495
Phe Leu Trp Gly Pro Arg Ala Leu Val Glu Thr
1               5                   10


<210> 5496
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*04:01,HLA-C*05:01

<400> 5496
Phe Pro Asp Leu Glu Ser Glu Phe
1 5

<210> 5497
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01

<400> 5497
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala
1 5 10

<210> 5498
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01

<400> 5498
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala
1 5 10

<210> 5499
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 5499
Phe Pro Val Ile Phe Ser Lys Ala
1 5

<210> 5500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01

<400> 5500
Phe Pro Val Ile Phe Ser Lys Ala Ser
1 5

<210> 5501
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01,HLA-B*56:01

<400> 5501
Phe Pro Val Ile Phe Ser Lys Ala Ser Ser
1 5 10

<210> 5502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:03,HLA-B*13:02,HLA-C*02:02,HLA-C*06:02

<400> 5502
Phe Gln Ala Ala Leu Ser Arg Lys Val
1 5

<210> 5503
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*08:01,HLA-B*46:01,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03,
HLA-C*16:01

<400> 5503
Phe Ser Lys Ala Ser Ser Ser Leu
1 5

<210> 5504

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,

<220>
<223> HLA-B*27:02,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,HLA-B*55:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*07:01,
HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 5504
Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 5505
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:02

<400> 5505
Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg
1 5 10

<210> 5506
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:02,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-C*02:02,HLA-C*12:03,
HLA-C*16:02,HLA-C*16:04

<400> 5506
Gly Ala Ser Ser Leu Pro Thr Thr Met
1 5

<210> 5507
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 5507
Gly Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr
1 5 10

<210> 5508
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5508
Gly Asp Asn Gln Ile Met Pro Lys
1 5

<210> 5509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*40:02

<400> 5509
Gly Asp Asn Gln Ile Met Pro Lys Ala
1 5

<210> 5510
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*13:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01,HLA-B*56:01

<400> 5510
Gly Glu Ala Leu Gly Leu Val Gly Ala
1 5

<210> 5511
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*27:05,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5511
Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala
1 5 10

<210> 5512
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 5512
Gly Glu Val Pro Ala Ala Glu Ser Pro
1 5

<210> 5513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:01

<400> 5513
Gly Leu Leu Gly Asp Asn Gln Ile Met
1 5

<210> 5514
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:04,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*31:01,HLA-B*27:02,HLA-B*27:05

<400> 5514

Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys
1               5                   10


<210> 5515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 5515
Gly Leu Leu Ile Ile Val Leu Ala Ile
1               5


<210> 5516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -B*07:02

<400> 5516
Gly Pro His Ile Ser Tyr Pro Pro Leu
1               5


<210> 5517
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:02,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
      HLA-B*55:01

<400> 5517
Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr
1               5                   10


<210> 5518
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;

HLA -B*07:02

<400> 5518
Gly Pro Ser Thr Phe Pro Asp Leu
1 5

<210> 5519
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02,HLA-B*27:05

<400> 5519
Gly Arg Glu Asp Ser Ile Leu Gly Asp Pro Lys
1 5 10

<210> 5520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-B*27:05,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01

<400> 5520
Gly Ser Asp Pro Ala Cys Tyr Glu Phe
1 5

<210> 5521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*57:01,HLA-B*58:01

<400> 5521
Gly Ser Val Val Gly Asn Trp Gln Tyr
1 5

<210> 5522
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 5522
His Cys Lys Pro Glu Glu Gly Leu Glu Ala Arg
1 5 10

<210> 5523
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*29:02,HLA-B*35:01

<400> 5523
His Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1 5 10

<210> 5524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*57:01

<400> 5524
His Ile Ser Tyr Pro Pro Leu His Glu Trp
1 5 10

<210> 5525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5525
Ile Glu Leu Met Glu Val Asp Pro Ile
1 5

<210> 5526
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*29:02

<400> 5526
Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr
1 5 10

<210> 5527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*23:01,HLA-C*01:02,HLA-C*14:02

<400> 5527
Ile Phe Ser Lys Ala Ser Ser Ser Leu
1 5

<210> 5528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 5528
Ile Ile Val Leu Ala Ile Ile Ala Arg
1 5

<210> 5529
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:03

<400> 5529
Ile Leu Gly Asp Pro Lys Lys Leu
1 5

<210> 5530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01

<400> 5530
Ile Leu Gly Asp Pro Lys Lys Leu Leu
1 5

<210> 5531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02

<400> 5531
Ile Met Pro Lys Ala Gly Leu Leu Ile
1 5

<210> 5532
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07,HLA-A*24:02

<400> 5532
Ile Met Pro Lys Ala Gly Leu Leu Ile Ile
1 5 10

<210> 5533
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07

<400> 5533
Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val
1 5 10

<210> 5534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02

<400> 5534
Ile Ser Gly Gly Pro His Ile Ser Tyr
1 5

<210> 5535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02,HLA-A*25:01,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-A*33:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 5535
Ile Ser Tyr Pro Pro Leu His Glu Trp
1 5

<210> 5536
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:03

<400> 5536
Ile Val Leu Ala Ile Ile Ala Arg
1 5

<210> 5537
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;

HLA -B*37:01

<400> 5537
Lys Ala Ser Ser Ser Leu Gln Leu
1 5

<210> 5538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*13:02,HLA-C*12:03,HLA-C*16:02

<400> 5538
Lys Ala Ser Ser Ser Leu Gln Leu Val
1 5

<210> 5539
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*27:02,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:04

<400> 5539
Lys Ala Ser Ser Ser Leu Gln Leu Val Phe
1 5 10

<210> 5540
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*46:01

<400> 5540
Lys Ile Ser Gly Gly Pro His Ile Ser Tyr
1 5 10

<210> 5541
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:04,HLA-A*02:07

<400> 5541
Lys Ile Trp Glu Glu Leu Ser Val Leu
1 5

<210> 5542
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5542
Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val
1 5 10

<210> 5543
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*32:01,HLA-B*37:01,HLA-B*57:01,HLA-B*58:01

<400> 5543
Lys Val Ala Glu Leu Val His Phe
1 5

<210> 5544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*31:01,
HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*27:05,HLA-B*57:01,

<220>
<223> HLA-B*58:01

<400> 5544

Lys Val Ala Glu Leu Val His Phe Leu
1               5


<210> 5545
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*31:01,HLA-A*68:02

<400> 5545
Lys Val Ala Glu Leu Val His Phe Leu Leu
1               5                   10


<210> 5546
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:04,HLA-A*02:07,HLA-A*03:01

<400> 5546
Lys Val Ala Glu Leu Val His Phe Leu Leu Leu
1               5                   10


<210> 5547
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02

<400> 5547
Leu Glu Ala Arg Gly Glu Ala Leu
1               5


<210> 5548
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 5548
Leu Glu Ala Arg Gly Glu Ala Leu Gly Leu
1               5                   10


<210> 5549
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -B*18:01,HLA-B*49:01

<400> 5549
Leu Glu Ser Glu Phe Gln Ala Ala
1               5


<210> 5550
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:01,HLA-A*68:02,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
      HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
      HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5550
Leu Glu Ser Glu Phe Gln Ala Ala Leu
1               5


<210> 5551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5551
Leu Gly Asp Asn Gln Ile Met Pro Lys
1               5


<210> 5552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*32:01

<400> 5552
Leu Gly Leu Val Gly Ala Gln Ala Pro
1 5

<210> 5553
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01

<400> 5553
Leu Gly Ser Val Val Gly Asn Trp Gln Tyr
1 5 10

<210> 5554
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02

<400> 5554
Leu Ile Ile Val Leu Ala Ile Ile Ala Arg
1 5 10

<210> 5555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5555
Leu Leu Gly Asp Asn Gln Ile Met Pro Lys
1 5 10

<210> 5556
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01

<400> 5556
Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Ala
1 5 10

<210> 5557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:04

<400> 5557
Leu Leu Ile Ile Val Leu Ala Ile Ile
1 5

<210> 5558
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 5558
Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr
1 5 10

<210> 5559
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:01,HLA-B*35:03

<400> 5559
Leu Pro Thr Thr Met Asn Tyr Pro Leu
1 5

<210> 5560
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02,HLA-B*27:02

<400> 5560
Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp
1 5 10

<210> 5561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02,HLA-B*39:01

<400> 5561
Leu Gln Leu Val Phe Gly Ile Glu Leu
1 5

<210> 5562
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*08:01

<400> 5562
Leu Ser Arg Lys Val Ala Glu Leu
1 5

<210> 5563
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02,HLA-B*57:01

<400> 5563
Leu Ser Val Leu Glu Val Phe Glu Gly Arg
1 5 10

<210> 5564
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01

<400> 5564
Leu Thr Gln His Phe Val Gln Glu Asn Tyr
1 5 10

<210> 5565
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*03:02,HLA-B*27:02

<400> 5565
Leu Val Glu Thr Ser Tyr Val Lys
1 5

<210> 5566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07,HLA-C*05:01

<400> 5566
Leu Val Glu Thr Ser Tyr Val Lys Val
1 5

<210> 5567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01

<400> 5567

Leu Val Glu Val Thr Leu Gly Glu Val
1               5


<210> 5568
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 5568
Leu Val Phe Gly Ile Glu Leu Met Glu Val
1               5                   10


<210> 5569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*01:01,HLA-A*29:02,HLA-B*57:01

<400> 5569
Leu Val His Phe Leu Leu Leu Lys Tyr
1               5


<210> 5570
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*23:01,HLA-C*14:02

<400> 5570
Leu Tyr Ile Phe Ala Thr Cys Leu
1               5


<210> 5571
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -B*18:01

<400> 5571
Met Glu Val Asp Pro Ile Gly His
1               5


<210> 5572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-A*68:02,HLA-B*18:01,
      HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,
      HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,

<220>
<223> HLA-C*16:04

<400> 5572
Met Glu Val Asp Pro Ile Gly His Leu
1               5


<210> 5573
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,HLA-A*33:03,HLA-A*68:02,
      HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,

<220>
<223> HLA-B*35:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
      HLA-B*49:01,HLA-B*57:01,HLA-C*02:02,HLA-C*07:04,HLA-C*16:04

<400> 5573
Met Glu Val Asp Pro Ile Gly His Leu Tyr
1               5                   10


<210> 5574
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*30:01,HLA-A*68:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5574
Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile
1               5                   10


<210> 5575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*32:01,HLA-A*33:03,
      HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*07:04

<400> 5575
Met Leu Gly Ser Val Val Gly Asn Trp
1               5


<210> 5576
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*01:01,HLA-A*29:02

<400> 5576
Met Leu Gly Ser Val Val Gly Asn Trp Gln Tyr
1               5                   10


<210> 5577
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*29:02

<400> 5577
Met Asn Tyr Pro Leu Trp Ser Gln Ser Tyr
1               5                   10


<210> 5578
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*51:01

<400> 5578
Met Pro Lys Ala Gly Leu Leu Ile
1 5

<210> 5579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 5579
Met Pro Lys Ala Gly Leu Leu Ile Ile
1 5

<210> 5580
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01,HLA-B*56:01

<400> 5580
Met Pro Lys Ala Gly Leu Leu Ile Ile Val
1 5 10

<210> 5581
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01

<400> 5581
Met Pro Lys Ala Gly Leu Leu Ile Ile Val Leu
1 5 10

<210> 5582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -C*04:01

<400> 5582
Met Val Lys Ile Ser Gly Gly Pro His
1 5

<210> 5583
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*38:01,HLA-B*39:01

<400> 5583
Asn Gln Glu Glu Glu Gly Pro Ser Thr Phe
1 5 10

<210> 5584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*08:01,HLA-B*15:01,HLA-B*39:01

<400> 5584
Asn Gln Ile Met Pro Lys Ala Gly Leu
1 5

<210> 5585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,
HLA-C*01:02,HLA-C*14:02

<400> 5585
Asn Tyr Pro Leu Trp Ser Gln Ser Tyr
1 5

<210> 5586

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02,HLA-C*07:01,HLA-C*16:04

<400> 5586
Pro Arg Ala Leu Val Glu Thr Ser Tyr
1 5

<210> 5587
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*51:01,HLA-C*06:02,HLA-C*16:01,HLA-C*16:02

<400> 5587
Gln Ala Ala Leu Ser Arg Lys Val
1 5

<210> 5588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*54:01

<400> 5588
Gln Ala Ala Leu Ser Arg Lys Val Ala
1 5

<210> 5589
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,
HLA-B*49:01

<400> 5589
Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu
1 5 10

<210> 5590
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*49:01

<400> 5590
Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu Val
1 5 10

<210> 5591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 5591
Gln Glu Glu Glu Gly Pro Ser Thr Phe
1 5

<210> 5592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*38:01

<400> 5592
Gln His Cys Lys Pro Glu Glu Gly Leu
1 5

<210> 5593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*38:01,HLA-B*39:01

<400> 5593
Gln His Phe Val Gln Glu Asn Tyr Leu
1               5


<210> 5594
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -B*08:01

<400> 5594
Gln Ile Met Pro Lys Ala Gly Leu
1               5


<210> 5595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*23:01,HLA-B*08:01

<400> 5595
Gln Ile Met Pro Lys Ala Gly Leu Leu
1               5


<210> 5596
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01

<400> 5596
Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val
1               5                   10


<210> 5597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;

HLA -C*01:02

<400> 5597
Gln Ser Pro Gln Gly Ala Ser Ser Leu
1 5

<210> 5598
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-C*07:04

<400> 5598
Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr
1 5 10

<210> 5599
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02

<400> 5599
Gln Tyr Phe Phe Pro Val Ile Phe
1 5

<210> 5600
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 5600
Arg Ala Leu Val Glu Thr Ser Tyr
1 5

<210> 5601
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02

<400> 5601
Arg Ala Leu Val Glu Thr Ser Tyr Val Lys
1 5 10

<210> 5602
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*03:01,HLA-B*57:01

<400> 5602
Arg Ala Arg Glu Pro Val Thr Lys
1 5

<210> 5603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*32:01,HLA-B*07:02,HLA-B*54:01,HLA-B*56:01

<400> 5603
Arg Ala Arg Glu Pro Val Thr Lys Ala
1 5

<210> 5604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*07:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-C*01:02

<400> 5604
Arg Glu Pro Val Thr Lys Ala Glu Met
1 5

<210> 5605
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 5605
Arg Glu Pro Val Thr Lys Ala Glu Met Leu
1 5 10

<210> 5606
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,
HLA-B*58:01,HLA-C*07:04

<400> 5606
Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr
1 5 10

<210> 5607
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*37:01

<400> 5607
Ser Asp Pro Ala Cys Tyr Glu Phe
1 5

<210> 5608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 5608
Ser Glu Phe Gln Ala Ala Leu Ser Arg
1 5

<210> 5609
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-C*07:01,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 5609
Ser Gly Gly Pro His Ile Ser Tyr
1 5

<210> 5610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:03

<400> 5610
Ser Lys Ala Ser Ser Ser Leu Gln Leu
1 5

<210> 5611
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:03

<400> 5611
Ser Lys Ala Ser Ser Ser Leu Gln Leu Val Phe
1 5 10

<210> 5612
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*46:01,HLA-C*01:02

<400> 5612
Ser Leu Pro Thr Thr Met Asn Tyr
1               5


<210> 5613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:07

<400> 5613
Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu
1               5                   10


<210> 5614
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*24:02

<400> 5614
Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp
1               5                   10


<210> 5615
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:04,HLA-B*37:01

<400> 5615
Ser Leu Gln Leu Val Phe Gly Ile
1               5


<210> 5616
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;

HLA -A*02:04,HLA-A*02:07

<400> 5616
Ser Leu Gln Leu Val Phe Gly Ile Glu Leu
1 5 10

<210> 5617
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*56:01

<400> 5617
Ser Pro Asp Pro Pro Gln Ser Pro Gln Gly Ala
1 5 10

<210> 5618
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*07:02

<400> 5618
Ser Pro Gln Gly Ala Ser Ser Leu
1 5

<210> 5619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,
HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*44:03,

<220>
<223> HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*07:01,HLA-C*07:06,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,
HLA-C*16:04

<400> 5619
Ser Ser Leu Pro Thr Thr Met Asn Tyr
1 5

<210> 5620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 5620
Ser Ser Leu Gln Leu Val Phe Gly Ile
1 5

<210> 5621
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*58:01

<400> 5621
Ser Ser Ser Leu Gln Leu Val Phe
1 5

<210> 5622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*68:02,HLA-B*13:02,HLA-B*56:01,
HLA-C*16:02

<400> 5622
Ser Ser Ser Ser Thr Leu Val Glu Val
1 5

<210> 5623
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*38:01

<400> 5623
Ser Ser Ser Ser Thr Leu Val Glu Val Thr Leu
1               5                   10


<210> 5624
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*68:02

<400> 5624
Ser Ser Ser Thr Leu Val Glu Val Thr Leu
1               5                   10


<210> 5625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*23:01,HLA-A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*35:03,
      HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*57:01,HLA-B*58:01,
      HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,HLA-C*07:06,HLA-C*16:01,

<220>
<223> HLA-C*16:02

<400> 5625
Ser Ser Thr Leu Val Glu Val Thr Leu
1               5


<210> 5626
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*57:01

<400> 5626
Ser Thr Phe Pro Asp Leu Glu Ser Glu Phe
1               5                   10


<210> 5627
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*25:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*57:01,HLA-C*07:06

<400> 5627
Ser Val Leu Glu Val Phe Glu Gly Arg
1 5

<210> 5628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*26:01

<400> 5628
Ser Val Val Gly Asn Trp Gln Tyr Phe
1 5

<210> 5629
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:03,HLA-B*38:01,HLA-C*04:01

<400> 5629
Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile
1 5 10

<210> 5630
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02

<400> 5630
Ser Tyr Pro Pro Leu His Glu Trp
1 5

<210> 5631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02

<400> 5631
Ser Tyr Pro Pro Leu His Glu Trp Val Leu
1 5 10

<210> 5632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*23:01,HLA-A*24:02,HLA-A*31:01

<400> 5632
Ser Tyr Val Lys Val Leu His His Met
1 5

<210> 5633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 5633
Thr Phe Pro Asp Leu Glu Ser Glu Phe
1 5

<210> 5634
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 5634

Thr Leu Gly Glu Val Pro Ala Ala
1               5


<210> 5635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*68:02

<400> 5635
Thr Leu Val Glu Val Thr Leu Gly Glu Val
1               5                   10


<210> 5636
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,
      HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,
      HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-C*07:04,

<220>
<223> HLA-C*16:04

<400> 5636
Thr Gln His Phe Val Gln Glu Asn Tyr
1               5


<210> 5637
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -B*38:01,HLA-B*39:01

<400> 5637
Thr Gln His Phe Val Gln Glu Asn Tyr Leu
1               5                   10


<210> 5638
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*03:01

<400> 5638
Thr Ser Tyr Val Lys Val Leu His His
1 5

<210> 5639
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -C*05:01

<400> 5639
Val Ala Glu Leu Val His Phe Leu
1 5

<210> 5640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07

<400> 5640
Val Ala Glu Leu Val His Phe Leu Leu
1 5

<210> 5641
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:03,HLA-B*18:01,HLA-B*37:01,HLA-C*04:01,HLA-C*06:02,
HLA-C*07:01

<400> 5641
Val Asp Pro Ile Gly His Leu Tyr
1 5

<210> 5642
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02

<400> 5642
Val Asp Pro Ile Gly His Leu Tyr Ile Phe
1 5 10

<210> 5643
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 5643
Val Glu Thr Ser Tyr Val Lys Val
1 5

<210> 5644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*02:02,
HLA-C*06:02,HLA-C*07:01,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,

<220>
<223> HLA-C*16:02,HLA-C*16:04

<400> 5644
Val Glu Thr Ser Tyr Val Lys Val Leu
1 5

<210> 5645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;

HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 5645
Val Glu Val Thr Leu Gly Glu Val
1 5

<210> 5646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 5646
Val Glu Val Thr Leu Gly Glu Val Pro
1 5

<210> 5647
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:02

<400> 5647
Val Glu Val Thr Leu Gly Glu Val Pro Ala
1 5 10

<210> 5648
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:01,HLA-B*40:02

<400> 5648
Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala
1 5 10

<210> 5649
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*29:02,HLA-C*07:01

<400> 5649
Val His Phe Leu Leu Leu Lys Tyr
1 5

<210> 5650
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:03,HLA-B*07:02,HLA-B*46:01,HLA-C*01:02

<400> 5650
Val Ile Phe Ser Lys Ala Ser Ser Ser Leu
1 5 10

<210> 5651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:03,HLA-B*38:01

<400> 5651
Val Lys Ile Ser Gly Gly Pro His Ile
1 5

<210> 5652
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*15:03,HLA-C*12:03

<400> 5652
Val Lys Ile Ser Gly Gly Pro His Ile Ser Tyr
1 5 10

<210> 5653
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -C*03:03

<400> 5653
Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln
1 5 10

<210> 5654
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*55:01

<400> 5654
Val Pro Gly Ser Asp Pro Ala Cys
1 5

<210> 5655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*30:02,HLA-B*35:01,HLA-B*55:01

<400> 5655
Val Pro Gly Ser Asp Pro Ala Cys Tyr
1 5

<210> 5656
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*35:01

<400> 5656
Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe
1 5 10

<210> 5657

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*01:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*39:01,
HLA-B*46:01,HLA-C*07:01

<400> 5657
Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 5658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*31:01

<400> 5658
Val Gln Glu Asn Tyr Leu Glu Tyr Arg
1 5

<210> 5659
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:03,HLA-B*40:02

<400> 5659
Val Thr Lys Ala Glu Met Leu Gly Ser Val
1 5 10

<210> 5660
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 5660
Val Thr Leu Gly Glu Val Pro Ala Ala

1 5

<210> 5661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*24:02

<400> 5661
Val Val Gly Asn Trp Gln Tyr Phe Phe
1 5

<210> 5662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*49:01

<400> 5662
Trp Glu Glu Leu Ser Val Leu Glu Val
1 5

<210> 5663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:04

<400> 5663
Tyr Glu Phe Leu Trp Gly Pro Arg Ala
1 5

<210> 5664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*29:02

<400> 5664
Tyr Phe Phe Pro Val Ile Phe Ser Lys
1               5


<210> 5665
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*68:02

<400> 5665
Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala
1               5                   10


<210> 5666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -A*02:03,HLA-A*02:07,HLA-A*68:02,HLA-B*13:02

<400> 5666
Tyr Ile Phe Ala Thr Cys Leu Gly Leu
1               5


<210> 5667
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
      HLA -B*35:01,HLA-B*51:01

<400> 5667
Tyr Pro Leu Trp Ser Gln Ser Tyr
1               5


<210> 5668
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;

HLA -B*51:01

<400> 5668
Tyr Pro Pro Leu His Glu Trp Val
1 5

<210> 5669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*02:07,HLA-A*24:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01

<400> 5669
Tyr Pro Pro Leu His Glu Trp Val Leu
1 5

<210> 5670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*27:02,HLA-B*27:05,HLA-B*39:01

<400> 5670
Tyr Arg Ala Arg Glu Pro Val Thr Lys
1 5

<210> 5671
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -B*08:01

<400> 5671
Tyr Val Lys Val Leu His His Met
1 5

<210> 5672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA3; ENSG00000221867;
HLA -A*68:02

<400> 5672
Tyr Val Lys Val Leu His His Met Val
1 5

<210> 5673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:03,HLA-B*39:01,
HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,HLA-C*14:02,HLA-C*16:01

<400> 5673
Ala Ala Val Ser Ser Ser Ser Pro Leu
1 5

<210> 5674
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*13:02,HLA-B*37:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 5674
Ala Glu Met Leu Glu Arg Val Ile
1 5

<210> 5675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*44:02

<400> 5675
Ala Glu Met Leu Glu Arg Val Ile Lys
1 5

<210> 5676
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*44:02

<400> 5676
Ala Glu Met Leu Glu Arg Val Ile Lys Asn
1 5 10

<210> 5677
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-A*30:02,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*57:01,HLA-C*16:04

<400> 5677
Ala Glu Met Leu Glu Arg Val Ile Lys Asn Tyr
1 5 10

<210> 5678
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*27:05

<400> 5678
Ala Glu Ser Ala Gly Pro Pro Gln Ser Pro
1 5 10

<210> 5679
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*37:01

<400> 5679

Ala Glu Ser Leu Phe Arg Glu Ala
1               5


<210> 5680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*30:01,HLA-B*07:02,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
      HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
      HLA-C*16:04

<400> 5680
Ala Glu Ser Leu Phe Arg Glu Ala Leu
1               5


<210> 5681
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:02,HLA-B*44:03,HLA-B*49:01

<400> 5681
Ala Glu Thr Ser Tyr Val Lys Val
1               5


<210> 5682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,
      HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
      HLA-C*02:02,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,

<220>
<223> HLA-C*16:04

<400> 5682
Ala Glu Thr Ser Tyr Val Lys Val Leu
1               5


<210> 5683

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*15:03,HLA-C*04:01

<400> 5683
Ala Lys Glu Leu Val Thr Lys Ala Glu Met
1 5 10

<210> 5684
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*55:01

<400> 5684
Ala Leu Ala Glu Thr Ser Tyr Val
1 5

<210> 5685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*02:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*68:01,HLA-B*13:02,
HLA-B*27:02,HLA-B*27:05,HLA-B*46:01,HLA-C*07:06

<400> 5685
Ala Leu Ala Glu Thr Ser Tyr Val Lys
1 5

<210> 5686
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*55:01

<400> 5686

Ala Leu Ala Glu Thr Ser Tyr Val Lys Val
1               5                   10


<210> 5687
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 5687
Ala Leu Ala Glu Thr Ser Tyr Val Lys Val Leu
1               5                   10


<210> 5688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*02:01,HLA-A*02:03,HLA-B*55:01,HLA-B*56:01

<400> 5688
Ala Leu Gly Leu Val Gly Ala Gln Ala
1               5


<210> 5689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
      HLA-B*55:01

<400> 5689
Ala Leu Leu Glu Glu Glu Glu Gly Val
1               5


<210> 5690
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;

HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-B*08:01,HLA-B*15:01,
HLA-B*37:01,HLA-B*46:01,HLA-C*01:02,HLA-C*14:02

<400> 5690
Ala Leu Pro Thr Thr Ile Ser Phe
1 5

<210> 5691
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03,HLA-A*02:07

<400> 5691
Ala Leu Pro Thr Thr Ile Ser Phe Thr
1 5

<210> 5692
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:07,HLA-A*24:02

<400> 5692
Ala Leu Pro Thr Thr Ile Ser Phe Thr Cys Trp
1 5 10

<210> 5693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*27:05,
HLA-B*55:01

<400> 5693
Ala Leu Ser Asn Lys Val Asp Glu Leu
1 5

<210> 5694
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*35:03,HLA-B*55:01,HLA-B*56:01

<400> 5694
Ala Pro Thr Thr Glu Glu Gln Glu Ala
1 5

<210> 5695
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*56:01

<400> 5695
Ala Pro Thr Thr Glu Glu Gln Glu Ala Ala
1 5 10

<210> 5696
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*56:01

<400> 5696
Ala Pro Thr Thr Glu Glu Gln Glu Ala Ala Val
1 5 10

<210> 5697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*13:02,HLA-B*15:01,HLA-B*27:05,HLA-B*39:01

<400> 5697
Ala Gln Ala Pro Thr Thr Glu Glu Gln
1 5

<210> 5698

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*27:05,HLA-B*39:01

<400> 5698
Ala Gln Ala Pro Thr Thr Glu Glu Gln Glu Ala
1 5 10

<210> 5699
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*25:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*01:02

<400> 5699
Ala Ser Ala Leu Pro Thr Thr Ile Ser Phe
1 5 10

<210> 5700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-B*57:01,HLA-B*58:01

<400> 5700
Ala Ser Glu Ser Leu Lys Met Ile Phe
1 5

<210> 5701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*11:01

<400> 5701
Ala Ser Asn Thr Tyr Thr Leu Val Thr
1 5

<210> 5702
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*37:01

<400> 5702
Ala Val Ser Ser Ser Ser Pro Leu
1 5

<210> 5703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:02,
HLA-A*26:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*27:05,
HLA-B*38:01,HLA-B*39:01,HLA-B*55:01,HLA-C*06:02,HLA-C*16:02

<400> 5703
Ala Val Ser Ser Ser Ser Pro Leu Val
1 5

<210> 5704
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01

<400> 5704
Ala Val Ser Ser Ser Ser Pro Leu Val Pro Gly
1 5 10

<210> 5705
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*24:02

<400> 5705
Ala Tyr Pro Ser Leu Arg Glu Ala Ala Leu
1               5                   10


<210> 5706
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*24:02

<400> 5706
Ala Tyr Pro Ser Leu Arg Glu Ala Ala Leu Leu
1               5                   10


<210> 5707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*33:01,HLA-B*51:01,HLA-B*54:01

<400> 5707
Asp Ala Glu Ser Leu Phe Arg Glu Ala
1               5


<210> 5708
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*44:02

<400> 5708
Asp Glu Leu Ala His Phe Leu Leu
1               5


<210> 5709
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:01

<400> 5709
Asp Glu Leu Ala His Phe Leu Leu Arg
1 5

<210> 5710
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*44:02

<400> 5710
Asp Glu Leu Ala His Phe Leu Leu Arg Lys Tyr
1 5 10

<210> 5711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*51:01

<400> 5711
Asp Gly Leu Leu Gly Asn Asn Gln Ile
1 5

<210> 5712
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*08:01,HLA-B*15:03,HLA-B*18:01

<400> 5712
Asp Gly Arg Glu His Thr Val Tyr
1 5

<210> 5713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*25:01,HLA-A*33:01,HLA-A*68:01,HLA-A*68:02,
HLA-B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,

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<223> HLA-C*07:02

<400> 5713
Asp Pro Ala Ser Asn Thr Tyr Thr Leu
1 5

<210> 5714
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:01,HLA-B*51:01

<400> 5714
Asp Pro Ala Ser Asn Thr Tyr Thr Leu Val
1 5 10

<210> 5715
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*27:02

<400> 5715
Asp Pro Ala Ser Asn Thr Tyr Thr Leu Val Thr
1 5 10

<210> 5716
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 5716
Asp Val Lys Glu Val Asp Pro Ala Ser Asn

1 5 10

<210> 5717
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:02,HLA-B*27:02

<400> 5717
Glu Ala Ala Leu Leu Glu Glu Glu Glu Gly Val
1 5 10

<210> 5718
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*54:01

<400> 5718
Glu Ala Leu Gly Leu Val Gly Ala
1 5

<210> 5719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*27:05,HLA-C*04:01,
HLA-C*07:01,HLA-C*12:03

<400> 5719
Glu Ala Leu Gly Leu Val Gly Ala Gln
1 5

<210> 5720
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:03,HLA-B*54:01

<400> 5720
Glu Ala Leu Gly Leu Val Gly Ala Gln Ala
1               5                   10


<210> 5721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*25:01,HLA-A*33:03,HLA-A*68:01

<400> 5721
Glu Ala Leu Ser Asn Lys Val Asp Glu Leu
1               5                   10


<210> 5722
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*33:01,HLA-A*33:03,HLA-B*35:03

<400> 5722
Glu Ala Gln Glu Glu Ala Leu Gly Leu
1               5


<210> 5723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 5723
Glu Glu Ala Leu Gly Leu Val Gly Ala
1               5


<210> 5724
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*44:03

<400> 5724
Glu Glu Ala Leu Gly Leu Val Gly Ala Gln Ala
1 5 10

<210> 5725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*39:01

<400> 5725
Glu Glu Glu Gly Pro Ser Thr Ser Pro
1 5

<210> 5726
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*39:01

<400> 5726
Glu Glu Glu Gly Pro Ser Thr Ser Pro Asp Ala
1 5 10

<210> 5727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*49:01

<400> 5727
Glu Glu Ile Trp Glu Glu Leu Gly Val
1 5

<210> 5728
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 5728
Glu Glu Leu Gly Val Met Gly Val
1 5

<210> 5729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,
HLA-A*33:03,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,
HLA-B*35:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,

<220>
<223> HLA-B*44:03,HLA-C*16:04

<400> 5729
Glu Glu Leu Gly Val Met Gly Val Tyr
1 5

<210> 5730
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*18:01

<400> 5730
Glu Glu Val Pro Ala Ala Glu Ser
1 5

<210> 5731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5731
Glu Glu Val Pro Ala Ala Glu Ser Ala

1 5

<210> 5732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 5732
Glu His Thr Val Tyr Gly Glu Pro Arg
1 5

<210> 5733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:01,HLA-A*33:03

<400> 5733
Glu His Val Val Arg Val Asn Ala Arg
1 5

<210> 5734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*26:01

<400> 5734
Glu Ile Trp Glu Glu Leu Gly Val Met
1 5

<210> 5735
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:07,HLA-A*68:02

<400> 5735
Glu Ile Trp Glu Glu Leu Gly Val Met Gly Val
1               5                   10


<210> 5736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*03:01

<400> 5736
Glu Leu Ala His Phe Leu Leu Arg Lys
1               5


<210> 5737
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*26:01,HLA-A*29:02

<400> 5737
Glu Leu Ala His Phe Leu Leu Arg Lys Tyr
1               5                   10


<210> 5738
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*25:01,HLA-A*26:01,HLA-B*15:01,HLA-C*07:01,HLA-C*07:04

<400> 5738
Glu Leu Gly Val Met Gly Val Tyr
1               5


<210> 5739
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;

HLA -B*08:01

<400> 5739
Glu Leu Val Thr Lys Ala Glu Met
1 5

<210> 5740
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-B*08:01

<400> 5740
Glu Leu Val Thr Lys Ala Glu Met Leu
1 5

<210> 5741
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 5741
Glu Leu Val Thr Lys Ala Glu Met Leu Glu Arg
1 5 10

<210> 5742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*25:01,HLA-A*26:01,HLA-B*44:02

<400> 5742
Glu Met Leu Glu Arg Val Ile Lys Asn Tyr
1 5 10

<210> 5743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:01,HLA-A*33:03,HLA-B*51:01

<400> 5743
Glu Asn Tyr Leu Glu Tyr Arg Gln Val
1 5

<210> 5744
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*39:01

<400> 5744
Glu Ser Ala Gly Pro Pro Gln Ser Pro
1 5

<210> 5745
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*08:01

<400> 5745
Glu Ser Leu Phe Arg Glu Ala Leu
1 5

<210> 5746
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:01

<400> 5746
Glu Ser Leu Phe Arg Glu Ala Leu Ser Asn Lys
1 5 10

<210> 5747
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*08:01

<400> 5747
Glu Thr Ser Tyr Val Lys Val Leu
1 5

<210> 5748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:02

<400> 5748
Glu Thr Ser Tyr Val Lys Val Leu Glu
1 5

<210> 5749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*26:01,HLA-A*68:01

<400> 5749
Glu Thr Ser Tyr Val Lys Val Leu Glu His
1 5 10

<210> 5750
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:02

<400> 5750
Glu Thr Ser Tyr Val Lys Val Leu Glu His Val
1 5 10

<210> 5751

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*35:01,HLA-B*38:01,HLA-B*39:01,HLA-B*44:03,

<220>
<223> HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,HLA-C*03:03,HLA-C*05:01,
HLA-C*07:04,HLA-C*07:06,HLA-C*16:02,HLA-C*16:04

<400> 5751
Glu Val Asp Pro Ala Ser Asn Thr Tyr
1 5

<210> 5752
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01

<400> 5752
Glu Val Asp Pro Ala Ser Asn Thr Tyr Thr
1 5 10

<210> 5753
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:02,HLA-A*23:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,

<220>
<223> HLA-B*55:01,HLA-B*58:01,HLA-C*05:01

<400> 5753
Glu Val Asp Pro Ala Ser Asn Thr Tyr Thr Leu
1 5 10

<210> 5754
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*26:01

<400> 5754
Glu Val Pro Ala Ala Glu Ser Ala Gly Pro
1 5 10

<210> 5755
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*33:03

<400> 5755
Glu Tyr Arg Gln Val Pro Gly Ser Asn Pro
1 5 10

<210> 5756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*46:01,HLA-B*49:01,HLA-B*51:01,HLA-C*12:03,HLA-C*16:02

<400> 5756
Phe Gly Ile Asp Val Lys Glu Val
1 5

<210> 5757
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*08:01,HLA-B*46:01

<400> 5757
Phe Gly Lys Ala Ser Glu Ser Leu
1 5

<210> 5758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*07:02

<400> 5758
Phe Gly Lys Ala Ser Glu Ser Leu Lys
1 5

<210> 5759
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 5759
Phe Leu Trp Gly Pro Arg Ala Leu
1 5

<210> 5760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07

<400> 5760
Phe Leu Trp Gly Pro Arg Ala Leu Ala
1 5

<210> 5761
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5761
Phe Leu Trp Gly Pro Arg Ala Leu Ala Glu Thr
1 5 10

<210> 5762
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*51:01

<400> 5762
Phe Pro Lys Thr Gly Leu Leu Ile
1 5

<210> 5763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*51:01,HLA-B*54:01

<400> 5763
Phe Pro Lys Thr Gly Leu Leu Ile Ile
1 5

<210> 5764
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*54:01

<400> 5764
Phe Pro Lys Thr Gly Leu Leu Ile Ile Val
1 5 10

<210> 5765
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 5765

Phe Pro Val Ile Phe Gly Lys Ala
1               5


<210> 5766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*54:01,HLA-B*56:01

<400> 5766
Phe Pro Val Ile Phe Gly Lys Ala Ser
1               5


<210> 5767
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*54:01

<400> 5767
Phe Pro Val Ile Phe Gly Lys Ala Ser Glu Ser
1               5                   10


<210> 5768
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -C*06:02

<400> 5768
Phe Arg Glu Ala Leu Ser Asn Lys Val
1               5


<210> 5769
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*02:03,HLA-A*30:01,HLA-B*13:02,HLA-B*15:03,HLA-B*49:01,

HLA-B*51:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:02,
HLA-C*16:04

<400> 5769
Gly Ala Ser Ala Leu Pro Thr Thr Ile
1 5

<210> 5770
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*44:02

<400> 5770
Gly Glu Pro Arg Lys Leu Leu Thr Gln Asp Trp
1 5 10

<210> 5771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*15:03

<400> 5771
Gly Lys Ala Ser Glu Ser Leu Lys Met
1 5

<210> 5772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*29:02,HLA-B*15:01,HLA-B*15:03

<400> 5772
Gly Leu Leu Gly Asn Asn Gln Ile Phe
1 5

<210> 5773
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:04,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*29:02,
HLA-A*31:01,HLA-B*27:02

<400> 5773
Gly Leu Leu Gly Asn Asn Gln Ile Phe Pro Lys
1 5 10

<210> 5774
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:04

<400> 5774
Gly Leu Leu Ile Ile Val Leu Gly Thr Ile
1 5 10

<210> 5775
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*11:01

<400> 5775
Gly Asn Asn Gln Ile Phe Pro Lys
1 5

<210> 5776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*56:01

<400> 5776
Gly Pro Pro Gln Ser Pro Gln Gly Ala
1 5

<210> 5777

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*56:01

<400> 5777
Gly Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala
1 5 10

<210> 5778
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:02,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*55:01

<400> 5778
Gly Pro Arg Ala Leu Ala Glu Thr Ser Tyr
1 5 10

<210> 5779
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02

<400> 5779
Gly Pro Arg Ala Leu Ala Glu Thr Ser Tyr Val
1 5 10

<210> 5780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,
HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*37:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,

<220>

<223> HLA-C*16:01,HLA-C*16:04

<400> 5780
Gly Ser Asn Pro Ala Arg Tyr Glu Phe
1               5


<210> 5781
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*57:01

<400> 5781
Gly Ser Asn Pro Ala Arg Tyr Glu Phe Leu Trp
1               5                   10


<210> 5782
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*02:01

<400> 5782
Gly Thr Leu Glu Glu Val Pro Ala Ala
1               5


<210> 5783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
      HLA-A*68:01,HLA-C*07:06

<400> 5783
Gly Val Met Gly Val Tyr Asp Gly Arg
1               5


<210> 5784
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*30:01,HLA-A*32:01,HLA-A*68:02,HLA-B*08:01,HLA-B*13:02,

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<223> HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*37:01,HLA-B*40:02,
HLA-B*46:01,HLA-B*49:01,HLA-B*51:01,HLA-B*55:01,HLA-B*56:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*03:04,HLA-C*06:02,HLA-C*12:03,
HLA-C*16:02,HLA-C*16:04

<400> 5784
Gly Val Tyr Asp Gly Arg Glu His Thr Val
1 5 10

<210> 5785
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*27:05,HLA-B*35:01,HLA-B*46:01,HLA-B*55:01,

<220>
<223> HLA-B*58:01,HLA-C*02:02,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,
HLA-C*16:04

<400> 5785
Gly Val Tyr Asp Gly Arg Glu His Thr Val Tyr
1 5 10

<210> 5786
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:01

<400> 5786
His Thr Val Tyr Gly Glu Pro Arg
1 5

<210> 5787
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:01

<400> 5787
His Val Val Arg Val Asn Ala Arg
1 5

<210> 5788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:02

<400> 5788
His Val Val Arg Val Asn Ala Arg Val
1 5

<210> 5789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*46:01,HLA-B*54:01,HLA-B*56:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*14:02

<400> 5789
Ile Ala Met Glu Gly Asp Ser Ala
1 5

<210> 5790
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*32:01,
HLA-B*08:01,HLA-B*13:02,HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,

<220>
<223> HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*06:02,HLA-C*12:03,

HLA-C*16:01,HLA-C*16:02

<400> 5790
Ile Ala Tyr Pro Ser Leu Arg Glu Ala
1 5

<210> 5791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*54:01,HLA-B*56:01

<400> 5791
Ile Ala Tyr Pro Ser Leu Arg Glu Ala Ala
1 5 10

<210> 5792
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*24:02,HLA-B*07:02,HLA-B*35:03,HLA-B*46:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04

<400> 5792
Ile Ala Tyr Pro Ser Leu Arg Glu Ala Ala Leu
1 5 10

<210> 5793
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*24:02,HLA-C*14:02

<400> 5793
Ile Phe Gly Lys Ala Ser Glu Ser Leu
1 5

<210> 5794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*24:02

<400> 5794
Ile Phe Pro Lys Thr Gly Leu Leu Ile
1 5

<210> 5795
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*24:02

<400> 5795
Ile Phe Pro Lys Thr Gly Leu Leu Ile Ile
1 5 10

<210> 5796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*35:03,HLA-B*39:01,HLA-B*46:01,HLA-C*01:02,HLA-C*03:03,
HLA-C*03:04,HLA-C*07:04,HLA-C*14:02

<400> 5796
Ile Ile Val Leu Gly Thr Ile Ala Met
1 5

<210> 5797
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*46:01,HLA-C*14:02

<400> 5797
Ile Val Leu Gly Thr Ile Ala Met
1 5

<210> 5798
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*04:01

<400> 5798
Ile Val Leu Gly Thr Ile Ala Met Glu Gly
1 5 10

<210> 5799
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*37:01,HLA-B*58:01,HLA-C*16:01

<400> 5799
Lys Ala Ser Glu Ser Leu Lys Met
1 5

<210> 5800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*06:02,HLA-C*16:02

<400> 5800
Lys Ala Ser Glu Ser Leu Lys Met Ile
1 5

<210> 5801
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*57:01

<400> 5801
Lys Ala Ser Glu Ser Leu Lys Met Ile Phe

1 5 10

<210> 5802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5802
Lys Glu Leu Val Thr Lys Ala Glu Met
1 5

<210> 5803
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 5803
Lys Glu Leu Val Thr Lys Ala Glu Met Leu
1 5 10

<210> 5804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5804
Lys Glu Val Asp Pro Ala Ser Asn Thr
1 5

<210> 5805
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:01,

HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,

<220>
<223> HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*49:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 5805
Lys Glu Val Asp Pro Ala Ser Asn Thr Tyr
1 5 10

<210> 5806
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5806
Lys Glu Val Asp Pro Ala Ser Asn Thr Tyr Thr
1 5 10

<210> 5807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*03:02

<400> 5807
Lys Met Ile Phe Gly Ile Asp Val Lys
1 5

<210> 5808
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03

<400> 5808
Lys Met Ile Phe Gly Ile Asp Val Lys Glu Val
1 5 10

<210> 5809
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:07,HLA-C*05:01

<400> 5809
Lys Val Asp Glu Leu Ala His Phe
1 5

<210> 5810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*31:01,HLA-A*68:02,HLA-B*13:02,HLA-B*38:01,
HLA-B*40:01,HLA-B*55:01,HLA-B*58:01,HLA-C*05:01

<400> 5810
Lys Val Asp Glu Leu Ala His Phe Leu
1 5

<210> 5811
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*31:01,
HLA-A*68:02

<400> 5811
Lys Val Asp Glu Leu Ala His Phe Leu Leu
1 5 10

<210> 5812
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:07,HLA-A*03:01,HLA-A*31:01

<400> 5812
Lys Val Asp Glu Leu Ala His Phe Leu Leu Arg
1               5                   10


<210> 5813
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*31:01,HLA-B*57:01

<400> 5813
Lys Val Leu Glu His Val Val Arg
1               5


<210> 5814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
      HLA-A*03:02,HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,
      HLA-B*37:01,HLA-B*40:02,HLA-B*55:01,HLA-C*02:02

<400> 5814
Lys Val Leu Glu His Val Val Arg Val
1               5


<210> 5815
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*03:01

<400> 5815
Lys Val Leu Glu His Val Val Arg Val Asn
1               5                   10


<210> 5816
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01

<400> 5816
Lys Val Leu Glu His Val Val Arg Val Asn Ala
1 5 10

<210> 5817
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01

<400> 5817
Lys Tyr Arg Ala Lys Glu Leu Val Thr Lys
1 5 10

<210> 5818
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*27:02

<400> 5818
Leu Ala Glu Thr Ser Tyr Val Lys
1 5

<210> 5819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-C*05:01

<400> 5819
Leu Ala Glu Thr Ser Tyr Val Lys Val
1 5

<210> 5820
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*29:02,HLA-B*57:01

<400> 5820
Leu Ala His Phe Leu Leu Arg Lys Tyr
1 5

<210> 5821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*40:02

<400> 5821
Leu Glu His Val Val Arg Val Asn Ala
1 5

<210> 5822
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*18:01,HLA-B*37:01

<400> 5822
Leu Glu Arg Val Ile Lys Asn Tyr
1 5

<210> 5823
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 5823
Leu Gly Asn Asn Gln Ile Phe Pro Lys
1 5

<210> 5824
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*27:02

<400> 5824
Leu Gly Val Met Gly Val Tyr Asp Gly Arg
1 5 10

<210> 5825
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*46:01

<400> 5825
Leu Ile Ile Val Leu Gly Thr Ile Ala Met
1 5 10

<210> 5826
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5826
Leu Leu Gly Asn Asn Gln Ile Phe Pro Lys
1 5 10

<210> 5827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5827
Leu Leu Ile Ile Val Leu Gly Thr Ile
1 5

<210> 5828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*35:03,HLA-B*54:01,HLA-B*56:01

<400> 5828
Leu Pro Thr Thr Ile Ser Phe Thr Cys
1 5

<210> 5829
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*35:01,HLA-B*51:01,HLA-B*54:01

<400> 5829
Leu Pro Thr Thr Ile Ser Phe Thr Cys Trp
1 5 10

<210> 5830
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*58:01

<400> 5830
Leu Ser Asn Lys Val Asp Glu Leu
1 5

<210> 5831
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*57:01

<400> 5831

Leu Ser Asn Lys Val Asp Glu Leu Ala His Phe
1               5                   10


<210> 5832
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -C*06:02

<400> 5832
Leu Ser Tyr Asp Gly Leu Leu Gly Asn Asn
1               5                   10


<210> 5833
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01,
      HLA-B*58:01,HLA-C*07:01

<400> 5833
Leu Thr Gln Asp Trp Val Gln Glu Asn Tyr
1               5                   10


<210> 5834
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -C*04:01

<400> 5834
Leu Thr Gln Asp Trp Val Gln Glu Asn Tyr Leu
1               5                   10


<210> 5835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;

HLA -A*02:01,HLA-A*02:03,HLA-A*02:07

<400> 5835
Leu Val Pro Gly Thr Leu Glu Glu Val
1 5

<210> 5836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 5836
Leu Val Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 5837
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*27:02

<400> 5837
Met Ile Phe Gly Ile Asp Val Lys
1 5

<210> 5838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:02

<400> 5838
Met Ile Phe Gly Ile Asp Val Lys Glu
1 5

<210> 5839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*26:01,
HLA-A*68:02

<400> 5839
Met Ile Phe Gly Ile Asp Val Lys Glu Val
1 5 10

<210> 5840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*02:07,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*57:01

<400> 5840
Met Leu Glu Arg Val Ile Lys Asn Tyr
1 5

<210> 5841
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*46:01,HLA-C*16:01

<400> 5841
Asn Ala Arg Val Arg Ile Ala Tyr
1 5

<210> 5842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-B*15:03

<400> 5842
Asn Lys Val Asp Glu Leu Ala His Phe
1 5

<210> 5843

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*38:01,HLA-B*39:01

<400> 5843
Asn Gln Ile Phe Pro Lys Thr Gly Leu
1 5

<210> 5844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*18:01,HLA-B*35:03,HLA-B*39:01,HLA-B*40:02,
HLA-C*06:02,HLA-C*12:03

<400> 5844
Asn Thr Tyr Thr Leu Val Thr Cys Leu
1 5

<210> 5845
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*24:02

<400> 5845
Asn Tyr Lys Arg Cys Phe Pro Val Ile
1 5

<210> 5846
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-B*07:02

<400> 5846

Pro Ala Ser Asn Thr Tyr Thr Leu
1               5


<210> 5847
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*27:02

<400> 5847
Pro Asp Ala Glu Ser Leu Phe Arg
1               5


<210> 5848
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*30:02

<400> 5848
Pro Gly Ser Asn Pro Ala Arg Tyr
1               5


<210> 5849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*02:01,HLA-A*02:03

<400> 5849
Pro Leu Val Pro Gly Thr Leu Glu Glu Val
1               5                   10


<210> 5850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*07:02,HLA-B*15:03,HLA-B*27:02,HLA-C*07:01

<400> 5850
Pro Arg Ala Leu Ala Glu Thr Ser Tyr
1               5


<210> 5851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*57:01

<400> 5851
Pro Thr Thr Ile Ser Phe Thr Cys Trp
1               5


<210> 5852
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*18:01

<400> 5852
Gln Asp Trp Val Gln Glu Asn Tyr
1               5


<210> 5853
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*30:01,HLA-B*37:01

<400> 5853
Gln Asp Trp Val Gln Glu Asn Tyr Leu
1               5


<210> 5854
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:01

<400> 5854
Gln Glu Ala Ala Val Ser Ser Ser Ser Pro Leu
1 5 10

<210> 5855
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*49:01

<400> 5855
Gln Glu Glu Ala Leu Gly Leu Val
1 5

<210> 5856
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:02,HLA-B*49:01

<400> 5856
Gln Glu Glu Ala Leu Gly Leu Val Gly Ala
1 5 10

<210> 5857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*49:01

<400> 5857
Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val
1 5 10

<210> 5858
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*08:01

<400> 5858
Gln Ile Phe Pro Lys Thr Gly Leu
1 5

<210> 5859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03,HLA-A*03:01,HLA-B*08:01,HLA-B*15:03

<400> 5859
Gln Ile Phe Pro Lys Thr Gly Leu Leu
1 5

<210> 5860
<211> 10
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<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03

<400> 5860
Gln Ile Phe Pro Lys Thr Gly Leu Leu Ile
1 5 10

<210> 5861
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 5861
Gln Ile Phe Pro Lys Thr Gly Leu Leu Ile Ile
1 5 10

<210> 5862
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*01:02

<400> 5862
Gln Ser Pro Gln Gly Ala Ser Ala Leu
1 5

<210> 5863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:01

<400> 5863
Gln Val Pro Gly Ser Asn Pro Ala Arg
1 5

<210> 5864
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*68:01,HLA-B*15:01,HLA-C*07:04

<400> 5864
Gln Val Pro Gly Ser Asn Pro Ala Arg Tyr
1 5 10

<210> 5865
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*57:01

<400> 5865
Arg Ala Lys Glu Leu Val Thr Lys
1 5

<210> 5866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03,HLA-A*32:01,HLA-B*54:01,HLA-B*55:01

<400> 5866
Arg Ala Lys Glu Leu Val Thr Lys Ala
1 5

<210> 5867
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 5867
Arg Ala Leu Ala Glu Thr Ser Tyr Val Lys
1 5 10

<210> 5868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*57:01

<400> 5868
Arg Cys Phe Pro Val Ile Phe Gly Lys
1 5

<210> 5869
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*37:01,HLA-B*49:01

<400> 5869
Arg Glu Ala Leu Ser Asn Lys Val

1 5

<210> 5870
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 5870
Arg Glu Ala Leu Ser Asn Lys Val Asp Glu Leu
1 5 10

<210> 5871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01

<400> 5871
Arg Ile Ala Tyr Pro Ser Leu Arg Glu
1 5

<210> 5872
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03

<400> 5872
Arg Ile Ala Tyr Pro Ser Leu Arg Glu Ala
1 5 10

<210> 5873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*15:01

<400> 5873
Arg Gln Val Pro Gly Ser Asn Pro Ala
1               5


<210> 5874
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*31:01,HLA-B*27:05

<400> 5874
Arg Gln Val Pro Gly Ser Asn Pro Ala Arg
1               5                   10


<210> 5875
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
      HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 5875
Arg Gln Val Pro Gly Ser Asn Pro Ala Arg Tyr
1               5                   10


<210> 5876
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*31:01

<400> 5876
Arg Val Ile Lys Asn Tyr Lys Arg
1               5


<210> 5877
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*30:02,HLA-A*32:01

<400> 5877
Arg Val Asn Ala Arg Val Arg Ile Ala Tyr
1 5 10

<210> 5878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01,HLA-B*07:02,HLA-B*57:01

<400> 5878
Arg Val Arg Ile Ala Tyr Pro Ser Leu
1 5

<210> 5879
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*31:01

<400> 5879
Arg Val Arg Ile Ala Tyr Pro Ser Leu Arg
1 5 10

<210> 5880
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*11:01,HLA-A*23:01,
HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:01,
HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,

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<223> HLA-A*68:01,HLA-A*68:02,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,

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<223> HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,HLA-C*07:02,
HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 5880
Ser Ala Leu Pro Thr Thr Ile Ser Phe
1 5

<210> 5881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:01

<400> 5881
Ser Glu Glu Glu Ile Trp Glu Glu Leu
1 5

<210> 5882
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 5882
Ser Glu Ser Leu Lys Met Ile Phe
1 5

<210> 5883
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*03:02

<400> 5883
Ser Leu Phe Arg Glu Ala Leu Ser Asn Lys
1 5 10

<210> 5884
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03

<400> 5884
Ser Leu Lys Met Ile Phe Gly Ile Asp Val
1 5 10

<210> 5885
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*55:01,HLA-C*05:01

<400> 5885
Ser Pro Asp Ala Glu Ser Leu Phe
1 5

<210> 5886
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 5886
Ser Pro Asp Ala Glu Ser Leu Phe Arg Glu Ala
1 5 10

<210> 5887
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 5887
Ser Pro Leu Val Pro Gly Thr Leu
1 5

<210> 5888
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*54:01,HLA-B*56:01

<400> 5888
Ser Pro Leu Val Pro Gly Thr Leu Glu Glu Val
1 5 10

<210> 5889
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02,HLA-C*07:02

<400> 5889
Ser Pro Gln Gly Ala Ser Ala Leu
1 5

<210> 5890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*39:01

<400> 5890
Ser Gln Glu Glu Glu Gly Pro Ser Thr
1 5

<210> 5891
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:07,HLA-A*31:01,HLA-B*07:02,HLA-B*46:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*07:02

<400> 5891
Ser Ser Pro Leu Val Pro Gly Thr Leu

1 5

<210> 5892
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:02

<400> 5892
Ser Ser Ser Pro Leu Val Pro Gly Thr Leu
1 5 10

<210> 5893
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*57:01

<400> 5893
Ser Thr Ser Pro Asp Ala Glu Ser Leu Phe
1 5 10

<210> 5894
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*11:01,HLA-A*68:01,HLA-C*07:06

<400> 5894
Ser Thr Ser Pro Asp Ala Glu Ser Leu Phe Arg
1 5 10

<210> 5895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*04:01

<400> 5895
Ser Tyr Asp Gly Leu Leu Gly Asn Asn
1               5


<210> 5896
<211> 11
<212> PRT
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<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*23:01,HLA-A*24:02,HLA-B*35:03,HLA-B*38:01,HLA-C*04:01

<400> 5896
Ser Tyr Asp Gly Leu Leu Gly Asn Asn Gln Ile
1               5                   10


<210> 5897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*23:01,HLA-A*24:02,HLA-A*68:02

<400> 5897
Ser Tyr Val Lys Val Leu Glu His Val
1               5


<210> 5898
<211> 10
<212> PRT
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<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*24:02

<400> 5898
Ser Tyr Val Lys Val Leu Glu His Val Val
1               5                   10


<210> 5899
<211> 11
<212> PRT
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<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;

HLA -A*31:01

<400> 5899
Ser Tyr Val Lys Val Leu Glu His Val Val Arg
1 5 10

<210> 5900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*39:01

<400> 5900
Thr Ile Ala Met Glu Gly Asp Ser Ala
1 5

<210> 5901
<211> 10
<212> PRT
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<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*29:02

<400> 5901
Thr Leu Val Thr Cys Leu Gly Leu Ser Tyr
1 5 10

<210> 5902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*38:01,HLA-B*39:01

<400> 5902
Thr Gln Asp Trp Val Gln Glu Asn Tyr
1 5

<210> 5903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*38:01

<400> 5903
Thr Gln Asp Trp Val Gln Glu Asn Tyr Leu
1 5 10

<210> 5904
<211> 8
<212> PRT
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<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*01:02

<400> 5904
Thr Ser Pro Asp Ala Glu Ser Leu
1 5

<210> 5905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*01:02,HLA-C*05:01

<400> 5905
Thr Ser Pro Asp Ala Glu Ser Leu Phe
1 5

<210> 5906
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*68:01,HLA-B*27:02

<400> 5906
Thr Ser Pro Asp Ala Glu Ser Leu Phe Arg
1 5 10

<210> 5907
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*11:01,HLA-C*07:06,HLA-C*12:03

<400> 5907
Thr Ser Tyr Val Lys Val Leu Glu His
1 5

<210> 5908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03,HLA-A*68:02

<400> 5908
Thr Ser Tyr Val Lys Val Leu Glu His Val
1 5 10

<210> 5909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*05:01

<400> 5909
Thr Thr Glu Glu Gln Glu Ala Ala Val
1 5

<210> 5910
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*25:01,HLA-B*57:01

<400> 5910
Thr Thr Ile Ser Phe Thr Cys Trp
1 5

<210> 5911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01

<400> 5911
Thr Thr Ile Ser Phe Thr Cys Trp Arg
1 5

<210> 5912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,
HLA-A*31:01,HLA-A*68:01,HLA-A*68:02,HLA-C*06:02,HLA-C*12:03

<400> 5912
Thr Val Tyr Gly Glu Pro Arg Lys Leu
1 5

<210> 5913
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 5913
Thr Tyr Thr Leu Val Thr Cys Leu
1 5

<210> 5914
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*37:01,HLA-B*40:02,HLA-C*07:04

<400> 5914
Val Asp Glu Leu Ala His Phe Leu

1 5

<210> 5915
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*15:03,HLA-B*37:01,HLA-B*39:01,HLA-C*01:02,HLA-C*04:01,
HLA-C*07:01

<400> 5915
Val Asp Pro Ala Ser Asn Thr Tyr
1 5

<210> 5916
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02

<400> 5916
Val Asp Pro Ala Ser Asn Thr Tyr Thr Leu
1 5 10

<210> 5917
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:01

<400> 5917
Val Glu Ala Gln Glu Glu Ala Leu
1 5

<210> 5918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,HLA-B*49:01

<400> 5918
Val Glu Ala Gln Glu Glu Ala Leu Gly Leu
1               5                   10


<210> 5919
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*49:01

<400> 5919
Val Glu Ala Gln Glu Glu Ala Leu Gly Leu Val
1               5                   10


<210> 5920
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 5920
Val Ile Phe Gly Lys Ala Ser Glu Ser Leu Lys
1               5                   10


<210> 5921
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*15:03

<400> 5921
Val Lys Glu Val Asp Pro Ala Ser Asn Thr Tyr
1               5                   10


<210> 5922
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:07

<400> 5922
Val Leu Glu His Val Val Arg Val Asn Ala
1 5 10

<210> 5923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:02,HLA-A*32:01,HLA-B*46:01,HLA-C*16:01

<400> 5923
Val Asn Ala Arg Val Arg Ile Ala Tyr
1 5

<210> 5924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*35:01,HLA-B*55:01

<400> 5924
Val Pro Gly Ser Asn Pro Ala Arg Tyr
1 5

<210> 5925
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*35:01

<400> 5925
Val Pro Gly Ser Asn Pro Ala Arg Tyr Glu Phe
1 5 10

<210> 5926
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*51:01,HLA-B*56:01

<400> 5926
Val Pro Gly Thr Leu Glu Glu Val
1 5

<210> 5927
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*56:01

<400> 5927
Val Pro Gly Thr Leu Glu Glu Val Pro Ala Ala
1 5 10

<210> 5928
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*39:01,
HLA-C*07:01

<400> 5928
Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 5929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01

<400> 5929
Val Gln Glu Asn Tyr Leu Glu Tyr Arg
1 5

<210> 5930

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01,HLA-B*27:05

<400> 5930
Val Arg Ile Ala Tyr Pro Ser Leu Arg
1 5

<210> 5931
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-C*07:01

<400> 5931
Val Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 5932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*57:01,HLA-C*07:06

<400> 5932
Val Thr Lys Ala Glu Met Leu Glu Arg
1 5

<210> 5933
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03

<400> 5933
Val Thr Lys Ala Glu Met Leu Glu Arg Val
1 5 10

<210> 5934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01

<400> 5934
Val Val Arg Val Asn Ala Arg Val Arg
1 5

<210> 5935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*32:01,
HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*51:01,HLA-B*55:01,HLA-C*01:02,HLA-C*04:01,HLA-C*05:01,

<220>
<223> HLA-C*14:02,HLA-C*16:01,HLA-C*16:02

<400> 5935
Val Tyr Asp Gly Arg Glu His Thr Val
1 5

<210> 5936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-B*35:01,
HLA-B*55:01,HLA-C*04:01,HLA-C*07:01

<400> 5936
Val Tyr Asp Gly Arg Glu His Thr Val Tyr
1 5 10

<210> 5937
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*24:02

<400> 5937
Val Tyr Gly Glu Pro Arg Lys Leu
1 5

<210> 5938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*23:01,HLA-A*24:02

<400> 5938
Val Tyr Gly Glu Pro Arg Lys Leu Leu
1 5

<210> 5939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*40:02,HLA-B*49:01

<400> 5939
Trp Glu Glu Leu Gly Val Met Gly Val
1 5

<210> 5940
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-B*15:01,HLA-B*35:01,HLA-B*46:01,HLA-C*07:04

<400> 5940
Trp Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 5941

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01

<400> 5941
Trp Val Gln Glu Asn Tyr Leu Glu Tyr Arg
1 5 10

<210> 5942
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -C*07:01

<400> 5942
Tyr Asp Gly Leu Leu Gly Asn Asn Gln Ile Phe
1 5 10

<210> 5943
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*40:02,HLA-C*06:02,HLA-C*07:01,HLA-C*07:04

<400> 5943
Tyr Asp Gly Arg Glu His Thr Val
1 5

<210> 5944
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*01:01,HLA-A*29:02,HLA-B*15:01,HLA-B*15:03,HLA-C*07:01

<400> 5944
Tyr Asp Gly Arg Glu His Thr Val Tyr
1 5

<210> 5945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:04

<400> 5945
Tyr Glu Phe Leu Trp Gly Pro Arg Ala
1 5

<210> 5946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*30:01,HLA-B*40:02

<400> 5946
Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu
1 5 10

<210> 5947
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 5947
Tyr Pro Ser Leu Arg Glu Ala Ala
1 5

<210> 5948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,HLA-C*16:01

<400> 5948
Tyr Pro Ser Leu Arg Glu Ala Ala Leu
1               5


<210> 5949
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*07:02

<400> 5949
Tyr Pro Ser Leu Arg Glu Ala Ala Leu Leu
1               5                   10


<210> 5950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*27:02,HLA-B*27:05,HLA-C*06:02

<400> 5950
Tyr Arg Ala Lys Glu Leu Val Thr Lys
1               5


<210> 5951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
      HLA -B*27:05

<400> 5951
Tyr Arg Gln Val Pro Gly Ser Asn Pro
1               5


<210> 5952
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;

HLA -B*27:05

<400> 5952
Tyr Arg Gln Val Pro Gly Ser Asn Pro Ala Arg
1 5 10

<210> 5953
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:03,HLA-A*68:02,HLA-B*08:01,HLA-B*13:02,HLA-B*40:02,
HLA-B*54:01

<400> 5953
Tyr Val Lys Val Leu Glu His Val
1 5

<210> 5954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*24:02,
HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,HLA-B*08:01,
HLA-B*13:02,HLA-B*40:02,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,

<220>
<223> HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*04:01,HLA-C*07:01,
HLA-C*07:04,HLA-C*12:03

<400> 5954
Tyr Val Lys Val Leu Glu His Val Val
1 5

<210> 5955
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA4; ENSG00000147381;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 5955
Tyr Val Lys Val Leu Glu His Val Val Arg
1 5 10

<210> 5956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*08:01,HLA-C*16:01

<400> 5956
Ala Ala Leu Ser Arg Lys Val Ala Lys
1 5

<210> 5957
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 5957
Ala Ala Ser Ser Ser Ser Thr Leu
1 5

<210> 5958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*13:02

<400> 5958
Ala Ala Ser Ser Ser Ser Thr Leu Val
1 5

<210> 5959
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 5959
Ala Glu Met Leu Gly Ser Val Val
1               5


<210> 5960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 5960
Ala Glu Met Leu Gly Ser Val Val Gly
1               5


<210> 5961
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*44:02,HLA-B*49:01

<400> 5961
Ala Glu Met Leu Gly Ser Val Val Gly Asn
1               5                   10


<210> 5962
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:01,HLA-A*32:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,
      HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,HLA-C*16:04

<400> 5962
Ala Glu Met Leu Gly Ser Val Val Gly Asn Trp
1               5                   10


<210> 5963
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*40:02,HLA-B*49:01

<400> 5963
Ala Glu Ser Pro Asp Pro Pro Gln Ser Pro
1 5 10

<210> 5964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01,HLA-B*56:01

<400> 5964
Ala Leu Gly Leu Val Gly Ala Gln Ala
1 5

<210> 5965
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*56:01

<400> 5965
Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
1 5 10

<210> 5966
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-B*13:02,HLA-B*49:01,
HLA-B*55:01

<400> 5966
Ala Leu Ile Glu Thr Ser Tyr Val
1 5

<210> 5967
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*29:02,
HLA-B*46:01

<400> 5967
Ala Leu Ile Glu Thr Ser Tyr Val Lys
1 5

<210> 5968
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*55:01

<400> 5968
Ala Leu Ile Glu Thr Ser Tyr Val Lys Val
1 5 10

<210> 5969
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 5969
Ala Leu Ile Glu Thr Ser Tyr Val Lys Val Leu
1 5 10

<210> 5970
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:03,HLA-A*02:04

<400> 5970
Ala Leu Ser Arg Lys Val Ala Lys Leu
1 5

<210> 5971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*55:01,HLA-B*56:01

<400> 5971
Ala Pro Ala Thr Glu Glu Gln Glu Ala
1 5

<210> 5972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*55:01,HLA-B*56:01

<400> 5972
Ala Pro Ala Thr Glu Glu Gln Glu Ala Ala
1 5 10

<210> 5973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*15:01

<400> 5973
Ala Gln Ala Pro Ala Thr Glu Glu Gln
1 5

<210> 5974
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*27:05,HLA-B*39:01

<400> 5974
Ala Gln Ala Pro Ala Thr Glu Glu Gln Glu Ala

1 5 10

<210> 5975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*27:02,HLA-B*27:05,HLA-B*38:01

<400> 5975
Ala Arg Glu Pro Val Thr Lys Ala Glu Met
1 5 10

<210> 5976
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -C*05:01

<400> 5976
Ala Ser Asp Ser Leu Gln Leu Val
1 5

<210> 5977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*02:07,HLA-A*11:01,HLA-A*29:02,HLA-A*32:01,
HLA-B*35:01,HLA-B*38:01,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*05:01,HLA-C*12:03

<400> 5977
Ala Ser Asp Ser Leu Gln Leu Val Phe
1 5

<210> 5978
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;

HLA -B*37:01

<400> 5978
Ala Ser Ser Leu Pro Thr Thr Met
1 5

<210> 5979
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-B*58:01,HLA-C*16:02

<400> 5979
Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr
1 5 10

<210> 5980
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01

<400> 5980
Ala Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 5981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*38:01,HLA-B*51:01

<400> 5981
Asp Gly Leu Leu Gly Asp Asn Gln Ile
1 5

<210> 5982
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*08:01,HLA-B*51:01

<400> 5982
Asp Pro Ile Gly His Val Tyr Ile
1 5

<210> 5983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*51:01

<400> 5983
Asp Pro Ile Gly His Val Tyr Ile Phe
1 5

<210> 5984
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*54:01

<400> 5984
Asp Pro Ile Gly His Val Tyr Ile Phe Ala
1 5 10

<210> 5985
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*26:01,HLA-A*33:01,HLA-B*35:01

<400> 5985
Asp Pro Lys Lys Leu Leu Thr Gln Tyr
1 5

<210> 5986

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*51:01

<400> 5986
Asp Pro Pro Gln Ser Pro Gln Gly
1 5

<210> 5987
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*33:01,HLA-A*68:01

<400> 5987
Asp Ser Ile Phe Gly Asp Pro Lys
1 5

<210> 5988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*33:01,HLA-A*68:01

<400> 5988
Asp Ser Ile Phe Gly Asp Pro Lys Lys
1 5

<210> 5989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:01

<400> 5989
Asp Ser Ile Phe Gly Asp Pro Lys Lys Leu
1 5 10

<210> 5990
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-B*07:02,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*51:01,HLA-C*01:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 5990
Glu Ala Ala Ser Ser Ser Ser Thr Leu
1 5

<210> 5991
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*54:01

<400> 5991
Glu Ala Leu Gly Leu Val Gly Ala
1 5

<210> 5992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*27:05,HLA-C*07:01,
HLA-C*12:03

<400> 5992
Glu Ala Leu Gly Leu Val Gly Ala Gln
1 5

<210> 5993
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-B*54:01

<400> 5993
Glu Ala Leu Gly Leu Val Gly Ala Gln Ala
1               5                   10


<210> 5994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01

<400> 5994
Glu Ala Arg Gly Glu Ala Leu Gly Leu
1               5


<210> 5995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*27:02

<400> 5995
Glu Asp Ser Ile Phe Gly Asp Pro Lys
1               5


<210> 5996
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*18:01

<400> 5996
Glu Glu Glu Gly Pro Ser Thr Phe
1               5


<210> 5997
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*39:01,HLA-B*40:01

<400> 5997
Glu Glu Glu Gly Pro Ser Thr Phe Pro Asp Leu
1 5 10

<210> 5998
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*40:01

<400> 5998
Glu Glu Gly Leu Glu Ala Arg Gly Glu Ala Leu
1 5 10

<210> 5999
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 5999
Glu Glu Gly Pro Ser Thr Phe Pro Asp Leu
1 5 10

<210> 6000
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*18:01,HLA-B*49:01,HLA-B*51:01

<400> 6000
Glu Glu Leu Ser Val Leu Glu Val
1 5

<210> 6001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03

<400> 6001
Glu Glu Leu Ser Val Leu Glu Val Phe
1 5

<210> 6002
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*33:01,HLA-A*33:03

<400> 6002
Glu Phe Gln Ala Ala Leu Ser Arg
1 5

<210> 6003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*33:01,HLA-A*33:03

<400> 6003
Glu Phe Gln Ala Ala Leu Ser Arg Lys
1 5

<210> 6004
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01

<400> 6004
Glu Leu Met Glu Val Asp Pro Ile Gly His
1 5 10

<210> 6005

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:02

<400> 6005
Glu Leu Met Glu Val Asp Pro Ile Gly His Val
1 5 10

<210> 6006
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*44:02,
HLA-B*44:03,HLA-B*57:01

<400> 6006
Glu Met Leu Gly Ser Val Val Gly Asn Trp
1 5 10

<210> 6007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*33:01

<400> 6007
Glu Asn Tyr Leu Glu Tyr Arg Gln Val
1 5

<210> 6008
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,
HLA-C*07:02

<400> 6008
Glu Pro Val Thr Lys Ala Glu Met

1 5

<210> 6009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:01,HLA-B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,
HLA-C*07:02

<400> 6009
Glu Pro Val Thr Lys Ala Glu Met Leu
1 5

<210> 6010
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*38:01,HLA-B*39:01

<400> 6010
Glu Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu
1 5 10

<210> 6011
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:01

<400> 6011
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg
1 5 10

<210> 6012
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*68:01

<400> 6012
Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys
1               5                   10


<210> 6013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 6013
Glu Thr Ser Tyr Val Lys Val Leu His
1               5


<210> 6014
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*68:02,HLA-C*05:01

<400> 6014
Glu Val Asp Pro Ile Gly His Val
1               5


<210> 6015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*01:01,HLA-A*02:07,HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,
      HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
      HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*15:01,

<220>
<223> HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,
      HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,
      HLA-B*46:01,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
      HLA-C*03:03,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,HLA-C*07:06,

<220>
<223> HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 6015
Glu Val Asp Pro Ile Gly His Val Tyr
1               5


<210> 6016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*01:01,HLA-A*02:07,HLA-A*68:01,HLA-A*68:02,HLA-B*38:01,
      HLA-C*05:01

<400> 6016
Glu Val Asp Pro Ile Gly His Val Tyr Ile
1               5                   10


<210> 6017
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*01:01,HLA-A*02:07,HLA-A*68:02

<400> 6017
Glu Val Asp Pro Ile Gly His Val Tyr Ile Phe
1               5                   10


<210> 6018
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,
      HLA-A*68:01,HLA-A*68:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,
      HLA-B*38:01,HLA-B*39:01,HLA-B*51:01

<400> 6018
Glu Val Phe Glu Gly Arg Glu Asp Ser Ile
1               5                   10


<210> 6019
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-B*35:01

<400> 6019
Glu Val Phe Glu Gly Arg Glu Asp Ser Ile Phe
1 5 10

<210> 6020
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01

<400> 6020
Glu Val Thr Leu Gly Glu Val Pro Ala Ala
1 5 10

<210> 6021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,
HLA-B*35:01,HLA-B*46:01,HLA-C*02:02

<400> 6021
Phe Ala Thr Cys Leu Gly Leu Ser Tyr
1 5

<210> 6022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:07,HLA-A*29:02

<400> 6022
Phe Phe Pro Val Ile Phe Ser Lys Ala
1 5

<210> 6023

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01

<400> 6023
Phe Gly Asp Pro Lys Lys Leu Leu Thr Gln Tyr
1 5 10

<210> 6024
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*54:01

<400> 6024
Phe Gly Ile Glu Leu Met Glu Val
1 5

<210> 6025
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:04

<400> 6025
Phe Leu Ile Ile Ile Leu Ala Ile
1 5

<210> 6026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 6026
Phe Leu Ile Ile Ile Leu Ala Ile Ile
1 5

<210> 6027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 6027
Phe Leu Trp Gly Pro Arg Ala Leu Ile
1 5

<210> 6028
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 6028
Phe Leu Trp Gly Pro Arg Ala Leu Ile Glu Thr
1 5 10

<210> 6029
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*04:01,HLA-C*05:01

<400> 6029
Phe Pro Asp Leu Glu Ser Glu Phe
1 5

<210> 6030
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01

<400> 6030
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala

1 5 10

<210> 6031
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*35:03,HLA-B*54:01,HLA-B*55:01

<400> 6031
Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala
1 5 10

<210> 6032
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 6032
Phe Pro Val Ile Phe Ser Lys Ala
1 5

<210> 6033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*54:01

<400> 6033
Phe Pro Val Ile Phe Ser Lys Ala Ser
1 5

<210> 6034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:03,HLA-A*68:02,HLA-B*13:02,HLA-B*27:05,HLA-C*02:02,
HLA-C*06:02

<400> 6034
Phe Gln Ala Ala Leu Ser Arg Lys Val
1               5


<210> 6035
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -C*03:04

<400> 6035
Phe Ser Lys Ala Ser Asp Ser Leu
1               5


<210> 6036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
      HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
      HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*13:02,HLA-B*15:01,

<220>
<223> HLA-B*15:03,HLA-B*27:02,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,
      HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
      HLA-C*03:03,HLA-C*03:04,HLA-C*07:01,HLA-C*07:04,HLA-C*07:06,
      HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 6036
Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1               5


<210> 6037
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
      HLA-B*27:02

<400> 6037
Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg

1 5 10

<210> 6038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:02,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-C*02:02,HLA-C*12:03,
HLA-C*16:02,HLA-C*16:04

<400> 6038
Gly Ala Ser Ser Leu Pro Thr Thr Met
1 5

<210> 6039
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 6039
Gly Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr
1 5 10

<210> 6040
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*11:01,HLA-B*27:02

<400> 6040
Gly Asp Asn Gln Ile Met Pro Lys
1 5

<210> 6041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;

HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01,
HLA-B*56:01

<400> 6041
Gly Glu Ala Leu Gly Leu Val Gly Ala
1 5

<210> 6042
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 6042
Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala
1 5 10

<210> 6043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 6043
Gly Glu Val Pro Ala Ala Glu Ser Pro
1 5

<210> 6044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*15:01

<400> 6044
Gly Leu Leu Gly Asp Asn Gln Ile Met
1 5

<210> 6045
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:04,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*31:01,HLA-B*27:02,HLA-B*27:05

<400> 6045
Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys
1 5 10

<210> 6046
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:02,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*55:01

<400> 6046
Gly Pro Arg Ala Leu Ile Glu Thr Ser Tyr
1 5 10

<210> 6047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*07:02,HLA-C*07:02

<400> 6047
Gly Pro Arg Ile Ser Tyr Pro Leu Leu
1 5

<210> 6048
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*07:02

<400> 6048
Gly Pro Ser Thr Phe Pro Asp Leu
1 5

<210> 6049
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*27:05

<400> 6049
Gly Arg Glu Asp Ser Ile Phe Gly Asp Pro Lys
1 5 10

<210> 6050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-B*27:05,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01

<400> 6050
Gly Ser Asp Pro Ala Cys Tyr Glu Phe
1 5

<210> 6051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*57:01,HLA-B*58:01

<400> 6051
Gly Ser Val Val Gly Asn Trp Gln Tyr
1 5

<210> 6052
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 6052
His Cys Lys Pro Glu Glu Gly Leu Glu Ala Arg

1 5 10

<210> 6053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*33:01

<400> 6053
His Met Val Lys Ile Ser Gly Gly Pro Arg
1 5 10

<210> 6054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:02

<400> 6054
His Val Tyr Ile Phe Ala Thr Cys Leu
1 5

<210> 6055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 6055
Ile Glu Leu Met Glu Val Asp Pro Ile
1 5

<210> 6056
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 6056
Ile Glu Thr Ser Tyr Val Lys Val
1               5


<210> 6057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:01,HLA-B*18:01,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,
      HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*02:02,
      HLA-C*06:02,HLA-C*07:01,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01,

<220>
<223> HLA-C*16:02,HLA-C*16:04

<400> 6057
Ile Glu Thr Ser Tyr Val Lys Val Leu
1               5


<210> 6058
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*29:02

<400> 6058
Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr
1               5                   10


<210> 6059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*24:02

<400> 6059
Ile Phe Gly Asp Pro Lys Lys Leu Leu
1               5


<210> 6060
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -C*14:02

<400> 6060
Ile Phe Ser Lys Ala Ser Asp Ser Leu
1 5

<210> 6061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6061
Ile Ile Ile Leu Ala Ile Ile Ala Lys
1 5

<210> 6062
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 6062
Ile Ile Leu Ala Ile Ile Ala Lys
1 5

<210> 6063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:07,HLA-A*24:02

<400> 6063
Ile Met Pro Lys Thr Gly Phe Leu Ile
1 5

<210> 6064
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*24:02

<400> 6064
Ile Met Pro Lys Thr Gly Phe Leu Ile Ile
1 5 10

<210> 6065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*25:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 6065
Ile Ser Gly Gly Pro Arg Ile Ser Tyr
1 5

<210> 6066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*24:02,HLA-A*25:01,HLA-A*31:01,HLA-A*33:01,HLA-B*44:02,
HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 6066
Ile Ser Tyr Pro Leu Leu His Glu Trp
1 5

<210> 6067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -C*03:04

<400> 6067
Lys Ala Ser Asp Ser Leu Gln Leu
1               5


<210> 6068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*02:01,HLA-A*02:03,HLA-A*03:02,HLA-B*13:02,HLA-B*58:01,
      HLA-C*12:03,HLA-C*16:02

<400> 6068
Lys Ala Ser Asp Ser Leu Gln Leu Val
1               5


<210> 6069
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*03:01,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:03,HLA-B*27:02,HLA-B*44:03,HLA-B*57:01,
      HLA-B*58:01,HLA-C*02:02,HLA-C*16:04

<400> 6069
Lys Ala Ser Asp Ser Leu Gln Leu Val Phe
1               5                   10


<210> 6070
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*03:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-C*16:01

<400> 6070
Lys Ile Ser Gly Gly Pro Arg Ile Ser Tyr
1               5                   10


<210> 6071
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:04,HLA-A*02:07

<400> 6071
Lys Ile Trp Glu Glu Leu Ser Val Leu
1 5

<210> 6072
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 6072
Lys Ile Trp Glu Glu Leu Ser Val Leu Glu Val
1 5 10

<210> 6073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*03:01

<400> 6073
Lys Leu Val His Phe Leu Leu Leu Lys
1 5

<210> 6074
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*03:01,HLA-A*29:02,HLA-B*57:01

<400> 6074
Lys Leu Val His Phe Leu Leu Leu Lys Tyr
1 5 10

<210> 6075
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*57:01

<400> 6075
Lys Val Ala Lys Leu Val His Phe
1 5

<210> 6076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:03,HLA-A*02:04,HLA-A*68:02

<400> 6076
Lys Val Ala Lys Leu Val His Phe Leu
1 5

<210> 6077
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02

<400> 6077
Leu Glu Ala Arg Gly Glu Ala Leu
1 5

<210> 6078
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 6078
Leu Glu Ala Arg Gly Glu Ala Leu Gly Leu
1 5 10

<210> 6079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*18:01,HLA-B*49:01

<400> 6079
Leu Glu Ser Glu Phe Gln Ala Ala
1 5

<210> 6080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-A*68:02,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 6080
Leu Glu Ser Glu Phe Gln Ala Ala Leu
1 5

<210> 6081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 6081
Leu Gly Asp Asn Gln Ile Met Pro Lys
1 5

<210> 6082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*32:01

<400> 6082

Leu Gly Leu Val Gly Ala Gln Ala Pro
1               5


<210> 6083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*01:01

<400> 6083
Leu Gly Ser Val Val Gly Asn Trp Gln Tyr
1               5                   10


<210> 6084
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*27:02

<400> 6084
Leu Ile Glu Thr Ser Tyr Val Lys
1               5


<210> 6085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*02:07,HLA-C*05:01

<400> 6085
Leu Ile Glu Thr Ser Tyr Val Lys Val
1               5


<210> 6086
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*27:02

<400> 6086
Leu Ile Ile Ile Leu Ala Ile Ile Ala Lys
1               5                   10


<210> 6087
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 6087
Leu Leu Gly Asp Asn Gln Ile Met Pro Lys
1               5                   10


<210> 6088
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 6088
Leu Met Glu Val Asp Pro Ile Gly His Val Tyr
1               5                   10


<210> 6089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*35:01,HLA-B*35:03

<400> 6089
Leu Pro Thr Thr Met Asn Tyr Pro Leu
1               5


<210> 6090
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*24:02,HLA-B*27:02

<400> 6090
Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp
1 5 10

<210> 6091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 6091
Leu Gln Leu Val Phe Gly Ile Glu Leu
1 5

<210> 6092
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*27:02,HLA-B*57:01

<400> 6092
Leu Ser Val Leu Glu Val Phe Glu Gly Arg
1 5 10

<210> 6093
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01

<400> 6093
Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln
1 5 10

<210> 6094
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*30:02,HLA-B*57:01

<400> 6094
Leu Thr Gln Tyr Phe Val Gln Glu Asn Tyr
1 5 10

<210> 6095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 6095
Leu Val Phe Gly Ile Glu Leu Met Glu Val
1 5 10

<210> 6096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*29:02,HLA-B*57:01

<400> 6096
Leu Val His Phe Leu Leu Leu Lys Tyr
1 5

<210> 6097
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*18:01

<400> 6097
Met Glu Val Asp Pro Ile Gly His
1 5

<210> 6098
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*18:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 6098
Met Glu Val Asp Pro Ile Gly His Val
1 5

<210> 6099
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,HLA-A*33:03,HLA-A*68:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,

<220>
<223> HLA-B*35:01,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,
HLA-C*02:02,HLA-C*12:03,HLA-C*16:01,HLA-C*16:04

<400> 6099
Met Glu Val Asp Pro Ile Gly His Val Tyr
1 5 10

<210> 6100
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-A*68:02,HLA-B*38:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 6100
Met Glu Val Asp Pro Ile Gly His Val Tyr Ile
1 5 10

<210> 6101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*32:01,HLA-A*33:03,
HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*07:04

<400> 6101
Met Leu Gly Ser Val Val Gly Asn Trp
1 5

<210> 6102
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*29:02

<400> 6102
Met Leu Gly Ser Val Val Gly Asn Trp Gln Tyr
1 5 10

<210> 6103
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*29:02

<400> 6103
Met Asn Tyr Pro Leu Trp Ser Gln Ser Tyr
1 5 10

<210> 6104
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*08:01,HLA-B*51:01,HLA-B*54:01

<400> 6104
Met Pro Lys Thr Gly Phe Leu Ile
1 5

<210> 6105
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01

<400> 6105
Met Pro Lys Thr Gly Phe Leu Ile Ile
1 5

<210> 6106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 6106
Met Val Lys Ile Ser Gly Gly Pro Arg
1 5

<210> 6107
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*38:01,HLA-B*39:01

<400> 6107
Asn Gln Glu Glu Glu Gly Pro Ser Thr Phe
1 5 10

<210> 6108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*46:01,HLA-C*07:04,HLA-C*14:02,HLA-C*16:04

<400> 6108
Asn Gln Ile Met Pro Lys Thr Gly Phe
1 5

<210> 6109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,
HLA-C*01:02,HLA-C*14:02

<400> 6109
Asn Tyr Pro Leu Trp Ser Gln Ser Tyr
1 5

<210> 6110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*07:02,HLA-B*27:02,HLA-B*27:05,HLA-C*07:01,HLA-C*16:04

<400> 6110
Pro Arg Ala Leu Ile Glu Thr Ser Tyr
1 5

<210> 6111
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*51:01,HLA-C*06:02,HLA-C*16:01,HLA-C*16:02

<400> 6111
Gln Ala Ala Leu Ser Arg Lys Val
1 5

<210> 6112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*54:01

<400> 6112
Gln Ala Ala Leu Ser Arg Lys Val Ala
1               5


<210> 6113
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,
      HLA-B*49:01

<400> 6113
Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu
1               5                   10


<210> 6114
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*49:01

<400> 6114
Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu Val
1               5                   10


<210> 6115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
      HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 6115
Gln Glu Glu Glu Gly Pro Ser Thr Phe
1               5


<210> 6116
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*49:01

<400> 6116
Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val
1 5 10

<210> 6117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*38:01

<400> 6117
Gln His Cys Lys Pro Glu Glu Gly Leu
1 5

<210> 6118
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*08:01,HLA-B*15:01,HLA-B*37:01

<400> 6118
Gln Ile Met Pro Lys Thr Gly Phe
1 5

<210> 6119
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01

<400> 6119
Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val
1 5 10

<210> 6120
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -C*01:02

<400> 6120
Gln Ser Pro Gln Gly Ala Ser Ser Leu
1 5

<210> 6121
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-C*07:04

<400> 6121
Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr
1 5 10

<210> 6122
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*24:02

<400> 6122
Gln Tyr Phe Phe Pro Val Ile Phe
1 5

<210> 6123
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*27:02

<400> 6123
Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys
1 5 10

<210> 6124

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:02,HLA-B*15:03,HLA-C*14:02

<400> 6124
Gln Tyr Phe Val Gln Glu Asn Tyr
1 5

<210> 6125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*24:02,HLA-C*04:01

<400> 6125
Gln Tyr Phe Val Gln Glu Asn Tyr Leu
1 5

<210> 6126
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*29:02

<400> 6126
Gln Tyr Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1 5 10

<210> 6127
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*03:01,HLA-B*57:01

<400> 6127
Arg Ala Arg Glu Pro Val Thr Lys
1 5

<210> 6128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*32:01,HLA-B*07:02,HLA-B*54:01,HLA-B*56:01

<400> 6128
Arg Ala Arg Glu Pro Val Thr Lys Ala
1 5

<210> 6129
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-C*01:02

<400> 6129
Arg Glu Pro Val Thr Lys Ala Glu Met
1 5

<210> 6130
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 6130
Arg Glu Pro Val Thr Lys Ala Glu Met Leu
1 5 10

<210> 6131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*57:01

<400> 6131

Arg Ile Ser Tyr Pro Leu Leu His Glu Trp
1               5                   10


<210> 6132
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,
      HLA-B*58:01,HLA-C*07:04

<400> 6132
Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr
1               5                   10


<210> 6133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*37:01

<400> 6133
Ser Asp Pro Ala Cys Tyr Glu Phe
1               5


<210> 6134
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01

<400> 6134
Ser Asp Ser Leu Gln Leu Val Phe
1               5


<210> 6135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;

HLA -B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 6135
Ser Glu Phe Gln Ala Ala Leu Ser Arg
1 5

<210> 6136
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:02,HLA-A*32:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,
HLA-C*07:01,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 6136
Ser Gly Gly Pro Arg Ile Ser Tyr
1 5

<210> 6137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:03,HLA-A*02:04,HLA-A*03:02,HLA-A*68:02,HLA-B*44:03,
HLA-C*12:03

<400> 6137
Ser Ile Phe Gly Asp Pro Lys Lys Leu
1 5

<210> 6138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*38:01

<400> 6138
Ser Lys Ala Ser Asp Ser Leu Gln Leu
1 5

<210> 6139
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*46:01,HLA-C*01:02

<400> 6139
Ser Leu Pro Thr Thr Met Asn Tyr
1 5

<210> 6140
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:07

<400> 6140
Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu
1 5 10

<210> 6141
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*24:02

<400> 6141
Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp
1 5 10

<210> 6142
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:04,HLA-B*37:01

<400> 6142
Ser Leu Gln Leu Val Phe Gly Ile
1 5

<210> 6143
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:04,HLA-A*02:07

<400> 6143
Ser Leu Gln Leu Val Phe Gly Ile Glu Leu
1 5 10

<210> 6144
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*56:01

<400> 6144
Ser Pro Asp Pro Pro Gln Ser Pro Gln Gly Ala
1 5 10

<210> 6145
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*07:02

<400> 6145
Ser Pro Gln Gly Ala Ser Ser Leu
1 5

<210> 6146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,
HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*44:03,

<220>

<223> HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*07:01,HLA-C*07:06,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,
HLA-C*16:04

<400> 6146
Ser Ser Leu Pro Thr Thr Met Asn Tyr
1 5

<210> 6147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*68:02,HLA-B*13:02,HLA-B*56:01

<400> 6147
Ser Ser Ser Ser Thr Leu Val Glu Val
1 5

<210> 6148
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*38:01

<400> 6148
Ser Ser Ser Ser Thr Leu Val Glu Val Thr Leu
1 5 10

<210> 6149
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:02

<400> 6149
Ser Ser Ser Thr Leu Val Glu Val Thr Leu
1 5 10

<210> 6150
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,HLA-C*07:06,HLA-C*16:01,

<220>
<223> HLA-C*16:02

<400> 6150
Ser Ser Thr Leu Val Glu Val Thr Leu
1 5

<210> 6151
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*57:01

<400> 6151
Ser Thr Phe Pro Asp Leu Glu Ser Glu Phe
1 5 10

<210> 6152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*25:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*57:01,HLA-C*07:06

<400> 6152
Ser Val Leu Glu Val Phe Glu Gly Arg
1 5

<210> 6153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*26:01

<400> 6153
Ser Val Val Gly Asn Trp Gln Tyr Phe
1               5


<210> 6154
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*35:03,HLA-B*38:01,HLA-C*04:01

<400> 6154
Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile
1               5                   10


<210> 6155
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*24:02

<400> 6155
Ser Tyr Pro Leu Leu His Glu Trp
1               5


<210> 6156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*24:02

<400> 6156
Ser Tyr Pro Leu Leu His Glu Trp Ala Leu
1               5                   10


<210> 6157
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*24:02

<400> 6157
Ser Tyr Val Lys Val Leu His His Met
1 5

<210> 6158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 6158
Thr Phe Pro Asp Leu Glu Ser Glu Phe
1 5

<210> 6159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*54:01

<400> 6159
Thr Gly Phe Leu Ile Ile Ile Leu Ala
1 5

<210> 6160
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 6160
Thr Leu Gly Glu Val Pro Ala Ala
1 5

<210> 6161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*68:02

<400> 6161
Thr Leu Val Glu Val Thr Leu Gly Glu Val
1 5 10

<210> 6162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,
HLA-B*35:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,

<220>
<223> HLA-C*02:02,HLA-C*07:04,HLA-C*16:04

<400> 6162
Thr Gln Tyr Phe Val Gln Glu Asn Tyr
1 5

<210> 6163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:02,HLA-B*13:02,HLA-B*27:05,HLA-B*38:01

<400> 6163
Thr Gln Tyr Phe Val Gln Glu Asn Tyr Leu
1 5 10

<210> 6164
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*03:01

<400> 6164
Thr Ser Tyr Val Lys Val Leu His His

1 5

<210> 6165
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*08:01

<400> 6165
Val Ala Lys Leu Val His Phe Leu
1 5

<210> 6166
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*15:03,HLA-B*18:01,HLA-B*37:01,HLA-C*04:01,HLA-C*07:01,
HLA-C*07:04

<400> 6166
Val Asp Pro Ile Gly His Val Tyr
1 5

<210> 6167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*24:02

<400> 6167
Val Asp Pro Ile Gly His Val Tyr Ile
1 5

<210> 6168
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 6168
Val Glu Val Thr Leu Gly Glu Val
1               5


<210> 6169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 6169
Val Glu Val Thr Leu Gly Glu Val Pro
1               5


<210> 6170
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:02

<400> 6170
Val Glu Val Thr Leu Gly Glu Val Pro Ala
1               5                   10


<210> 6171
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*30:01,HLA-B*40:02

<400> 6171
Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala
1               5                   10


<210> 6172
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*29:02

<400> 6172
Val His Phe Leu Leu Leu Lys Tyr
1 5

<210> 6173
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*15:03

<400> 6173
Val Lys Ile Ser Gly Gly Pro Arg Ile Ser Tyr
1 5 10

<210> 6174
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -C*03:03

<400> 6174
Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln
1 5 10

<210> 6175
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*55:01

<400> 6175
Val Pro Gly Ser Asp Pro Ala Cys
1 5

<210> 6176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*35:01,HLA-B*55:01

<400> 6176
Val Pro Gly Ser Asp Pro Ala Cys Tyr
1 5

<210> 6177
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*35:01

<400> 6177
Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe
1 5 10

<210> 6178
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*39:01,HLA-B*46:01,HLA-C*04:01,HLA-C*07:01,HLA-C*07:04

<400> 6178
Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 6179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*31:01

<400> 6179
Val Gln Glu Asn Tyr Leu Glu Tyr Arg
1 5

<210> 6180

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:03,HLA-B*40:02

<400> 6180
Val Thr Lys Ala Glu Met Leu Gly Ser Val
1 5 10

<210> 6181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 6181
Val Thr Leu Gly Glu Val Pro Ala Ala
1 5

<210> 6182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*24:02

<400> 6182
Val Val Gly Asn Trp Gln Tyr Phe Phe
1 5

<210> 6183
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 6183
Val Tyr Ile Phe Ala Thr Cys Leu
1 5

<210> 6184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*49:01

<400> 6184
Trp Glu Glu Leu Ser Val Leu Glu Val
1 5

<210> 6185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*02:04

<400> 6185
Tyr Glu Phe Leu Trp Gly Pro Arg Ala
1 5

<210> 6186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*29:02

<400> 6186
Tyr Phe Phe Pro Val Ile Phe Ser Lys
1 5

<210> 6187
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:02

<400> 6187

Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala
1               5                   10


<210> 6188
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*23:01,HLA-A*29:02

<400> 6188
Tyr Phe Val Gln Glu Asn Tyr Leu Glu Tyr
1               5                   10


<210> 6189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -A*02:07,HLA-A*68:02

<400> 6189
Tyr Ile Phe Ala Thr Cys Leu Gly Leu
1               5


<210> 6190
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*54:01

<400> 6190
Tyr Pro Leu Leu His Glu Trp Ala
1               5


<210> 6191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
      HLA -B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,

HLA-B*56:01

<400> 6191
Tyr Pro Leu Leu His Glu Trp Ala Leu
1 5

<210> 6192
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*35:01,HLA-B*51:01

<400> 6192
Tyr Pro Leu Trp Ser Gln Ser Tyr
1 5

<210> 6193
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*27:02,HLA-B*27:05,HLA-B*39:01

<400> 6193
Tyr Arg Ala Arg Glu Pro Val Thr Lys
1 5

<210> 6194
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -B*08:01

<400> 6194
Tyr Val Lys Val Leu His His Met
1 5

<210> 6195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA6; ENSG00000197172;
HLA -A*68:02

<400> 6195
Tyr Val Lys Val Leu His His Met Val
1 5

<210> 6196
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*37:01,HLA-B*44:02

<400> 6196
Ala Glu Leu Val His Phe Leu Leu
1 5

<210> 6197
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*44:02

<400> 6197
Ala Glu Leu Val His Phe Leu Leu His Lys Tyr
1 5 10

<210> 6198
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*40:01,HLA-B*44:02,HLA-B*49:01

<400> 6198
Ala Glu Met Leu Glu Ser Val Ile
1 5

<210> 6199
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*44:02

<400> 6199
Ala Glu Met Leu Glu Ser Val Ile Lys Asn
1 5 10

<210> 6200
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:01,HLA-A*30:02,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-C*16:04

<400> 6200
Ala Glu Met Leu Glu Ser Val Ile Lys Asn Tyr
1 5 10

<210> 6201
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*49:01

<400> 6201
Ala Glu Thr Ser Tyr Glu Lys Val
1 5

<210> 6202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:02,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:02,HLA-C*16:04

<400> 6202
Ala Glu Thr Ser Tyr Glu Lys Val Ile
1 5

<210> 6203
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*44:02,HLA-B*44:03

<400> 6203
Ala Glu Thr Ser Tyr Glu Lys Val Ile Asn Tyr
1 5 10

<210> 6204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:05

<400> 6204
Ala His Ala Glu Thr Ser Tyr Glu Lys
1 5

<210> 6205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*38:01

<400> 6205
Ala His Ala Glu Thr Ser Tyr Glu Lys Val
1 5 10

<210> 6206
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*38:01

<400> 6206
Ala His Ala Glu Thr Ser Tyr Glu Lys Val Ile

1 5 10

<210> 6207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:03,HLA-A*02:04,HLA-B*08:01

<400> 6207
Ala Leu Lys Leu Lys Val Ala Glu Leu
1 5

<210> 6208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 6208
Ala Leu Leu Ile Ile Val Leu Gly Val
1 5

<210> 6209
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 6209
Ala Leu Ser Val Met Gly Val Tyr
1 5

<210> 6210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*55:01

<400> 6210
Ala Leu Ser Val Met Gly Val Tyr Val
1               5


<210> 6211
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*03:01,HLA-A*03:02

<400> 6211
Ala Leu Ser Val Met Gly Val Tyr Val Gly Lys
1               5                   10


<210> 6212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*54:01,HLA-B*56:01

<400> 6212
Ala Pro Glu Glu Val Ile Trp Glu Ala
1               5


<210> 6213
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*35:03

<400> 6213
Ala Pro Glu Glu Val Ile Trp Glu Ala Leu
1               5                   10


<210> 6214
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02,HLA-B*15:01

<400> 6214
Ala Ser Ser Ser Ile Ser Val Tyr
1 5

<210> 6215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*68:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*27:05,HLA-B*44:03,

<220>
<223> HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,
HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 6215
Ala Ser Ser Ser Ile Ser Val Tyr Tyr
1 5

<210> 6216
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*51:01

<400> 6216
Asp Pro Ala Gly His Ser Tyr Ile
1 5

<210> 6217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*08:01,HLA-B*35:01,HLA-B*35:03

<400> 6217
Asp Pro Ala Gly His Ser Tyr Ile Leu
1 5

<210> 6218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*35:01

<400> 6218
Asp Pro Ala Gln Leu Glu Phe Met Phe
1 5

<210> 6219
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 6219
Asp Ser Met Leu Gly Asp Gly His Ser Met
1 5 10

<210> 6220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*26:01,HLA-A*68:01

<400> 6220
Asp Val Lys Glu Val Asp Pro Ala Gly His
1 5 10

<210> 6221
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*51:01

<400> 6221

Glu Ala Leu Ser Val Met Gly Val
1               5


<210> 6222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*33:01,
      HLA-A*33:03,HLA-B*18:01,HLA-B*35:01,HLA-C*07:06

<400> 6222
Glu Ala Leu Ser Val Met Gly Val Tyr
1               5


<210> 6223
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*26:01,HLA-A*68:01,HLA-A*68:02

<400> 6223
Glu Ala Leu Ser Val Met Gly Val Tyr Val
1               5                   10


<210> 6224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*35:03

<400> 6224
Glu Ala Gln Gly Glu Asp Leu Gly Leu
1               5


<210> 6225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;

HLA -A*26:01

<400> 6225
Glu Ala Gln Gly Glu Asp Leu Gly Leu Met
1 5 10

<210> 6226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*49:01

<400> 6226
Glu Glu Glu Glu Pro Ser Ser Ser Val
1 5

<210> 6227
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*18:01

<400> 6227
Glu Glu Val Ile Trp Glu Ala Leu
1 5

<210> 6228
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*29:02

<400> 6228
Glu Leu Val His Phe Leu Leu His Lys Tyr
1 5 10

<210> 6229
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*33:01,
HLA-A*33:03,HLA-B*44:02,HLA-B*44:03

<400> 6229
Glu Met Leu Glu Ser Val Ile Lys Asn Tyr
1 5 10

<210> 6230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*26:01,HLA-B*35:01

<400> 6230
Glu Pro Ile Cys Tyr Pro Ser Leu Tyr
1 5

<210> 6231
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*08:01,HLA-B*35:03

<400> 6231
Glu Pro Val Thr Lys Ala Glu Met
1 5

<210> 6232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*08:01,HLA-B*35:03

<400> 6232
Glu Pro Val Thr Lys Ala Glu Met Leu
1 5

<210> 6233
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*33:03,HLA-A*68:01

<400> 6233
Glu Ser Val Ile Lys Asn Tyr Lys Arg
1 5

<210> 6234
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01

<400> 6234
Glu Thr Ser Tyr Glu Lys Val Ile Asn Tyr
1 5 10

<210> 6235
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*68:01,HLA-A*68:02

<400> 6235
Glu Thr Ser Tyr Glu Lys Val Ile Asn Tyr Leu
1 5 10

<210> 6236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*35:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,

<220>
<223> HLA-B*58:01,HLA-C*03:03,HLA-C*05:01,HLA-C*07:04,HLA-C*07:06,
HLA-C*16:02

<400> 6236
Glu Val Asp Pro Ala Gly His Ser Tyr
1               5


<210> 6237
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*01:01,HLA-A*25:01,HLA-A*68:02,HLA-B*38:01

<400> 6237
Glu Val Asp Pro Ala Gly His Ser Tyr Ile
1               5                   10


<210> 6238
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*01:01,HLA-A*02:07,HLA-B*38:01

<400> 6238
Glu Val Asp Pro Ala Gly His Ser Tyr Ile Leu
1               5                   10


<210> 6239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 6239
Glu Val Ile Trp Glu Ala Leu Ser Val
1               5


<210> 6240
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*25:01,HLA-A*26:01

<400> 6240
Glu Val Ile Trp Glu Ala Leu Ser Val Met
1 5 10

<210> 6241
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*26:01

<400> 6241
Glu Val Leu Gly Glu Glu Gln Glu Gly Val
1 5 10

<210> 6242
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -C*16:02

<400> 6242
Phe Gly Thr Asp Val Lys Glu Val
1 5

<210> 6243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*29:02,
HLA-B*13:02

<400> 6243
Phe Met Phe Gln Glu Ala Leu Lys Leu
1 5

<210> 6244
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*54:01,HLA-B*56:01

<400> 6244
Phe Pro Val Ile Phe Gly Lys Ala
1 5

<210> 6245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*54:01

<400> 6245
Phe Pro Val Ile Phe Gly Lys Ala Ser
1 5

<210> 6246
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*35:01

<400> 6246
Phe Pro Val Ile Phe Gly Lys Ala Ser Glu Phe
1 5 10

<210> 6247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*13:02

<400> 6247
Phe Gln Glu Ala Leu Lys Leu Lys Val
1 5

<210> 6248

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*24:02

<400> 6248
Phe Tyr Gly Glu Pro Arg Lys Leu Leu
1 5

<210> 6249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*35:01,HLA-B*39:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:04,HLA-C*12:03,

<220>
<223> HLA-C*16:02,HLA-C*16:04

<400> 6249
Gly Ala Ser Ser Ser Ile Ser Val Tyr
1 5

<210> 6250
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*27:05,HLA-B*58:01,HLA-C*02:02,HLA-C*16:04

<400> 6250
Gly Ala Ser Ser Ser Ile Ser Val Tyr Tyr
1 5 10

<210> 6251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;

HLA -A*03:02,HLA-A*11:01

<400> 6251
Gly Asp Gly His Ser Met Pro Lys
1 5

<210> 6252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*49:01

<400> 6252
Gly Glu Asp Leu Gly Leu Met Gly Ala
1 5

<210> 6253
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02,HLA-B*15:01

<400> 6253
Gly Gly Ala Ser Ser Ser Ile Ser Val Tyr
1 5 10

<210> 6254
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02,HLA-B*27:05

<400> 6254
Gly Gly Ala Ser Ser Ser Ile Ser Val Tyr Tyr
1 5 10

<210> 6255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*38:01,HLA-B*39:01

<400> 6255
Gly His Ser Met Pro Lys Ala Ala Leu
1 5

<210> 6256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*05:01

<400> 6256
Gly Ser Asp Pro Ala His Tyr Glu Phe
1 5

<210> 6257
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01

<400> 6257
Gly Ser Asp Pro Ala His Tyr Glu Phe Leu
1 5 10

<210> 6258
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*57:01

<400> 6258
Gly Ser Asp Pro Ala His Tyr Glu Phe Leu Trp
1 5 10

<210> 6259
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-B*58:01

<400> 6259
Gly Ser Lys Ala His Ala Glu Thr Ser Tyr
1 5 10

<210> 6260
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*29:02

<400> 6260
Gly Val Tyr Val Gly Lys Glu His Met Phe Tyr
1 5 10

<210> 6261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01

<400> 6261
His Ala Glu Thr Ser Tyr Glu Lys Val
1 5

<210> 6262
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*08:01

<400> 6262
His Ser Met Pro Lys Ala Ala Leu
1 5

<210> 6263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*08:01

<400> 6263
His Ser Met Pro Lys Ala Ala Leu Leu
1 5

<210> 6264
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*54:01

<400> 6264
His Ser Tyr Ile Leu Val Thr Ala
1 5

<210> 6265
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*15:03,HLA-B*18:01,HLA-B*40:02,HLA-B*51:01

<400> 6265
His Ser Tyr Ile Leu Val Thr Ala Leu
1 5

<210> 6266
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*23:01,HLA-C*14:02

<400> 6266
Ile Phe Gly Lys Ala Ser Glu Phe

1 5

<210> 6267
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*57:01

<400> 6267
Ile Ser Val Tyr Tyr Thr Leu Trp
1 5

<210> 6268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6268
Ile Val Leu Gly Val Ile Leu Thr Lys
1 5

<210> 6269
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-B*58:01

<400> 6269
Lys Ala His Ala Glu Thr Ser Tyr
1 5

<210> 6270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*13:02,HLA-B*49:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,
HLA-C*16:02,HLA-C*16:04

<400> 6270
Lys Ala Ser Glu Phe Met Gln Val Ile
1               5


<210> 6271
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*57:01

<400> 6271
Lys Ala Ser Glu Phe Met Gln Val Ile Phe
1               5                   10


<210> 6272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*37:01,HLA-B*40:01

<400> 6272
Lys Glu Pro Val Thr Lys Ala Glu Met
1               5


<210> 6273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*40:01

<400> 6273
Lys Glu Pro Val Thr Lys Ala Glu Met Leu
1               5                   10


<210> 6274
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*25:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,
HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-C*02:02,

<220>
<223> HLA-C*16:01,HLA-C*16:04

<400> 6274
Lys Glu Val Asp Pro Ala Gly His Ser Tyr
1 5 10

<210> 6275
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*40:01,HLA-B*49:01

<400> 6275
Lys Glu Val Asp Pro Ala Gly His Ser Tyr Ile
1 5 10

<210> 6276
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*31:01,
HLA-A*32:01,HLA-A*68:02,HLA-B*27:05,HLA-B*58:01

<400> 6276
Lys Val Ala Glu Leu Val His Phe Leu
1 5

<210> 6277
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:04,HLA-A*02:07,HLA-A*31:01,HLA-A*68:02

<400> 6277
Lys Val Ala Glu Leu Val His Phe Leu Leu
1 5 10

<210> 6278
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 6278
Lys Val Ile Asn Tyr Leu Val Met Leu
1 5

<210> 6279
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*40:01

<400> 6279
Leu Glu Ala Gln Gly Glu Asp Leu
1 5

<210> 6280
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*40:01

<400> 6280
Leu Glu Ala Gln Gly Glu Asp Leu Gly Leu
1 5 10

<210> 6281
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*18:01,HLA-B*49:01

<400> 6281

Leu Glu Phe Met Phe Gln Glu Ala
1               5


<210> 6282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 6282
Leu Glu Phe Met Phe Gln Glu Ala Leu
1               5


<210> 6283
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 6283
Leu Glu Ser Val Ile Lys Asn Tyr
1               5


<210> 6284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6284
Leu Gly Asp Gly His Ser Met Pro Lys
1               5


<210> 6285
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*27:02

<400> 6285
Leu Ser Val Met Gly Val Tyr Val Gly Lys
1               5                   10


<210> 6286
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*57:01,HLA-B*58:01

<400> 6286
Leu Thr Gln Asp Trp Val Gln Glu Asn Tyr
1               5                   10


<210> 6287
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*29:02

<400> 6287
Leu Val His Phe Leu Leu His Lys Tyr
1               5


<210> 6288
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -C*14:02

<400> 6288
Met Phe Gln Glu Ala Leu Lys Leu
1               5


<210> 6289
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*03:02,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:02

<400> 6289
Met Leu Glu Ser Val Ile Lys Asn Tyr
1 5

<210> 6290
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:01,HLA-A*03:02

<400> 6290
Met Leu Glu Ser Val Ile Lys Asn Tyr Lys
1 5 10

<210> 6291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*32:01,HLA-C*01:02

<400> 6291
Met Leu Gly Asp Gly His Ser Met
1 5

<210> 6292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01

<400> 6292
Met Leu Gly Asp Gly His Ser Met Pro Lys
1 5 10

<210> 6293
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*51:01

<400> 6293
Met Pro Lys Ala Ala Leu Leu Ile
1 5

<210> 6294
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*51:01,HLA-B*54:01

<400> 6294
Met Pro Lys Ala Ala Leu Leu Ile Ile
1 5

<210> 6295
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*54:01

<400> 6295
Met Pro Lys Ala Ala Leu Leu Ile Ile Val
1 5 10

<210> 6296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:01,HLA-B*13:02,HLA-B*15:03,HLA-B*39:01

<400> 6296
Met Gln Val Ile Phe Gly Thr Asp Val
1 5

<210> 6297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*24:02

<400> 6297
Asn Tyr Lys Arg Tyr Phe Pro Val Ile
1 5

<210> 6298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*33:01,HLA-A*33:03

<400> 6298
Asn Tyr Leu Val Met Leu Asn Ala Arg
1 5

<210> 6299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:01

<400> 6299
Gln Asp Trp Val Gln Glu Asn Tyr Leu
1 5

<210> 6300
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02

<400> 6300
Gln Gly Gly Ala Ser Ser Ser Ile Ser Val Tyr
1 5 10

<210> 6301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:02,HLA-A*11:01

<400> 6301
Gln Val Ile Phe Gly Thr Asp Val Lys
1 5

<210> 6302
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 6302
Gln Val Pro Gly Ser Asp Pro Ala His Tyr
1 5 10

<210> 6303
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*58:01

<400> 6303
Arg Gln Val Pro Gly Ser Asp Pro Ala His Tyr
1 5 10

<210> 6304
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*57:01

<400> 6304

Arg Val Lys Glu Pro Val Thr Lys
1               5


<210> 6305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*02:03,HLA-A*32:01,HLA-B*55:01,HLA-B*56:01

<400> 6305
Arg Val Lys Glu Pro Val Thr Lys Ala
1               5


<210> 6306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*03:01,HLA-A*31:01,HLA-B*57:01

<400> 6306
Arg Tyr Phe Pro Val Ile Phe Gly Lys
1               5


<210> 6307
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*37:01

<400> 6307
Ser Asp Pro Ala His Tyr Glu Phe
1               5


<210> 6308
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 6308
Ser Glu Phe Met Gln Val Ile Phe
1               5


<210> 6309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*15:03

<400> 6309
Ser Lys Ala His Ala Glu Thr Ser Tyr
1               5


<210> 6310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*32:01,HLA-B*15:01,HLA-B*35:03,HLA-B*46:01,HLA-B*55:01,
      HLA-C*01:02,HLA-C*14:02

<400> 6310
Ser Met Leu Gly Asp Gly His Ser Met
1               5


<210> 6311
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6311
Ser Met Leu Gly Asp Gly His Ser Met Pro Lys
1               5                   10


<210> 6312
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*07:02,HLA-C*07:02

<400> 6312
Ser Pro Gln Gly Gly Ala Ser Ser Ser Ile
1 5 10

<210> 6313
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*39:01

<400> 6313
Ser Gln Phe Asp Glu Gly Ser Ser Ser Gln
1 5 10

<210> 6314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -C*05:01

<400> 6314
Ser Ser Asp Ser Lys Glu Glu Glu Val
1 5

<210> 6315
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*23:01,HLA-B*58:01

<400> 6315
Ser Ser Ile Ser Val Tyr Tyr Thr Leu
1 5

<210> 6316
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*25:01,HLA-B*57:01

<400> 6316
Ser Ser Ile Ser Val Tyr Tyr Thr Leu Trp
1 5 10

<210> 6317
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:02

<400> 6317
Ser Ser Ser Ile Ser Val Tyr Tyr
1 5

<210> 6318
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*02:07,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*38:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,

<220>
<223> HLA-C*03:04,HLA-C*04:01,HLA-C*05:01

<400> 6318
Ser Val Asp Pro Ala Gln Leu Glu Phe
1 5

<210> 6319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*02:07

<400> 6319

Ser Val Asp Pro Ala Gln Leu Glu Phe Met
1               5                   10


<210> 6320
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*02:07

<400> 6320
Ser Val Asp Pro Ala Gln Leu Glu Phe Met Phe
1               5                   10


<210> 6321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
      HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 6321
Ser Val Met Gly Val Tyr Val Gly Lys
1               5


<210> 6322
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*23:01,HLA-A*24:02

<400> 6322
Ser Tyr Glu Lys Val Ile Asn Tyr Leu
1               5


<210> 6323
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;

HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 6323
Ser Tyr Ile Leu Val Thr Ala Leu
1 5

<210> 6324
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*23:01,HLA-A*24:02

<400> 6324
Ser Tyr Ile Leu Val Thr Ala Leu Gly Leu
1 5 10

<210> 6325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*30:02

<400> 6325
Thr Gln Asp Trp Val Gln Glu Asn Tyr
1 5

<210> 6326
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*38:01

<400> 6326
Thr Gln Asp Trp Val Gln Glu Asn Tyr Leu
1 5 10

<210> 6327
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,

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<223> HLA-B*35:01,HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,
HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 6327
Thr Ser Tyr Glu Lys Val Ile Asn Tyr
1 5

<210> 6328
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*68:02

<400> 6328
Thr Ser Tyr Glu Lys Val Ile Asn Tyr Leu
1 5 10

<210> 6329
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*68:02

<400> 6329
Thr Ser Tyr Glu Lys Val Ile Asn Tyr Leu Val
1 5 10

<210> 6330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:07

<400> 6330

Val Ala Glu Leu Val His Phe Leu Leu
1               5


<210> 6331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*30:02,HLA-B*37:01,HLA-C*01:02

<400> 6331
Val Asp Pro Ala Gly His Ser Tyr
1               5


<210> 6332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*46:01,HLA-C*02:02

<400> 6332
Val Ile Phe Gly Lys Ala Ser Glu Phe
1               5


<210> 6333
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*02:01,HLA-A*02:03

<400> 6333
Val Ile Phe Gly Thr Asp Val Lys Glu Val
1               5                   10


<210> 6334
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;

HLA -A*02:01,HLA-A*02:07

<400> 6334
Val Ile Trp Glu Ala Leu Ser Val Met Gly Val
1 5 10

<210> 6335
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*15:03

<400> 6335
Val Lys Glu Pro Val Thr Lys Ala Glu Met
1 5 10

<210> 6336
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*15:03

<400> 6336
Val Lys Glu Val Asp Pro Ala Gly His Ser Tyr
1 5 10

<210> 6337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-B*13:02,HLA-B*55:01

<400> 6337
Val Leu Gly Glu Glu Gln Glu Gly Val
1 5

<210> 6338
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:01,HLA-A*03:02

<400> 6338
Val Leu Gly Val Ile Leu Thr Lys
1 5

<210> 6339
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*03:02

<400> 6339
Val Met Gly Val Tyr Val Gly Lys
1 5

<210> 6340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*23:01

<400> 6340
Val Met Leu Asn Ala Arg Glu Pro Ile
1 5

<210> 6341
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*29:02

<400> 6341
Val Met Leu Asn Ala Arg Glu Pro Ile Cys Tyr
1 5 10

<210> 6342
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*30:02,HLA-B*35:01,HLA-B*55:01

<400> 6342
Val Pro Gly Ser Asp Pro Ala His Tyr
1 5

<210> 6343
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*35:01,HLA-B*55:01

<400> 6343
Val Pro Gly Ser Asp Pro Ala His Tyr Glu Phe
1 5 10

<210> 6344
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-B*39:01

<400> 6344
Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 6345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*23:01,HLA-A*24:02

<400> 6345
Val Tyr Val Gly Lys Glu His Met Phe
1 5

<210> 6346

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*29:02

<400> 6346
Val Tyr Val Gly Lys Glu His Met Phe Tyr
1 5 10

<210> 6347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*23:01,HLA-A*24:02

<400> 6347
Val Tyr Tyr Thr Leu Trp Ser Gln Phe
1 5

<210> 6348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*49:01

<400> 6348
Trp Glu Ala Leu Ser Val Met Gly Val
1 5

<210> 6349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*15:01,HLA-B*35:01

<400> 6349
Trp Val Gln Glu Asn Tyr Leu Glu Tyr
1 5

<210> 6350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*49:01

<400> 6350
Tyr Glu Phe Leu Trp Gly Ser Lys Ala
1 5

<210> 6351
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -A*30:01,HLA-B*08:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02,
HLA-B*49:01

<400> 6351
Tyr Glu Lys Val Ile Asn Tyr Leu
1 5

<210> 6352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*49:01

<400> 6352
Tyr Glu Lys Val Ile Asn Tyr Leu Val
1 5

<210> 6353
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
HLA -B*54:01,HLA-B*56:01

<400> 6353
Tyr Pro Ser Leu Tyr Glu Glu Val
1               5


<210> 6354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01

<400> 6354
Tyr Pro Ser Leu Tyr Glu Glu Val Leu
1               5


<210> 6355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -B*27:02,HLA-B*27:05

<400> 6355
Tyr Arg Val Lys Glu Pro Val Thr Lys
1               5


<210> 6356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;
      HLA -A*01:01,HLA-A*29:02

<400> 6356
Tyr Val Gly Lys Glu His Met Phe Tyr
1               5


<210> 6357
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEA9; ENSG00000123584;

HLA -A*24:02

<400> 6357
Tyr Tyr Thr Leu Trp Ser Gln Phe
1 5

<210> 6358
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*37:01,HLA-B*49:01

<400> 6358
Ala Glu Thr Thr Lys Met Lys Val
1 5

<210> 6359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 6359
Ala Glu Thr Thr Lys Met Lys Val Leu
1 5

<210> 6360
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 6360
Ala Leu Arg Asp Glu Glu Glu Arg Ala Gln Val
1 5 10

<210> 6361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02

<400> 6361
Ala Pro Phe Ser Arg Ser Ser His
1 5

<210> 6362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 6362
Ala Pro Phe Ser Arg Ser Ser His Pro
1 5

<210> 6363
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-C*04:01,HLA-C*07:01,HLA-C*07:02

<400> 6363
Ala Pro Phe Ser Arg Ser Ser His Pro Met
1 5 10

<210> 6364
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*56:01

<400> 6364
Ala Pro Pro Thr Thr Thr Ala Ala
1 5

<210> 6365

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 6365
Ala Pro Pro Thr Thr Thr Ala Ala Ala
1 5

<210> 6366
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*56:01

<400> 6366
Ala Pro Pro Thr Thr Thr Ala Ala Ala Ala
1 5 10

<210> 6367
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*56:01

<400> 6367
Ala Pro Pro Thr Thr Thr Ala Ala Ala Ala Val
1 5 10

<210> 6368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*27:05

<400> 6368
Ala Arg Ser Arg Ala Pro Phe Ser Arg
1 5

<210> 6369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*57:01

<400> 6369
Ala Ser Arg Arg Leu Glu Leu Val Phe
1 5

<210> 6370
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*30:02

<400> 6370
Ala Thr Pro Arg Asp Phe Pro Ser His Tyr
1 5 10

<210> 6371
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:02,HLA-A*11:01

<400> 6371
Ala Thr Thr Ser Thr Glu Ser Ser Val Lys
1 5 10

<210> 6372
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*24:02

<400> 6372
Ala Trp Glu Ala Gly Met Leu Met His Phe

1 5 10

<210> 6373
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*46:01,HLA-C*01:02,
HLA-C*04:01,HLA-C*14:02

<400> 6373
Ala Tyr Ala Glu Thr Thr Lys Met
1 5

<210> 6374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:02,HLA-A*33:03

<400> 6374
Ala Tyr Ala Glu Thr Thr Lys Met Lys
1 5

<210> 6375
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*24:02

<400> 6375
Ala Tyr Ala Glu Thr Thr Lys Met Lys Val Leu
1 5 10

<210> 6376
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -C*04:01

<400> 6376
Ala Tyr Asp Gly Glu Glu His Leu
1               5


<210> 6377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*23:01,HLA-A*24:02,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,
      HLA-C*04:01,HLA-C*05:01

<400> 6377
Ala Tyr Asp Gly Glu Glu His Leu Ile
1               5


<210> 6378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 6378
Ala Tyr Asp Gly Glu Glu His Leu Ile Tyr
1               5                   10


<210> 6379
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 6379
Cys Pro Ser Ser Ser Pro Val Leu
1               5


<210> 6380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*38:01

<400> 6380
Cys Gln Gly Glu Glu Asn Ala Ser Phe
1 5

<210> 6381
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*18:01

<400> 6381
Asp Glu Glu Glu Arg Ala Gln Val
1 5

<210> 6382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*18:01

<400> 6382
Asp Glu Glu Glu Arg Ala Gln Val Arg
1 5

<210> 6383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:01

<400> 6383
Asp Leu Val Gln Glu Lys Tyr Leu Lys
1 5

<210> 6384
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-A*26:01

<400> 6384
Asp Leu Val Gln Glu Lys Tyr Leu Lys Tyr
1 5 10

<210> 6385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:01

<400> 6385
Asp Met Leu Lys Val Val Asp Glu Lys
1 5

<210> 6386
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-B*18:01

<400> 6386
Asp Met Leu Lys Val Val Asp Glu Lys Tyr
1 5 10

<210> 6387
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*35:01,HLA-B*35:03

<400> 6387
Asp Pro Val Ala Trp Glu Ala Gly Met
1 5

<210> 6388

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*26:01

<400> 6388
Asp Thr Pro Thr Ser Ser Pro Ala Ala
1 5

<210> 6389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:01,HLA-A*33:03

<400> 6389
Glu Ala Leu Arg Asp Glu Glu Glu Arg
1 5

<210> 6390
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-A*33:01,HLA-A*33:03,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*35:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,

<220>
<223> HLA-C*07:01,HLA-C*07:04,HLA-C*07:06,HLA-C*16:01,HLA-C*16:04

<400> 6390
Glu Asp Asn Pro Ser Gly His Thr Tyr
1 5

<210> 6391
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*23:01,HLA-A*30:01,HLA-A*33:03,HLA-B*37:01,HLA-B*38:01

<400> 6391
Glu Asp Asn Pro Ser Gly His Thr Tyr Thr Leu
1               5                   10


<210> 6392
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*30:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03

<400> 6392
Glu Glu Cys Pro Ser Ser Ser Pro Val Leu
1               5                   10


<210> 6393
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*68:02,HLA-B*49:01

<400> 6393
Glu Glu Ile Trp Lys Phe Met Asn Val
1               5


<210> 6394
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*44:02,HLA-B*49:01

<400> 6394
Glu Glu Asn Ala Ser Phe Ser Gln Ala
1               5


<210> 6395
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*18:01,HLA-B*44:03,HLA-B*49:01

<400> 6395
Glu Glu Thr Gln Gly Leu Lys Val
1 5

<210> 6396
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 6396
Glu Glu Thr Gln Gly Leu Lys Val Ala
1 5

<210> 6397
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 6397
Glu Glu Thr Gln Gly Leu Lys Val Ala His
1 5 10

<210> 6398
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:01,HLA-A*33:03

<400> 6398
Glu His Leu Ile Tyr Gly Glu Pro Arg
1 5

<210> 6399
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:01,HLA-A*33:03

<400> 6399
Glu Ile Leu Asn Gly Ala Ser Arg
1 5

<210> 6400
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:01,HLA-A*33:03

<400> 6400
Glu Ile Leu Asn Gly Ala Ser Arg Arg
1 5

<210> 6401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*68:02

<400> 6401
Glu Ile Trp Lys Phe Met Asn Val Leu
1 5

<210> 6402
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*08:01

<400> 6402
Glu Pro Ile Met Lys Ala Asp Met
1 5

<210> 6403
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 6403
Glu Pro Ile Met Lys Ala Asp Met Leu
1 5

<210> 6404
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*39:01

<400> 6404
Glu Gln Val Pro Asn Ser Asp Pro Pro Arg
1 5 10

<210> 6405
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
HLA-B*38:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03

<400> 6405
Glu Gln Val Pro Asn Ser Asp Pro Pro Arg Tyr
1 5 10

<210> 6406
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-B*57:01

<400> 6406
Glu Ser Ser Val Lys Asp Pro Val Ala Trp
1 5 10

<210> 6407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*33:01,HLA-A*33:03

<400> 6407
Glu Thr Gln Gly Leu Lys Val Ala His
1 5

<210> 6408
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-A*26:01

<400> 6408
Glu Thr Thr Lys Met Lys Val Leu Glu Phe
1 5 10

<210> 6409
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*27:02

<400> 6409
Phe Ile Thr Gln Asp Leu Val Gln Glu Lys
1 5 10

<210> 6410
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*29:02

<400> 6410
Phe Leu Trp Gly Pro Arg Ala Tyr

1 5

<210> 6411
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:02,HLA-B*46:01,HLA-C*14:02

<400> 6411
Phe Met Asn Val Leu Gly Ala Tyr
1 5

<210> 6412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*54:01,HLA-B*56:01

<400> 6412
Phe Pro Arg Asn Gly Leu Leu Met Pro
1 5

<210> 6413
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*54:01

<400> 6413
Phe Pro Ser His Tyr Glu Glu Ala
1 5

<210> 6414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03

<400> 6414
Phe Pro Ser His Tyr Glu Glu Ala Leu
1               5


<210> 6415
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*01:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02

<400> 6415
Phe Thr Glu Ile Leu Asn Gly Ala Ser Arg
1               5                   10


<210> 6416
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*01:01

<400> 6416
Phe Thr Glu Ile Leu Asn Gly Ala Ser Arg Arg
1               5                   10


<210> 6417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*46:01,HLA-C*01:02

<400> 6417
Gly Ala Pro Pro Thr Thr Thr Ala Ala
1               5


<210> 6418
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-C*16:01

<400> 6418
Gly Ala Ser Arg Arg Leu Glu Leu
1 5

<210> 6419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,

<220>
<223> HLA-C*03:04,HLA-C*05:01,HLA-C*16:02,HLA-C*16:04

<400> 6419
Gly Ala Tyr Asp Gly Glu Glu His Leu
1 5

<210> 6420
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:01,HLA-A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-B*13:02,
HLA-B*27:05,HLA-B*38:01,HLA-B*49:01,HLA-B*51:01,HLA-B*58:01,
HLA-C*06:02,HLA-C*12:03,HLA-C*16:02,HLA-C*16:04

<400> 6420
Gly Ala Tyr Asp Gly Glu Glu His Leu Ile
1 5 10

<210> 6421
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*55:01,
HLA-B*57:01,HLA-C*02:02,HLA-C*07:01,HLA-C*12:03,HLA-C*16:04

<400> 6421
Gly Ala Tyr Asp Gly Glu Glu His Leu Ile Tyr
1               5                   10


<210> 6422
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 6422
Gly Glu Glu Asn Ala Ser Phe Ser Gln Ala
1               5                   10


<210> 6423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*03:02,HLA-B*27:05

<400> 6423
Gly His Thr Tyr Thr Leu Val Ser Lys
1               5


<210> 6424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*02:03,HLA-B*08:01

<400> 6424
Gly Leu Lys Val Ala His Ala Thr Ala
1               5


<210> 6425
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;

HLA -A*02:03

<400> 6425
Gly Leu Lys Val Ala His Ala Thr Ala Ala
1 5 10

<210> 6426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:01,HLA-A*02:04

<400> 6426
Gly Leu Leu Met Pro Leu Leu Gly Val
1 5

<210> 6427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01

<400> 6427
Gly Met Leu Met His Phe Ile Leu Arg
1 5

<210> 6428
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02

<400> 6428
Gly Pro Arg Ala Tyr Ala Glu Thr Thr Lys
1 5 10

<210> 6429
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-C*07:02

<400> 6429
Gly Pro Arg Ala Tyr Ala Glu Thr Thr Lys Met
1 5 10

<210> 6430
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*56:01

<400> 6430
Gly Val Ile Phe Leu Lys Gly Asn Ser Ala
1 5 10

<210> 6431
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*54:01,HLA-B*55:01

<400> 6431
His Phe Thr Glu Ile Leu Asn Gly Ala
1 5

<210> 6432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6432
His Thr Tyr Thr Leu Val Ser Lys
1 5

<210> 6433
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:03,HLA-A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*31:01,
HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*27:05,
HLA-B*40:02,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03

<400> 6433
His Thr Tyr Thr Leu Val Ser Lys Leu
1 5

<210> 6434
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -C*14:02

<400> 6434
Ile Phe Leu Lys Gly Asn Ser Ala
1 5

<210> 6435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:03

<400> 6435
Ile Met Lys Ala Asp Met Leu Lys Val
1 5

<210> 6436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*56:01

<400> 6436
Ile Pro Gln Lys Pro Gln Gly Ala Pro
1 5

<210> 6437
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*56:01

<400> 6437
Ile Pro Gln Lys Pro Gln Gly Ala Pro Pro
1 5 10

<210> 6438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,
HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 6438
Ile Thr Gln Asp Leu Val Gln Glu Lys
1 5

<210> 6439
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*03:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*16:02

<400> 6439
Ile Thr Gln Asp Leu Val Gln Glu Lys Tyr
1 5 10

<210> 6440
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*24:02

<400> 6440
Ile Tyr Gly Glu Pro Arg Lys Phe
1               5


<210> 6441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*24:02

<400> 6441
Ile Tyr Gly Glu Pro Arg Lys Phe Ile
1               5


<210> 6442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*07:02,HLA-B*40:02,HLA-B*58:01

<400> 6442
Lys Ala Arg Glu Glu Thr Gln Gly Leu
1               5


<210> 6443
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*03:01

<400> 6443
Lys Ala Arg Glu Glu Thr Gln Gly Leu Lys
1               5                   10


<210> 6444
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*58:01

<400> 6444
Lys Cys Gln Gly Glu Glu Asn Ala Ser Phe
1 5 10

<210> 6445
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*25:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,

<220>
<223> HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*16:02,HLA-C*16:04

<400> 6445
Lys Glu Asp Asn Pro Ser Gly His Thr Tyr
1 5 10

<210> 6446
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 6446
Lys Glu Glu Cys Pro Ser Ser Ser Pro Val Leu
1 5 10

<210> 6447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*23:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,HLA-B*46:01

<400> 6447
Lys Phe Met Asn Val Leu Gly Ala Tyr
1 5

<210> 6448
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*57:01,HLA-B*58:01

<400> 6448
Lys Gly Asn Ser Ala Thr Glu Glu Glu Ile Trp
1 5 10

<210> 6449
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01

<400> 6449
Lys Met Lys Val Leu Glu Phe Leu Ala Lys
1 5 10

<210> 6450
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01

<400> 6450
Lys Met Asn Gly Ala Thr Pro Arg
1 5

<210> 6451
<211> 10
<212> PRT
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<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:02

<400> 6451

Lys Met Asn Gly Ala Thr Pro Arg Asp Phe
1               5                   10


<210> 6452
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*03:01

<400> 6452
Lys Met Arg Glu Pro Ile Met Lys
1               5


<210> 6453
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*02:03

<400> 6453
Lys Met Arg Glu Pro Ile Met Lys Ala
1               5


<210> 6454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*56:01

<400> 6454
Lys Pro Gln Gly Ala Pro Pro Thr Thr
1               5


<210> 6455
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*07:02,HLA-B*56:01

<400> 6455
Lys Pro Gln Gly Ala Pro Pro Thr Thr Thr
1  5  10

<210> 6456
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 6456
Lys Pro Gln Gly Ala Pro Pro Thr Thr Thr Ala
1  5  10

<210> 6457
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6457
Lys Val Ala His Ala Thr Ala Ala Glu Lys
1  5  10

<210> 6458
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01,HLA-A*11:01

<400> 6458
Lys Val Leu Glu Phe Leu Ala Lys
1  5

<210> 6459
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*29:02,
HLA-A*31:01,HLA-B*57:01

<400> 6459
Lys Val Leu Glu Phe Leu Ala Lys Met
1 5

<210> 6460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*23:01,HLA-A*24:02,HLA-A*31:01

<400> 6460
Lys Tyr Lys Asp His Phe Thr Glu Ile
1 5

<210> 6461
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*24:02

<400> 6461
Lys Tyr Lys Asp His Phe Thr Glu Ile Leu
1 5 10

<210> 6462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 6462
Leu Glu Leu Val Phe Gly Leu Asp Leu
1 5

<210> 6463
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -C*05:01

<400> 6463
Leu Gly Asp Thr Pro Thr Ser Ser Pro
1 5

<210> 6464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01,HLA-B*57:01

<400> 6464
Leu Ile Tyr Gly Glu Pro Arg Lys Phe
1 5

<210> 6465
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:02,HLA-B*15:03

<400> 6465
Leu Lys Glu Asp Asn Pro Ser Gly His Thr Tyr
1 5 10

<210> 6466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*15:03

<400> 6466
Leu Lys Val Ala His Ala Thr Ala Ala
1 5

<210> 6467

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*15:03

<400> 6467
Leu Lys Val Val Asp Glu Lys Tyr
1 5

<210> 6468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 6468
Leu Leu Met Pro Leu Leu Gly Val Ile
1 5

<210> 6469
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 6469
Leu Leu Met Pro Leu Leu Gly Val Ile Phe Leu
1 5 10

<210> 6470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*29:02

<400> 6470
Leu Met His Phe Ile Leu Arg Lys Tyr
1 5

<210> 6471
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*24:02

<400> 6471
Leu Met Pro Leu Leu Gly Val Ile Phe
1 5

<210> 6472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:07

<400> 6472
Leu Met Pro Leu Leu Gly Val Ile Phe Leu
1 5 10

<210> 6473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01,HLA-A*33:01

<400> 6473
Leu Ser Asn Asp Trp Asp Phe Pro Arg
1 5

<210> 6474
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*58:01

<400> 6474
Leu Thr Asn Asp Gly Asn Leu Ser Asn Asp Trp

1 5 10

<210> 6475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 6475
Leu Val Gln Glu Lys Tyr Leu Lys Tyr
1 5

<210> 6476
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*08:01,HLA-C*07:01

<400> 6476
Met Leu Lys Val Val Asp Glu Lys
1 5

<210> 6477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*46:01,HLA-C*07:04

<400> 6477
Met Leu Lys Val Val Asp Glu Lys Tyr
1 5

<210> 6478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;

HLA -A*03:01

<400> 6478
Met Leu Met His Phe Ile Leu Arg Lys
1 5

<210> 6479
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*29:02

<400> 6479
Met Leu Met His Phe Ile Leu Arg Lys Tyr
1 5 10

<210> 6480
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*35:01,HLA-B*35:03

<400> 6480
Met Pro Leu Leu Gly Val Ile Phe
1 5

<210> 6481
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01

<400> 6481
Met Pro Leu Leu Gly Val Ile Phe Leu
1 5

<210> 6482
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*54:01

<400> 6482
Met Pro Leu Leu Gly Val Ile Phe Leu Lys Gly
1 5 10

<210> 6483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-C*07:02

<400> 6483
Met Pro Arg Gly Gln Lys Ser Lys Leu
1 5

<210> 6484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*08:01,HLA-C*16:01

<400> 6484
Asn Gly Ala Ser Arg Arg Leu Glu Leu
1 5

<210> 6485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*68:01,HLA-A*68:02,HLA-B*07:02,HLA-B*08:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*07:02

<400> 6485
Asn Pro Ser Gly His Thr Tyr Thr Leu
1 5

<210> 6486

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*58:01

<400> 6486
Asn Ser Ala Thr Glu Glu Glu Ile Trp
1 5

<210> 6487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*02:07,HLA-A*29:02,HLA-A*32:01,HLA-B*35:01,
HLA-B*38:01,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01,HLA-C*16:01

<400> 6487
Asn Ser Asp Pro Pro Arg Tyr Gln Phe
1 5

<210> 6488
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 6488
Pro Ala Ala Gly Ile Pro Gln Lys
1 5

<210> 6489
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*56:01

<400> 6489
Pro Pro Thr Thr Thr Ala Ala Ala
1 5

<210> 6490
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-C*07:01,HLA-C*07:02

<400> 6490
Pro Ser Gly His Thr Tyr Thr Leu
1 5

<210> 6491
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*18:01,HLA-B*37:01,HLA-C*07:01

<400> 6491
Gln Asp Leu Val Gln Glu Lys Tyr
1 5

<210> 6492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*29:02

<400> 6492
Gln Phe Leu Trp Gly Pro Arg Ala Tyr
1 5

<210> 6493
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:03,HLA-B*46:01,HLA-B*54:01,HLA-B*56:01

<400> 6493

Gln Gly Ala Pro Pro Thr Thr Thr Ala
1               5


<210> 6494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*11:01,HLA-A*68:01

<400> 6494
Gln Val Pro Asn Ser Asp Pro Pro Arg
1               5


<210> 6495
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-B*58:01

<400> 6495
Gln Val Pro Asn Ser Asp Pro Pro Arg Tyr
1               5                   10


<210> 6496
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*03:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 6496
Gln Val Arg Ser Ser Val Arg Ala Arg
1               5


<210> 6497
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;

HLA -B*07:02,HLA-B*08:01,HLA-C*16:01

<400> 6497
Arg Ala Gln Val Arg Ser Ser Val
1 5

<210> 6498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01

<400> 6498
Arg Ala Gln Val Arg Ser Ser Val Arg
1 5

<210> 6499
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01

<400> 6499
Arg Ala Gln Val Arg Ser Ser Val Arg Ala Arg
1 5 10

<210> 6500
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01

<400> 6500
Arg Ala Arg Ser Arg Ala Pro Phe Ser Arg
1 5 10

<210> 6501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,
HLA-C*12:03,HLA-C*16:04

<400> 6501
Arg Ala Tyr Ala Glu Thr Thr Lys Met
1 5

<210> 6502
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01

<400> 6502
Arg Ala Tyr Ala Glu Thr Thr Lys Met Lys
1 5 10

<210> 6503
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 6503
Arg Glu Glu Thr Gln Gly Leu Lys Val
1 5

<210> 6504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*37:01

<400> 6504
Arg Glu Pro Ile Met Lys Ala Asp Met
1 5

<210> 6505
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*37:01

<400> 6505
Arg Arg Thr Thr Ala Thr Thr Phe
1 5

<210> 6506
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*27:05

<400> 6506
Arg Arg Thr Thr Ala Thr Thr Phe Arg
1 5

<210> 6507
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01

<400> 6507
Arg Ser Arg Ala Pro Phe Ser Arg
1 5

<210> 6508
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01

<400> 6508
Arg Thr Thr Ala Thr Thr Phe Arg
1 5

<210> 6509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*32:01

<400> 6509
Arg Thr Thr Ala Thr Thr Phe Arg Ala
1 5

<210> 6510
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01,HLA-A*31:01,HLA-B*57:01

<400> 6510
Arg Thr Thr Ala Thr Thr Phe Arg Ala Arg
1 5 10

<210> 6511
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*37:01

<400> 6511
Ser Asp Pro Pro Arg Tyr Gln Phe
1 5

<210> 6512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*37:01

<400> 6512

Ser Asp Pro Pro Arg Tyr Gln Phe Leu
1               5


<210> 6513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -C*14:02

<400> 6513
Ser Phe Ser Gln Ala Thr Thr Ser Thr
1               5


<210> 6514
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*11:01

<400> 6514
Ser Gly His Thr Tyr Thr Leu Val Ser Lys
1               5                   10


<210> 6515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*03:02,HLA-A*11:01,HLA-B*56:01

<400> 6515
Ser Pro Ala Ala Gly Ile Pro Gln Lys
1               5


<210> 6516
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*56:01

<400> 6516
Ser Pro Ala Ala Gly Ile Pro Gln Lys Pro
1               5                   10


<210> 6517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*35:03

<400> 6517
Ser Pro Val Leu Gly Asp Thr Pro Thr
1               5


<210> 6518
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*56:01

<400> 6518
Ser Pro Val Leu Gly Asp Thr Pro Thr Ser
1               5                   10


<210> 6519
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*13:02,HLA-B*27:05

<400> 6519
Ser Gln Ala Thr Thr Ser Thr Glu Ser Ser Val
1               5                   10


<210> 6520
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*11:01

<400> 6520
Ser Ser Pro Ala Ala Gly Ile Pro Gln Lys
1 5 10

<210> 6521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-A*32:01,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,
HLA-C*16:04

<400> 6521
Ser Ser Val Lys Asp Pro Val Ala Trp
1 5

<210> 6522
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 6522
Ser Val Lys Asp Pro Val Ala Trp
1 5

<210> 6523
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01,HLA-B*54:01,HLA-B*56:01

<400> 6523
Ser Val Lys Asp Pro Val Ala Trp Glu Ala
1 5 10

<210> 6524
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*31:01,HLA-A*33:03,HLA-C*16:01

<400> 6524
Thr Ala Thr Thr Phe Arg Ala Arg
1 5

<210> 6525
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*18:01,HLA-B*44:02

<400> 6525
Thr Glu Glu Glu Ile Trp Lys Phe
1 5

<210> 6526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:01,HLA-A*33:03,HLA-B*44:03

<400> 6526
Thr Glu Ile Leu Asn Gly Ala Ser Arg
1 5

<210> 6527
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*44:02,HLA-B*44:03

<400> 6527
Thr Glu Ile Leu Asn Gly Ala Ser Arg Arg Leu
1 5 10

<210> 6528

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*49:01

<400> 6528
Thr Glu Ser Asp Glu Gly Ala Lys Cys
1 5

<210> 6529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*30:01,HLA-A*68:02,HLA-B*18:01,HLA-B*37:01,HLA-B*39:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,HLA-B*49:01,HLA-C*06:02

<400> 6529
Thr Glu Ser Ser Val Lys Asp Pro Val
1 5

<210> 6530
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*18:01,HLA-B*27:02,HLA-B*38:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*57:01,HLA-C*16:04

<400> 6530
Thr Glu Ser Ser Val Lys Asp Pro Val Ala Trp
1 5 10

<210> 6531
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*08:01

<400> 6531
Thr Leu Val Ser Lys Leu Asn Leu

1 5

<210> 6532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*02:03

<400> 6532
Thr Leu Val Ser Lys Leu Asn Leu Thr
1 5

<210> 6533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*07:02,HLA-B*35:01

<400> 6533
Thr Pro Arg Asp Phe Pro Ser His Tyr
1 5

<210> 6534
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 6534
Thr Pro Thr Ser Ser Pro Ala Ala
1 5

<210> 6535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*38:01,HLA-B*39:01,

HLA-B*44:02,HLA-B*44:03,HLA-B*58:01,HLA-C*16:04

<400> 6535
Thr Gln Asp Leu Val Gln Glu Lys Tyr
1 5

<210> 6536
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*38:01

<400> 6536
Thr Gln Asp Leu Val Gln Glu Lys Tyr Leu
1 5 10

<210> 6537
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 6537
Thr Ser Ser Pro Ala Ala Gly Ile Pro Gln Lys
1 5 10

<210> 6538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*57:01,HLA-C*07:06

<400> 6538
Thr Thr Ala Thr Thr Phe Arg Ala Arg
1 5

<210> 6539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*25:01,HLA-A*33:01,HLA-A*33:03,HLA-B*08:01,HLA-B*37:01,
HLA-B*57:01

<400> 6539
Thr Thr Lys Met Lys Val Leu Glu Phe
1 5

<210> 6540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 6540
Thr Thr Ser Thr Glu Ser Ser Val Lys
1 5

<210> 6541
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*23:01,HLA-A*24:02,HLA-B*37:01,HLA-C*04:01,HLA-C*06:02,
HLA-C*14:02,HLA-C*16:02

<400> 6541
Thr Tyr Thr Leu Val Ser Lys Leu
1 5

<210> 6542
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*23:01,HLA-A*24:02

<400> 6542
Thr Tyr Thr Leu Val Ser Lys Leu Asn Leu
1 5 10

<210> 6543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-B*46:01,
HLA-C*07:06

<400> 6543
Val Ala His Ala Thr Ala Ala Glu Lys
1 5

<210> 6544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -B*35:01,HLA-B*46:01,HLA-B*51:01

<400> 6544
Val Ala Trp Glu Ala Gly Met Leu Met
1 5

<210> 6545
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*32:01,HLA-B*08:01,HLA-B*54:01,HLA-B*56:01

<400> 6545
Val Ile Phe Leu Lys Gly Asn Ser Ala
1 5

<210> 6546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*55:01,HLA-C*16:02

<400> 6546

Val Pro Asn Ser Asp Pro Pro Arg Tyr
1               5


<210> 6547
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*23:01,HLA-B*07:02,HLA-B*35:01,HLA-B*55:01

<400> 6547
Val Pro Asn Ser Asp Pro Pro Arg Tyr Gln Phe
1               5                   10


<210> 6548
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*01:01

<400> 6548
Val Gln Glu Lys Tyr Leu Lys Tyr
1               5


<210> 6549
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*01:01,HLA-B*51:01,HLA-C*16:02

<400> 6549
Tyr Ala Glu Thr Thr Lys Met Lys Val
1               5


<210> 6550
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -B*38:01,HLA-C*07:01,HLA-C*07:04

<400> 6550
Tyr Asp Gly Glu Glu His Leu Ile
1               5


<210> 6551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*01:01,HLA-A*29:02

<400> 6551
Tyr Asp Gly Glu Glu His Leu Ile Tyr
1               5


<210> 6552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*02:04

<400> 6552
Tyr Gln Phe Leu Trp Gly Pro Arg Ala
1               5


<210> 6553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB1; ENSG00000214107;
      HLA -A*02:04,HLA-A*23:01,HLA-A*24:02

<400> 6553
Tyr Thr Leu Val Ser Lys Leu Asn Leu
1               5


<210> 6554
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*46:01

<400> 6554
Ala Ala Ala Ala Ala Gly Val Ser Ser
1 5

<210> 6555
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*06:02,HLA-C*07:06,HLA-C*16:04

<400> 6555
Ala Ala Ala Ala Ala Gly Val Ser Ser Thr Lys
1 5 10

<210> 6556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:03,HLA-A*32:01,HLA-C*16:02

<400> 6556
Ala Ala Ala Ala Gly Val Ser Ser Thr
1 5

<210> 6557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02,
HLA-B*27:05,HLA-C*02:02,HLA-C*07:06

<400> 6557
Ala Ala Ala Ala Gly Val Ser Ser Thr Lys
1 5 10

<210> 6558

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,HLA-A*31:01,
HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-B*13:02,HLA-B*15:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,

<220>
<223> HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,
HLA-C*03:04,HLA-C*05:01,HLA-C*06:02,HLA-C*07:06,HLA-C*12:03,
HLA-C*16:02,HLA-C*16:04

<400> 6558
Ala Ala Ala Gly Val Ser Ser Thr Lys
1 5

<210> 6559
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,
HLA-B*27:05,HLA-C*04:01,HLA-C*06:02

<400> 6559
Ala Ala Ala Gly Val Ser Ser Thr Lys Ser Lys
1 5 10

<210> 6560
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-C*07:01,
HLA-C*07:06

<400> 6560
Ala Ala Gly Val Ser Ser Thr Lys
1 5

<210> 6561
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*07:01

<400> 6561
Ala Ala Gly Val Ser Ser Thr Lys Ser Lys
1 5 10

<210> 6562
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*56:01

<400> 6562
Ala Ala Ser Ser Ser Pro Ala Ala
1 5

<210> 6563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*30:01,HLA-B*49:01

<400> 6563
Ala Glu Glu Glu Glu Ala Pro Cys Cys
1 5

<210> 6564
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*37:01,HLA-B*44:03,HLA-B*49:01

<400> 6564
Ala Glu Thr Ser Lys Met Lys Val
1 5

<210> 6565
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 6565
Ala Glu Thr Ser Lys Met Lys Val Leu
1 5

<210> 6566
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*01:02

<400> 6566
Ala Phe Pro Thr His Tyr Glu Glu Ala Leu
1 5 10

<210> 6567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*31:01

<400> 6567
Ala Gly Ile Pro Gln Glu Pro Gln Arg
1 5

<210> 6568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*11:01

<400> 6568
Ala Gly Val Ser Ser Thr Lys Ser Lys
1 5

<210> 6569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*15:03

<400> 6569
Ala Lys Val Asn Gly Thr Thr Pro Cys
1 5

<210> 6570
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*15:03

<400> 6570
Ala Lys Val Asn Gly Thr Thr Pro Cys Ala Phe
1 5 10

<210> 6571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 6571
Ala Leu Lys Asp Glu Glu Lys Ala Gly Val
1 5 10

<210> 6572
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*55:01,HLA-B*56:01

<400> 6572
Ala Pro Thr Thr Ala Ala Ala Ala

1 5

<210> 6573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*07:02,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*07:02

<400> 6573
Ala Pro Thr Thr Ala Ala Ala Ala Ala
1 5

<210> 6574
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*54:01,HLA-B*56:01

<400> 6574
Ala Pro Thr Thr Ala Ala Ala Ala Ala Ala
1 5 10

<210> 6575
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*56:01

<400> 6575
Ala Pro Thr Thr Ala Ala Ala Ala Ala Ala Gly
1 5 10

<210> 6576
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01,HLA-B*15:01,HLA-B*15:03,HLA-B*38:01,HLA-B*57:01,

HLA-B*58:01,HLA-C*05:01,HLA-C*07:04

<400> 6576
Ala Ser Glu Gly Leu Ser Val Val Phe
1 5

<210> 6577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*13:02

<400> 6577
Ala Ser Ser Ser Pro Ala Ala Gly Ile
1 5

<210> 6578
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6578
Ala Ser Ser Ser Gln Ala Ser Thr Ser Thr Lys
1 5 10

<210> 6579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*05:01

<400> 6579
Ala Thr Glu Glu Glu Ile Trp Glu Phe
1 5

<210> 6580
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*23:01,HLA-A*24:02,HLA-B*46:01,HLA-C*01:02,HLA-C*04:01,
HLA-C*14:02

<400> 6580
Ala Tyr Ala Glu Thr Ser Lys Met
1 5

<210> 6581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*33:03

<400> 6581
Ala Tyr Ala Glu Thr Ser Lys Met Lys
1 5

<210> 6582
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*24:02

<400> 6582
Ala Tyr Ala Glu Thr Ser Lys Met Lys Val Leu
1 5 10

<210> 6583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*25:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 6583
Asp Glu Glu Ser Leu Leu Ser Ser Trp
1 5

<210> 6584
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*18:01,HLA-B*49:01,HLA-B*51:01

<400> 6584
Asp Glu Thr Arg Gly Leu Asn Val
1 5

<210> 6585
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*38:01

<400> 6585
Asp Lys Val Asp Leu Thr Asp Glu Glu Ser Leu
1 5 10

<210> 6586
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:01,
HLA-B*18:01,HLA-B*35:01

<400> 6586
Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr
1 5 10

<210> 6587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*08:01

<400> 6587
Asp Pro Leu Thr Arg Lys Ser Gly Ser Leu
1 5 10

<210> 6588
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*51:01

<400> 6588
Asp Pro Pro Arg Phe Gln Phe Leu
1 5

<210> 6589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*51:01

<400> 6589
Glu Ala Pro Cys Cys Ser Ser Ser Val
1 5

<210> 6590
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 6590
Glu Glu His Ser Val Phe Gly Glu Pro Trp
1 5 10

<210> 6591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*44:02,HLA-B*44:03

<400> 6591
Glu Glu Ile Trp Glu Phe Leu Asn Met

1 5

<210> 6592
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 6592
Glu Glu Ser Leu Leu Ser Ser Trp
1 5

<210> 6593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*29:02

<400> 6593
Glu Phe Leu Asn Met Leu Gly Val Tyr
1 5

<210> 6594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*33:03

<400> 6594
Glu Gly Leu Ser Val Val Phe Gly Leu
1 5

<210> 6595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*33:03,HLA-A*68:02,HLA-B*38:01

<400> 6595
Glu His Phe Pro Glu Ile Leu Lys Lys
1               5


<210> 6596
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*68:02

<400> 6596
Glu His Phe Pro Glu Ile Leu Lys Lys Ala
1               5                   10


<210> 6597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*38:01

<400> 6597
Glu His Ser Val Phe Gly Glu Pro Trp
1               5


<210> 6598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 6598
Glu Ile Trp Glu Phe Leu Asn Met Leu
1               5


<210> 6599
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;

HLA -A*33:01,HLA-A*33:03

<400> 6599
Glu Met Leu Lys Ile Val Gly Lys
1 5

<210> 6600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*33:01,HLA-A*33:03

<400> 6600
Glu Met Leu Lys Ile Val Gly Lys Arg
1 5

<210> 6601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*54:01,HLA-B*56:01

<400> 6601
Glu Pro Gln Arg Ala Pro Thr Thr Ala
1 5

<210> 6602
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 6602
Glu Pro Gln Arg Ala Pro Thr Thr Ala Ala
1 5 10

<210> 6603
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*33:01

<400> 6603
Glu Ser Leu Leu Ser Ser Trp Asp Phe Pro Arg
1 5 10

<210> 6604
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*26:01

<400> 6604
Glu Thr Arg Gly Leu Asn Val Pro Gln Val
1 5 10

<210> 6605
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*08:01

<400> 6605
Glu Thr Ser Lys Met Lys Val Leu
1 5

<210> 6606
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*25:01,HLA-A*26:01

<400> 6606
Glu Thr Ser Lys Met Lys Val Leu Glu Phe
1 5 10

<210> 6607
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*68:02

<400> 6607
Glu Thr Ser Lys Met Lys Val Leu Glu Phe Leu
1 5 10

<210> 6608
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*51:01

<400> 6608
Phe Gly Leu Glu Leu Asn Lys Val
1 5

<210> 6609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:03

<400> 6609
Phe Leu Ala Lys Val Asn Gly Thr Thr
1 5

<210> 6610
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*29:02

<400> 6610
Phe Leu Trp Gly Pro Arg Ala Tyr
1 5

<210> 6611

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*54:01

<400> 6611
Phe Pro Glu Ile Leu Lys Lys Ala
1 5

<210> 6612
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*54:01,HLA-B*56:01

<400> 6612
Phe Pro Thr His Tyr Glu Glu Ala
1 5

<210> 6613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,
HLA-C*03:04

<400> 6613
Phe Pro Thr His Tyr Glu Glu Ala Leu
1 5

<210> 6614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:04

<400> 6614
Phe Gln Phe Leu Trp Gly Pro Arg Ala

1 5

<210> 6615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*27:05,HLA-B*39:01,HLA-B*46:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*03:03

<400> 6615
Gly Ala Ala Ser Ser Ser Pro Ala Ala
1 5

<210> 6616
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*44:02,HLA-B*44:03

<400> 6616
Gly Glu Glu His Ser Val Phe Gly Glu Pro Trp
1 5 10

<210> 6617
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*30:01,HLA-B*40:02,HLA-B*49:01

<400> 6617
Gly Glu Lys Asn Ala Ser Ser Ser Gln Ala
1 5 10

<210> 6618
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*37:01

<400> 6618
Gly Glu Met Leu Lys Ile Val Gly Lys
1               5


<210> 6619
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*44:02,HLA-B*44:03

<400> 6619
Gly Glu Met Leu Lys Ile Val Gly Lys Arg Phe
1               5                   10


<210> 6620
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*02:01,HLA-A*02:03

<400> 6620
Gly Leu Asn Val Pro Gln Val Thr Glu Ala
1               5                   10


<210> 6621
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*02:04,HLA-B*37:01

<400> 6621
Gly Leu Ser Val Val Phe Gly Leu
1               5


<210> 6622
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 6622
Gly Leu Ser Val Val Phe Gly Leu Glu Leu
1 5 10

<210> 6623
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*07:02

<400> 6623
Gly Pro Arg Ala Tyr Ala Glu Thr Ser Lys
1 5 10

<210> 6624
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*07:02,HLA-C*07:02

<400> 6624
Gly Pro Arg Ala Tyr Ala Glu Thr Ser Lys Met
1 5 10

<210> 6625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*57:01,HLA-B*58:01

<400> 6625
Gly Ser Leu Val Gln Phe Leu Leu Tyr
1 5

<210> 6626
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*11:01

<400> 6626
Gly Ser Leu Val Gln Phe Leu Leu Tyr Lys
1 5 10

<210> 6627
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*29:02

<400> 6627
Gly Ser Leu Val Gln Phe Leu Leu Tyr Lys Tyr
1 5 10

<210> 6628
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*56:01

<400> 6628
Gly Val Ile Phe Leu Asn Gly Asn Ser Ala
1 5 10

<210> 6629
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:02

<400> 6629
Gly Val Ser Ser Thr Lys Ser Lys
1 5

<210> 6630

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6630
Gly Val Ser Ser Thr Lys Ser Lys Lys
1 5

<210> 6631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,

<220>
<223> HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,HLA-B*49:01,HLA-B*55:01,
HLA-B*56:01,HLA-B*58:01,HLA-C*02:02,HLA-C*06:02,HLA-C*07:04,
HLA-C*12:03,HLA-C*16:02,HLA-C*16:04

<400> 6631
Gly Val Tyr Asp Gly Glu Glu His Ser Val
1 5 10

<210> 6632
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-A*68:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*27:05,

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<223> HLA-B*35:01,HLA-B*38:01,HLA-B*46:01,HLA-B*55:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*05:01,HLA-C*07:04,HLA-C*12:03,
HLA-C*16:04

<400> 6632
Gly Val Tyr Asp Gly Glu Glu His Ser Val Phe
1 5 10

<210> 6633
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01

<400> 6633
His Thr Tyr Thr Phe Ile Asp Lys
1 5

<210> 6634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:03,HLA-A*02:04,HLA-A*68:02

<400> 6634
His Thr Tyr Thr Phe Ile Asp Lys Val
1 5

<210> 6635
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*14:02

<400> 6635
Ile Phe Leu Asn Gly Asn Ser Ala
1 5

<210> 6636
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*14:02

<400> 6636

Ile Phe Leu Asn Gly Asn Ser Ala Thr
1               5


<210> 6637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*02:03,HLA-B*08:01

<400> 6637
Ile Leu Lys Lys Ala Ser Glu Gly Leu
1               5


<210> 6638
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*56:01

<400> 6638
Ile Pro Gln Glu Pro Gln Arg Ala
1               5


<210> 6639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 6639
Ile Pro Gln Glu Pro Gln Arg Ala Pro
1               5


<210> 6640
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*54:01,HLA-B*56:01,HLA-C*16:02

<400> 6640
Ile Pro Gln Glu Pro Gln Arg Ala Pro Thr
1               5                   10


<210> 6641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,
      HLA-A*68:01,HLA-B*40:02,HLA-B*46:01,HLA-B*57:01,HLA-C*06:02,

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<223> HLA-C*07:06,HLA-C*16:02

<400> 6641
Ile Thr Lys Asp Leu Val Gln Glu Lys
1               5


<210> 6642
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 6642
Ile Thr Lys Asp Leu Val Gln Glu Lys Tyr
1               5                   10


<210> 6643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*07:02

<400> 6643
Lys Ala Arg Asp Glu Thr Arg Gly Leu
1               5

<210> 6644
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*03:04

<400> 6644
Lys Ala Ser Glu Gly Leu Ser Val
1 5

<210> 6645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*32:01,HLA-B*46:01,HLA-B*55:01,
HLA-C*02:02,HLA-C*12:03,HLA-C*16:02

<400> 6645
Lys Ala Ser Glu Gly Leu Ser Val Val
1 5

<210> 6646
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*23:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*55:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:04

<400> 6646
Lys Ala Ser Glu Gly Leu Ser Val Val Phe
1 5 10

<210> 6647
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*37:01

<400> 6647
Lys Asp Glu Glu Lys Ala Gly Val
1               5


<210> 6648
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*37:01

<400> 6648
Lys Asp Leu Val Gln Glu Lys Tyr
1               5


<210> 6649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*15:03

<400> 6649
Lys Lys Ala Ser Glu Gly Leu Ser Val
1               5


<210> 6650
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*15:03

<400> 6650
Lys Lys Ala Ser Glu Gly Leu Ser Val Val Phe
1               5                   10


<210> 6651
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;

HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 6651
Lys Leu Ile Thr Lys Asp Leu Val Gln Glu Lys
1 5 10

<210> 6652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 6652
Lys Leu Leu Met Pro Leu Leu Gly Val
1 5

<210> 6653
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01

<400> 6653
Lys Met Lys Val Leu Glu Phe Leu Ala Lys
1 5 10

<210> 6654
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:01,HLA-B*38:01,
HLA-B*57:01,HLA-B*58:01

<400> 6654
Lys Gln Val Pro Ser Ser Asp Pro Pro Arg Phe
1 5 10

<210> 6655
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*32:01,HLA-B*58:01

<400> 6655
Lys Ser Gly Ser Leu Val Gln Phe
1 5

<210> 6656
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*29:02,HLA-B*57:01

<400> 6656
Lys Ser Gly Ser Leu Val Gln Phe Leu Leu Tyr
1 5 10

<210> 6657
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*68:01,HLA-B*27:05,HLA-B*57:01

<400> 6657
Lys Ser Pro Ser Glu Asp Pro Leu Thr Arg
1 5 10

<210> 6658
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6658
Lys Ser Pro Ser Glu Asp Pro Leu Thr Arg Lys
1 5 10

<210> 6659
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*16:01

<400> 6659
Lys Ser Val Thr Lys Gly Glu Met
1 5

<210> 6660
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*40:02,HLA-B*58:01

<400> 6660
Lys Ser Val Thr Lys Gly Glu Met Leu
1 5

<210> 6661
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*11:01

<400> 6661
Lys Val Leu Glu Phe Leu Ala Lys
1 5

<210> 6662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*31:01,
HLA-A*68:02,HLA-B*13:02,HLA-B*40:02,HLA-B*55:01,HLA-C*02:02

<400> 6662
Lys Val Leu Glu Phe Leu Ala Lys Val
1 5

<210> 6663
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:02,HLA-A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 6663
Lys Val Asn Gly Thr Thr Pro Cys Ala Phe
1 5 10

<210> 6664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*35:01,HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,

<220>
<223> HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*07:04,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 6664
Lys Val Asn Pro Asn Gly His Thr Tyr
1 5

<210> 6665
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*32:01

<400> 6665
Lys Val Asn Pro Asn Gly His Thr Tyr Thr
1 5 10

<210> 6666
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:02,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01

<400> 6666
Lys Val Asn Pro Asn Gly His Thr Tyr Thr Phe
1 5 10

<210> 6667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*32:01,HLA-B*46:01

<400> 6667
Leu Ala Lys Val Asn Gly Thr Thr Pro
1 5

<210> 6668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*49:01

<400> 6668
Leu Glu Tyr Lys Gln Val Pro Ser Ser
1 5

<210> 6669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 6669
Leu Leu Met Pro Leu Leu Gly Val Ile
1 5

<210> 6670

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 6670
Leu Leu Met Pro Leu Leu Gly Val Ile Phe Leu
1 5 10

<210> 6671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01

<400> 6671
Leu Leu Tyr Lys Tyr Lys Ile Lys Lys
1 5

<210> 6672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*24:02

<400> 6672
Leu Met Pro Leu Leu Gly Val Ile Phe
1 5

<210> 6673
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:07

<400> 6673
Leu Met Pro Leu Leu Gly Val Ile Phe Leu
1 5 10

<210> 6674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*54:01

<400> 6674
Leu Asn Val Pro Gln Val Thr Glu Ala
1 5

<210> 6675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04

<400> 6675
Leu Ser Val Val Phe Gly Leu Glu Leu
1 5

<210> 6676
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*04:01,HLA-C*05:01

<400> 6676
Leu Thr Asp Glu Glu Ser Leu Leu
1 5

<210> 6677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01

<400> 6677
Leu Thr Asp Glu Glu Ser Leu Leu Ser

1 5

<210> 6678
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01

<400> 6678
Leu Thr Asp Glu Glu Ser Leu Leu Ser Ser Trp
1 5 10

<210> 6679
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*57:01

<400> 6679
Leu Thr Arg Lys Ser Gly Ser Leu Val Gln Phe
1 5 10

<210> 6680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-A*33:01,HLA-B*15:01,HLA-B*18:01,HLA-B*35:01,HLA-B*46:01,

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<223> HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,
HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02

<400> 6680
Leu Val Gln Glu Lys Tyr Leu Glu Tyr
1 5

<210> 6681
<211> 10
<212> PRT

<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6681
Leu Val Gln Glu Lys Tyr Leu Glu Tyr Lys
1 5 10

<210> 6682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*29:02,HLA-A*30:02

<400> 6682
Leu Val Gln Phe Leu Leu Tyr Lys Tyr
1 5

<210> 6683
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*35:01,HLA-B*35:03

<400> 6683
Met Pro Leu Leu Gly Val Ile Phe
1 5

<210> 6684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01

<400> 6684
Met Pro Leu Leu Gly Val Ile Phe Leu
1 5

<210> 6685

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*54:01

<400> 6685
Met Pro Leu Leu Gly Val Ile Phe Leu Asn Gly
1 5 10

<210> 6686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*07:02,HLA-C*07:02

<400> 6686
Met Pro Arg Gly Gln Lys Ser Lys Leu
1 5

<210> 6687
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*15:03

<400> 6687
Asn Lys Val Asn Pro Asn Gly His Thr Tyr
1 5 10

<210> 6688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*32:01,HLA-A*33:01,
HLA-A*33:03,HLA-B*07:02,HLA-B*08:01,HLA-B*18:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*38:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,

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<223> HLA-C*07:02

<400> 6688
Asn Pro Asn Gly His Thr Tyr Thr Phe
1               5


<210> 6689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*58:01

<400> 6689
Asn Ser Ala Thr Glu Glu Glu Ile Trp
1               5


<210> 6690
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*68:01,HLA-B*27:02

<400> 6690
Pro Ala Ala Gly Ile Pro Gln Glu Pro Gln Arg
1               5                   10


<210> 6691
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*01:01,HLA-A*03:02,HLA-A*11:01

<400> 6691
Pro Ser Glu Asp Pro Leu Thr Arg Lys
1               5


<210> 6692
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*24:02

<400> 6692
Pro Ser Ser Asp Pro Pro Arg Phe Gln Phe
1 5 10

<210> 6693
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*16:02

<400> 6693
Gln Ala Ser Thr Ser Thr Lys Ser Pro
1 5

<210> 6694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*29:02

<400> 6694
Gln Phe Leu Trp Gly Pro Arg Ala Tyr
1 5

<210> 6695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*39:01

<400> 6695
Gln Arg Ala Pro Thr Thr Ala Ala Ala
1 5

<210> 6696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*11:01,HLA-A*68:01

<400> 6696
Gln Val Pro Ser Ser Asp Pro Pro Arg
1 5

<210> 6697
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*25:01,HLA-A*26:01

<400> 6697
Gln Val Pro Ser Ser Asp Pro Pro Arg Phe
1 5 10

<210> 6698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*01:02

<400> 6698
Arg Ala Pro Thr Thr Ala Ala Ala Ala
1 5

<210> 6699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*05:01,HLA-C*12:03

<400> 6699
Arg Ala Tyr Ala Glu Thr Ser Lys Met
1 5

<210> 6700
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01

<400> 6700
Arg Ala Tyr Ala Glu Thr Ser Lys Met Lys
1 5 10

<210> 6701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*37:01

<400> 6701
Arg Asp Glu Thr Arg Gly Leu Asn Val
1 5

<210> 6702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*15:03

<400> 6702
Arg Lys Ser Gly Ser Leu Val Gln Phe
1 5

<210> 6703
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*37:01

<400> 6703
Ser Asp Pro Pro Arg Phe Gln Phe
1 5

<210> 6704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*37:01

<400> 6704
Ser Asp Pro Pro Arg Phe Gln Phe Leu
1 5

<210> 6705
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*07:04

<400> 6705
Ser Glu Gly Leu Ser Val Val Phe
1 5

<210> 6706
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 6706
Ser Glu Gly Leu Ser Val Val Phe Gly Leu
1 5 10

<210> 6707
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*15:03

<400> 6707
Ser Lys Met Lys Val Leu Glu Phe
1               5


<210> 6708
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*02:04

<400> 6708
Ser Leu Leu Ser Ser Trp Asp Phe Pro Arg
1               5                   10


<210> 6709
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*29:02

<400> 6709
Ser Leu Val Gln Phe Leu Leu Tyr
1               5


<210> 6710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*03:01

<400> 6710
Ser Leu Val Gln Phe Leu Leu Tyr Lys
1               5


<210> 6711
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;

HLA -A*29:02

<400> 6711
Ser Leu Val Gln Phe Leu Leu Tyr Lys Tyr
1 5 10

<210> 6712
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*56:01

<400> 6712
Ser Pro Ala Ala Gly Ile Pro Gln Glu Pro
1 5 10

<210> 6713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*33:03,HLA-A*68:01,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*56:01,HLA-C*07:06

<400> 6713
Ser Pro Ser Glu Asp Pro Leu Thr Arg
1 5

<210> 6714
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*56:01,HLA-C*07:06

<400> 6714
Ser Pro Ser Glu Asp Pro Leu Thr Arg Lys
1 5 10

<210> 6715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01,HLA-A*02:07,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*05:01,HLA-C*16:01

<400> 6715
Ser Ser Asp Pro Pro Arg Phe Gln Phe
1 5

<210> 6716
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*57:01

<400> 6716
Ser Ser Asp Pro Pro Arg Phe Gln Phe Leu Trp
1 5 10

<210> 6717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:02,HLA-A*11:01

<400> 6717
Ser Ser Gln Ala Ser Thr Ser Thr Lys
1 5

<210> 6718
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6718
Ser Ser Ser Gln Ala Ser Thr Ser Thr Lys
1 5 10

<210> 6719

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*31:01

<400> 6719
Ser Ser Trp Asp Phe Pro Arg Arg
1 5

<210> 6720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*13:02

<400> 6720
Ser Val Phe Gly Glu Pro Trp Lys Leu
1 5

<210> 6721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6721
Ser Val Thr Lys Gly Glu Met Leu Lys
1 5

<210> 6722
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -C*03:04

<400> 6722
Ser Val Val Phe Gly Leu Glu Leu
1 5

<210> 6723
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 6723
Ser Val Val Phe Gly Leu Glu Leu Asn Lys
1 5 10

<210> 6724
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*68:02

<400> 6724
Ser Val Val Phe Gly Leu Glu Leu Asn Lys Val
1 5 10

<210> 6725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:03,HLA-B*13:02,HLA-B*51:01

<400> 6725
Thr Ala Ala Ala Ala Ala Ala Gly Val
1 5

<210> 6726
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*44:02

<400> 6726

Thr Asp Glu Glu Ser Leu Leu Ser Ser Trp
1               5                   10


<210> 6727
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*18:01

<400> 6727
Thr Glu Glu Glu Ile Trp Glu Phe
1               5


<210> 6728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -A*68:02

<400> 6728
Thr Glu Glu Glu Ile Trp Glu Phe Leu
1               5


<210> 6729
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*08:01,HLA-C*14:02

<400> 6729
Thr Phe Ile Asp Lys Val Asp Leu
1               5


<210> 6730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*15:03

<400> 6730
Thr Lys Asp Leu Val Gln Glu Lys Tyr
1               5


<210> 6731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 6731
Thr Lys Ser Pro Ser Glu Asp Pro Leu
1               5


<210> 6732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -B*35:01

<400> 6732
Thr Pro Cys Ala Phe Pro Thr His Tyr
1               5


<210> 6733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
      HLA -C*06:02

<400> 6733
Thr Arg Gly Leu Asn Val Pro Gln Val
1               5


<210> 6734
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*08:01,HLA-B*57:01

<400> 6734
Thr Ser Lys Met Lys Val Leu Glu Phe
1 5

<210> 6735
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*26:01

<400> 6735
Thr Thr Pro Cys Ala Phe Pro Thr His Tyr
1 5 10

<210> 6736
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*23:01,HLA-A*24:02

<400> 6736
Val Phe Gly Glu Pro Trp Lys Leu
1 5

<210> 6737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*24:02

<400> 6737
Val Phe Gly Glu Pro Trp Lys Leu Ile
1 5

<210> 6738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*46:01,HLA-B*54:01,HLA-B*56:01

<400> 6738
Val Ile Phe Leu Asn Gly Asn Ser Ala
1 5

<210> 6739
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*39:01,HLA-B*46:01,HLA-C*01:02,HLA-C*07:01,HLA-C*14:02,
HLA-C*16:01,HLA-C*16:02

<400> 6739
Val Asn Pro Asn Gly His Thr Tyr
1 5

<210> 6740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*33:01

<400> 6740
Val Asn Pro Asn Gly His Thr Tyr Thr Phe
1 5 10

<210> 6741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*23:01,HLA-A*24:02,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*51:01,HLA-B*55:01,HLA-C*07:02

<400> 6741
Val Pro Ser Ser Asp Pro Pro Arg Phe
1 5

<210> 6742
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*35:01

<400> 6742
Val Pro Ser Ser Asp Pro Pro Arg Phe Gln Phe
1 5 10

<210> 6743
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-C*07:01

<400> 6743
Val Gln Glu Lys Tyr Leu Glu Tyr
1 5

<210> 6744
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*15:01,HLA-B*15:03,HLA-B*18:01

<400> 6744
Val Gln Phe Leu Leu Tyr Lys Tyr
1 5

<210> 6745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:03,HLA-B*13:02,HLA-B*40:02,HLA-C*06:02

<400> 6745
Val Thr Lys Gly Glu Met Leu Lys Ile
1 5

<210> 6746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*29:02,HLA-A*31:01,
HLA-B*27:02,HLA-B*27:05

<400> 6746
Val Val Phe Gly Leu Glu Leu Asn Lys
1 5

<210> 6747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 6747
Val Val Phe Gly Leu Glu Leu Asn Lys Val
1 5 10

<210> 6748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*02:01,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*32:01,
HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*55:01,
HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,HLA-C*14:02

<400> 6748
Val Tyr Asp Gly Glu Glu His Ser Val
1 5

<210> 6749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;

HLA -A*23:01,HLA-A*24:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*55:01,HLA-C*04:01,HLA-C*05:01

<400> 6749
Val Tyr Asp Gly Glu Glu His Ser Val Phe
1 5 10

<210> 6750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*49:01

<400> 6750
Trp Glu Phe Leu Asn Met Leu Gly Val
1 5

<210> 6751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*01:01,HLA-B*51:01,HLA-C*05:01,HLA-C*16:02

<400> 6751
Tyr Ala Glu Thr Ser Lys Met Lys Val
1 5

<210> 6752
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*40:02,HLA-C*07:04,HLA-C*12:03

<400> 6752
Tyr Asp Gly Glu Glu His Ser Val
1 5

<210> 6753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -B*18:01,HLA-B*37:01,HLA-B*38:01

<400> 6753
Tyr Asp Gly Glu Glu His Ser Val Phe
1 5

<210> 6754
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB2; ENSG00000099399;
HLA -A*68:02

<400> 6754
Tyr Thr Phe Ile Asp Lys Val Asp Leu
1 5

<210> 6755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*07:02,HLA-B*46:01,HLA-C*07:02

<400> 6755
Ala Ala Arg Arg Gly Thr Thr Ala Met
1 5

<210> 6756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*37:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 6756
Ala Glu Met Leu Lys Ile Ile Ser Lys
1 5

<210> 6757
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*44:02,HLA-B*44:03

<400> 6757
Ala Glu Met Leu Lys Ile Ile Ser Lys Lys Tyr
1 5 10

<210> 6758
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*49:01

<400> 6758
Ala Glu Thr Ser Lys Met Lys Val
1 5

<210> 6759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 6759
Ala Glu Thr Ser Lys Met Lys Val Leu
1 5

<210> 6760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*54:01,HLA-B*56:01,HLA-C*16:01

<400> 6760
Ala Gly Ala Arg Pro Arg Val Ala Ala
1 5

<210> 6761
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*15:03

<400> 6761
Ala Lys Val Asn Asp Thr Thr Pro Asn Asn Phe
1 5 10

<210> 6762
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:03,HLA-A*32:01,HLA-B*55:01

<400> 6762
Ala Leu Lys Glu Val Asn Pro Thr Thr
1 5

<210> 6763
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:03,HLA-A*03:01,HLA-B*46:01

<400> 6763
Ala Leu Lys Glu Val Asn Pro Thr Thr His
1 5 10

<210> 6764
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -C*06:02

<400> 6764
Ala Arg Arg Gly Thr Thr Ala Met Thr Ser

1 5 10

<210> 6765
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*13:02

<400> 6765
Ala Ser Ser Ser Leu Ala Phe Gly Ile
1 5

<210> 6766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*32:01,HLA-B*58:01,HLA-C*03:04,HLA-C*16:01,HLA-C*16:02

<400> 6766
Ala Ser Thr Ser Thr Glu Arg Ser Leu
1 5

<210> 6767
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*30:02,HLA-A*31:01,
HLA-A*68:01,HLA-B*07:02,HLA-B*27:05,HLA-B*39:01,HLA-B*40:02,
HLA-C*01:02,HLA-C*03:03,HLA-C*04:01,HLA-C*06:02,HLA-C*07:01,

<220>
<223> HLA-C*07:04,HLA-C*14:02

<400> 6767
Ala Thr Ser Ser Ser Ser Ser Gln Pro Met
1 5 10

<210> 6768
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*33:01

<400> 6768
Asp Glu Glu Glu Arg Ala Gly Ala Arg Pro Arg
1 5 10

<210> 6769
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 6769
Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr
1 5 10

<210> 6770
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*08:01

<400> 6770
Asp Ser Leu Thr Arg Lys Thr Lys Met
1 5

<210> 6771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,
HLA-B*18:01

<400> 6771
Asp Thr Ala Ser Ser Ser Leu Ala Phe
1 5

<210> 6772

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*68:01

<400> 6772
Asp Thr Ala Ser Ser Ser Leu Ala Phe Gly Ile
1 5 10

<210> 6773
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*25:01

<400> 6773
Asp Thr Thr Pro Asn Asn Phe Pro Leu Leu
1 5 10

<210> 6774
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02

<400> 6774
Asp Thr Thr Pro Asn Asn Phe Pro Leu Leu Tyr
1 5 10

<210> 6775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*33:01,HLA-A*33:03

<400> 6775
Glu Ala Leu Arg Asp Glu Glu Glu Arg
1 5

<210> 6776
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*49:01

<400> 6776
Glu Glu Ser Pro Ser Ser Ser Ser Ser Val
1 5 10

<210> 6777
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*30:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:03

<400> 6777
Glu Glu Ser Pro Ser Ser Ser Ser Ser Val Leu
1 5 10

<210> 6778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*29:02

<400> 6778
Glu Phe Leu Asn Met Leu Gly Ile Tyr
1 5

<210> 6779
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*68:02

<400> 6779

Glu His Phe Pro Glu Ile Phe Arg Lys Val
1               5                   10


<210> 6780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 6780
Glu Ile Phe Arg Lys Val Ser Gln Arg
1               5


<210> 6781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*02:07,HLA-A*68:02

<400> 6781
Glu Ile Trp Glu Phe Leu Asn Met Leu
1               5


<210> 6782
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*33:01,HLA-A*33:03

<400> 6782
Glu Met Leu Lys Ile Ile Ser Lys
1               5


<210> 6783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*33:01,HLA-A*33:03

<400> 6783
Glu Met Leu Lys Ile Ile Ser Lys Lys
1               5


<210> 6784
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*35:01,HLA-B*35:03

<400> 6784
Glu Pro Pro Thr Thr Ser Ala Ala Ala Ala Met
1               5                   10


<210> 6785
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*07:02,HLA-B*08:01,HLA-B*35:03

<400> 6785
Glu Pro Thr Thr Lys Ala Glu Met
1               5


<210> 6786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*08:01,HLA-B*35:03

<400> 6786
Glu Pro Thr Thr Lys Ala Glu Met Leu
1               5


<210> 6787
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 6787
Glu Ser Pro Ser Ser Ser Ser Ser Val Leu Arg
1 5 10

<210> 6788
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*25:01,HLA-A*26:01

<400> 6788
Glu Thr Ser Lys Met Lys Val Leu Glu Phe
1 5 10

<210> 6789
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,

<220>
<223> HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:04,HLA-C*07:06,
HLA-C*16:04

<400> 6789
Glu Val Asn Pro Thr Thr His Ser Tyr
1 5

<210> 6790
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:02

<400> 6790
Glu Val Asn Pro Thr Thr His Ser Tyr Ile
1 5 10

<210> 6791
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*33:01

<400> 6791
Glu Val Asn Pro Thr Thr His Ser Tyr Ile Leu
1 5 10

<210> 6792
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*51:01

<400> 6792
Phe Gly Leu Ala Leu Lys Glu Val
1 5

<210> 6793
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*51:01,HLA-B*54:01

<400> 6793
Phe Pro Glu Ile Phe Arg Lys Val
1 5

<210> 6794
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*54:01,HLA-B*56:01

<400> 6794

Phe Pro Leu Leu Tyr Glu Glu Ala
1               5


<210> 6795
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01

<400> 6795
Phe Pro Leu Leu Tyr Glu Glu Ala Leu
1               5


<210> 6796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*03:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 6796
Gly Ala Arg Pro Arg Val Ala Ala Arg
1               5


<210> 6797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 6797
Gly Leu Leu Met Pro Leu Leu Ser Val
1               5


<210> 6798
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*56:01

<400> 6798
Gly Pro Asn Asp Gly Asn Gln Ser Ser Ala
1               5                   10


<210> 6799
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*25:01,HLA-B*07:02,HLA-B*27:02

<400> 6799
Gly Pro Asn Asp Gly Asn Gln Ser Ser Ala Trp
1               5                   10


<210> 6800
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*07:02

<400> 6800
Gly Pro Arg Ala His Ala Glu Thr Ser Lys Met
1               5                   10


<210> 6801
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*13:02

<400> 6801
Gly Gln Thr Gln Asp Leu Lys Val
1               5


<210> 6802
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*39:01,

<220>
<223> HLA-B*44:03,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:01,
HLA-C*07:04,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,
HLA-C*16:04

<400> 6802
Gly Thr Thr Ala Met Thr Ser Ala Tyr
1 5

<210> 6803
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 6803
Gly Thr Thr Ala Met Thr Ser Ala Tyr Ser Arg
1 5 10

<210> 6804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:07

<400> 6804
His Phe Pro Glu Ile Phe Arg Lys Val
1 5

<210> 6805
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*08:01,HLA-B*51:01

<400> 6805

His Ser Tyr Ile Leu Val Ser Met
1               5


<210> 6806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*56:01

<400> 6806
Ile Pro Gln Glu Pro Gln Arg Glu Pro
1               5


<210> 6807
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*54:01,HLA-B*56:01

<400> 6807
Ile Pro Gln Glu Pro Gln Arg Glu Pro Pro
1               5                   10


<210> 6808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,
      HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-C*07:06

<400> 6808
Ile Thr Gln Asp Leu Val Gln Glu Lys
1               5


<210> 6809
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;

HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:02

<400> 6809
Ile Thr Gln Asp Leu Val Gln Glu Lys Tyr
1 5 10

<210> 6810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*24:02

<400> 6810
Ile Tyr Asp Gly Lys Arg His Leu Ile
1 5

<210> 6811
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*24:02

<400> 6811
Ile Tyr Asp Gly Lys Arg His Leu Ile Phe
1 5 10

<210> 6812
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*40:01,HLA-B*49:01

<400> 6812
Lys Glu Glu Ser Pro Ser Ser Ser Ser Ser Val
1 5 10

<210> 6813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*37:01,HLA-B*40:01

<400> 6813
Lys Glu Pro Thr Thr Lys Ala Glu Met
1 5

<210> 6814
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 6814
Lys Glu Pro Thr Thr Lys Ala Glu Met Leu
1 5 10

<210> 6815
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*25:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-C*16:01,HLA-C*16:04

<400> 6815
Lys Glu Val Asn Pro Thr Thr His Ser Tyr
1 5 10

<210> 6816
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*49:01

<400> 6816
Lys Glu Val Asn Pro Thr Thr His Ser Tyr Ile
1 5 10

<210> 6817
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6817
Lys Leu Ile Thr Gln Asp Leu Val Gln Glu Lys
1 5 10

<210> 6818
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01

<400> 6818
Lys Met Lys Glu Pro Thr Thr Lys
1 5

<210> 6819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:03,HLA-A*32:01,HLA-B*55:01

<400> 6819
Lys Met Lys Glu Pro Thr Thr Lys Ala
1 5

<210> 6820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01,HLA-A*24:02,HLA-A*29:02,HLA-B*57:01

<400> 6820
Lys Met Leu Val Gln Phe Leu Leu Tyr
1 5

<210> 6821
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01

<400> 6821
Lys Met Leu Val Gln Phe Leu Leu Tyr Lys
1 5 10

<210> 6822
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6822
Lys Val Gly Gln Pro Thr Ala Ala Glu Lys
1 5 10

<210> 6823
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01

<400> 6823
Lys Val Leu Glu Phe Leu Ala Lys
1 5

<210> 6824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 6824

Lys Val Leu Glu Phe Leu Ala Lys Val
1               5


<210> 6825
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*03:02,HLA-A*30:02,HLA-A*32:01,HLA-B*58:01

<400> 6825
Lys Val Asn Asp Thr Thr Pro Asn Asn Phe
1               5                   10


<210> 6826
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -C*16:01

<400> 6826
Lys Val Ser Gln Arg Thr Glu Leu
1               5


<210> 6827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*24:02

<400> 6827
Lys Tyr Lys Glu His Phe Pro Glu Ile
1               5


<210> 6828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*32:01,HLA-B*54:01

<400> 6828
Leu Ala Phe Gly Ile Pro Gln Glu Pro
1               5


<210> 6829
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*68:01

<400> 6829
Leu Ala Phe Gly Ile Pro Gln Glu Pro Gln Arg
1               5                   10


<210> 6830
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 6830
Leu Leu Met Pro Leu Leu Ser Val Ile
1               5


<210> 6831
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*02:04

<400> 6831
Leu Leu Met Pro Leu Leu Ser Val Ile Phe Leu
1               5                   10


<210> 6832
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*24:02

<400> 6832
Leu Met Pro Leu Leu Ser Val Ile Phe
1 5

<210> 6833
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*27:02

<400> 6833
Leu Asn Met Leu Gly Ile Tyr Asp Gly Lys
1 5 10

<210> 6834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*54:01,HLA-B*56:01

<400> 6834
Leu Pro Arg Asn Gly Leu Leu Met Pro
1 5

<210> 6835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*39:01

<400> 6835
Leu Arg Asp Thr Ala Ser Ser Ser Leu
1 5

<210> 6836
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:03

<400> 6836
Leu Val Phe Gly Leu Ala Leu Lys Glu Val
1 5 10

<210> 6837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*35:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:04,HLA-C*14:02,

<220>
<223> HLA-C*16:01,HLA-C*16:02

<400> 6837
Leu Val Gln Glu Lys Tyr Leu Glu Tyr
1 5

<210> 6838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*29:02,HLA-A*30:02

<400> 6838
Leu Val Gln Phe Leu Leu Tyr Lys Tyr
1 5

<210> 6839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*29:02

<400> 6839
Met Leu Lys Ile Ile Ser Lys Lys Tyr

1 5

<210> 6840
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*29:02

<400> 6840
Met Leu Val Gln Phe Leu Leu Tyr
1 5

<210> 6841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01

<400> 6841
Met Leu Val Gln Phe Leu Leu Tyr Lys
1 5

<210> 6842
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*29:02

<400> 6842
Met Leu Val Gln Phe Leu Leu Tyr Lys Tyr
1 5 10

<210> 6843
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*35:01,HLA-B*35:03

<400> 6843
Met Pro Leu Leu Ser Val Ile Phe
1               5


<210> 6844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01

<400> 6844
Met Pro Leu Leu Ser Val Ile Phe Leu
1               5


<210> 6845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*07:02,HLA-C*07:02

<400> 6845
Met Pro Arg Gly Gln Lys Ser Lys Leu
1               5


<210> 6846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -C*16:01

<400> 6846
Met Thr Ser Ala Tyr Ser Arg Ala Thr
1               5


<210> 6847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;

HLA -B*44:02

<400> 6847
Asn Asp Gly Asn Gln Ser Ser Ala Trp
1 5

<210> 6848
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*37:01

<400> 6848
Asn Asp Thr Thr Pro Asn Asn Phe
1 5

<210> 6849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*33:01

<400> 6849
Asn Met Leu Gly Ile Tyr Asp Gly Lys Arg
1 5 10

<210> 6850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*35:01,HLA-B*35:03

<400> 6850
Asn Pro Thr Thr His Ser Tyr Ile Leu
1 5

<210> 6851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*32:01,HLA-B*35:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*05:01,HLA-C*16:01

<400> 6851
Asn Ser Asp Pro Pro Arg Tyr Gln Phe
1 5

<210> 6852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*68:01

<400> 6852
Pro Ser Ser Ser Ser Ser Val Leu Arg
1 5

<210> 6853
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*07:02,HLA-C*03:04,HLA-C*16:02

<400> 6853
Gln Ala Ser Thr Ser Thr Glu Arg Ser Leu
1 5 10

<210> 6854
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*18:01,HLA-C*07:01

<400> 6854
Gln Asp Leu Val Gln Glu Lys Tyr
1 5

<210> 6855
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01

<400> 6855
Gln Gln Val Pro Asn Ser Asp Pro Pro Arg Tyr
1 5 10

<210> 6856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*27:05

<400> 6856
Gln Arg Thr Glu Leu Val Phe Gly Leu
1 5

<210> 6857
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*31:01

<400> 6857
Gln Ser Ser Ala Trp Thr Leu Pro Arg
1 5

<210> 6858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*68:01

<400> 6858
Gln Val Pro Asn Ser Asp Pro Pro Arg
1 5

<210> 6859
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 6859
Gln Val Pro Asn Ser Asp Pro Pro Arg Tyr
1 5 10

<210> 6860
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*37:01

<400> 6860
Arg Asp Thr Ala Ser Ser Ser Leu
1 5

<210> 6861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 6861
Arg Glu Pro Pro Thr Thr Ser Ala Ala
1 5

<210> 6862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*30:01,HLA-B*40:01

<400> 6862
Arg Glu Pro Pro Thr Thr Ser Ala Ala Ala
1 5 10

<210> 6863
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*58:01

<400> 6863
Arg Gly Thr Thr Ala Met Thr Ser Ala Tyr
1 5 10

<210> 6864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*31:01

<400> 6864
Arg His Leu Ile Phe Gly Glu Pro Arg
1 5

<210> 6865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*57:01

<400> 6865
Arg Ser Leu Lys Asp Ser Leu Thr Arg
1 5

<210> 6866
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01

<400> 6866

Arg Ser Leu Lys Asp Ser Leu Thr Arg Lys
1 5 10

<210> 6867
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:01,HLA-A*03:02

<400> 6867
Arg Thr Arg Gly Gln Thr Gln Asp Leu Lys
1 5 10

<210> 6868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*08:01,HLA-B*46:01,HLA-C*16:01

<400> 6868
Ser Ala Tyr Ser Arg Ala Thr Ser Ser
1 5

<210> 6869
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*37:01

<400> 6869
Ser Asp Pro Pro Arg Tyr Gln Phe
1 5

<210> 6870
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*37:01

<400> 6870
Ser Asp Pro Pro Arg Tyr Gln Phe Leu
1               5


<210> 6871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*03:01

<400> 6871
Ser Leu Lys Asp Ser Leu Thr Arg Lys
1               5


<210> 6872
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*07:02

<400> 6872
Ser Pro Ser Ser Ser Ser Ser Val
1               5


<210> 6873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*55:01,
      HLA-B*56:01,HLA-C*07:02

<400> 6873
Ser Pro Ser Ser Ser Ser Ser Val Leu
1               5


<210> 6874
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*68:01,HLA-C*07:06

<400> 6874
Ser Pro Ser Ser Ser Ser Ser Val Leu Arg
1 5 10

<210> 6875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*27:05,HLA-C*07:06

<400> 6875
Ser Gln Ala Ser Thr Ser Thr Glu Arg
1 5

<210> 6876
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*38:01

<400> 6876
Ser Gln Ala Ser Thr Ser Thr Glu Arg Ser Leu
1 5 10

<210> 6877
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*15:01,HLA-B*15:03

<400> 6877
Ser Gln Arg Thr Glu Leu Val Phe
1 5

<210> 6878
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*68:01,HLA-C*07:06

<400> 6878
Ser Ser Gln Ala Ser Thr Ser Thr Glu Arg
1 5 10

<210> 6879
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*13:02

<400> 6879
Ser Ser Ser Leu Ala Phe Gly Ile
1 5

<210> 6880
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*68:01,HLA-C*07:06

<400> 6880
Ser Ser Ser Gln Ala Ser Thr Ser Thr Glu Arg
1 5 10

<210> 6881
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -C*16:01

<400> 6881
Ser Thr Ser Thr Glu Arg Ser Leu
1 5

<210> 6882

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*11:01

<400> 6882
Ser Thr Ser Thr Glu Arg Ser Leu Lys
1 5

<210> 6883
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*31:01

<400> 6883
Ser Val Ile Phe Leu Asn Gly Asn Cys Ala Arg
1 5 10

<210> 6884
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*25:01,HLA-B*07:02,HLA-C*01:02

<400> 6884
Ser Val Leu Arg Asp Thr Ala Ser Ser Ser Leu
1 5 10

<210> 6885
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 6885
Ser Tyr Ile Leu Val Ser Met Leu
1 5

<210> 6886
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*35:01,HLA-B*57:01,HLA-C*07:06

<400> 6886
Thr Ala Met Thr Ser Ala Tyr Ser Arg
1 5

<210> 6887
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*54:01

<400> 6887
Thr Ala Met Thr Ser Ala Tyr Ser Arg Ala
1 5 10

<210> 6888
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*35:01,HLA-B*35:03,HLA-B*37:01

<400> 6888
Thr Ala Ser Ser Ser Leu Ala Phe
1 5

<210> 6889
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*18:01,HLA-B*49:01

<400> 6889

Thr Glu Leu Val Phe Gly Leu Ala
1               5


<210> 6890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
      HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 6890
Thr Glu Leu Val Phe Gly Leu Ala Leu
1               5


<210> 6891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02

<400> 6891
Thr Glu Arg Ser Leu Lys Asp Ser Leu
1               5


<210> 6892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -B*38:01,HLA-B*39:01

<400> 6892
Thr His Ser Tyr Ile Leu Val Ser Met
1               5


<210> 6893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;

HLA -B*51:01

<400> 6893
Thr Pro Asn Asn Phe Pro Leu Leu
1 5

<210> 6894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*18:01,
HLA-B*35:01,HLA-B*55:01,HLA-C*02:02

<400> 6894
Thr Pro Asn Asn Phe Pro Leu Leu Tyr
1 5

<210> 6895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*38:01,HLA-B*39:01

<400> 6895
Thr Gln Asp Leu Val Gln Glu Lys Tyr
1 5

<210> 6896
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*38:01

<400> 6896
Thr Gln Asp Leu Val Gln Glu Lys Tyr Leu
1 5 10

<210> 6897
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*27:05

<400> 6897
Thr Arg Gly Gln Thr Gln Asp Leu Lys
1 5

<210> 6898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*08:01

<400> 6898
Thr Ser Lys Met Lys Val Leu Glu Phe
1 5

<210> 6899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*33:03,HLA-A*68:01,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*39:01,HLA-B*55:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*04:01,HLA-C*06:02,HLA-C*07:01,HLA-C*07:04,HLA-C*07:06,

<220>
<223> HLA-C*14:02,HLA-C*16:01,HLA-C*16:02

<400> 6899
Thr Ser Ser Ser Ser Ser Gln Pro Met
1 5

<210> 6900
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*46:01,HLA-C*12:03

<400> 6900
Thr Thr Ala Met Thr Ser Ala Tyr
1               5


<210> 6901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,
      HLA-B*27:02,HLA-C*07:06

<400> 6901
Thr Thr Ala Met Thr Ser Ala Tyr Ser Arg
1               5                   10


<210> 6902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*02:07,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 6902
Thr Thr Pro Asn Asn Phe Pro Leu Leu
1               5


<210> 6903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 6903
Thr Thr Pro Asn Asn Phe Pro Leu Leu Tyr
1               5                   10


<210> 6904
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*03:02,HLA-A*11:01

<400> 6904
Val Gly Gln Pro Thr Ala Ala Glu Lys
1 5

<210> 6905
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:03,HLA-A*03:01,HLA-B*07:02,HLA-B*46:01,HLA-C*01:02,
HLA-C*07:02,HLA-C*14:02

<400> 6905
Val Leu Arg Asp Thr Ala Ser Ser Ser Leu
1 5 10

<210> 6906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -C*05:01

<400> 6906
Val Asn Asp Thr Thr Pro Asn Asn Phe
1 5

<210> 6907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*29:02,HLA-A*30:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 6907
Val Pro Asn Ser Asp Pro Pro Arg Tyr
1 5

<210> 6908
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*23:01,HLA-B*07:02,HLA-B*35:01,HLA-B*55:01

<400> 6908
Val Pro Asn Ser Asp Pro Pro Arg Tyr Gln Phe
1 5 10

<210> 6909
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*01:01,HLA-B*15:01,HLA-B*15:03

<400> 6909
Val Gln Glu Lys Tyr Leu Glu Tyr
1 5

<210> 6910
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*15:01,HLA-B*15:03

<400> 6910
Val Gln Phe Leu Leu Tyr Lys Tyr
1 5

<210> 6911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*23:01,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01

<400> 6911
Val Ser Gln Arg Thr Glu Leu Val Phe
1 5

<210> 6912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -B*49:01

<400> 6912
Trp Glu Phe Leu Asn Met Leu Gly Ile
1 5

<210> 6913
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB4; ENSG00000120289;
HLA -A*02:04

<400> 6913
Tyr Gln Phe Leu Trp Gly Pro Arg Ala
1 5

<210> 6914
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:02

<400> 6914
Ala Asp Ser Ser Asn Thr Ser Pro Gly Leu Tyr
1 5 10

<210> 6915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-C*16:01,HLA-C*16:02

<400> 6915
Ala Glu Thr Thr Lys Met Arg Val Leu

1 5

<210> 6916
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*15:03

<400> 6916
Ala Gly Val Ser Gly Ser Lys Tyr
1 5

<210> 6917
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*55:01

<400> 6917
Ala Leu Ile Asp Glu Val Glu Arg Ala
1 5

<210> 6918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*25:01,HLA-A*30:01,
HLA-B*15:01,HLA-B*40:01,HLA-B*46:01,HLA-B*55:01,HLA-C*01:02

<400> 6918
Ala Leu Ile Asp Glu Val Glu Arg Ala Leu
1 5 10

<210> 6919
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*31:01

<400> 6919
Ala Leu Ile Asp Glu Val Glu Arg Ala Leu Arg
1               5                   10


<210> 6920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*01:01,HLA-A*03:01

<400> 6920
Ala Leu Pro Lys Ser Gly Leu Leu Met
1               5


<210> 6921
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*02:04,HLA-A*02:07

<400> 6921
Ala Leu Pro Lys Ser Gly Leu Leu Met Ser Leu
1               5                   10


<210> 6922
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*11:01

<400> 6922
Ala Gln Phe Leu Gln Lys Lys Phe Glu Lys
1               5                   10


<210> 6923
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*58:01

<400> 6923
Ala Ser Gln Lys Ala Ile Ile Phe
1 5

<210> 6924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 6924
Ala Ser Gln Lys Ala Ile Ile Phe Lys
1 5

<210> 6925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 6925
Ala Val Lys Lys Lys Ala Cys Thr Leu
1 5

<210> 6926
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*23:01,HLA-A*24:02,HLA-C*01:02,HLA-C*04:01,HLA-C*14:02

<400> 6926
Ala Tyr Ala Glu Thr Thr Lys Met
1 5

<210> 6927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*33:03

<400> 6927
Ala Tyr Ala Glu Thr Thr Lys Met Arg
1 5

<210> 6928
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*24:02

<400> 6928
Ala Tyr Ala Glu Thr Thr Lys Met Arg Val Leu
1 5 10

<210> 6929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6929
Cys Thr Leu Ala Gln Phe Leu Gln Lys
1 5

<210> 6930
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*11:01

<400> 6930
Cys Thr Leu Ala Gln Phe Leu Gln Lys Lys
1 5 10

<210> 6931
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*26:01

<400> 6931
Asp Ala Gly Val Ser Gly Ser Lys Tyr
1 5

<210> 6932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 6932
Asp Ala Leu Ile Asp Glu Val Glu Arg
1 5

<210> 6933
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 6933
Asp Ala Val Lys Lys Lys Ala Cys
1 5

<210> 6934
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 6934
Asp Ala Val Lys Lys Lys Ala Cys Thr Leu
1 5 10

<210> 6935
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*51:01

<400> 6935
Asp Ala Val Val Ser Tyr Ser Lys
1 5

<210> 6936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*18:01

<400> 6936
Asp Glu Lys Ser Pro Ser Thr Ser His
1 5

<210> 6937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*33:01,HLA-A*33:03,HLA-B*18:01

<400> 6937
Asp Glu Lys Ser Pro Ser Thr Ser Arg
1 5

<210> 6938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 6938
Asp Glu Val Glu Arg Ala Leu Arg Leu
1 5

<210> 6939
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01,HLA-B*18:01

<400> 6939
Asp Gly Ile Leu His Ser Ile Tyr
1 5

<210> 6940
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 6940
Asp Leu Val Gln Asp Lys Tyr Val Val
1 5

<210> 6941
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*25:01,HLA-A*26:01

<400> 6941
Asp Leu Val Gln Asp Lys Tyr Val Val Tyr
1 5 10

<210> 6942
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*33:01

<400> 6942

Asp Leu Val Gln Asp Lys Tyr Val Val Tyr Arg
1               5                   10


<210> 6943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*33:01,HLA-B*08:01

<400> 6943
Asp Asn Ala Leu Pro Lys Ser Gly Leu
1               5


<210> 6944
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01

<400> 6944
Asp Ser Ser Gly Glu Ser Tyr Thr Leu
1               5


<210> 6945
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*01:01,HLA-A*26:01

<400> 6945
Asp Ser Ser Asn Thr Ser Pro Gly Leu Tyr
1               5                   10


<210> 6946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*68:01

<400> 6946
Asp Val Ala Ala Asn Gly Gln Asp Glu Lys
1               5                   10


<210> 6947
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*27:02

<400> 6947
Glu Asp Ala Leu Ile Asp Glu Val Glu Arg
1               5                   10


<210> 6948
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*27:02

<400> 6948
Glu Asp Glu Glu Ser Val Ser Ala Ser Gln Lys
1               5                   10


<210> 6949
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*44:02,HLA-B*44:03

<400> 6949
Glu Glu Ser Val Ser Ala Ser Gln Lys Ala Ile
1               5                   10


<210> 6950
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*29:02

<400> 6950
Glu Phe Leu Gly Leu Leu Gly Ile Tyr
1 5

<210> 6951
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*35:03

<400> 6951
Glu Gly Ile Leu Ser Gly Asp Asn Ala Leu
1 5 10

<210> 6952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-A*26:01,HLA-A*30:02,HLA-B*15:01,HLA-B*39:01,
HLA-C*07:04

<400> 6952
Glu Met Asp Ser Ser Gly Glu Ser Tyr
1 5

<210> 6953
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*38:01,HLA-B*39:01

<400> 6953
Glu Met Asp Ser Ser Gly Glu Ser Tyr Thr Leu
1 5 10

<210> 6954
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*33:03

<400> 6954
Glu Ser His Ser Ser Ser Ser Ser Ser Arg
1 5 10

<210> 6955
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*11:01,HLA-A*33:01,HLA-A*33:03

<400> 6955
Glu Ser Tyr Thr Leu Val Ser Lys
1 5

<210> 6956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*51:01

<400> 6956
Glu Ser Tyr Thr Leu Val Ser Lys Leu
1 5

<210> 6957
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01

<400> 6957
Glu Thr Asn Gly Gln Pro Gln Gly Leu
1 5

<210> 6958
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 6958
Glu Thr Thr Lys Met Arg Val Leu
1 5

<210> 6959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*33:01,HLA-A*33:03

<400> 6959
Glu Thr Thr Lys Met Arg Val Leu Arg
1 5

<210> 6960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*33:01

<400> 6960
Glu Val Glu Arg Ala Leu Arg Leu Arg
1 5

<210> 6961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*68:02

<400> 6961
Glu Val Trp Glu Phe Leu Gly Leu Leu
1 5

<210> 6962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*23:01,HLA-A*24:02,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 6962
Glu Tyr Lys Pro Tyr Phe Pro Gln Ile
1 5

<210> 6963
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*24:02

<400> 6963
Glu Tyr Lys Pro Tyr Phe Pro Gln Ile Leu
1 5 10

<210> 6964
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*46:01,HLA-C*03:04

<400> 6964
Phe Gly Val Glu Leu Lys Glu Met
1 5

<210> 6965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*40:01,HLA-B*49:01

<400> 6965

Gly Glu Asp Glu Glu Ser Val Ser Ala
1               5


<210> 6966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*03:02,HLA-A*11:01,HLA-B*27:05

<400> 6966
Gly Glu Ser Tyr Thr Leu Val Ser Lys
1               5


<210> 6967
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 6967
Gly Glu Ser Tyr Thr Leu Val Ser Lys Leu
1               5                   10


<210> 6968
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 6968
Gly Ile Leu Ser Gly Asp Asn Ala Leu Pro Lys
1               5                   10


<210> 6969
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,

HLA-A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-A*32:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*46:01,HLA-B*55:01

<400> 6969
Gly Ile Tyr Asp Gly Ile Leu His Ser Ile
1 5 10

<210> 6970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01

<400> 6970
Gly Ile Tyr Asp Gly Ile Leu His Ser Ile Tyr
1 5 10

<210> 6971
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:04

<400> 6971
Gly Leu Leu Gly Ile Tyr Asp Gly Ile
1 5

<210> 6972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:04

<400> 6972
Gly Leu Leu Gly Ile Tyr Asp Gly Ile Leu
1 5 10

<210> 6973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:04

<400> 6973
Gly Leu Leu Met Ser Leu Leu Val Val
1 5

<210> 6974
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:02

<400> 6974
Gly Leu Thr Gly Pro Gln Ala Thr Ala Glu Lys
1 5 10

<210> 6975
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:04

<400> 6975
Gly Leu Tyr Pro His Leu Tyr Glu Asp Ala Leu
1 5 10

<210> 6976
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*07:02

<400> 6976
Gly Pro Arg Ala Tyr Ala Glu Thr Thr Lys Met
1 5 10

<210> 6977
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*31:01,HLA-B*27:05

<400> 6977
Gly Gln Asp Glu Lys Ser Pro Ser Thr Ser Arg
1 5 10

<210> 6978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-B*58:01,
HLA-C*01:02

<400> 6978
Gly Ser Pro Asp Ala Val Val Ser Tyr
1 5

<210> 6979
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 6979
Gly Ser Pro Asp Ala Val Val Ser Tyr Ser Lys
1 5 10

<210> 6980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*13:02

<400> 6980
Gly Val Ser Gly Ser Lys Tyr Asp Val
1 5

<210> 6981
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:01

<400> 6981
His Leu Tyr Glu Asp Ala Leu Ile Asp Glu Val
1 5 10

<210> 6982
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*29:02

<400> 6982
Ile Ile Thr Glu Asp Leu Val Gln Asp Lys Tyr
1 5 10

<210> 6983
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02

<400> 6983
Ile Leu Ser Gly Asp Asn Ala Leu Pro Lys
1 5 10

<210> 6984
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*51:01,HLA-B*56:01

<400> 6984

Ile Pro Gln Glu Ser Gln Gly Val
1               5


<210> 6985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*56:01

<400> 6985
Ile Pro Gln Glu Ser Gln Gly Val Ser Pro
1               5                   10


<210> 6986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*01:01,HLA-A*03:02,HLA-A*11:01

<400> 6986
Ile Thr Glu Asp Leu Val Gln Asp Lys
1               5


<210> 6987
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*58:01

<400> 6987
Ile Thr Glu Asp Leu Val Gln Asp Lys Tyr
1               5                   10


<210> 6988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*02:01,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,

HLA-A*30:01,HLA-A*32:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*49:01,HLA-B*51:01,HLA-B*55:01,HLA-C*04:01,HLA-C*07:04

<400> 6988
Ile Tyr Asp Gly Ile Leu His Ser Ile
1 5

<210> 6989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*29:02

<400> 6989
Ile Tyr Asp Gly Ile Leu His Ser Ile Tyr
1 5 10

<210> 6990
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*24:02

<400> 6990
Ile Tyr Gly Asp Ala Arg Lys Ile
1 5

<210> 6991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*24:02

<400> 6991
Ile Tyr Gly Asp Ala Arg Lys Ile Ile
1 5

<210> 6992
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,

<220>
<223> HLA-B*46:01,HLA-B*49:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:04

<400> 6992
Lys Glu Met Asp Ser Ser Gly Glu Ser Tyr
1 5 10

<210> 6993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*37:01,HLA-B*40:01

<400> 6993
Lys Glu Ser Ile Leu Lys Ala Asp Met
1 5

<210> 6994
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*40:01

<400> 6994
Lys Glu Ser Ile Leu Lys Ala Asp Met Leu
1 5 10

<210> 6995
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 6995
Lys Ile Ile Thr Glu Asp Leu Val Gln Asp Lys

1 5 10

<210> 6996
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*07:02,HLA-B*08:01

<400> 6996
Lys Pro Tyr Phe Pro Gln Ile Leu
1 5

<210> 6997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:07,HLA-B*07:02,HLA-B*35:03,HLA-B*38:01,HLA-C*03:03,
HLA-C*03:04,HLA-C*05:01,HLA-C*16:01

<400> 6997
Leu Ile Asp Glu Val Glu Arg Ala Leu
1 5

<210> 6998
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:07

<400> 6998
Leu Ile Asp Glu Val Glu Arg Ala Leu Arg Leu
1 5 10

<210> 6999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:01,HLA-A*02:04

<400> 6999
Leu Leu Met Ser Leu Leu Val Val Ile
1               5


<210> 7000
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*08:01,HLA-B*51:01

<400> 7000
Leu Pro Lys Ser Gly Leu Leu Met
1               5


<210> 7001
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*07:02

<400> 7001
Leu Pro Lys Ser Gly Leu Leu Met Ser Leu
1               5                   10


<210> 7002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*54:01,HLA-B*56:01

<400> 7002
Leu Pro Ser Glu Gly Ile Leu Ser Gly
1               5


<210> 7003
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 7003
Leu Val Gln Asp Lys Tyr Val Val
1 5

<210> 7004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*35:01,HLA-B*46:01,
HLA-C*02:02,HLA-C*07:04,HLA-C*12:03,HLA-C*16:01

<400> 7004
Leu Val Gln Asp Lys Tyr Val Val Tyr
1 5

<210> 7005
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01

<400> 7005
Leu Val Gln Asp Lys Tyr Val Val Tyr Arg
1 5 10

<210> 7006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:07,HLA-A*30:01,HLA-A*68:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*40:01,HLA-B*46:01,HLA-B*54:01,HLA-C*02:02,HLA-C*03:03,
HLA-C*03:04

<400> 7006
Leu Val Val Ala Phe Gly Val Glu Leu
1 5

<210> 7007
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:02

<400> 7007
Met Asp Ser Ser Gly Glu Ser Tyr
1 5

<210> 7008
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*38:01,HLA-B*39:01

<400> 7008
Met Asp Ser Ser Gly Glu Ser Tyr Thr Leu
1 5 10

<210> 7009
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 7009
Asn Ala Leu Pro Lys Ser Gly Leu
1 5

<210> 7010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 7010
Asn Ala Leu Pro Lys Ser Gly Leu Leu

1 5

<210> 7011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-B*35:01,HLA-B*38:01,HLA-B*58:01,HLA-C*05:01

<400> 7011
Asn Ser Asp Pro Pro Cys Tyr Glu Phe
1 5

<210> 7012
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01

<400> 7012
Asn Ser Asp Pro Pro Cys Tyr Glu Phe Leu
1 5 10

<210> 7013
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*68:01,HLA-A*68:02

<400> 7013
Asn Thr Ser Pro Gly Leu Tyr Pro His Leu
1 5 10

<210> 7014
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 7014
Asn Thr Ser Pro Gly Leu Tyr Pro His Leu Tyr
1               5                   10


<210> 7015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*27:02

<400> 7015
Pro Asp Ala Val Val Ser Tyr Ser Lys
1               5


<210> 7016
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*01:01,HLA-A*30:02

<400> 7016
Pro Thr Gly Ser Pro Asp Ala Val Val Ser Tyr
1               5                   10


<210> 7017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 7017
Pro Tyr Phe Pro Gln Ile Leu Asn Arg
1               5


<210> 7018
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;

HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 7018
Gln Glu Thr Asn Gly Gln Pro Gln Gly Leu
1 5 10

<210> 7019
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*54:01,HLA-B*56:01

<400> 7019
Gln Pro Gln Gly Leu Thr Gly Pro Gln Ala
1 5 10

<210> 7020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*32:01,HLA-B*15:03,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*03:04,HLA-C*12:03,HLA-C*16:04

<400> 7020
Arg Ala Tyr Ala Glu Thr Thr Lys Met
1 5

<210> 7021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02

<400> 7021
Arg Leu Ser Lys Asp Ala Val Lys Lys
1 5

<210> 7022
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02

<400> 7022
Arg Leu Ser Lys Asp Ala Val Lys Lys Lys
1 5 10

<210> 7023
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*39:01

<400> 7023
Arg Gln Glu Thr Asn Gly Gln Pro Gln Gly Leu
1 5 10

<210> 7024
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:02

<400> 7024
Arg Gln Val Cys Asn Ser Asp Pro Pro Cys Tyr
1 5 10

<210> 7025
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*57:01

<400> 7025
Arg Thr Ser Gln His Leu Val Val Ala Phe
1 5 10

<210> 7026
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*35:01,HLA-B*37:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,
HLA-C*16:01

<400> 7026
Ser Ala Ser Gln Lys Ala Ile Ile Phe
1 5

<210> 7027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 7027
Ser Ala Ser Gln Lys Ala Ile Ile Phe Lys
1 5 10

<210> 7028
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*37:01

<400> 7028
Ser Asp Pro Pro Cys Tyr Glu Phe
1 5

<210> 7029
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:01,HLA-B*40:01

<400> 7029
Ser Glu Gly Ile Leu Ser Gly Asp Asn Ala Leu
1 5 10

<210> 7030
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 7030
Ser Gly Glu Ser Tyr Thr Leu Val Ser Lys
1 5 10

<210> 7031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7031
Ser Ile Leu Lys Ala Asp Met Leu Lys
1 5

<210> 7032
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:02

<400> 7032
Ser Asn Thr Ser Pro Gly Leu Tyr
1 5

<210> 7033
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-A*30:02,HLA-B*35:01,HLA-B*55:01

<400> 7033
Ser Pro Asp Ala Gly Val Ser Gly Ser Lys Tyr

1 5 10

<210> 7034
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-B*18:01,HLA-B*35:01,HLA-B*55:01

<400> 7034
Ser Pro Asp Ala Val Val Ser Tyr
1 5

<210> 7035
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*07:02

<400> 7035
Ser Pro Gly Leu Tyr Pro His Leu
1 5

<210> 7036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*35:01

<400> 7036
Ser Pro Gly Leu Tyr Pro His Leu Tyr
1 5

<210> 7037
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*07:02,HLA-B*56:01

<400> 7037
Ser Pro Ser Thr Ser His Asp Val Ser Val
1               5                   10


<210> 7038
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*07:02,HLA-C*07:02

<400> 7038
Ser Pro Ser Thr Ser Arg Asp Ala Ser Val
1               5                   10


<210> 7039
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*56:01

<400> 7039
Ser Pro Thr Gly Ser Pro Asp Ala Gly Val
1               5                   10


<210> 7040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*56:01

<400> 7040
Ser Pro Thr Gly Ser Pro Asp Ala Val
1               5


<210> 7041
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;

HLA -B*35:03,HLA-B*56:01

<400> 7041
Ser Pro Thr Gly Ser Pro Asp Ala Val Val
1 5 10

<210> 7042
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*37:01,HLA-C*07:04

<400> 7042
Ser Gln His Leu Val Val Ala Phe
1 5

<210> 7043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 7043
Ser Gln Lys Ala Ile Ile Phe Lys Arg
1 5

<210> 7044
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 7044
Ser Ser Gly Glu Ser Tyr Thr Leu Val Ser Lys
1 5 10

<210> 7045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:03

<400> 7045
Ser Ser Asn Thr Ser Pro Gly Leu Tyr
1 5

<210> 7046
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -C*16:01

<400> 7046
Ser Ser Ser Ser Arg Ala Cys Leu
1 5

<210> 7047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*07:02,HLA-C*16:01

<400> 7047
Ser Ser Ser Ser Ser Arg Ala Cys Leu
1 5

<210> 7048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*13:02

<400> 7048
Ser Val Ser Ala Ser Gln Lys Ala Ile
1 5

<210> 7049
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 7049
Ser Tyr Thr Leu Val Ser Lys Leu
1 5

<210> 7050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7050
Thr Glu Asp Leu Val Gln Asp Lys Tyr
1 5

<210> 7051
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*49:01

<400> 7051
Thr Glu Asp Leu Val Gln Asp Lys Tyr Val
1 5 10

<210> 7052
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*18:01

<400> 7052
Thr Glu Glu Glu Val Trp Glu Phe
1 5

<210> 7053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:02,HLA-B*35:01,HLA-B*39:01,HLA-C*07:04,HLA-C*07:06

<400> 7053
Thr Gly Ser Pro Asp Ala Val Val Ser Tyr
1 5 10

<210> 7054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:01,HLA-A*03:02

<400> 7054
Thr Leu Ala Gln Phe Leu Gln Lys Lys
1 5

<210> 7055
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*08:01

<400> 7055
Thr Leu Val Ser Lys Leu Gly Leu
1 5

<210> 7056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*02:07

<400> 7056
Thr Ser Pro Gly Leu Tyr Pro His Leu
1 5

<210> 7057
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 7057
Thr Ser Pro Gly Leu Tyr Pro His Leu Tyr
1 5 10

<210> 7058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:02,HLA-A*32:01,HLA-A*33:01,HLA-B*35:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*12:03,HLA-C*16:01

<400> 7058
Thr Ser Gln His Leu Val Val Ala Phe
1 5

<210> 7059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:02

<400> 7059
Val Cys Asn Ser Asp Pro Pro Cys Tyr
1 5

<210> 7060
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*56:01

<400> 7060
Val Pro Gln Glu Ser Gln Gly Ala
1               5


<210> 7061
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*56:01

<400> 7061
Val Pro Gln Glu Ser Gln Gly Ala Ser Pro
1               5                   10


<210> 7062
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -B*15:01,HLA-B*15:03

<400> 7062
Val Gln Asp Lys Tyr Val Val Tyr
1               5


<210> 7063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
      HLA -A*31:01

<400> 7063
Val Gln Asp Lys Tyr Val Val Tyr Arg
1               5


<210> 7064
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;

HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7064
Val Ser Ala Ser Gln Lys Ala Ile Ile Phe Lys
1 5 10

<210> 7065
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -C*03:03,HLA-C*03:04

<400> 7065
Val Val Ala Phe Gly Val Glu Leu
1 5

<210> 7066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*03:02,HLA-A*11:01

<400> 7066
Val Val Ala Phe Gly Val Glu Leu Lys
1 5

<210> 7067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*49:01

<400> 7067
Trp Glu Phe Leu Gly Leu Leu Gly Ile
1 5

<210> 7068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*01:01

<400> 7068
Tyr Ala Glu Thr Thr Lys Met Arg Val
1 5

<210> 7069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:01,HLA-B*13:02,HLA-B*37:01

<400> 7069
Tyr Asp Gly Ile Leu His Ser Ile
1 5

<210> 7070
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*27:02

<400> 7070
Tyr Asp Val Ala Ala Asn Gly Gln Asp Glu Lys
1 5 10

<210> 7071
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 7071
Tyr Glu Asp Ala Leu Ile Asp Glu Val
1 5

<210> 7072
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*44:02

<400> 7072
Tyr Glu Phe Leu Trp Gly Pro Arg Ala Tyr
1 5 10

<210> 7073
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*54:01

<400> 7073
Tyr Pro His Leu Tyr Glu Asp Ala
1 5

<210> 7074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEB6; ENSG00000176746;
HLA -B*35:01,HLA-B*35:03

<400> 7074
Tyr Pro His Leu Tyr Glu Asp Ala Leu
1 5

<210> 7075
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 7075
Ala Glu Met Leu Thr Asn Val Ile
1 5

<210> 7076
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 7076
Ala Glu Met Leu Thr Asn Val Ile Ser Arg Tyr
1 5 10

<210> 7077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01

<400> 7077
Ala Met Leu Lys Asn Thr Val Pro Ile
1 5

<210> 7078
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01

<400> 7078
Ala Met Leu Lys Asn Thr Val Pro Ile Thr Phe
1 5 10

<210> 7079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7079
Ala Gln Ser Ala Phe Glu Gly Phe

1 5

<210> 7080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*27:05,
HLA-B*37:01,HLA-B*39:01,HLA-B*56:01,HLA-C*07:04

<400> 7080
Ala Gln Ser Pro Leu Gln Ile Pro Val
1 5

<210> 7081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*13:02,HLA-B*37:01,HLA-C*06:02

<400> 7081
Ala Gln Ser Pro Leu Gln Arg Pro Val
1 5

<210> 7082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*13:02,HLA-B*39:01

<400> 7082
Ala Gln Ser Pro Leu Gln Ser Pro Val
1 5

<210> 7083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-B*13:02,HLA-B*27:05,HLA-B*39:01,HLA-B*56:01

<400> 7083
Ala Gln Ser Ser Leu Gln Ile Pro Val
1               5


<210> 7084
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*37:01

<400> 7084
Ala Gln Ser Thr Phe Glu Gly Phe
1               5


<210> 7085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*30:01,HLA-B*13:02,HLA-B*58:01

<400> 7085
Ala Ser Ser Ser Thr Leu Val Ser Ile
1               5


<210> 7086
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*30:02,HLA-B*27:05,HLA-B*58:01

<400> 7086
Ala Ser Ser Ser Val Met Ser Pro Ser Phe
1               5                   10


<210> 7087
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*51:01,HLA-C*07:06

<400> 7087
Asp Ala Leu Lys Asp Val Glu Glu Arg
1 5

<210> 7088
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7088
Asp Glu Lys Val Asp Glu Leu Ala Arg Phe
1 5 10

<210> 7089
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*18:01

<400> 7089
Asp Glu Leu Ala Arg Phe Leu Leu
1 5

<210> 7090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01

<400> 7090
Asp Glu Tyr Thr Ser Ser Ser Asp Thr Leu
1 5 10

<210> 7091
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01

<400> 7091
Asp Met Pro Thr Ala Gly Met Pro Ser Leu
1 5 10

<210> 7092
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 7092
Asp Pro Asp Asp Ser Tyr Val Phe
1 5

<210> 7093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7093
Asp Pro Asp Asp Ser Tyr Val Phe Val
1 5

<210> 7094
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7094
Asp Ser Leu Ser Pro Leu Glu Ile
1 5

<210> 7095
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7095
Asp Ser Leu Ser Pro Leu Gln Ile
1 5

<210> 7096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*33:01

<400> 7096
Asp Ser Leu Ser Ser Leu His Phe Pro
1 5

<210> 7097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:03

<400> 7097
Asp Ser Leu Thr Asp Ser Glu Ser Leu
1 5

<210> 7098
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:01

<400> 7098
Asp Ser Ser Asp Pro Leu Gln Arg
1 5

<210> 7099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*33:01,HLA-A*68:02,HLA-B*18:01,HLA-B*51:01

<400> 7099
Asp Ser Tyr Val Phe Val Asn Thr Leu
1 5

<210> 7100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:03

<400> 7100
Asp Thr Leu Leu Glu Ser Asp Ser Leu
1 5

<210> 7101
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*33:01

<400> 7101
Asp Thr Leu Tyr Pro Leu Gln Ser Pro Gln
1 5 10

<210> 7102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*08:01

<400> 7102
Asp Val Glu Glu Arg Ala Gln Ala Ile
1 5

<210> 7103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 7103
Asp Val Leu Ser Gly Ile Gly Val Arg
1 5

<210> 7104
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*26:01,HLA-A*68:02,HLA-B*54:01

<400> 7104
Asp Val Leu Ser Gly Ile Gly Val Arg Ala
1 5 10

<210> 7105
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*18:01

<400> 7105
Glu Asp Ser Leu Ser Pro His Tyr
1 5

<210> 7106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01,HLA-B*44:02

<400> 7106
Glu Asp Ser Leu Ser Pro His Tyr Phe
1               5


<210> 7107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*37:01

<400> 7107
Glu Asp Ser Leu Ser Pro Leu His Phe
1               5


<210> 7108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*37:01

<400> 7108
Glu Asp Ser Leu Ser Ser Leu His Phe
1               5


<210> 7109
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*18:01

<400> 7109
Glu Asp Ser Met Ser Pro Leu Tyr
1               5


<210> 7110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;

HLA -A*33:03,HLA-A*68:01

<400> 7110
Glu Asp Ser Ser Asp Pro Leu Gln Arg
1 5

<210> 7111
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*49:01

<400> 7111
Glu Glu Phe Gln Ser Ser Leu Gln Ser Pro Val
1 5 10

<210> 7112
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*39:01,HLA-B*44:02,HLA-B*44:03

<400> 7112
Glu Glu Ser Ser Ser Pro Val Asp Glu Tyr
1 5 10

<210> 7113
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*18:01

<400> 7113
Glu Glu Val Ile Trp Asp Val Leu
1 5

<210> 7114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*05:01

<400> 7114
Glu Gly Asp Asp Thr Gln Ser Pro Leu
1 5

<210> 7115
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 7115
Glu Gly Glu Asp Ser Ser Asp Pro Leu Gln Arg
1 5 10

<210> 7116
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7116
Glu Gly Phe Ala Gln Ser Ser Leu
1 5

<210> 7117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:01

<400> 7117
Glu Gly Pro Ala Gln Ser Pro Leu Gln Arg
1 5 10

<210> 7118
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*33:01,HLA-A*33:03

<400> 7118
Glu His Phe Ala Phe Gly Glu Pro Arg
1 5

<210> 7119
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*29:02

<400> 7119
Glu Leu Ala Arg Phe Leu Leu Leu Lys Tyr
1 5 10

<210> 7120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 7120
Glu Met Leu Thr Asn Val Ile Ser Arg
1 5

<210> 7121
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*44:02,HLA-B*44:03

<400> 7121
Glu Met Leu Thr Asn Val Ile Ser Arg Tyr
1 5 10

<210> 7122
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01

<400> 7122
Glu Pro Leu Phe Thr Tyr Thr Leu
1 5

<210> 7123
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01

<400> 7123
Glu Ser Ala Gln Ser Ala Phe Glu Gly Phe
1 5 10

<210> 7124
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01

<400> 7124
Glu Ser Ala Gln Ser Thr Phe Glu Gly Phe
1 5 10

<210> 7125
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01

<400> 7125
Glu Ser Glu Pro Leu Phe Thr Tyr
1 5

<210> 7126
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01

<400> 7126
Glu Ser Pro Leu Gln Ser Pro Val Ile Ser Phe
1 5 10

<210> 7127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*35:01

<400> 7127
Glu Ser Ser Ser Pro Val Asp Glu Tyr
1 5

<210> 7128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01

<400> 7128
Glu Ser Thr Gln Ser Pro Phe Glu Gly Phe
1 5 10

<210> 7129
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01

<400> 7129

Glu Val Asp Pro Asp Asp Ser Tyr
1               5


<210> 7130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -C*05:01

<400> 7130
Glu Val Asp Pro Asp Asp Ser Tyr Val
1               5


<210> 7131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*25:01,HLA-A*26:01,HLA-B*35:01,HLA-B*38:01,HLA-C*03:03

<400> 7131
Glu Val Asp Pro Asp Asp Ser Tyr Val Phe
1               5                   10


<210> 7132
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*01:01,HLA-A*02:07,HLA-A*68:02

<400> 7132
Glu Val Asp Pro Asp Asp Ser Tyr Val Phe Val
1               5                   10


<210> 7133
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*25:01,HLA-A*26:01

<400> 7133
Glu Val Ile Lys Arg Lys Val Val Glu Phe
1               5                   10


<210> 7134
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 7134
Glu Val Ile Trp Asp Val Leu Ser Gly Ile
1               5                   10


<210> 7135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 7135
Glu Val Pro Asn Ser Ser Pro Pro Arg
1               5


<210> 7136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 7136
Glu Val Pro Asn Ser Ser Pro Pro Arg Tyr
1               5                   10


<210> 7137
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*24:02

<400> 7137
Glu Tyr Thr Ser Ser Ser Asp Thr Leu
1 5

<210> 7138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:03,HLA-A*30:01,HLA-A*68:02,HLA-B*15:03,HLA-B*35:01,
HLA-B*35:03,HLA-B*40:01,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03,HLA-C*16:01,

<220>
<223> HLA-C*16:02,HLA-C*16:04

<400> 7138
Phe Ala Phe Gly Glu Pro Arg Glu Leu
1 5

<210> 7139
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7139
Phe Ala Gln Ser Pro Leu Gln Ile
1 5

<210> 7140
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:02,HLA-B*54:01

<400> 7140
Phe Ala Gln Ser Pro Leu Gln Ile Pro Val
1 5 10

<210> 7141
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7141
Phe Ala Gln Ser Ser Leu Gln Ile
1 5

<210> 7142
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*49:01

<400> 7142
Phe Glu Gly Phe Ala Gln Ser Pro Leu Gln Ile
1 5 10

<210> 7143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 7143
Phe Glu Gly Phe Ala Gln Ser Ser Leu
1 5

<210> 7144
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*49:01

<400> 7144
Phe Glu Gly Phe Ala Gln Ser Ser Leu Gln Ile

1 5 10

<210> 7145
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01

<400> 7145
Phe Glu Gly Phe Pro Gln Ser Leu
1 5

<210> 7146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 7146
Phe Glu Gly Phe Pro Gln Ser Leu Leu
1 5

<210> 7147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*49:01

<400> 7147
Phe Glu Gly Phe Pro Gln Ser Val
1 5

<210> 7148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 7148
Phe Glu Gly Phe Pro Gln Ser Val Leu
1               5


<210> 7149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*23:01

<400> 7149
Phe Phe Ser Ser Ala Leu Leu Ser Ile
1               5


<210> 7150
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*29:02

<400> 7150
Phe Phe Ser Ser Ala Leu Leu Ser Ile Phe
1               5                   10


<210> 7151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:03

<400> 7151
Phe Leu Ala Met Leu Lys Asn Thr Val
1               5


<210> 7152
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;

HLA -B*51:01

<400> 7152
Phe Pro Gln Ser Leu Leu Gln Ile
1 5

<210> 7153
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 7153
Phe Pro Gln Ser Pro Leu Gln Gly Glu Glu Phe
1 5 10

<210> 7154
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7154
Phe Pro Gln Ser Pro Leu Gln Ile
1 5

<210> 7155
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*56:01

<400> 7155
Phe Pro Gln Ser Pro Leu Gln Ile Pro Gly
1 5 10

<210> 7156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*56:01

<400> 7156
Phe Pro Gln Ser Pro Leu Gln Ile Pro Met
1 5 10

<210> 7157
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*56:01

<400> 7157
Phe Pro Gln Ser Pro Leu Gln Ile Pro Val
1 5 10

<210> 7158
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01

<400> 7158
Phe Pro Gln Ser Pro Leu Gln Ile Pro Val Ser
1 5 10

<210> 7159
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*55:01

<400> 7159
Phe Pro Gln Ser Pro Gln Gly Glu Asp Ser Leu
1 5 10

<210> 7160
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7160
Phe Pro Gln Ser Val Leu Gln Ile
1 5

<210> 7161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*56:01

<400> 7161
Phe Pro Gln Ser Val Leu Gln Ile Pro Val
1 5 10

<210> 7162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*30:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:03,
HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:01,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,

<220>
<223> HLA-B*56:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*04:01,HLA-C*05:01,HLA-C*07:02,HLA-C*07:04,HLA-C*12:03,
HLA-C*14:02

<400> 7162
Phe Pro Ser Ser Thr Ser Ser Ser Leu
1 5

<210> 7163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 7163
Phe Pro Ser Ser Tyr Lys Asp Ala Leu
1               5


<210> 7164
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*54:01

<400> 7164
Phe Pro Val Ile Phe Arg Lys Ala
1               5


<210> 7165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*68:02,HLA-B*13:02

<400> 7165
Phe Gln Ser Ser Leu Gln Ser Pro Val
1               5


<210> 7166
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*38:01,HLA-B*39:01

<400> 7166
Phe Gln Ser Ser Leu Gln Ser Pro Val Ser Ile
1               5                   10


<210> 7167
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*32:01,HLA-B*46:01,HLA-B*58:01,HLA-C*05:01

<400> 7167
Phe Ser Glu Arg Thr Gln Ser Thr Phe
1 5

<210> 7168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*57:01,HLA-C*02:02

<400> 7168
Phe Ser Ser Ala Leu Leu Ser Ile Phe
1 5

<210> 7169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01

<400> 7169
Phe Ser Ser Thr Leu Leu Ser Leu Phe
1 5

<210> 7170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-B*57:01,HLA-C*02:02

<400> 7170
Phe Ser Ser Thr Leu Val Ser Leu Phe
1 5

<210> 7171
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*46:01,HLA-C*03:03

<400> 7171
Phe Ser Tyr Thr Leu Ala Ser Leu
1 5

<210> 7172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-C*02:02,HLA-C*12:03

<400> 7172
Phe Ser Tyr Thr Leu Ala Ser Leu Leu
1 5

<210> 7173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*57:01

<400> 7173
Phe Ser Tyr Thr Leu Leu Ser Leu Phe
1 5

<210> 7174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:02

<400> 7174
Phe Thr Tyr Thr Leu Asp Glu Lys Val
1 5

<210> 7175
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7175
Gly Glu Asp Ser Leu Ser Pro His Tyr
1 5

<210> 7176
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 7176
Gly Glu Asp Ser Leu Ser Pro His Tyr Phe
1 5 10

<210> 7177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 7177
Gly Glu Asp Ser Leu Ser Pro Leu Gln Ile
1 5 10

<210> 7178
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 7178
Gly Glu Asp Ser Leu Ser Ser Leu His Phe
1 5 10

<210> 7179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*44:03

<400> 7179
Gly Glu Asp Ser Met Ser Pro Leu Tyr
1 5

<210> 7180
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 7180
Gly Glu Asp Ser Met Ser Pro Leu Tyr Phe
1 5 10

<210> 7181
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 7181
Gly Glu Asp Ser Gln Ser Pro Leu Gln Ile
1 5 10

<210> 7182
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 7182
Gly Glu Asn Thr His Ser Pro Leu Gln Ile

1 5 10

<210> 7183
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*44:02,HLA-B*44:03

<400> 7183
Gly Glu Pro Arg Glu Leu Leu Thr Lys Val Trp
1 5 10

<210> 7184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*30:01,HLA-B*13:02

<400> 7184
Gly Phe Ala Gln Ser Pro Leu Gln Ile
1 5

<210> 7185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*13:02

<400> 7185
Gly Met Ser Gln Asn Arg Leu Leu Ile
1 5

<210> 7186
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7186
Gly Pro Ala Gln Ser Pro Leu Gln Ser Pro
1               5                   10


<210> 7187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02

<400> 7187
Gly Pro Arg Ala His Ser Glu Val
1               5


<210> 7188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02,HLA-C*07:02

<400> 7188
Gly Pro Arg Ala His Ser Glu Val Ile
1               5


<210> 7189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*56:01

<400> 7189
Gly Pro Val Gln Ser Pro Leu His Ser Pro
1               5                   10


<210> 7190
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;

HLA -B*57:01

<400> 7190
Gly Thr Tyr Ala Ser Glu Glu Val Ile Trp
1 5 10

<210> 7191
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*31:01

<400> 7191
Gly Tyr Phe Pro Val Ile Phe Arg
1 5

<210> 7192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*29:02,HLA-A*31:01,HLA-B*57:01

<400> 7192
Gly Tyr Phe Pro Val Ile Phe Arg Lys
1 5

<210> 7193
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 7193
Ile Glu Ile Leu Phe Gly Ile Ser Leu
1 5

<210> 7194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*25:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,
HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,
HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,

<220>
<223> HLA-B*49:01,HLA-C*02:02,HLA-C*16:04

<400> 7194
Ile Glu Ser Glu Pro Leu Phe Thr Tyr
1 5

<210> 7195
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*49:01

<400> 7195
Ile Glu Ser Glu Pro Leu Phe Thr Tyr Thr
1 5 10

<210> 7196
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 7196
Ile Glu Ser Glu Pro Leu Phe Thr Tyr Thr Leu
1 5 10

<210> 7197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*14:02

<400> 7197
Ile Phe Gln Ser Ser Pro Glu Ser Ala

1 5

<210> 7198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*14:02

<400> 7198
Ile Phe Gln Ser Ser Pro Glu Ser Thr
1 5

<210> 7199
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*15:01,HLA-B*15:03

<400> 7199
Ile Ile Phe Ile Lys Gly Thr Tyr
1 5

<210> 7200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:03

<400> 7200
Ile Ile Phe Ile Lys Gly Thr Tyr Ala
1 5

<210> 7201
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 7201
Ile Leu Phe Gly Ile Ser Leu Arg Glu Val
1               5                   10


<210> 7202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:01,HLA-A*02:04

<400> 7202
Ile Leu Ile Leu Ser Ile Ile Phe Ile
1               5


<210> 7203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:01,HLA-A*02:03

<400> 7203
Ile Leu Gln Ser Ser Pro Glu Ser Ala
1               5


<210> 7204
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02

<400> 7204
Ile Pro Gly Ser Pro Ser Phe Ser Ser Thr Leu
1               5                   10


<210> 7205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;

HLA -B*56:01

<400> 7205
Ile Pro Met Thr Ser Ser Phe Ser Ser Thr
1 5 10

<210> 7206
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-C*07:02

<400> 7206
Ile Pro Met Thr Ser Ser Phe Ser Ser Thr Leu
1 5 10

<210> 7207
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 7207
Ile Pro Val Ser Ala Ala Ser Ser Ser Thr Leu
1 5 10

<210> 7208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7208
Ile Pro Val Ser Pro Ser Phe Ser Ser
1 5

<210> 7209
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7209
Ile Pro Val Ser Pro Ser Phe Ser Ser Thr
1 5 10

<210> 7210
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*56:01,
HLA-C*07:02

<400> 7210
Ile Pro Val Ser Pro Ser Phe Ser Ser Thr Leu
1 5 10

<210> 7211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7211
Ile Pro Val Ser Pro Ser Ser Ser Ser
1 5

<210> 7212
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-C*03:04,
HLA-C*07:02

<400> 7212
Ile Pro Val Ser Pro Ser Ser Ser Ser Thr Leu
1 5 10

<210> 7213
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-C*07:02

<400> 7213
Ile Pro Val Ser Arg Ser Phe Ser Ser Thr Leu
1 5 10

<210> 7214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*29:02,HLA-B*35:01,HLA-B*55:01

<400> 7214
Ile Pro Val Ser Ser Ser Phe Ser Tyr
1 5

<210> 7215
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-B*35:03

<400> 7215
Ile Pro Val Ser Ser Ser Phe Ser Tyr Thr Leu
1 5 10

<210> 7216
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 7216
Ile Pro Val Ser Ser Ser Ser Ser Ser Thr Leu
1 5 10

<210> 7217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*30:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:03,HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,

<220>
<223> HLA-C*14:02,HLA-C*16:04

<400> 7217
Ile Ser Phe Ser Ser Ser Thr Ser Leu
1 5

<210> 7218
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*04:01

<400> 7218
Ile Trp Asp Val Leu Ser Gly Ile Gly Val
1 5 10

<210> 7219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*57:01

<400> 7219
Lys Ala Arg Glu Phe Ile Glu Ile Leu
1 5

<210> 7220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*57:01

<400> 7220
Lys Ala Arg Glu Phe Ile Glu Ile Leu Phe
1 5 10

<210> 7221
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7221
Lys Asp Met Pro Thr Ala Gly Met
1 5

<210> 7222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7222
Lys Asp Ser Leu Ser Pro Leu Glu Ile
1 5

<210> 7223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7223
Lys Asp Ser Gln Ser Pro Leu Gln Ile
1 5

<210> 7224
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:07,HLA-A*03:01

<400> 7224
Lys Val Asp Glu Leu Ala Arg Phe Leu
1 5

<210> 7225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:07

<400> 7225
Lys Val Asp Glu Leu Ala Arg Phe Leu Leu
1 5 10

<210> 7226
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:07,HLA-A*03:01

<400> 7226
Lys Val Asp Glu Leu Ala Arg Phe Leu Leu Leu
1 5 10

<210> 7227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 7227
Lys Val Val Glu Phe Leu Ala Met Leu
1 5

<210> 7228

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7228
Lys Val Val Glu Phe Leu Ala Met Leu Lys
1 5 10

<210> 7229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:04,HLA-A*02:07

<400> 7229
Lys Val Trp Val Gln Glu His Tyr Leu
1 5

<210> 7230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*03:02,HLA-A*31:01,HLA-C*06:02

<400> 7230
Lys Tyr Gln Val Lys Gln Pro Ile Thr Lys
1 5 10

<210> 7231
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*08:01

<400> 7231
Leu Ala Met Leu Lys Asn Thr Val
1 5

<210> 7232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*29:02

<400> 7232
Leu Ala Arg Phe Leu Leu Leu Lys Tyr
1 5

<210> 7233
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*40:01

<400> 7233
Leu Glu Gly Glu Asp Ser Leu Ser Ser Leu
1 5 10

<210> 7234
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*24:02,HLA-B*57:01

<400> 7234
Leu His Phe Pro Gln Ser Pro Pro Glu Trp
1 5 10

<210> 7235
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*29:02

<400> 7235
Leu Ile Glu Ser Glu Pro Leu Phe Thr Tyr

1 5 10

<210> 7236
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:04

<400> 7236
Leu Ile Leu Ser Ile Ile Phe Ile
1 5

<210> 7237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*15:03

<400> 7237
Leu Lys Asn Thr Val Pro Ile Thr Phe
1 5

<210> 7238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*46:01

<400> 7238
Leu Leu Gln Ile Pro Met Thr Ser Ser Phe
1 5 10

<210> 7239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*56:01

<400> 7239
Leu Pro Gln Ser Phe Pro Glu Ser Pro
1               5


<210> 7240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,
      HLA-B*15:01,HLA-B*15:03,HLA-B*38:01,HLA-B*39:01,HLA-B*46:01,
      HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04

<400> 7240
Leu Gln Ile Pro Gly Ser Pro Ser Phe
1               5


<210> 7241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
      HLA-B*37:01,HLA-B*38:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,

<220>
<223> HLA-C*07:04,HLA-C*14:02,HLA-C*16:04

<400> 7241
Leu Gln Ile Pro Met Thr Ser Ser Phe
1               5


<210> 7242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:01,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
      HLA-A*26:01,HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,HLA-B*13:02,
      HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,

<220>
<223> HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,
      HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,

HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,
HLA-C*14:02,HLA-C*16:01,HLA-C*16:04

<400> 7242
Leu Gln Ile Pro Val Ser Pro Ser Phe
1 5

<210> 7243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 7243
Leu Gln Ile Pro Val Ser Arg Ser Phe
1 5

<210> 7244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*38:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*07:04,

<220>
<223> HLA-C*14:02,HLA-C*16:04

<400> 7244
Leu Gln Ile Pro Val Ser Ser Ser Phe
1 5

<210> 7245
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 7245
Leu Gln Ile Pro Val Ser Ser Ser Phe Ser Tyr
1 5 10

<210> 7246
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,HLA-B*46:01

<400> 7246
Leu Gln Asn Pro Ala Ser Ser Phe
1 5

<210> 7247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-C*07:04

<400> 7247
Leu Gln Asn Pro Ala Ser Ser Phe Phe
1 5

<210> 7248
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 7248
Leu Gln Arg Pro Val Ser Ser Phe
1 5

<210> 7249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03

<400> 7249

Leu Gln Arg Pro Val Ser Ser Phe Phe
1               5


<210> 7250
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*30:02

<400> 7250
Leu Gln Arg Pro Val Ser Ser Phe Phe Ser Tyr
1               5                   10


<210> 7251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*32:01,HLA-B*15:01,HLA-B*37:01

<400> 7251
Leu Gln Ser Pro Val Ile Ser Phe
1               5


<210> 7252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*27:05

<400> 7252
Leu Gln Ser Pro Val Ser Ile Cys Ser
1               5


<210> 7253
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*39:01

<400> 7253
Leu Gln Ser Pro Val Ser Ser Phe
1               5


<210> 7254
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:07,HLA-A*24:02

<400> 7254
Leu Ser Pro Leu His Phe Pro Gln Phe
1               5


<210> 7255
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*25:01,HLA-A*30:02,HLA-B*58:01

<400> 7255
Leu Ser Gln Ser Ser Pro Val Ser Ser Phe
1               5                   10


<210> 7256
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -C*05:01

<400> 7256
Leu Thr Asp Ser Glu Ser Leu Ile
1               5


<210> 7257
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01

<400> 7257
Leu Thr Asn Val Ile Ser Arg Tyr
1 5

<210> 7258
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02,HLA-B*46:01

<400> 7258
Met Leu Lys Asn Thr Val Pro Ile Thr Phe
1 5 10

<210> 7259
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*33:03

<400> 7259
Met Leu Thr Asn Val Ile Ser Arg
1 5

<210> 7260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*03:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*58:01,

<220>
<223> HLA-C*02:02,HLA-C*07:04,HLA-C*16:01,HLA-C*16:02

<400> 7260
Met Leu Thr Asn Val Ile Ser Arg Tyr
1 5

<210> 7261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*56:01

<400> 7261
Met Pro Ser Leu Leu Gln Ser Ser Ser
1 5

<210> 7262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,
HLA-C*03:04,HLA-C*07:02

<400> 7262
Met Pro Thr Ala Gly Met Pro Ser Leu
1 5

<210> 7263
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:03

<400> 7263
Met Pro Thr Ala Gly Met Pro Ser Leu Leu
1 5 10

<210> 7264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:02,HLA-B*35:03,HLA-C*03:04

<400> 7264
Met Thr Ser Ser Phe Ser Ser Thr Leu
1               5


<210> 7265
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 7265
Asn Pro Ala Ser Ser Phe Phe Ser Ser Ala
1               5                   10


<210> 7266
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02

<400> 7266
Asn Pro Ala Ser Ser Phe Phe Ser Ser Ala Leu
1               5                   10


<210> 7267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*32:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:01

<400> 7267
Asn Ser Ser Pro Pro Arg Tyr Glu Phe
1               5


<210> 7268
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;

HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 7268
Asn Thr Val Pro Ile Thr Phe Pro Ser Ser Tyr
1 5 10

<210> 7269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*46:01

<400> 7269
Asn Val Ile Ser Arg Tyr Thr Gly Tyr
1 5

<210> 7270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01

<400> 7270
Pro Glu Gly Pro Val Gln Ser Pro Leu
1 5

<210> 7271
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7271
Pro Glu Ser Ala Gln Ser Ala Phe
1 5

<210> 7272
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7272
Pro Glu Ser Ala Gln Ser Thr Phe
1 5

<210> 7273
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*15:01,HLA-C*14:02

<400> 7273
Pro Leu Gln Asn Pro Ala Ser Ser Phe
1 5

<210> 7274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*24:02

<400> 7274
Pro Leu Gln Arg Pro Val Ser Ser Phe
1 5

<210> 7275
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*24:02,HLA-B*15:01

<400> 7275
Pro Leu Gln Ser Pro Val Ser Ser Phe
1 5

<210> 7276
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*38:01,HLA-B*39:01

<400> 7276
Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Leu
1 5 10

<210> 7277
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*39:01

<400> 7277
Pro Gln Ser Pro Pro Gln Gly Glu Asp Ser Met
1 5 10

<210> 7278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7278
Pro Val Ser Ser Ser Phe Ser Tyr
1 5

<210> 7279
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7279
Gln Gly Glu Asp Ser Leu Ser Pro His Tyr
1 5 10

<210> 7280
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01

<400> 7280
Gln Gly Glu Asp Ser Met Ser Pro Leu Tyr
1 5 10

<210> 7281
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7281
Gln Ile Pro Val Ser Ser Ser Phe Ser Tyr
1 5 10

<210> 7282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 7282
Gln Ile Val Pro Ser Leu Pro Glu Trp
1 5

<210> 7283
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:03

<400> 7283
Gln Pro Ile Thr Lys Ala Glu Met
1 5

<210> 7284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 7284
Gln Pro Ile Thr Lys Ala Glu Met Leu
1 5

<210> 7285
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*12:03

<400> 7285
Gln Ser Phe Ser Glu Arg Thr Gln Ser Thr Phe
1 5 10

<210> 7286
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*01:02

<400> 7286
Gln Ser Pro Leu Gln Gly Glu Glu Phe
1 5

<210> 7287
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:01

<400> 7287
Gln Ser Pro Leu Gln Ile Pro Val Ser Arg
1               5                   10


<210> 7288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -C*01:02

<400> 7288
Gln Ser Pro Gln Gly Glu Asp Ser Leu
1               5


<210> 7289
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 7289
Gln Ser Ser Pro Glu Arg Thr His Ser Thr Phe
1               5                   10


<210> 7290
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*57:01,
      HLA-B*58:01

<400> 7290
Gln Ser Ser Pro Glu Arg Thr Gln Ser Thr Phe
1               5                   10


<210> 7291
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*39:01,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 7291
Gln Ser Ser Pro Glu Ser Ala Gln Ser Ala Phe
1 5 10

<210> 7292
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*57:01,
HLA-B*58:01

<400> 7292
Gln Ser Ser Pro Glu Ser Ala Gln Ser Thr Phe
1 5 10

<210> 7293
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01

<400> 7293
Gln Ser Ser Pro Glu Ser Asp Asp Thr Leu Tyr
1 5 10

<210> 7294
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*30:02,HLA-B*58:01

<400> 7294
Gln Ser Ser Pro Glu Ser Thr Gln Ser Pro Phe
1 5 10

<210> 7295
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*32:01,HLA-B*37:01

<400> 7295
Gln Ser Ser Pro Val Ser Ser Phe
1 5

<210> 7296
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*03:01,HLA-A*03:02,HLA-A*31:01,HLA-A*33:03

<400> 7296
Gln Val Lys Gln Pro Ile Thr Lys
1 5

<210> 7297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 7297
Gln Val Lys Gln Pro Ile Thr Lys Ala
1 5

<210> 7298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*31:01,HLA-A*33:01

<400> 7298
Arg Ala His Ser Glu Val Ile Lys Arg
1 5

<210> 7299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02,HLA-B*15:03,HLA-B*18:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-C*16:04

<400> 7299
Arg Glu Val Asp Pro Asp Asp Ser Tyr
1 5

<210> 7300
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01,HLA-B*49:01

<400> 7300
Arg Glu Val Asp Pro Asp Asp Ser Tyr Val
1 5 10

<210> 7301
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*57:01,HLA-C*16:04

<400> 7301
Arg Glu Val Asp Pro Asp Asp Ser Tyr Val Phe
1 5 10

<210> 7302
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02,HLA-B*44:02,HLA-B*44:03

<400> 7302

Arg Glu Val Pro Asn Ser Ser Pro Pro Arg Tyr
1               5                   10


<210> 7303
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:04

<400> 7303
Arg Leu Leu Ile Leu Ile Leu Ser Ile
1               5


<210> 7304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*30:02,HLA-B*35:01

<400> 7304
Arg Pro Val Ser Ser Phe Phe Ser Tyr
1               5


<210> 7305
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*57:01

<400> 7305
Arg Ser Phe Ser Ser Thr Leu Leu Ser Ile Phe
1               5                   10


<210> 7306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*57:01

<400> 7306
Arg Thr His Ser Thr Phe Glu Gly Phe
1               5


<210> 7307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 7307
Arg Thr Gln Ser Thr Phe Glu Gly Phe
1               5


<210> 7308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*23:01,HLA-A*24:02

<400> 7308
Arg Tyr Thr Gly Tyr Phe Pro Val Ile
1               5


<210> 7309
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*24:02

<400> 7309
Arg Tyr Thr Gly Tyr Phe Pro Val Ile Phe
1               5                   10


<210> 7310
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*03:03,HLA-C*03:04

<400> 7310
Ser Ala Ala Ser Ser Ser Thr Leu
1 5

<210> 7311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*01:02

<400> 7311
Ser Ala Pro Glu Gly Glu Asp Ser Leu
1 5

<210> 7312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7312
Ser Ala Gln Ser Thr Phe Glu Gly Phe
1 5

<210> 7313
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7313
Ser Glu Glu Ser Ser Ser Pro Val Asp Glu Tyr
1 5 10

<210> 7314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01

<400> 7314
Ser Glu Glu Val Ile Trp Asp Val Leu
1 5

<210> 7315
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01

<400> 7315
Ser Glu Gly Glu Asp Ser Ser Asp Pro Leu
1 5 10

<210> 7316
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 7316
Ser Glu Pro Leu Phe Thr Tyr Thr Leu
1 5

<210> 7317
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*15:03,HLA-B*18:01,HLA-B*37:01

<400> 7317
Ser Glu Arg Thr Gln Ser Thr Phe
1 5

<210> 7318

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*44:02,HLA-B*44:03

<400> 7318
Ser Glu Arg Thr Gln Ser Thr Phe Glu Gly Phe
1 5 10

<210> 7319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01

<400> 7319
Ser Glu Ser Leu Ile Glu Ser Glu Pro Leu
1 5 10

<210> 7320
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*01:02,HLA-C*14:02

<400> 7320
Ser Phe Pro Ser Ser Thr Ser Ser Ser Leu
1 5 10

<210> 7321
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 7321
Ser Phe Ser Glu Arg Thr Gln Ser Thr Phe
1 5 10

<210> 7322
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*14:02

<400> 7322
Ser Phe Ser Ser Ser Thr Ser Leu
1 5

<210> 7323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-B*13:02

<400> 7323
Ser Phe Ser Ser Thr Leu Leu Ser Ile
1 5

<210> 7324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*14:02

<400> 7324
Ser Phe Ser Ser Thr Leu Leu Ser Leu
1 5

<210> 7325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-C*14:02

<400> 7325
Ser Phe Ser Ser Thr Leu Val Ser Leu

1 5

<210> 7326
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*31:01

<400> 7326
Ser Gly Ile Gly Val Arg Ala Gly Arg
1 5

<210> 7327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-C*01:02

<400> 7327
Ser Ile Cys Ser Ser Ser Thr Ser Leu
1 5

<210> 7328
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 7328
Ser Ile Phe Gln Ser Ser Pro Glu Arg
1 5

<210> 7329
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:03

<400> 7329
Ser Ile Phe Gln Ser Ser Pro Glu Ser Ala
1               5                   10


<210> 7330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*46:01

<400> 7330
Ser Ile Ile Phe Ile Lys Gly Thr Tyr
1               5


<210> 7331
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:03

<400> 7331
Ser Ile Ile Phe Ile Lys Gly Thr Tyr Ala
1               5                   10


<210> 7332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:03,HLA-A*03:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
      HLA-A*68:01

<400> 7332
Ser Leu Phe Gln Ser Phe Ser Glu Arg
1               5


<210> 7333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01

<400> 7333
Ser Leu Phe Gln Ser Ser Pro Glu Cys
1 5

<210> 7334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*31:01

<400> 7334
Ser Leu Phe Gln Ser Ser Pro Glu Arg
1 5

<210> 7335
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:03

<400> 7335
Ser Leu Phe Gln Ser Ser Pro Glu Arg Thr
1 5 10

<210> 7336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,
HLA-A*26:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*38:01

<400> 7336
Ser Leu Ile Glu Ser Glu Pro Leu Phe
1 5

<210> 7337
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 7337
Ser Leu Ile Glu Ser Glu Pro Leu Phe Thr Tyr
1 5 10

<210> 7338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:07

<400> 7338
Ser Leu Pro Glu Trp Glu Asp Ser Leu
1 5

<210> 7339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:07

<400> 7339
Ser Leu Pro Gln Ser Phe Pro Glu Ser
1 5

<210> 7340
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7340
Ser Leu Gln Ile Pro Val Ser Pro Ser Phe
1 5 10

<210> 7341
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02,HLA-B*15:01

<400> 7341
Ser Leu Arg Glu Val Asp Pro Asp Asp Ser Tyr
1 5 10

<210> 7342
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7342
Ser Leu Ser Leu Pro Gln Ser Phe
1 5

<210> 7343
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-B*15:01

<400> 7343
Ser Leu Ser Gln Ser Ser Pro Val Ser Ser Phe
1 5 10

<210> 7344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-B*13:02

<400> 7344
Ser Leu Thr Asp Ser Glu Ser Leu Ile
1 5

<210> 7345
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:03

<400> 7345
Ser Pro Glu Gly Asp Asp Thr Gln Ser Pro Leu
1 5 10

<210> 7346
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-C*07:02

<400> 7346
Ser Pro Glu Gly Lys Asp Ser Leu
1 5

<210> 7347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*38:01,HLA-B*55:01,HLA-C*07:02

<400> 7347
Ser Pro Glu Arg Thr His Ser Thr Phe
1 5

<210> 7348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*38:01,HLA-B*55:01,HLA-C*07:02

<400> 7348

Ser Pro Glu Arg Thr Gln Ser Thr Phe
1               5


<210> 7349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*03:03,
      HLA-C*05:01,HLA-C*07:02

<400> 7349
Ser Pro Glu Ser Ala Gln Ser Ala Phe
1               5


<210> 7350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*05:01,
      HLA-C*07:02

<400> 7350
Ser Pro Glu Ser Ala Gln Ser Thr Phe
1               5


<210> 7351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*35:01,HLA-B*55:01

<400> 7351
Ser Pro Glu Ser Asp Asp Thr Leu Tyr
1               5


<210> 7352
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:03

<400> 7352
Ser Pro Glu Ser Asp Asp Thr Leu Tyr Pro Leu
1 5 10

<210> 7353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7353
Ser Pro Glu Ser Pro Leu Gln Ser Pro
1 5

<210> 7354
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:03

<400> 7354
Ser Pro Glu Ser Pro Leu Gln Ser Pro Val Ile
1 5 10

<210> 7355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 7355
Ser Pro Glu Ser Thr Gln Ser Pro Phe
1 5

<210> 7356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*56:01

<400> 7356
Ser Pro Phe Glu Gly Phe Pro Gln Ser
1 5

<210> 7357
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7357
Ser Pro Phe Glu Gly Phe Pro Gln Ser Pro
1 5 10

<210> 7358
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02

<400> 7358
Ser Pro Phe Glu Gly Phe Pro Gln Ser Pro Leu
1 5 10

<210> 7359
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:03,HLA-B*07:02,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 7359
Ser Pro Phe Glu Gly Phe Pro Gln Ser Val
1 5 10

<210> 7360

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*56:01

<400> 7360
Ser Pro Phe Glu Gly Phe Pro Gln Ser Val Leu
1 5 10

<210> 7361
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7361
Ser Pro His Tyr Phe Pro Gln Ser Pro
1 5

<210> 7362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*55:01

<400> 7362
Ser Pro Leu Glu Gly Glu Asp Ser Leu
1 5

<210> 7363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7363
Ser Pro Leu Glu Ile Ser Gln Ser Pro
1 5

<210> 7364
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01

<400> 7364
Ser Pro Leu Gln Gly Glu Glu Phe
1 5

<210> 7365
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01

<400> 7365
Ser Pro Leu Gln Ile Pro Gly Ser Pro Ser Phe
1 5 10

<210> 7366
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 7366
Ser Pro Leu Gln Ile Pro Gln Ser Pro Leu
1 5 10

<210> 7367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 7367
Ser Pro Leu Gln Ile Pro Val Ser Pro

1 5

<210> 7368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*33:03,HLA-A*68:01,HLA-B*56:01

<400> 7368
Ser Pro Leu Gln Ile Pro Val Ser Arg
1 5

<210> 7369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7369
Ser Pro Leu Gln Ile Pro Val Ser Ser
1 5

<210> 7370
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-B*35:01

<400> 7370
Ser Pro Leu Gln Ile Pro Val Ser Ser Ser Phe
1 5 10

<210> 7371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 7371
Ser Pro Leu Gln Ile Val Pro Ser Leu
1               5


<210> 7372
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02,HLA-B*35:01,HLA-C*07:02

<400> 7372
Ser Pro Leu Gln Asn Pro Ala Ser Ser Phe
1               5                   10


<210> 7373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*08:01,HLA-B*56:01

<400> 7373
Ser Pro Leu Gln Arg Pro Val Ser Ser
1               5


<210> 7374
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*07:02,HLA-C*07:02

<400> 7374
Ser Pro Leu Gln Arg Pro Val Ser Ser Phe
1               5                   10


<210> 7375
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*54:01,HLA-B*56:01

<400> 7375
Ser Pro Leu Gln Ser Pro Glu Ser Ala
1 5

<210> 7376
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*51:01

<400> 7376
Ser Pro Leu Gln Ser Pro Val Ile
1 5

<210> 7377
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-B*55:01,HLA-B*56:01

<400> 7377
Ser Pro Leu Gln Ser Pro Val Ile Ser Phe
1 5 10

<210> 7378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-C*07:02

<400> 7378
Ser Pro Leu Gln Ser Pro Val Ser Ser Phe
1 5 10

<210> 7379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7379
Ser Pro Leu Tyr Phe Pro Gln Ser Pro
1 5

<210> 7380
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02

<400> 7380
Ser Pro Leu Tyr Phe Pro Gln Ser Pro Leu
1 5 10

<210> 7381
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02

<400> 7381
Ser Pro Pro Glu Gly Pro Val Gln Ser Pro Leu
1 5 10

<210> 7382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:01,HLA-C*07:02

<400> 7382
Ser Pro Gln Ser Pro Pro Glu Gly Met
1 5

<210> 7383
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02

<400> 7383
Ser Pro Ser Phe Ser Ser Thr Leu
1 5

<210> 7384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 7384
Ser Pro Ser Phe Ser Ser Thr Leu Leu
1 5

<210> 7385
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02

<400> 7385
Ser Pro Ser Phe Ser Ser Thr Leu Leu Ser Leu
1 5 10

<210> 7386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*56:01

<400> 7386
Ser Pro Ser Phe Ser Ser Thr Leu Val
1 5

<210> 7387
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02

<400> 7387
Ser Pro Ser Phe Ser Ser Thr Leu Val Ser Leu
1 5 10

<210> 7388
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-C*07:02

<400> 7388
Ser Pro Ser Ser Ser Ser Thr Leu
1 5

<210> 7389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 7389
Ser Pro Ser Ser Ser Ser Thr Leu Leu
1 5

<210> 7390
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-C*07:02

<400> 7390
Ser Pro Ser Ser Ser Ser Thr Leu Leu Ser Leu
1 5 10

<210> 7391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7391
Ser Pro Val Ile Ser Phe Ser Ser Ser
1 5

<210> 7392
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7392
Ser Pro Val Ser Ser Phe Pro Ser Ser
1 5

<210> 7393
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7393
Ser Pro Val Ser Ser Phe Pro Ser Ser Thr
1 5 10

<210> 7394
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:04,HLA-B*13:02

<400> 7394

Ser Gln Asn Arg Leu Leu Ile Leu Ile
1               5


<210> 7395
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 7395
Ser Gln Ser Ser Pro Glu Gly Lys Asp Ser Leu
1               5                   10


<210> 7396
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*13:02,
      HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,
      HLA-B*39:01,HLA-B*44:02,HLA-B*46:01,HLA-C*02:02,HLA-C*05:01,

<220>
<223> HLA-C*07:04,HLA-C*14:02,HLA-C*16:04

<400> 7396
Ser Gln Ser Ser Pro Val Ser Ser Phe
1               5


<210> 7397
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*32:01,HLA-A*68:01,HLA-B*07:02,HLA-B*46:01,HLA-B*58:01,
      HLA-C*03:03,HLA-C*03:04

<400> 7397
Ser Ser Phe Pro Ser Ser Thr Ser Ser Ser Leu
1               5                   10


<210> 7398
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-B*13:02

<400> 7398
Ser Ser Leu Gln Ser Pro Val Ser Ile
1 5

<210> 7399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*01:02

<400> 7399
Ser Ser Pro Glu Gly Lys Asp Ser Leu
1 5

<210> 7400
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01

<400> 7400
Ser Ser Pro Glu Arg Thr Gln Ser Thr Phe
1 5 10

<210> 7401
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*01:02

<400> 7401
Ser Ser Pro Glu Ser Ala Gln Ser Ala Phe
1 5 10

<210> 7402
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*57:01

<400> 7402
Ser Ser Pro Pro Arg Tyr Glu Phe Leu Trp
1 5 10

<210> 7403
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7403
Ser Ser Ser Pro Val Asp Glu Tyr
1 5

<210> 7404
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02

<400> 7404
Ser Ser Ser Ser Ser Thr Leu Leu Ser Leu Phe
1 5 10

<210> 7405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*57:01

<400> 7405
Ser Ser Ser Thr Leu Leu Ser Leu Phe
1 5

<210> 7406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*12:03

<400> 7406
Ser Ser Ser Thr Leu Val Ser Ile Phe
1 5

<210> 7407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*32:01,HLA-B*15:03,HLA-B*58:01

<400> 7407
Ser Ser Ser Val Met Ser Pro Ser Phe
1 5

<210> 7408
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7408
Ser Ser Thr Leu Val Ser Ile Phe
1 5

<210> 7409
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7409
Ser Ser Thr Leu Val Ser Leu Phe
1               5


<210> 7410
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*57:01,HLA-B*58:01

<400> 7410
Ser Ser Thr Pro Ser Ser Leu Pro Gln Ser Phe
1               5                   10


<210> 7411
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*11:01

<400> 7411
Ser Ser Thr Ser Ser Ser Leu Ser Lys
1               5


<210> 7412
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*58:01

<400> 7412
Ser Ser Val Met Ser Pro Ser Phe
1               5


<210> 7413
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;

HLA -A*68:02

<400> 7413
Ser Thr Phe Glu Gly Phe Ala Gln Ser Pro Leu
1 5 10

<210> 7414
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02,HLA-B*27:05

<400> 7414
Ser Thr Phe Glu Gly Phe Ala Gln Ser Ser Leu
1 5 10

<210> 7415
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:03,HLA-A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,
HLA-C*02:02,HLA-C*12:03

<400> 7415
Ser Thr Phe Glu Gly Phe Pro Gln Ser Leu
1 5 10

<210> 7416
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:02

<400> 7416
Ser Thr Phe Glu Gly Phe Pro Gln Ser Leu Leu
1 5 10

<210> 7417
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:02

<400> 7417
Ser Thr Phe Glu Gly Phe Pro Gln Ser Pro Leu
1 5 10

<210> 7418
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*57:01

<400> 7418
Ser Thr Leu Leu Ser Leu Phe Gln Ser Phe
1 5 10

<210> 7419
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01

<400> 7419
Ser Thr Pro Ser Ser Leu Pro Gln Ser Phe
1 5 10

<210> 7420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 7420
Ser Val Leu Gln Ile Pro Val Ser Ala
1 5

<210> 7421
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*56:01

<400> 7421
Ser Val Leu Gln Ile Pro Val Ser Ala Ala
1 5 10

<210> 7422
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*26:01,HLA-C*01:02

<400> 7422
Ser Val Met Ser Pro Ser Phe Ser Ser Glu
1 5 10

<210> 7423
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 7423
Ser Tyr Thr Leu Ala Ser Leu Leu
1 5

<210> 7424
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*24:02

<400> 7424
Ser Tyr Thr Leu Leu Ser Leu Phe
1 5

<210> 7425
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 7425
Ser Tyr Val Phe Val Asn Thr Leu
1 5

<210> 7426
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-C*03:03,HLA-C*03:04

<400> 7426
Thr Ala Thr Glu Ser Ala Ser Ser Ser Val Met
1 5 10

<210> 7427
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*49:01

<400> 7427
Thr Glu Ser Ala Ser Ser Ser Val
1 5

<210> 7428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*49:01

<400> 7428
Thr Glu Ser Ala Ser Ser Ser Val Met

1 5

<210> 7429
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*32:01,HLA-B*35:03,HLA-C*04:01,HLA-C*14:02

<400> 7429
Thr Phe Glu Gly Phe Pro Gln Ser Leu
1 5

<210> 7430
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*12:03

<400> 7430
Thr Gly Tyr Phe Pro Val Ile Phe
1 5

<210> 7431
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02

<400> 7431
Thr Gly Tyr Phe Pro Val Ile Phe Arg
1 5

<210> 7432
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*38:01

<400> 7432
Thr His Ser Pro Leu Gln Ile Val Pro Ser Leu
1               5                   10


<210> 7433
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*38:01

<400> 7433
Thr His Ser Thr Phe Glu Gly Phe
1               5


<210> 7434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*15:03

<400> 7434
Thr Lys Val Trp Val Gln Glu His Tyr
1               5


<210> 7435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-B*35:03,HLA-B*38:01,
      HLA-B*39:01,HLA-B*55:01,HLA-C*05:01

<400> 7435
Thr Leu Asp Glu Lys Val Asp Glu Leu
1               5


<210> 7436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 7436
Thr Leu Leu Ser Leu Phe Gln Ser Phe
1 5

<210> 7437
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01

<400> 7437
Thr Leu Tyr Pro Leu Gln Ser Pro Gln Ser Arg
1 5 10

<210> 7438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*07:02,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*55:01

<400> 7438
Thr Pro Ser Ser Leu Pro Gln Ser Phe
1 5

<210> 7439
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7439
Thr Gln Ser Pro Phe Glu Gly Phe
1 5

<210> 7440

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*37:01

<400> 7440
Thr Gln Ser Thr Phe Glu Gly Phe
1 5

<210> 7441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*33:03,
HLA-B*18:01,HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 7441
Thr Ser Leu Ser Leu Pro Gln Ser Phe
1 5

<210> 7442
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-C*07:04

<400> 7442
Thr Val Pro Ile Thr Phe Pro Ser Ser Tyr
1 5 10

<210> 7443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-A*24:02

<400> 7443
Val Asp Pro Asp Asp Ser Tyr Val Phe
1 5

<210> 7444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*40:01,HLA-B*49:01

<400> 7444
Val Glu Glu Arg Ala Gln Ala Ile Ile
1 5

<210> 7445
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-C*14:02

<400> 7445
Val Phe Val Asn Thr Leu Asp Leu
1 5

<210> 7446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*08:01

<400> 7446
Val Ile Lys Arg Lys Val Val Glu Phe
1 5

<210> 7447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 7447

Val Ile Trp Asp Val Leu Ser Gly Ile
1               5


<210> 7448
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 7448
Val Ile Trp Asp Val Leu Ser Gly Ile Gly Val
1               5                   10


<210> 7449
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*15:03

<400> 7449
Val Lys Gln Pro Ile Thr Lys Ala Glu Met
1               5                   10


<210> 7450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:01,HLA-A*02:03

<400> 7450
Val Leu Gln Ile Pro Val Ser Ala Ala
1               5


<210> 7451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 7451
Val Leu Ser Gly Ile Gly Val Arg Ala
1               5


<210> 7452
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*31:01

<400> 7452
Val Leu Ser Gly Ile Gly Val Arg Ala Gly Arg
1               5                   10


<210> 7453
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*51:01

<400> 7453
Val Pro Ile Thr Phe Pro Ser Ser
1               5


<210> 7454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*01:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
      HLA-B*35:01,HLA-B*35:03,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,

<220>
<223> HLA-B*55:01,HLA-B*56:01,HLA-C*02:02,HLA-C*07:02,HLA-C*14:02

<400> 7454
Val Pro Ile Thr Phe Pro Ser Ser Tyr
1               5


<210> 7455

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*30:02,HLA-B*35:01,HLA-B*55:01

<400> 7455
Val Pro Asn Ser Ser Pro Pro Arg Tyr
1 5

<210> 7456
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*23:01,HLA-B*07:02,HLA-B*35:01,HLA-B*55:01

<400> 7456
Val Pro Asn Ser Ser Pro Pro Arg Tyr Glu Phe
1 5 10

<210> 7457
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01

<400> 7457
Val Gln Glu His Tyr Leu Glu Tyr
1 5

<210> 7458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*39:01

<400> 7458
Val Gln Ser Pro Leu Gln Asn Pro Ala
1 5

<210> 7459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*58:01,HLA-C*03:03,HLA-C*03:04

<400> 7459
Val Ser Ala Ala Ser Ser Ser Thr Leu
1 5

<210> 7460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*01:02

<400> 7460
Val Ser Pro Ser Phe Ser Ser Thr Leu
1 5

<210> 7461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*01:02

<400> 7461
Val Ser Pro Ser Ser Ser Ser Thr Leu
1 5

<210> 7462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*46:01

<400> 7462
Val Ser Arg Ser Phe Ser Ser Thr Leu

1 5

<210> 7463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -C*03:04

<400> 7463
Val Ser Ser Ser Ser Ser Ser Thr Leu
1 5

<210> 7464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*03:02,HLA-A*11:01

<400> 7464
Val Val Glu Phe Leu Ala Met Leu Lys
1 5

<210> 7465
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*29:02

<400> 7465
Val Trp Val Gln Glu His Tyr Leu Glu Tyr
1 5 10

<210> 7466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 7466
Trp Val Gln Glu His Tyr Leu Glu Tyr
1               5


<210> 7467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*35:01,HLA-B*35:03,
      HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 7467
Tyr Pro Leu Gln Ser Pro Gln Ser Arg
1               5


<210> 7468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*13:02,HLA-B*27:05,
      HLA-C*02:02

<400> 7468
Tyr Gln Val Lys Gln Pro Ile Thr Lys
1               5


<210> 7469
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
      HLA -B*51:01

<400> 7469
Tyr Thr Gly Tyr Phe Pro Val Ile
1               5


<210> 7470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*24:02

<400> 7470
Tyr Thr Gly Tyr Phe Pro Val Ile Phe
1 5

<210> 7471
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:02

<400> 7471
Tyr Thr Gly Tyr Phe Pro Val Ile Phe Arg
1 5 10

<210> 7472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*02:01,HLA-A*02:04,HLA-A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 7472
Tyr Thr Leu Asp Glu Lys Val Asp Glu Leu
1 5 10

<210> 7473
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*39:01

<400> 7473
Tyr Thr Ser Ser Ser Asp Thr Leu
1 5

<210> 7474
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -A*68:02,HLA-B*35:03

<400> 7474
Tyr Thr Ser Ser Ser Asp Thr Leu Leu
1 5

<210> 7475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC1; ENSG00000155495;
HLA -B*13:02,HLA-B*46:01,HLA-C*03:03,HLA-C*03:04

<400> 7475
Tyr Val Phe Val Asn Thr Leu Asp Leu
1 5

<210> 7476
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,
HLA-B*49:01

<400> 7476
Ala Glu Glu Pro Val Thr Glu Ala Glu Met
1 5 10

<210> 7477
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*38:01,HLA-B*40:01

<400> 7477
Ala Glu Glu Pro Val Thr Glu Ala Glu Met Leu
1 5 10

<210> 7478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 7478
Ala Glu Leu Val Glu Phe Leu Leu Leu
1 5

<210> 7479
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*44:02,HLA-B*44:03

<400> 7479
Ala Glu Leu Val Glu Phe Leu Leu Leu Lys Tyr
1 5 10

<210> 7480
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*44:02,HLA-B*49:01

<400> 7480
Ala Glu Met Leu Met Ile Val Ile
1 5

<210> 7481
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 7481
Ala Glu Met Leu Met Ile Val Ile Lys Tyr

1 5 10

<210> 7482
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*23:01,HLA-B*15:03

<400> 7482
Ala Lys Leu Asn Asn Thr Val Pro Ser Ser Phe
1 5 10

<210> 7483
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:07,HLA-A*23:01,HLA-B*15:01

<400> 7483
Ala Leu Ile Glu Val Gly Pro Asp His Phe
1 5 10

<210> 7484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*55:01

<400> 7484
Ala Leu Lys Asp Val Glu Glu Arg Val
1 5

<210> 7485
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 7485
Ala Leu Lys Asp Val Glu Glu Arg Val Gln Ala
1               5                   10


<210> 7486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*02:07

<400> 7486
Ala Ser Glu Glu Val Ile Trp Glu Val
1               5


<210> 7487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -C*05:01

<400> 7487
Ala Ser Glu Ser Leu Ser Val Met
1               5


<210> 7488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
      HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02

<400> 7488
Ala Ser Ser Ala Ser Ser Thr Leu Tyr
1               5


<210> 7489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*23:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*27:02,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*16:04

<400> 7489
Ala Ser Ser Thr Leu Tyr Leu Val Phe
1 5

<210> 7490
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*68:02

<400> 7490
Ala Thr Ile Asp Thr Ala Asp Asp Ala Thr Val
1 5 10

<210> 7491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*15:01,HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*03:03,HLA-C*03:04

<400> 7491
Ala Thr Val Met Ala Ser Glu Ser Leu
1 5

<210> 7492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:03,HLA-A*03:02,HLA-B*13:02,HLA-B*15:03,HLA-B*27:05,
HLA-B*58:01

<400> 7492
Cys Val Phe Ala Asn Thr Val Gly Leu
1 5

<210> 7493
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*51:01,HLA-C*07:06

<400> 7493
Asp Ala Leu Lys Asp Val Glu Glu Arg
1 5

<210> 7494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*18:01

<400> 7494
Asp Glu Gly Met Pro Glu Asn Ser Leu
1 5

<210> 7495
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*40:01

<400> 7495
Asp Glu Gly Met Pro Glu Asn Ser Leu Leu
1 5 10

<210> 7496
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01

<400> 7496
Asp Glu Lys Val Ala Glu Leu Val

1 5

<210> 7497
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01

<400> 7497
Asp Glu Lys Val Ala Glu Leu Val Glu Phe
1 5 10

<210> 7498
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*38:01,HLA-B*39:01,HLA-C*05:01

<400> 7498
Asp Asn Asp Ser Pro Thr Ser Val Glu Leu
1 5 10

<210> 7499
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01

<400> 7499
Asp Ser Glu Ser Ser Phe Thr Tyr
1 5

<210> 7500
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*08:01,HLA-B*51:01,HLA-C*01:02

<400> 7500
Asp Ser Pro Thr Ser Val Glu Leu
1               5


<210> 7501
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*33:01

<400> 7501
Asp Ser Pro Thr Ser Val Glu Leu Glu Asp Trp
1               5                   10


<210> 7502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-B*35:01,HLA-B*35:03,
      HLA-B*39:01

<400> 7502
Asp Thr Ala Asp Asp Ala Thr Val Met
1               5


<210> 7503
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*68:01

<400> 7503
Asp Thr Ala Asp Asp Ala Thr Val Met Ala
1               5                   10


<210> 7504
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01

<400> 7504
Asp Val Glu Glu Arg Val Gln Ala Thr Ile
1 5 10

<210> 7505
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*33:01,HLA-A*33:03

<400> 7505
Asp Tyr Phe Pro Val Ile Leu Lys
1 5

<210> 7506
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*24:02,HLA-A*29:02,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02

<400> 7506
Asp Tyr Phe Pro Val Ile Leu Lys Arg
1 5

<210> 7507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -C*05:01

<400> 7507
Glu Ala Glu Glu Pro Val Thr Glu Ala
1 5

<210> 7508
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*51:01,HLA-C*03:03,HLA-C*03:04

<400> 7508
Glu Ala Ser Ser Ala Ser Ser Thr Leu
1 5

<210> 7509
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*68:01,
HLA-B*35:01

<400> 7509
Glu Ala Ser Ser Ala Ser Ser Thr Leu Tyr
1 5 10

<210> 7510
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:03

<400> 7510
Glu Glu Ala Ser Ser Ala Ser Ser Thr Leu
1 5 10

<210> 7511
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*26:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 7511
Glu Glu Ala Ser Ser Ala Ser Ser Thr Leu Tyr
1 5 10

<210> 7512
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*40:01

<400> 7512
Glu Glu Glu Ala Ser Ser Ala Ser Ser Thr Leu
1 5 10

<210> 7513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*49:01

<400> 7513
Glu Glu Glu Val Pro Ser Gly Val Ile
1 5

<210> 7514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*44:02,HLA-B*44:03

<400> 7514
Glu Glu Pro Val Thr Glu Ala Glu Met
1 5

<210> 7515
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*40:01

<400> 7515
Glu Glu Pro Val Thr Glu Ala Glu Met Leu

1 5 10

<210> 7516
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01

<400> 7516
Glu Glu Val Ile Trp Glu Val Leu
1 5

<210> 7517
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*49:01

<400> 7517
Glu Glu Val Pro Ser Gly Val Ile
1 5

<210> 7518
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 7518
Glu Glu Val Pro Ser Gly Val Ile Pro Asn Leu
1 5 10

<210> 7519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*33:01,HLA-A*33:03

<400> 7519
Glu His Phe Val Tyr Gly Glu Pro Arg
1               5


<210> 7520
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 7520
Glu Leu Val Glu Phe Leu Leu Leu Lys Tyr
1               5                   10


<210> 7521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*01:01,HLA-A*23:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:03,
      HLA-B*18:01,HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,HLA-C*07:01

<400> 7521
Glu Met Leu Met Ile Val Ile Lys Tyr
1               5


<210> 7522
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -B*35:01,HLA-B*35:03

<400> 7522
Glu Pro Val Thr Glu Ala Glu Met
1               5


<210> 7523
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:03

<400> 7523
Glu Pro Val Thr Glu Ala Glu Met Leu
1 5

<210> 7524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:03

<400> 7524
Glu Pro Val Thr Glu Ala Glu Met Leu Met
1 5 10

<210> 7525
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*08:01

<400> 7525
Glu Ser Ile Lys Lys Lys Val Leu
1 5

<210> 7526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*68:02

<400> 7526
Glu Val Gly Pro Asp His Phe Cys Val
1 5

<210> 7527
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01

<400> 7527
Glu Val Gly Pro Asp His Phe Cys Val Phe
1 5 10

<210> 7528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*26:01,HLA-A*68:02

<400> 7528
Glu Val Ile Trp Glu Val Leu Asn Ala
1 5

<210> 7529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:02

<400> 7529
Glu Val Ile Trp Glu Val Leu Asn Ala Val
1 5 10

<210> 7530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*39:01,HLA-B*44:03,HLA-C*07:04,HLA-C*07:06,HLA-C*12:03

<400> 7530
Glu Val Leu Asn Ala Val Gly Val Tyr
1 5

<210> 7531
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 7531
Glu Val Leu Asn Ala Val Gly Val Tyr Ala
1 5 10

<210> 7532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02

<400> 7532
Glu Val Pro His Ser Ser Pro Pro Tyr
1 5

<210> 7533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01

<400> 7533
Glu Val Pro His Ser Ser Pro Pro Tyr Tyr
1 5 10

<210> 7534
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02

<400> 7534
Glu Val Pro Ser Gly Val Ile Pro Asn Leu

1 5 10

<210> 7535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*68:02,HLA-B*13:02,
HLA-B*55:01

<400> 7535
Phe Leu Ala Lys Leu Asn Asn Thr Val
1 5

<210> 7536
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*54:01

<400> 7536
Phe Pro Val Ile Leu Lys Arg Ala
1 5

<210> 7537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01

<400> 7537
Phe Ser Glu Glu Ser Ser Ser Gln Lys
1 5

<210> 7538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -C*03:03,HLA-C*03:04

<400> 7538
Phe Ser Thr Ser Ser Ser Leu Ile Leu
1               5


<210> 7539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*01:01,HLA-A*68:02,HLA-B*13:02

<400> 7539
Phe Thr Tyr Thr Leu Asp Glu Lys Val
1               5


<210> 7540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
      HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*68:02,HLA-B*15:03,
      HLA-B*35:03,HLA-B*40:01,HLA-B*46:01,HLA-B*51:01,HLA-B*55:01,

<220>
<223> HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,
      HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 7540
Phe Val Tyr Gly Glu Pro Arg Glu Leu
1               5


<210> 7541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*02:01

<400> 7541
Phe Val Tyr Gly Glu Pro Arg Glu Leu Leu
1               5                   10

<210> 7542
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 7542
Gly Glu Asp Thr Gly Thr Cys Gln Gly Leu
1 5 10

<210> 7543
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*44:02,HLA-B*44:03

<400> 7543
Gly Glu Pro Arg Glu Leu Leu Thr Lys Val Trp
1 5 10

<210> 7544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*26:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-C*01:02

<400> 7544
Gly Leu Pro Asp Ser Glu Ser Ser Phe
1 5

<210> 7545
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*46:01

<400> 7545

Gly Leu Pro Asp Ser Glu Ser Ser Phe Thr Tyr
1               5                   10


<210> 7546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -B*07:02,HLA-C*07:02

<400> 7546
Gly Pro Arg Ala His Ser Glu Ser Ile
1               5


<210> 7547
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -B*07:02,HLA-B*56:01

<400> 7547
Gly Pro Ser Gln Ser Pro Leu Ser Ser Cys
1               5                   10


<210> 7548
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*25:01

<400> 7548
Gly Val Ile Pro Asn Leu Thr Glu Ser Ile
1               5                   10


<210> 7549
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*32:01,HLA-B*15:01

<400> 7549
Gly Val Tyr Ala Gly Arg Glu His Phe
1 5

<210> 7550
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03

<400> 7550
Gly Val Tyr Ala Gly Arg Glu His Phe Val
1 5 10

<210> 7551
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*03:01,HLA-A*29:02,HLA-A*30:02

<400> 7551
Gly Val Tyr Ala Gly Arg Glu His Phe Val Tyr
1 5 10

<210> 7552
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:03

<400> 7552
His Pro Thr Asp Glu Glu Glu Glu Glu Ala
1 5 10

<210> 7553
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*57:01

<400> 7553
His Ser Ser Pro Pro Tyr Tyr Glu Phe
1 5

<210> 7554
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01

<400> 7554
Ile Glu Val Gly Pro Asp His Phe
1 5

<210> 7555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*03:01

<400> 7555
Ile Ile Leu Ser Val Ile Phe Ile Lys
1 5

<210> 7556
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*51:01,HLA-B*56:01

<400> 7556
Ile Pro Asn Leu Thr Glu Ser Ile
1 5

<210> 7557
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*56:01

<400> 7557
Ile Pro Ser Ser Pro Pro Gln Gly Pro
1 5

<210> 7558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*57:01

<400> 7558
Ile Val Ile Lys Tyr Lys Asp Tyr Phe
1 5

<210> 7559
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*40:02

<400> 7559
Lys Asp Val Glu Glu Arg Val Gln Ala
1 5

<210> 7560
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01

<400> 7560
Lys Asp Val Glu Glu Arg Val Gln Ala Thr Ile
1 5 10

<210> 7561
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*37:01

<400> 7561
Lys Asp Tyr Phe Pro Val Ile Leu
1 5

<210> 7562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*03:01,HLA-A*03:02

<400> 7562
Lys Asp Tyr Phe Pro Val Ile Leu Lys
1 5

<210> 7563
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*03:01,HLA-A*03:02,HLA-A*23:01,HLA-A*24:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-C*01:02

<400> 7563
Lys Leu Asn Asn Thr Val Pro Ser Ser Phe
1 5 10

<210> 7564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*27:05,HLA-B*58:01

<400> 7564
Lys Val Ala Glu Leu Val Glu Phe Leu
1 5

<210> 7565
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:04

<400> 7565
Lys Val Ala Glu Leu Val Glu Phe Leu Leu
1 5 10

<210> 7566
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*03:01

<400> 7566
Lys Val Leu Glu Phe Leu Ala Lys
1 5

<210> 7567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*24:02,HLA-A*31:01,HLA-B*57:01

<400> 7567
Lys Val Leu Glu Phe Leu Ala Lys Leu
1 5

<210> 7568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:04

<400> 7568
Lys Val Trp Val Gln Gly His Tyr Leu
1               5


<210> 7569
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*03:01,HLA-A*29:02

<400> 7569
Lys Val Trp Val Gln Gly His Tyr Leu Glu Tyr
1               5                   10


<210> 7570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*24:02

<400> 7570
Lys Tyr Lys Asp Tyr Phe Pro Val Ile
1               5


<210> 7571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*24:02

<400> 7571
Lys Tyr Lys Asp Tyr Phe Pro Val Ile Leu
1               5                   10


<210> 7572
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;

HLA -B*08:01,HLA-B*51:01

<400> 7572
Leu Ala Lys Leu Asn Asn Thr Val
1 5

<210> 7573
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*37:01

<400> 7573
Leu Asp Glu Lys Val Ala Glu Leu
1 5

<210> 7574
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:04

<400> 7574
Leu Leu Phe Gly Leu Ala Leu Ile
1 5

<210> 7575
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 7575
Leu Leu Phe Gly Leu Ala Leu Ile Glu Val
1 5 10

<210> 7576
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*55:01,HLA-C*05:01

<400> 7576
Leu Pro Asp Ser Glu Ser Ser Phe
1 5

<210> 7577
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-B*35:01,HLA-B*55:01,HLA-C*03:03

<400> 7577
Leu Pro Asp Ser Glu Ser Ser Phe Thr Tyr
1 5 10

<210> 7578
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*57:01,HLA-B*58:01

<400> 7578
Leu Ser Val Met Ser Ser Asn Val Ser Phe
1 5 10

<210> 7579
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -C*05:01

<400> 7579
Leu Thr Asp Glu Gly Ser Asp Asp Glu Gly Met
1 5 10

<210> 7580
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-A*29:02

<400> 7580
Leu Val Glu Phe Leu Leu Leu Lys Tyr
1 5

<210> 7581
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*39:01,HLA-B*46:01,
HLA-C*05:01,HLA-C*12:03

<400> 7581
Leu Val Phe Ser Pro Ser Ser Phe
1 5

<210> 7582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 7582
Leu Tyr Leu Val Phe Ser Pro Ser Ser Phe
1 5 10

<210> 7583
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*51:01

<400> 7583
Met Ala Ser Glu Ser Leu Ser Val
1 5

<210> 7584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-B*07:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,

<220>
<223> HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,
HLA-C*07:04,HLA-C*07:06,HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,
HLA-C*16:02,HLA-C*16:04

<400> 7584
Met Ala Ser Glu Ser Leu Ser Val Met
1 5

<210> 7585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01

<400> 7585
Met Glu Leu Leu Phe Gly Leu Ala Leu
1 5

<210> 7586
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01,HLA-C*07:01

<400> 7586
Met Leu Met Ile Val Ile Lys Tyr
1 5

<210> 7587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:03,HLA-B*51:01

<400> 7587
Met Pro Glu Asn Ser Leu Leu Ile Ile
1 5

<210> 7588
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:01,HLA-B*35:03

<400> 7588
Met Pro Glu Asn Ser Leu Leu Ile Ile Ile Leu
1 5 10

<210> 7589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01

<400> 7589
Met Pro Pro Val Pro Gly Val Pro Phe
1 5

<210> 7590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:02,HLA-C*07:06

<400> 7590
Asn Ala Val Gly Val Tyr Ala Gly Arg
1 5

<210> 7591
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*27:05,HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,
HLA-B*39:01,HLA-B*40:01

<400> 7591
Asn Asp Ser Pro Thr Ser Val Glu Leu
1 5

<210> 7592
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-B*57:01,HLA-B*58:01

<400> 7592
Asn Thr Val Pro Ser Ser Phe Pro Ser Trp
1 5 10

<210> 7593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -C*05:01

<400> 7593
Asn Val Asp Asn Asp Ser Pro Thr Ser Val
1 5 10

<210> 7594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7594
Arg Ala His Ser Glu Ser Ile Lys Lys
1 5

<210> 7595
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*57:01

<400> 7595
Arg Ala Arg Glu Phe Met Glu Leu Leu Phe
1 5 10

<210> 7596
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:02,HLA-B*44:03

<400> 7596
Arg Glu Val Pro His Ser Ser Pro Pro Tyr
1 5 10

<210> 7597
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:02,HLA-B*44:03

<400> 7597
Arg Glu Val Pro His Ser Ser Pro Pro Tyr Tyr
1 5 10

<210> 7598
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*37:01

<400> 7598
Ser Ala Ser Ser Thr Leu Tyr Leu

1 5

<210> 7599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:04,HLA-A*68:02,HLA-B*13:02,HLA-C*02:02

<400> 7599
Ser Ala Ser Ser Thr Leu Tyr Leu Val
1 5

<210> 7600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:01

<400> 7600
Ser Ala Ser Ser Thr Leu Tyr Leu Val Phe
1 5 10

<210> 7601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*40:01

<400> 7601
Ser Glu Glu Val Ile Trp Glu Val Leu
1 5

<210> 7602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*37:01,HLA-B*44:03

<400> 7602
Ser Glu Ser Ile Lys Lys Lys Val Leu
1               5


<210> 7603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*23:01,HLA-A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
      HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
      HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 7603
Ser Glu Ser Ser Phe Thr Tyr Thr Leu
1               5


<210> 7604
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -C*14:02

<400> 7604
Ser Phe Ser Thr Ser Ser Ser Leu
1               5


<210> 7605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*23:01

<400> 7605
Ser Phe Ser Thr Ser Ser Ser Leu Ile
1               5


<210> 7606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*08:01

<400> 7606
Ser Ile Lys Lys Lys Val Leu Glu Phe
1 5

<210> 7607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 7607
Ser Leu Leu Ile Ile Ile Leu Ser Val
1 5

<210> 7608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 7608
Ser Leu Ser Val Met Ser Ser Asn Val
1 5

<210> 7609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*56:01

<400> 7609
Ser Pro Ser Ser Phe Ser Thr Ser Ser
1 5

<210> 7610
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*56:01,HLA-C*07:02

<400> 7610
Ser Pro Ser Ser Phe Ser Thr Ser Ser Ser Leu
1 5 10

<210> 7611
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:02

<400> 7611
Ser Ser Ala Ser Ser Thr Leu Tyr
1 5

<210> 7612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01

<400> 7612
Ser Ser Ala Ser Ser Thr Leu Tyr Leu
1 5

<210> 7613
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*57:01

<400> 7613
Ser Ser Ala Ser Ser Thr Leu Tyr Leu Val Phe
1 5 10

<210> 7614

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02,
HLA-B*27:05,HLA-C*07:06

<400> 7614
Ser Ser Phe Ser Glu Glu Ser Ser Ser Gln Lys
1 5 10

<210> 7615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*32:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,HLA-B*40:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*07:02

<400> 7615
Ser Ser Phe Ser Thr Ser Ser Ser Leu
1 5

<210> 7616
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*11:01

<400> 7616
Ser Ser Phe Thr Tyr Thr Leu Asp Glu Lys
1 5 10

<210> 7617
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*57:01

<400> 7617

Ser Ser Pro Pro Tyr Tyr Glu Phe Leu Trp
1               5                   10


<210> 7618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
      HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
      HLA-B*07:02,HLA-B*08:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,

<220>
<223> HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,
      HLA-B*44:03,HLA-B*46:01,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,
      HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*07:02,HLA-C*07:04,
      HLA-C*07:06,HLA-C*14:02,HLA-C*16:04

<400> 7618
Ser Val Met Ser Ser Asn Val Ser Phe
1               5


<210> 7619
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*32:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*55:01,
      HLA-C*03:03,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04

<400> 7619
Thr Ala Asp Asp Ala Thr Val Met
1               5


<210> 7620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -B*35:03,HLA-B*39:01,HLA-B*54:01,HLA-C*05:01

<400> 7620
Thr Ala Asp Asp Ala Thr Val Met Ala
1               5

<210> 7621
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*49:01

<400> 7621
Thr Glu Ala Glu Met Leu Met Ile
1 5

<210> 7622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01,HLA-B*49:01

<400> 7622
Thr Glu Ala Glu Met Leu Met Ile Val
1 5

<210> 7623
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*49:01

<400> 7623
Thr Glu Ala Glu Met Leu Met Ile Val Ile
1 5 10

<210> 7624
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -C*05:01

<400> 7624
Thr Ile Asp Thr Ala Asp Asp Ala Thr Val

1 5 10

<210> 7625
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:03,HLA-B*55:01,HLA-C*05:01

<400> 7625
Thr Ile Asp Thr Ala Asp Asp Ala Thr Val Met
1 5 10

<210> 7626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*32:01,
HLA-B*08:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*55:01,
HLA-C*04:01,HLA-C*05:01

<400> 7626
Thr Leu Asp Glu Lys Val Ala Glu Leu
1 5

<210> 7627
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:03

<400> 7627
Thr Val Met Ala Ser Glu Ser Leu
1 5

<210> 7628
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;

HLA -A*02:03,HLA-A*25:01,HLA-B*13:02

<400> 7628
Thr Val Met Ala Ser Glu Ser Leu Ser Val
1 5 10

<210> 7629
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*25:01,HLA-A*26:01,HLA-B*15:01,HLA-B*35:01,HLA-B*35:03,
HLA-C*01:02,HLA-C*04:01,HLA-C*07:02,HLA-C*07:04,HLA-C*14:02

<400> 7629
Thr Val Met Ala Ser Glu Ser Leu Ser Val Met
1 5 10

<210> 7630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:07,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,
HLA-B*57:01,HLA-B*58:01

<400> 7630
Thr Val Pro Ser Ser Phe Pro Ser Trp
1 5

<210> 7631
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -C*05:01

<400> 7631
Val Ala Glu Leu Val Glu Phe Leu
1 5

<210> 7632
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,
HLA-B*37:01,HLA-B*49:01,HLA-B*56:01,HLA-C*12:03,HLA-C*16:04

<400> 7632
Val Asp Asn Asp Ser Pro Thr Ser Val
1 5

<210> 7633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 7633
Val Glu Glu Arg Val Gln Ala Thr Ile
1 5

<210> 7634
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7634
Val Glu Phe Leu Leu Leu Lys Tyr
1 5

<210> 7635
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*23:01,HLA-C*14:02

<400> 7635
Val Phe Ala Asn Thr Val Gly Leu
1 5

<210> 7636
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*24:02

<400> 7636
Val Gly Pro Asp His Phe Cys Val Phe
1 5

<210> 7637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:07,HLA-A*24:02,HLA-C*01:02

<400> 7637
Val Ile Pro Asn Leu Thr Glu Ser Ile
1 5

<210> 7638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*51:01,HLA-B*55:01

<400> 7638
Val Ile Trp Glu Val Leu Asn Ala Val
1 5

<210> 7639
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:07

<400> 7639

Val Ile Trp Glu Val Leu Asn Ala Val Gly Val
1               5                   10


<210> 7640
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*03:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
      HLA-B*39:01,HLA-B*46:01,HLA-C*07:04

<400> 7640
Val Leu Asn Ala Val Gly Val Tyr
1               5


<210> 7641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
      HLA-A*03:02,HLA-B*13:02,HLA-B*46:01,HLA-B*56:01

<400> 7641
Val Leu Asn Ala Val Gly Val Tyr Ala
1               5


<210> 7642
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*31:01

<400> 7642
Val Leu Asn Ala Val Gly Val Tyr Ala Gly Arg
1               5                   10


<210> 7643
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*55:01

<400> 7643
Val Met Ala Ser Glu Ser Leu Ser Val
1 5

<210> 7644
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*15:01,HLA-B*46:01,HLA-C*14:02

<400> 7644
Val Met Ala Ser Glu Ser Leu Ser Val Met
1 5 10

<210> 7645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*23:01,HLA-A*32:01,HLA-B*37:01,HLA-B*46:01,HLA-C*04:01

<400> 7645
Val Met Ser Ser Asn Val Ser Phe
1 5

<210> 7646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*51:01,HLA-B*56:01

<400> 7646
Val Pro Gly Val Pro Phe Arg Asn Val
1 5

<210> 7647
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:02,HLA-B*35:01

<400> 7647
Val Pro His Ser Ser Pro Pro Tyr
1 5

<210> 7648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:02,HLA-B*35:01

<400> 7648
Val Pro His Ser Ser Pro Pro Tyr Tyr
1 5

<210> 7649
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*35:01

<400> 7649
Val Pro His Ser Ser Pro Pro Tyr Tyr Glu Phe
1 5 10

<210> 7650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,
HLA-A*30:01,HLA-A*68:01,HLA-A*68:02,HLA-B*07:02,HLA-B*35:01,
HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*51:01,HLA-B*54:01,

<220>
<223> HLA-B*55:01,HLA-B*56:01,HLA-B*58:01,HLA-C*07:02,HLA-C*07:04,
HLA-C*16:01,HLA-C*16:02

<400> 7650

Val Pro Ser Gly Val Ile Pro Asn Leu
1               5


<210> 7651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -B*56:01

<400> 7651
Val Pro Ser Gly Val Ile Pro Asn Leu Thr
1               5                   10


<210> 7652
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -B*51:01

<400> 7652
Val Pro Ser Ser Phe Pro Ser Trp
1               5


<210> 7653
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
      HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
      HLA-C*07:01

<400> 7653
Val Gln Gly His Tyr Leu Glu Tyr
1               5


<210> 7654
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;

HLA -A*29:02

<400> 7654
Val Trp Val Gln Gly His Tyr Leu Glu Tyr
1 5 10

<210> 7655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*24:02

<400> 7655
Val Tyr Ala Gly Arg Glu His Phe Val
1 5

<210> 7656
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*29:02

<400> 7656
Val Tyr Ala Gly Arg Glu His Phe Val Tyr
1 5 10

<210> 7657
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02,HLA-C*16:01

<400> 7657
Val Tyr Gly Glu Pro Arg Glu Leu
1 5

<210> 7658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*23:01,HLA-A*24:02

<400> 7658
Val Tyr Gly Glu Pro Arg Glu Leu Leu
1 5

<210> 7659
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*33:01

<400> 7659
Val Tyr Gly Glu Pro Arg Glu Leu Leu Thr Lys
1 5 10

<210> 7660
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*49:01

<400> 7660
Trp Glu Val Leu Asn Ala Val Gly Val
1 5

<210> 7661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 7661
Trp Val Gln Gly His Tyr Leu Glu Tyr
1 5

<210> 7662
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*29:02

<400> 7662
Tyr Ala Gly Arg Glu His Phe Val Tyr
1 5

<210> 7663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -B*49:01

<400> 7663
Tyr Glu Ala Glu Glu Pro Val Thr Glu
1 5

<210> 7664
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 7664
Tyr Glu Ala Glu Glu Pro Val Thr Glu Ala
1 5 10

<210> 7665
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*33:03

<400> 7665
Tyr Phe Pro Val Ile Leu Lys Arg
1 5

<210> 7666

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-A*02:03,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,
HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-C*02:02,HLA-C*07:04,HLA-C*14:02

<400> 7666
Tyr Leu Val Phe Ser Pro Ser Ser Phe
1 5

<210> 7667
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*25:01,
HLA-A*26:01,HLA-A*68:02

<400> 7667
Tyr Thr Leu Asp Glu Lys Val Ala Glu Leu
1 5 10

<210> 7668
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MAGEC2; ENSG00000046774;
HLA -A*68:02

<400> 7668
Tyr Thr Leu Asp Glu Lys Val Ala Glu Leu Val
1 5 10

<210> 7669
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*40:01,HLA-B*49:01

<400> 7669

Ala Glu Leu Met Gln Gln Phe Asp Val Ile
1               5                   10


<210> 7670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,
      HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 7670
Ala Glu Gln Gln Pro Gln Pro Gln Phe
1               5


<210> 7671
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 7671
Ala Glu Gln Gln Pro Gln Pro Gln Phe Ile
1               5                   10


<210> 7672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:02,HLA-B*49:01

<400> 7672
Ala Glu Arg Leu Asp Val Phe Ser Val
1               5


<210> 7673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -B*49:01

<400> 7673
Ala Glu Arg Ser Gln Arg Ser Gln Ile
1 5

<210> 7674
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 7674
Ala Glu Ser Ile Leu Lys Glu Ala Gln Ile
1 5 10

<210> 7675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*46:01,
HLA-B*55:01,HLA-C*02:02,HLA-C*16:01

<400> 7675
Ala Gly Ala Glu Arg Leu Asp Val Phe
1 5

<210> 7676
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*57:01

<400> 7676
Ala Gly Ala Leu Glu Asp Phe Pro Ala Arg Trp
1 5 10

<210> 7677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*55:01

<400> 7677
Ala Leu Ala Glu Leu Leu Asp Asn Ala
1 5

<210> 7678
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:02

<400> 7678
Ala Leu Ala Glu Leu Leu Asp Asn Ala Arg
1 5 10

<210> 7679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*02:07,HLA-B*44:02,HLA-B*44:03

<400> 7679
Ala Leu Glu Asp Phe Pro Ala Arg Trp
1 5

<210> 7680
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04

<400> 7680
Ala Leu Glu Asp Phe Pro Ala Arg Trp Ser Phe
1 5 10

<210> 7681
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02

<400> 7681
Ala Leu Glu Asp Val Glu Ala Lys Gln Lys
1 5 10

<210> 7682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01

<400> 7682
Ala Leu Leu Lys Glu Asp Asn Leu Leu
1 5

<210> 7683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04

<400> 7683
Ala Leu Leu Leu Gln Lys Leu Gln Leu
1 5

<210> 7684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03,HLA-A*02:07

<400> 7684
Ala Leu Pro Glu Asn Val Lys Leu Ala
1 5

<210> 7685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7685
Ala Met Glu Leu Ser Ile Ile Tyr Lys
1 5

<210> 7686
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 7686
Ala Met Glu Leu Ser Ile Ile Tyr Lys Tyr
1 5 10

<210> 7687
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7687
Ala Met Lys Arg Ser Ser Ser Leu
1 5

<210> 7688
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*37:01

<400> 7688
Ala Asn Ser Thr Thr His Ser Phe
1 5

<210> 7689
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*13:02,HLA-B*27:05

<400> 7689
Ala Gln Ala Ala Ser Trp Glu Met
1 5

<210> 7690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01

<400> 7690
Ala Gln Pro Thr Glu Gly Cys Leu Lys
1 5

<210> 7691
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*38:01

<400> 7691
Ala Arg Asp Ala Gly Ala Glu Arg Leu
1 5

<210> 7692
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:05

<400> 7692

Ala Arg Val Ser Val Ser Gly Ser Cys Lys
1               5                   10


<210> 7693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*11:01,HLA-A*31:01

<400> 7693
Ala Ser Asp Ile Ile Tyr Phe Gly Arg
1               5


<210> 7694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7694
Ala Ser Ser Gln Ser Thr Pro Val Lys
1               5


<210> 7695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*07:02,HLA-B*15:01

<400> 7695
Ala Val Lys Ile Ala Glu Ser Ile Leu
1               5


<210> 7696
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7696
Ala Val Lys Ile Ala Glu Ser Ile Leu Lys
1               5                   10


<210> 7697
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*23:01,HLA-A*24:02

<400> 7697
Ala Tyr Thr Ser Val Leu Tyr Phe
1               5


<210> 7698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*49:01

<400> 7698
Cys Glu Glu Glu Ser Leu Ser Glu Val
1               5


<210> 7699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
      HLA-B*15:03,HLA-C*14:02

<400> 7699
Cys Phe Asn Gln Ile Gln Asn Thr Tyr
1               5


<210> 7700
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01

<400> 7700
Cys Leu Lys Asn Ala Gln Ala Ala Ser Trp
1 5 10

<210> 7701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*51:01

<400> 7701
Asp Ala Gly Ala Glu Arg Leu Asp Val
1 5

<210> 7702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01

<400> 7702
Asp Ala Gly Ala Glu Arg Leu Asp Val Phe
1 5 10

<210> 7703
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:02

<400> 7703
Asp Asp Leu Lys His Glu Ser Leu
1 5

<210> 7704
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 7704
Asp Asp Arg Tyr Pro Ala Leu Gln Arg
1 5

<210> 7705
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01

<400> 7705
Asp Glu Ile Thr Val Thr Ser Thr
1 5

<210> 7706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*18:01,HLA-B*49:01

<400> 7706
Asp Glu Ile Thr Val Thr Ser Thr Cys
1 5

<210> 7707
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01

<400> 7707
Asp Glu Ile Thr Val Thr Ser Thr Cys Leu
1 5 10

<210> 7708

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01

<400> 7708
Asp Glu Val Lys Lys Ala Glu Glu Ala
1 5

<210> 7709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*38:01,HLA-B*39:01

<400> 7709
Asp Lys Ser Asn Thr Asp Val Ser Leu
1 5

<210> 7710
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01,HLA-A*26:01

<400> 7710
Asp Leu Lys His Glu Ser Leu Ser Ser Phe
1 5 10

<210> 7711
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*68:01

<400> 7711
Asp Asn Ala Arg Asp Ala Gly Ala Glu Arg
1 5 10

<210> 7712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:03

<400> 7712
Asp Pro Gln Lys Phe Ala Met Glu Leu
1 5

<210> 7713
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7713
Asp Ser Asp Ile Ile Leu Val Ser Asp Lys
1 5 10

<210> 7714
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7714
Asp Ser Asp Val Glu Tyr Ile Ser Glu Thr Lys
1 5 10

<210> 7715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*11:01

<400> 7715
Asp Thr Tyr Leu Glu Ala Leu Leu Lys

1 5

<210> 7716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 7716
Asp Val Glu Lys Pro Leu Asn Ser Phe
1 5

<210> 7717
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*26:01

<400> 7717
Asp Val Glu Lys Pro Leu Asn Ser Phe Gln Tyr
1 5 10

<210> 7718
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:01

<400> 7718
Asp Val Glu Tyr Ile Ser Glu Thr Lys
1 5

<210> 7719
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:02

<400> 7719
Asp Val Glu Tyr Ile Ser Glu Thr Lys Ile
1               5                   10


<210> 7720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*33:01,HLA-A*68:01

<400> 7720
Asp Val Phe Ser Val Asp Asn Glu Lys
1               5


<210> 7721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*35:03

<400> 7721
Asp Val Phe Ser Val Asp Asn Glu Lys Leu
1               5                   10


<210> 7722
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 7722
Asp Val Ile Tyr Gly Lys Cys Gly Thr Leu
1               5                   10


<210> 7723
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 7723
Asp Val Asn Leu Ser Ser Gly His Ile Ala Arg
1 5 10

<210> 7724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:02

<400> 7724
Glu Ala Ser Asp Ile Ile Tyr Phe Gly
1 5

<210> 7725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:02,HLA-C*07:06

<400> 7725
Glu Ala Ser Asp Ile Ile Tyr Phe Gly Arg
1 5 10

<210> 7726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,
HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*58:01

<400> 7726
Glu Ala Val Lys Ile Ala Glu Ser Ile
1 5

<210> 7727
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:03

<400> 7727
Glu Ala Val Lys Ile Ala Glu Ser Ile Leu
1 5 10

<210> 7728
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:01

<400> 7728
Glu Ala Val Lys Ile Ala Glu Ser Ile Leu Lys
1 5 10

<210> 7729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7729
Glu Asp Phe Pro Ala Arg Trp Ser Phe
1 5

<210> 7730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*40:02

<400> 7730
Glu Asp Ile Leu Met Ala Gly Ala Leu
1 5

<210> 7731

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7731
Glu Glu Ala Ser Asp Ile Ile Tyr Phe
1 5

<210> 7732
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*44:02

<400> 7732
Glu Glu Ala Val Lys Ile Ala Glu Ser Ile
1 5 10

<210> 7733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*49:01

<400> 7733
Glu Glu Ser Leu Ser Glu Val Val Val
1 5

<210> 7734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7734
Glu Glu Thr Asp Ser Asp Val Glu Tyr
1 5

<210> 7735
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01

<400> 7735
Glu Glu Thr Met Thr Cys Val Phe
1 5

<210> 7736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7736
Glu Glu Thr Met Thr Cys Val Phe Phe
1 5

<210> 7737
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*14:02

<400> 7737
Glu Phe Leu Asn Val Gln Glu Tyr
1 5

<210> 7738
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7738
Glu Gly Asp Leu Glu Gln Thr Asp Thr Tyr

1 5 10

<210> 7739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*26:01

<400> 7739
Glu Leu Cys Asn Asp Val Leu Ala Met
1 5

<210> 7740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:01

<400> 7740
Glu Leu Cys Asn Asp Val Leu Ala Met Lys Arg
1 5 10

<210> 7741
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7741
Glu Leu Lys Thr Ala Arg Thr Leu
1 5

<210> 7742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7742
Glu Leu Lys Thr Ala Arg Thr Leu Ser Leu
1               5                   10


<210> 7743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*24:02,HLA-A*25:01

<400> 7743
Glu Leu Met Gln Gln Phe Asp Val Ile
1               5


<210> 7744
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*18:01

<400> 7744
Glu Leu Ser Ile Ile Tyr Lys Tyr
1               5


<210> 7745
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*08:01

<400> 7745
Glu Met Lys Arg Lys Gln Ser Leu
1               5


<210> 7746
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*33:01,HLA-A*33:03

<400> 7746
Glu Asn Val Lys Leu Ala Glu Arg
1 5

<210> 7747
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7747
Glu Gln Met Asn Lys Lys Leu Lys Met
1 5

<210> 7748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*13:02,HLA-B*38:01

<400> 7748
Glu Gln Gln Pro Gln Pro Gln Phe Ile
1 5

<210> 7749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*39:01

<400> 7749
Glu Gln Thr Asp Thr Tyr Leu Glu Ala Leu
1 5 10

<210> 7750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:03

<400> 7750
Glu Ser Leu Ser Glu Val Val Val Pro Met
1 5 10

<210> 7751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 7751
Glu Ser Val Ile Lys Tyr Gln Asn Arg
1 5

<210> 7752
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:01

<400> 7752
Glu Ser Val Thr Asp Asp Pro Gln Lys
1 5

<210> 7753
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01

<400> 7753
Glu Ser Val Thr Asp Asp Pro Gln Lys Phe
1 5 10

<210> 7754
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7754
Glu Thr Asp Ser Asp Val Glu Tyr
1 5

<210> 7755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*26:01

<400> 7755
Glu Val Lys Lys Ala Glu Glu Ala Val
1 5

<210> 7756
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:03

<400> 7756
Glu Val Lys Lys Ala Glu Glu Ala Val Lys
1 5 10

<210> 7757
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 7757
Glu Val Met Glu Pro Ser His Asn Lys
1 5

<210> 7758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01,HLA-A*26:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,
HLA-B*58:01

<400> 7758
Glu Val Val Val Pro Met Pro Ser Trp
1 5

<210> 7759
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01

<400> 7759
Glu Tyr Ile Ser Glu Thr Lys Ile
1 5

<210> 7760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*24:02

<400> 7760
Glu Tyr Ile Ser Glu Thr Lys Ile Met
1 5

<210> 7761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*33:03

<400> 7761
Glu Tyr Ile Ser Glu Thr Lys Ile Met Lys

1 5 10

<210> 7762
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 7762
Glu Tyr Ile Ser Glu Thr Lys Ile Met Lys Lys
1 5 10

<210> 7763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*29:02,HLA-B*35:01,HLA-B*46:01,HLA-C*02:02

<400> 7763
Phe Ala Met Glu Leu Ser Ile Ile Tyr
1 5

<210> 7764
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01,HLA-B*27:02

<400> 7764
Phe Ala Met Glu Leu Ser Ile Ile Tyr Lys
1 5 10

<210> 7765
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:02

<400> 7765
Phe Gly Tyr Gln Asn Asp Ile Asp Val Glu Lys
1               5                   10


<210> 7766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -C*01:02

<400> 7766
Phe Ile Gly Gln Tyr Gly Asn Gly Leu
1               5


<210> 7767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*32:01,HLA-B*46:01

<400> 7767
Phe Ile His Ala Asn Ser Thr Thr His
1               5


<210> 7768
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:07

<400> 7768
Phe Ile Pro Val Asp Glu Ile Thr Val
1               5


<210> 7769
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*02:03

<400> 7769
Phe Ile Tyr Ser Asn Asn Arg Leu Ile
1 5

<210> 7770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*05:01

<400> 7770
Phe Leu Asp Asp Gly Cys Gly Met
1 5

<210> 7771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7771
Phe Leu Asp Asp Gly Cys Gly Met Ser Pro
1 5 10

<210> 7772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*46:01

<400> 7772
Phe Leu Phe Gly Ala Leu Ala Glu Leu
1 5

<210> 7773
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03,HLA-A*02:04

<400> 7773
Phe Leu Phe Gly Ala Leu Ala Glu Leu Leu
1 5 10

<210> 7774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*04:01

<400> 7774
Phe Asn Gln Ile Gln Asn Thr Tyr Met
1 5

<210> 7775
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*35:03

<400> 7775
Phe Pro Glu His Gln Leu Pro Ser Glu Leu
1 5 10

<210> 7776
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*32:01,HLA-B*13:02,HLA-B*38:01

<400> 7776
Phe Gln Asn Asn Leu Asn Lys Val Thr Ile
1 5 10

<210> 7777
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7777
Phe Gln Tyr Gln Arg Arg Gln Ala Met
1 5

<210> 7778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 7778
Phe Tyr Gly Val Asn Val Glu Asn Arg
1 5

<210> 7779
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7779
Gly Ala Phe Lys Asp Glu Val Lys Lys
1 5

<210> 7780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01,HLA-A*31:01

<400> 7780
Gly Ala Leu Glu Asp Phe Pro Ala Arg
1 5

<210> 7781

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*57:01

<400> 7781
Gly Ala Leu Glu Asp Phe Pro Ala Arg Trp
1 5 10

<210> 7782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02

<400> 7782
Gly Asp Asp Leu Lys His Glu Ser Leu
1 5

<210> 7783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*37:01,HLA-C*07:02

<400> 7783
Gly Ile Asn Asn Arg Asn Leu Thr Leu
1 5

<210> 7784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*30:01,HLA-B*13:02

<400> 7784
Gly Ile Val Asn Ile Pro Leu Glu Val
1 5

<210> 7785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03

<400> 7785
Gly Leu Lys Ser Gly Ser Met Arg Ile
1 5

<210> 7786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01

<400> 7786
Gly Met Phe Ile Tyr Ser Asn Asn Arg
1 5

<210> 7787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*13:02,HLA-B*27:05

<400> 7787
Gly Gln Tyr Gly Asn Gly Leu Lys Ser
1 5

<210> 7788
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:05

<400> 7788
Gly Gln Tyr Gly Asn Gly Leu Lys Ser Gly Ser

1 5 10

<210> 7789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*13:02

<400> 7789
Gly Gln Tyr Leu Val Gln Tyr Cys
1 5

<210> 7790
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04

<400> 7790
Gly Thr Leu Leu Val Ile Tyr Asn Leu
1 5

<210> 7791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*11:01

<400> 7791
Gly Thr Leu Leu Val Ile Tyr Asn Leu Lys
1 5 10

<210> 7792
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 7792
Gly Thr Met Ser Thr Ile Ser Pro Ser Lys
1               5                   10


<210> 7793
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*27:02

<400> 7793
Gly Tyr Gln Asn Asp Ile Asp Val Glu Lys
1               5                   10


<210> 7794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,
      HLA-A*33:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
      HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*46:01,HLA-B*55:01,

<220>
<223> HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:06,
      HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 7794
His Ala Asn Ser Thr Thr His Ser Phe
1               5


<210> 7795
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*30:01,HLA-B*08:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
      HLA-B*40:02

<400> 7795
His Glu Lys Val Gly Ser Gln Leu
1               5

<210> 7796
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01

<400> 7796
His Glu Lys Val Gly Ser Gln Leu Lys Leu
1 5 10

<210> 7797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02

<400> 7797
His Glu Ser Leu Ser Ser Phe Glu Leu
1 5

<210> 7798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*29:02,HLA-A*30:02

<400> 7798
His Leu Leu Lys Val Met Gly Gln Tyr
1 5

<210> 7799
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-B*13:02,HLA-B*38:01,HLA-B*51:01

<400> 7799
His Gln Val Glu Cys Leu Pro Ser Ile
1 5

<210> 7800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*54:01

<400> 7800
His Ser Phe Leu Phe Gly Ala Leu Ala
1 5

<210> 7801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*54:01

<400> 7801
Ile Ala Glu Ser Ile Leu Lys Glu Ala
1 5

<210> 7802
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*25:01,HLA-A*32:01,HLA-B*08:01,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*16:01

<400> 7802
Ile Ala Asn Ile Thr Thr Val Trp
1 5

<210> 7803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01,HLA-A*33:01

<400> 7803
Ile Ala Asn Ile Thr Thr Val Trp Arg
1               5


<210> 7804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*23:01,HLA-A*30:01,HLA-B*37:01

<400> 7804
Ile Asp Val Glu Lys Pro Leu Asn Ser Phe
1               5                   10


<210> 7805
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -C*01:02

<400> 7805
Ile Gly Gln Tyr Gly Asn Gly Leu
1               5


<210> 7806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:02,HLA-A*11:01

<400> 7806
Ile Gly Gln Tyr Gly Asn Gly Leu Lys
1               5


<210> 7807
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -C*04:01

<400> 7807
Ile Gly Gln Tyr Gly Asn Gly Leu Lys Ser Gly
1 5 10

<210> 7808
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*38:01

<400> 7808
Ile His Ala Asn Ser Thr Thr His Ser Phe
1 5 10

<210> 7809
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*38:01

<400> 7809
Ile His Ala Asn Ser Thr Thr His Ser Phe Leu
1 5 10

<210> 7810
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03,HLA-A*25:01

<400> 7810
Ile Ile Tyr Asp Ser Asn Thr Arg Gly Ile
1 5 10

<210> 7811
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01

<400> 7811
Ile Ile Tyr Phe Gly Arg Ser Lys
1 5

<210> 7812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01

<400> 7812
Ile Ile Tyr Phe Gly Arg Ser Lys Lys
1 5

<210> 7813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01

<400> 7813
Ile Ile Tyr Lys Tyr Ser Pro Phe Lys
1 5

<210> 7814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-B*55:01

<400> 7814
Ile Leu Lys Glu Ala Gln Ile Lys Val
1 5

<210> 7815
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*15:01

<400> 7815
Ile Leu Met Ala Gly Ala Leu Glu Asp Phe
1 5 10

<210> 7816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*24:02

<400> 7816
Ile Asn Asn Arg Asn Leu Thr Leu Phe
1 5

<210> 7817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*35:03

<400> 7817
Ile Pro Phe Ile Ile Gln Cys Asp Leu
1 5

<210> 7818
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*54:01

<400> 7818
Ile Pro Leu Glu Val Met Glu Pro
1 5

<210> 7819

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-B*07:02,HLA-B*35:03,HLA-B*49:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*56:01

<400> 7819
Ile Pro Leu Gly Thr Met Ser Thr Ile
1 5

<210> 7820
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02,HLA-B*35:03,HLA-B*55:01

<400> 7820
Ile Pro Leu Leu Asn Gln Glu Lys Gln Glu Leu
1 5 10

<210> 7821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 7821
Ile Pro Val Ala Leu Pro Glu Asn Val
1 5

<210> 7822
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 7822
Ile Pro Val Ala Leu Pro Glu Asn Val Lys Leu
1 5 10

<210> 7823
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*51:01,HLA-B*56:01

<400> 7823
Ile Pro Val Asp Glu Ile Thr Val
1 5

<210> 7824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:03,HLA-B*55:01,HLA-B*56:01

<400> 7824
Ile Pro Val Asp Glu Ile Thr Val Thr
1 5

<210> 7825
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*54:01,HLA-B*56:01

<400> 7825
Ile Pro Val Asp Glu Ile Thr Val Thr Ser Thr
1 5 10

<210> 7826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*23:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*46:01,HLA-C*02:02,HLA-C*07:04,HLA-C*14:02,

<220>
<223> HLA-C*16:04

<400> 7826
Ile Gln Asn Thr Tyr Met Val Gln Tyr
1               5


<210> 7827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*01:01,HLA-A*11:01

<400> 7827
Ile Ser Glu Thr Lys Ile Met Lys Lys
1               5


<210> 7828
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*13:02

<400> 7828
Ile Val Asn Ile Pro Leu Glu Val
1               5


<210> 7829
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*15:01,HLA-B*35:01,HLA-B*46:01

<400> 7829
Ile Val Asn Ile Pro Leu Glu Val Met
1               5


<210> 7830
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*24:02,HLA-B*35:03,HLA-C*04:01,HLA-C*14:02,
HLA-C*16:02

<400> 7830
Ile Tyr Asp Ser Asn Thr Arg Gly Ile
1 5

<210> 7831
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*24:02

<400> 7831
Ile Tyr Gly Lys Cys Gly Thr Leu Leu
1 5

<210> 7832
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01

<400> 7832
Ile Tyr Asn Leu Lys Leu Leu Leu
1 5

<210> 7833
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02

<400> 7833
Ile Tyr Ser Asn Asn Arg Leu Ile Lys Met
1 5 10

<210> 7834
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*05:01

<400> 7834
Lys Ala Glu Glu Ala Val Lys Ile
1 5

<210> 7835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*40:01

<400> 7835
Lys Glu Asp Ile Leu Met Ala Gly Ala Leu
1 5 10

<210> 7836
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*40:01

<400> 7836
Lys Glu Asp Asn Leu Leu Phe Gln Asn Asn Leu
1 5 10

<210> 7837
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*49:01

<400> 7837
Lys Glu Glu Thr Met Thr Cys Val
1 5

<210> 7838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01,HLA-B*37:01,HLA-B*40:01

<400> 7838
Lys Glu Glu Thr Met Thr Cys Val Phe
1 5

<210> 7839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*44:02,HLA-B*44:03

<400> 7839
Lys Glu Ile Pro Leu Leu Asn Gln Glu Lys
1 5 10

<210> 7840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 7840
Lys Glu Asn Thr Lys Thr Gln Lys Ile
1 5

<210> 7841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*38:01

<400> 7841

Lys His Glu Ser Leu Ser Ser Phe Glu Leu
1               5                   10


<210> 7842
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:01,HLA-A*03:02

<400> 7842
Lys Ile Ala Glu Ser Ile Leu Lys
1               5


<210> 7843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:01,HLA-A*02:03

<400> 7843
Lys Ile Ala Glu Ser Ile Leu Lys Glu Ala
1               5                   10


<210> 7844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:03,HLA-A*02:04

<400> 7844
Lys Leu Ala Leu Leu Leu Gln Lys Leu
1               5


<210> 7845
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:03

<400> 7845
Lys Leu Lys Ser Leu Leu Gly Ala Gly Val
1               5                   10


<210> 7846
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:01,HLA-A*02:04

<400> 7846
Lys Leu Leu Leu Asn Gly Glu Pro Glu Leu
1               5                   10


<210> 7847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*57:01

<400> 7847
Lys Leu Arg Glu Ile Leu Leu Tyr Phe
1               5


<210> 7848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*13:02

<400> 7848
Lys Met Asn Ser Gln Gln Gln Arg Ile
1               5


<210> 7849
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01

<400> 7849
Lys Pro Leu Asn Ser Phe Gln Tyr
1 5

<210> 7850
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01,HLA-C*07:01

<400> 7850
Lys Gln Glu Phe Leu Asn Val Gln Glu Tyr
1 5 10

<210> 7851
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:02,HLA-B*15:01

<400> 7851
Lys Gln Leu Arg Glu Ser Val Ile Lys Tyr
1 5 10

<210> 7852
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01

<400> 7852
Lys Gln Arg Glu Leu Lys Thr Ala Arg
1 5

<210> 7853
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7853
Lys Ser Asn Thr Asp Val Ser Leu Lys
1 5

<210> 7854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*57:01

<400> 7854
Lys Thr Ala Arg Thr Leu Ser Leu Phe
1 5

<210> 7855
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*29:02

<400> 7855
Lys Thr Ala Arg Thr Leu Ser Leu Phe Tyr
1 5 10

<210> 7856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7856
Lys Thr Asp Lys Glu Asp Ile Leu Met
1 5

<210> 7857
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*58:01

<400> 7857
Lys Thr Glu Ala Glu Leu Met Gln Gln Phe
1 5 10

<210> 7858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 7858
Lys Val Gly Ser Gln Leu Lys Leu Lys
1 5

<210> 7859
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-B*15:01,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 7859
Lys Val Met Gly Gln Tyr Leu Val Gln Tyr
1 5 10

<210> 7860
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-C*14:02

<400> 7860
Lys Tyr Leu Tyr Val Thr Ser Ser Phe
1 5

<210> 7861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01,HLA-C*03:03,HLA-C*03:04

<400> 7861
Leu Ala Met Lys Arg Ser Ser Ser Leu
1 5

<210> 7862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01

<400> 7862
Leu Cys Asn Asp Val Leu Ala Met Lys Arg
1 5 10

<210> 7863
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:02

<400> 7863
Leu Asp Val Phe Ser Val Asp Asn Glu Lys
1 5 10

<210> 7864
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*44:02,HLA-B*44:03

<400> 7864

Leu Glu Asp Phe Pro Ala Arg Trp
1               5


<210> 7865
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*40:01

<400> 7865
Leu Glu Glu Pro Ala Leu Ser Cys Glu Leu
1               5                   10


<210> 7866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*15:03

<400> 7866
Leu Lys His Glu Ser Leu Ser Ser Phe
1               5


<210> 7867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:01

<400> 7867
Leu Leu Phe Gln Asn Asn Leu Asn Lys
1               5


<210> 7868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:03,HLA-A*02:04

<400> 7868
Leu Leu Phe Gln Asn Asn Leu Asn Lys Val
1               5                   10


<210> 7869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 7869
Leu Leu Gly Ala Gly Val Val Gly Ile
1               5


<210> 7870
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*01:01,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 7870
Leu Leu Lys Glu Asp Asn Leu Leu Phe
1               5


<210> 7871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:03

<400> 7871
Leu Leu Lys Val Met Gly Gln Tyr Leu
1               5


<210> 7872
<211> 9
<212> PRT
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<220>

<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:04,HLA-B*55:01

<400> 7872
Leu Leu Leu Asn Gly Glu Pro Glu Leu
1 5

<210> 7873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7873
Leu Leu Asn Gln Glu Lys Gln Glu Leu
1 5

<210> 7874
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 7874
Leu Leu Tyr Phe Phe Pro Glu His Gln Leu
1 5 10

<210> 7875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*46:01

<400> 7875
Leu Met Ala Gly Ala Leu Glu Asp Phe
1 5

<210> 7876
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*33:03

<400> 7876
Leu Asn Lys Val Thr Ile Asp Ala Arg
1 5

<210> 7877
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7877
Leu Asn Gln Glu Lys Gln Glu Leu
1 5

<210> 7878
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03

<400> 7878
Leu Pro Ser Glu Leu Glu Glu Pro Ala Leu
1 5 10

<210> 7879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 7879
Leu Pro Ser Ile Pro Leu Gly Thr Met
1 5

<210> 7880

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:02

<400> 7880
Leu Ser Ser Phe Glu Leu Ser Ala Ser Arg
1 5 10

<210> 7881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03

<400> 7881
Leu Ser Ser Gly His Ile Ala Arg Val
1 5

<210> 7882
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02

<400> 7882
Leu Tyr Phe Phe Pro Glu His Gln Leu
1 5

<210> 7883
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02

<400> 7883
Leu Tyr Val Thr Ser Ser Phe Lys Gly Ala Phe
1 5 10

<210> 7884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,HLA-B*35:01

<400> 7884
Met Cys Phe Asn Gln Ile Gln Asn Thr Tyr
1 5 10

<210> 7885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*29:02,HLA-A*30:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 7885
Met Glu Leu Ser Ile Ile Tyr Lys Tyr
1 5

<210> 7886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*44:03

<400> 7886
Met Glu Pro Ser His Asn Lys Gln Glu Phe
1 5 10

<210> 7887
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*38:01,HLA-B*39:01

<400> 7887
Met His Glu Lys Val Gly Ser Gln Leu

1 5

<210> 7888
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 7888
Met Gln Gln Phe Asp Val Ile Tyr Gly Lys
1 5 10

<210> 7889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 7889
Asn Ala Gln Ala Ala Ser Trp Glu Met
1 5

<210> 7890
<211> 11
<212> PRT
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<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01

<400> 7890
Asn Ala Gln Ala Ala Ser Trp Glu Met Lys Arg
1 5 10

<210> 7891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*33:03,HLA-C*07:06

<400> 7891
Asn Ala Arg Asp Ala Gly Ala Glu Arg
1               5


<210> 7892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 7892
Asn Glu Phe Gly Tyr Gln Asn Asp Ile
1               5


<210> 7893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*18:01

<400> 7893
Asn Glu Lys Leu Gln Gly Gly Phe
1               5


<210> 7894
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*01:01,HLA-B*55:01

<400> 7894
Asn Ile Glu Glu Thr Asp Ser Asp Val Glu Tyr
1               5                   10


<210> 7895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*02:03,HLA-B*08:01

<400> 7895
Asn Leu Lys Glu Lys Gln Arg Glu Leu
1 5

<210> 7896
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7896
Asn Leu Arg Ile Lys Leu Ala Leu
1 5

<210> 7897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*68:01

<400> 7897
Asn Leu Ser Ser Gly His Ile Ala Arg
1 5

<210> 7898
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03

<400> 7898
Asn Leu Ser Ser Gly His Ile Ala Arg Val
1 5 10

<210> 7899
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7899
Asn Asn Leu Asn Lys Val Thr Ile
1 5

<210> 7900
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01

<400> 7900
Asn Asn Leu Asn Lys Val Thr Ile Asp Ala Arg
1 5 10

<210> 7901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*54:01

<400> 7901
Asn Pro Trp Met Arg Ile Phe Ile Gln Ala
1 5 10

<210> 7902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*30:01,HLA-B*13:02,
HLA-B*27:05,HLA-B*39:01

<400> 7902
Asn Gln Ile Gln Asn Thr Tyr Met Val
1 5

<210> 7903
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:02,HLA-B*15:01

<400> 7903
Asn Gln Ile Gln Asn Thr Tyr Met Val Gln Tyr
1 5 10

<210> 7904
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*16:01

<400> 7904
Asn Ser Gln Gln Gln Arg Ile Pro Val
1 5

<210> 7905
<211> 9
<212> PRT
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<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*29:02,HLA-C*16:01

<400> 7905
Asn Ser Thr Thr His Ser Phe Leu Phe
1 5

<210> 7906
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7906
Asn Thr Asp Val Ser Leu Lys Gln Glu Lys
1 5 10

<210> 7907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:03

<400> 7907
Asn Thr Ser Asp Ser Asp Ile Ile Leu
1 5

<210> 7908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:02

<400> 7908
Asn Thr Ser Asp Ser Asp Ile Ile Leu Val
1 5 10

<210> 7909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 7909
Asn Thr Tyr Met Val Gln Tyr Glu Lys
1 5

<210> 7910
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:01

<400> 7910
Asn Thr Tyr Met Val Gln Tyr Glu Lys Lys
1 5 10

<210> 7911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*01:02

<400> 7911
Asn Val Pro Met Glu Asp Val Asn Leu
1 5

<210> 7912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,HLA-B*35:03,
HLA-B*38:01,HLA-B*55:01,HLA-C*16:02

<400> 7912
Asn Val Gln Glu Tyr Asn His Leu Leu
1 5

<210> 7913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:01

<400> 7913
Asn Val Gln Glu Tyr Asn His Leu Leu Lys
1 5 10

<210> 7914
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01

<400> 7914
Pro Leu Asn Ser Phe Gln Tyr Gln Arg
1               5


<210> 7915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*31:01,HLA-A*33:03,HLA-A*68:01

<400> 7915
Gln Ala Ala Ser Trp Glu Met Lys Arg
1               5


<210> 7916
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*51:01

<400> 7916
Gln Ala Met Gly Ile Pro Phe Ile
1               5


<210> 7917
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*51:01

<400> 7917
Gln Ala Met Gly Ile Pro Phe Ile Ile
1               5


<210> 7918
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*30:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,
HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,

<220>
<223> HLA-C*02:02,HLA-C*12:03,HLA-C*16:04

<400> 7918
Gln Glu Phe Leu Asn Val Gln Glu Tyr
1 5

<210> 7919
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*44:02

<400> 7919
Gln Glu Lys Glu Phe Phe Asp Ile Trp
1 5

<210> 7920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 7920
Gln Glu Lys Lys Glu Ile Pro Leu Leu
1 5

<210> 7921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*44:03,HLA-B*49:01

<400> 7921
Gln Glu Tyr Asn His Leu Leu Lys Val
1 5

<210> 7922
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*44:02,HLA-B*44:03

<400> 7922
Gln Glu Tyr Asn His Leu Leu Lys Val Met
1 5 10

<210> 7923
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03

<400> 7923
Gln Ile Ala Asn Ile Thr Thr Val
1 5

<210> 7924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,
HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*38:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,

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<223> HLA-B*58:01,HLA-C*07:04,HLA-C*12:03,HLA-C*16:04

<400> 7924
Gln Ile Ala Asn Ile Thr Thr Val Trp
1 5

<210> 7925
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*68:01

<400> 7925
Gln Ile Ala Asn Ile Thr Thr Val Trp Arg
1 5 10

<210> 7926
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*29:02,HLA-A*30:02,HLA-C*07:04

<400> 7926
Gln Ile Gln Asn Thr Tyr Met Val Gln Tyr
1 5 10

<210> 7927
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 7927
Gln Leu Lys Leu Lys Ser Leu Leu
1 5

<210> 7928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*03:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 7928
Gln Leu Arg Glu Ser Val Ile Lys Tyr
1 5

<210> 7929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*54:01,HLA-B*56:01

<400> 7929
Gln Pro Gln Pro Gln Phe Ile Pro Val
1 5

<210> 7930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*27:05

<400> 7930
Gln Gln Phe Asp Val Ile Tyr Gly Lys
1 5

<210> 7931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 7931
Gln Gln Gln Arg Ile Pro Val Ala Leu
1 5

<210> 7932
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01,HLA-B*15:01,HLA-B*15:03

<400> 7932
Gln Gln Arg Ile Pro Val Ala Leu
1 5

<210> 7933

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*68:01

<400> 7933
Gln Ser Ile Ile Tyr Asp Ser Asn Thr Arg
1 5 10

<210> 7934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*58:01,HLA-C*16:01,
HLA-C*16:02

<400> 7934
Gln Ser Thr Pro Val Lys Glu Thr Val
1 5

<210> 7935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7935
Gln Thr Asp Thr Tyr Leu Glu Ala Leu
1 5

<210> 7936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 7936
Gln Thr Asp Thr Tyr Leu Glu Ala Leu Leu
1 5 10

<210> 7937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 7937
Arg Ala Leu Glu Asp Val Glu Ala Lys
1 5

<210> 7938
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*11:01

<400> 7938
Arg Ala Leu Glu Asp Val Glu Ala Lys Gln Lys
1 5 10

<210> 7939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02

<400> 7939
Arg Ala Gln Pro Thr Glu Gly Cys Leu
1 5

<210> 7940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*11:01

<400> 7940

Arg Ala Gln Pro Thr Glu Gly Cys Leu Lys
1               5                   10


<210> 7941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:01,HLA-B*57:01

<400> 7941
Arg Ala Tyr Thr Ser Val Leu Tyr Phe
1               5


<210> 7942
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*37:01

<400> 7942
Arg Asp Ala Gly Ala Glu Arg Leu
1               5


<210> 7943
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*44:02,HLA-B*44:03

<400> 7943
Arg Glu Ser Val Thr Asp Asp Pro Gln Lys Phe
1               5                   10


<210> 7944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:01

<400> 7944
Arg Ile Phe Ile Gln Ala Lys Arg Val Lys
1               5                   10


<210> 7945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*57:01

<400> 7945
Arg Ile Gly Lys Asp Phe Ile Leu Phe
1               5


<210> 7946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:07

<400> 7946
Arg Ile Pro Val Ala Leu Pro Glu Asn Val
1               5                   10


<210> 7947
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*03:02

<400> 7947
Arg Leu Asp Val Phe Ser Val Asp Asn Glu Lys
1               5                   10


<210> 7948
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02

<400> 7948
Arg Leu Pro Leu Glu Lys Asn Glu Lys
1 5

<210> 7949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*13:02

<400> 7949
Arg Gln Ala Met Gly Ile Pro Phe Ile
1 5

<210> 7950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:02,HLA-B*57:01,HLA-B*58:01

<400> 7950
Arg Ser Gln Ala Gly Met Phe Ile Tyr
1 5

<210> 7951
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*57:01,HLA-B*58:01

<400> 7951
Arg Ser Gln Ile Ala Asn Ile Thr Thr Val Trp
1 5 10

<210> 7952
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*57:01,HLA-B*58:01

<400> 7952
Arg Ser Ser Ser Leu Pro Ser Trp
1 5

<210> 7953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04

<400> 7953
Arg Thr Leu Ser Leu Phe Tyr Gly Val
1 5

<210> 7954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*07:04

<400> 7954
Arg Val Leu Pro Ser Ser Thr Asn Tyr
1 5

<210> 7955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02

<400> 7955
Arg Val Ser Val Ser Gly Ser Cys Lys
1 5

<210> 7956
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02

<400> 7956
Arg Tyr Pro Ala Leu Gln Arg Ala Gln Leu
1 5 10

<210> 7957
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 7957
Ser Ala Lys Asp Val Leu Gln Arg
1 5

<210> 7958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*54:01

<400> 7958
Ser Ala Lys Asp Val Leu Gln Arg Ala
1 5

<210> 7959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01

<400> 7959
Ser Asp Ile Ile Leu Val Ser Asp Lys
1 5

<210> 7960
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01

<400> 7960
Ser Asp Lys Ser Asn Thr Asp Val Ser Leu
1 5 10

<210> 7961
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01

<400> 7961
Ser Asp Lys Ser Asn Thr Asp Val Ser Leu Lys
1 5 10

<210> 7962
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*37:01

<400> 7962
Ser Asp Ser Asp Ile Ile Leu Val
1 5

<210> 7963
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01

<400> 7963

Ser Glu Leu Glu Glu Pro Ala Leu
1               5


<210> 7964
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*25:01,HLA-A*30:01,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,
      HLA-B*49:01,HLA-C*16:04

<400> 7964
Ser Glu Val Val Val Pro Met Pro Ser Trp
1               5                   10


<210> 7965
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*29:02

<400> 7965
Ser Phe Arg Ala Tyr Thr Ser Val Leu Tyr
1               5                   10


<210> 7966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*07:02,HLA-B*08:01

<400> 7966
Ser Gly His Ile Ala Arg Val Ser Val
1               5


<210> 7967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*68:01,HLA-C*07:06

<400> 7967
Ser Ile Ile Tyr Asp Ser Asn Thr Arg
1 5

<210> 7968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02

<400> 7968
Ser Ile Leu Lys Glu Ala Gln Ile Lys
1 5

<210> 7969
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 7969
Ser Leu Phe Tyr Gly Val Asn Val
1 5

<210> 7970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01,HLA-A*68:01

<400> 7970
Ser Leu Phe Tyr Gly Val Asn Val Glu Asn Arg
1 5 10

<210> 7971
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*55:01

<400> 7971
Ser Leu Leu Gly Ala Gly Val Val Gly Ile
1 5 10

<210> 7972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02

<400> 7972
Ser Leu Asn Phe Val Glu Glu Cys Lys
1 5

<210> 7973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04,HLA-A*02:07,HLA-A*24:02

<400> 7973
Ser Leu Pro Ser Trp Lys Ser Leu Leu
1 5

<210> 7974
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:07

<400> 7974
Ser Leu Pro Ser Trp Lys Ser Leu Leu Asn Val
1 5 10

<210> 7975
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-B*37:01

<400> 7975
Ser Leu Ser Glu Val Val Val Pro Met
1 5

<210> 7976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*39:01

<400> 7976
Ser Leu Ser Ser Ala Lys Asp Val Leu
1 5

<210> 7977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-B*13:02

<400> 7977
Ser Leu Ser Ser Phe Glu Leu Ser Ala
1 5

<210> 7978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 7978
Ser Pro Ala Ser Ser Gln Ser Thr Pro Val
1 5 10

<210> 7979

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01

<400> 7979
Ser Pro Ala Ser Ser Gln Ser Thr Pro Val Lys
1 5 10

<210> 7980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:03

<400> 7980
Ser Pro Glu Glu Ala Ser Asp Ile Ile
1 5

<210> 7981
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*03:03

<400> 7981
Ser Pro Glu Glu Ala Ser Asp Ile Ile Tyr
1 5 10

<210> 7982
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 7982
Ser Pro Glu Glu Ala Ser Asp Ile Ile Tyr Phe
1 5 10

<210> 7983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*40:01,HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 7983
Ser Pro Phe Lys Thr Glu Ala Glu Leu
1 5

<210> 7984
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02,HLA-B*35:01

<400> 7984
Ser Pro Phe Lys Thr Glu Ala Glu Leu Met
1 5 10

<210> 7985
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02,HLA-C*07:02

<400> 7985
Ser Pro Ser Lys Asn Glu Lys Glu Lys Gln Leu
1 5 10

<210> 7986
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03

<400> 7986

Ser Gln Ala Gly Met Phe Ile Tyr
1               5


<210> 7987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*26:01,HLA-A*30:01,
      HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,
      HLA-B*40:02,HLA-B*46:01,HLA-B*49:01,HLA-B*55:01,HLA-C*02:02,

<220>
<223> HLA-C*06:02

<400> 7987
Ser Gln Ile Ala Asn Ile Thr Thr Val
1               5


<210> 7988
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*15:01,HLA-B*27:02,
      HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 7988
Ser Gln Ile Ala Asn Ile Thr Thr Val Trp
1               5                   10


<210> 7989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*13:02

<400> 7989
Ser Gln Gln Gln Arg Ile Pro Val Ala
1               5


<210> 7990
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:03,HLA-B*13:02

<400> 7990
Ser Gln Arg Ser Gln Ile Ala Asn Ile
1 5

<210> 7991
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*13:02

<400> 7991
Ser Gln Ser Thr Pro Val Lys Glu Thr Val
1 5 10

<210> 7992
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*07:06

<400> 7992
Ser Gln Ser Thr Pro Val Lys Glu Thr Val Arg
1 5 10

<210> 7993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 7993
Ser Ser Ala Lys Asp Val Leu Gln Arg
1 5

<210> 7994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*27:05,HLA-C*07:06

<400> 7994
Ser Ser Phe Glu Leu Ser Ala Ser Arg
1 5

<210> 7995
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 7995
Ser Ser Phe Glu Leu Ser Ala Ser Arg Arg
1 5 10

<210> 7996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01

<400> 7996
Ser Thr Cys Leu Thr Ser Ala His Lys
1 5

<210> 7997
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-C*07:06

<400> 7997
Ser Thr Ile Ser Pro Ser Lys Asn Glu Lys

1 5 10

<210> 7998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*44:03,HLA-B*57:01

<400> 7998
Ser Thr Leu Lys Phe Ile Gly Gln Tyr
1 5

<210> 7999
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*11:01

<400> 7999
Ser Thr Pro Val Lys Glu Thr Val Arg Lys
1 5 10

<210> 8000
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*57:01

<400> 8000
Ser Thr Thr His Ser Phe Leu Phe
1 5

<210> 8001
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01

<400> 8001
Ser Val Ile Lys Tyr Gln Asn Arg
1               5


<210> 8002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*32:01,
      HLA-A*68:01,HLA-B*38:01,HLA-B*58:01

<400> 8002
Ser Val Thr Asp Asp Pro Gln Lys Phe
1               5


<210> 8003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*29:02

<400> 8003
Thr Ala Arg Thr Leu Ser Leu Phe Tyr
1               5


<210> 8004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*37:01

<400> 8004
Thr Asp Asp Pro Gln Lys Phe Ala Met
1               5


<210> 8005
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*37:01

<400> 8005
Thr Asp Lys Glu Asp Ile Leu Met
1 5

<210> 8006
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:02

<400> 8006
Thr Asp Thr Tyr Leu Glu Ala Leu Leu Lys
1 5 10

<210> 8007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01,HLA-A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*38:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-C*02:02,HLA-C*16:04

<400> 8007
Thr Glu Ala Glu Leu Met Gln Gln Phe
1 5

<210> 8008
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 8008
Thr Gly Ile Asn Asn Arg Asn Leu Thr Leu
1 5 10

<210> 8009

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02

<400> 8009
Thr Gly Ile Asn Asn Arg Asn Leu Thr Leu Phe
1 5 10

<210> 8010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02

<400> 8010
Thr Ile Ser Pro Ser Lys Asn Glu Lys
1 5

<210> 8011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*29:02,HLA-A*30:02

<400> 8011
Thr Leu Phe Cys Asn Glu Phe Gly Tyr
1 5

<210> 8012
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:02,HLA-B*15:01,HLA-B*46:01

<400> 8012
Thr Leu Lys Phe Ile Gly Gln Tyr
1 5

<210> 8013
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04

<400> 8013
Thr Leu Leu Val Ile Tyr Asn Leu
1 5

<210> 8014
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04

<400> 8014
Thr Leu Leu Val Ile Tyr Asn Leu Lys Leu
1 5 10

<210> 8015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 8015
Thr Met Ser Thr Ile Ser Pro Ser Lys
1 5

<210> 8016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02

<400> 8016
Thr Pro Val Lys Glu Thr Val Arg Lys Leu

1 5 10

<210> 8017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 8017
Thr Ser Asp Ser Asp Ile Ile Leu Val
1 5

<210> 8018
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -C*16:01

<400> 8018
Thr Ser Ser Phe Lys Gly Ala Phe
1 5

<210> 8019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*57:01

<400> 8019
Thr Ser Val Leu Tyr Phe Asn Pro Trp
1 5

<210> 8020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:01,HLA-A*23:01,HLA-B*35:03,HLA-B*40:01,HLA-B*58:01,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:04

<400> 8020
Val Ala Leu Pro Glu Asn Val Lys Leu
1               5


<210> 8021
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*37:01

<400> 8021
Val Glu Ala Lys Gln Lys Asn Leu
1               5


<210> 8022
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*18:01,HLA-B*37:01

<400> 8022
Val Glu Lys Pro Leu Asn Ser Phe
1               5


<210> 8023
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*29:02,HLA-A*30:02,HLA-B*18:01,HLA-B*27:02,HLA-B*44:02,
      HLA-B*44:03

<400> 8023
Val Glu Lys Pro Leu Asn Ser Phe Gln Tyr
1               5                   10


<210> 8024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:03

<400> 8024
Val Glu Asn Arg Ser Gln Ala Gly Met
1 5

<210> 8025
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*18:01

<400> 8025
Val Glu Tyr Ile Ser Glu Thr Lys
1 5

<210> 8026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01,HLA-A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8026
Val Glu Tyr Ile Ser Glu Thr Lys Ile
1 5

<210> 8027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*30:01,HLA-B*49:01

<400> 8027
Val Glu Tyr Ile Ser Glu Thr Lys Ile Met
1 5 10

<210> 8028
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02

<400> 8028
Val Phe Ser Val Asp Asn Glu Lys Leu
1 5

<210> 8029
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01

<400> 8029
Val Ile Lys Tyr Gln Asn Arg Leu
1 5

<210> 8030
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:04

<400> 8030
Val Ile Tyr Asn Leu Lys Leu Leu Leu
1 5

<210> 8031
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 8031
Val Leu Pro Ser Ser Thr Asn Tyr
1 5

<210> 8032
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*46:01,HLA-C*07:04

<400> 8032
Val Met Gly Gln Tyr Leu Val Gln Tyr
1 5

<210> 8033
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*33:01,HLA-A*33:03

<400> 8033
Val Asn Leu Ser Ser Gly His Ile Ala Arg
1 5 10

<210> 8034
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*35:03,HLA-B*55:01

<400> 8034
Val Pro Met Glu Asp Val Asn Leu
1 5

<210> 8035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*56:01

<400> 8035
Val Pro Met Glu Asp Val Asn Leu Ser Ser Gly
1 5 10

<210> 8036
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*51:01

<400> 8036
Val Pro Met Pro Ser Trp Leu Ile
1 5

<210> 8037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 8037
Val Gln Glu Tyr Asn His Leu Leu Lys
1 5

<210> 8038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*13:02

<400> 8038
Val Gln Tyr Cys Lys Asp Thr Gly Ile
1 5

<210> 8039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01

<400> 8039

Val Gln Tyr Glu Lys Lys Ile Lys Arg
1               5


<210> 8040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*01:01,HLA-C*05:01

<400> 8040
Val Ser Asp Lys Ser Asn Thr Asp Val
1               5


<210> 8041
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -C*05:01

<400> 8041
Val Ser Asp Lys Ser Asn Thr Asp Val Ser Leu
1               5                   10


<210> 8042
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*01:01,HLA-A*32:01,HLA-B*39:01,HLA-B*58:01,HLA-C*04:01,
      HLA-C*05:01

<400> 8042
Val Thr Asp Asp Pro Gln Lys Phe
1               5


<210> 8043
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;

HLA -A*01:01,HLA-A*02:07,HLA-C*05:01

<400> 8043
Val Thr Asp Asp Pro Gln Lys Phe Ala Met
1 5 10

<210> 8044
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*01:01

<400> 8044
Val Thr Asp Asp Pro Gln Lys Phe Ala Met Glu
1 5 10

<210> 8045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*32:01

<400> 8045
Val Thr Ile Asp Ala Arg His Arg Leu
1 5

<210> 8046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-C*16:01

<400> 8046
Val Thr Ser Ser Phe Lys Gly Ala Phe
1 5

<210> 8047
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 8047
Val Thr Ser Ser Phe Lys Gly Ala Phe Lys
1 5 10

<210> 8048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*02:07

<400> 8048
Val Val Pro Met Pro Ser Trp Leu Ile
1 5

<210> 8049
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 8049
Val Val Val Pro Met Pro Ser Trp
1 5

<210> 8050
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 8050
Tyr Cys Lys Asp Thr Gly Ile Asn Asn Arg
1 5 10

<210> 8051
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*37:01

<400> 8051
Tyr Asp Ser Asn Thr Arg Gly Ile
1 5

<210> 8052
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*23:01

<400> 8052
Tyr Phe Phe Pro Glu His Gln Leu
1 5

<210> 8053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*24:02

<400> 8053
Tyr Phe Asn Pro Trp Met Arg Ile Phe
1 5

<210> 8054
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*27:02

<400> 8054
Tyr Gly Val Asn Val Glu Asn Arg
1 5

<210> 8055

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 8055
Tyr Ile Ser Glu Thr Lys Ile Met Lys
1 5

<210> 8056
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01,HLA-A*11:01,HLA-A*68:01

<400> 8056
Tyr Ile Ser Glu Thr Lys Ile Met Lys Lys
1 5 10

<210> 8057
<211> 8
<212> PRT
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<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*46:01,HLA-C*14:02

<400> 8057
Tyr Leu Tyr Val Thr Ser Ser Phe
1 5

<210> 8058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:01

<400> 8058
Tyr Leu Tyr Val Thr Ser Ser Phe Lys
1 5

<210> 8059
<211> 9
<212> PRT
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<220>
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HLA -B*07:02,HLA-B*08:01,HLA-B*35:03,HLA-B*51:01,HLA-B*56:01,
HLA-C*07:02

<400> 8059
Tyr Pro Ala Leu Gln Arg Ala Gln Leu
1 5

<210> 8060
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*07:02

<400> 8060
Tyr Pro Ala Leu Gln Arg Ala Gln Leu Arg Leu
1 5 10

<210> 8061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-B*27:05

<400> 8061
Tyr Gln Asn Asp Ile Asp Val Glu Lys
1 5

<210> 8062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
HLA -B*08:01,HLA-B*46:01,HLA-C*16:01

<400> 8062

Tyr Ser Asn Asn Arg Leu Ile Lys Met
1               5


<210> 8063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -B*54:01

<400> 8063
Tyr Val Thr Ser Ser Phe Lys Gly Ala
1               5


<210> 8064
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; MORC1; ENSG00000114487;
      HLA -A*25:01,HLA-A*26:01

<400> 8064
Tyr Val Thr Ser Ser Phe Lys Gly Ala Phe
1               5                   10


<210> 8065
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE1; ENSG00000068985;
      HLA -A*11:01,HLA-B*27:02

<400> 8065
Ala Asp Ser Gln Glu Leu Val Gln Pro Lys
1               5                   10


<210> 8066
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE1; ENSG00000068985;
      HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 8066
Ala Asp Ser Gln Glu Gln Val His Pro Lys
1               5                   10


<210> 8067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE1; ENSG00000068985;
      HLA -B*18:01

<400> 8067
Asp Glu Val Glu Ser Pro Thr Gln
1               5


<210> 8068
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE1; ENSG00000068985;
      HLA -B*51:01

<400> 8068
Asp Gly Pro Asp Thr Lys Arg Val
1               5


<210> 8069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE1; ENSG00000068985;
      HLA -B*39:01,HLA-B*51:01,HLA-C*01:02

<400> 8069
Asp Gly Pro Asp Val Gln Glu Leu
1               5


<210> 8070
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*27:02,HLA-C*07:06

<400> 8070
Asp Ser Gln Glu Leu Val Gln Pro Lys
1 5

<210> 8071
<211> 9
<212> PRT
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<220>
<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*27:02,HLA-C*07:06

<400> 8071
Asp Ser Gln Glu Gln Val His Pro Lys
1 5

<210> 8072
<211> 8
<212> PRT
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HLA -A*33:01

<400> 8072
Asp Thr Lys Arg Val Cys Leu Arg
1 5

<210> 8073
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 8073
Glu Ala Asp Ser Gln Glu Leu Val Gln Pro Lys
1 5 10

<210> 8074

<211> 11
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<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02

<400> 8074
Glu Ala Asp Ser Gln Glu Gln Val His Pro Lys
1 5 10

<210> 8075
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 8075
Glu Leu Gly Asp Gly Pro Asp Thr Lys Arg
1 5 10

<210> 8076
<211> 9
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<213> Homo sapiens

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HLA -B*35:03

<400> 8076
Glu Pro Glu Ala Asp Ser Gln Glu Leu
1 5

<210> 8077
<211> 11
<212> PRT
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HLA -B*38:01

<400> 8077
Glu Arg Gly Asp Gly Pro Asp Val Gln Glu Leu
1 5 10

<210> 8078
<211> 9
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HLA -B*37:01

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Gly Asp Gly Pro Asp Thr Lys Arg Val
1 5

<210> 8079
<211> 11
<212> PRT
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HLA -A*30:01

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Gly Asp Gly Pro Asp Thr Lys Arg Val Cys Leu
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<210> 8080
<211> 9
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HLA -A*30:01,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,HLA-B*40:02

<400> 8080
Gly Asp Gly Pro Asp Val Gln Glu Leu
1 5

<210> 8081
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HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 8081
Gly Pro Asp Thr Lys Arg Val Cys Leu

1 5

<210> 8082
<211> 9
<212> PRT
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HLA -B*35:03

<400> 8082
Gly Pro Asp Val Gln Glu Leu Gly Leu
1 5

<210> 8083
<211> 11
<212> PRT
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HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 8083
Gly Gln Glu Pro Glu Ala Asp Ser Gln Glu Leu
1 5 10

<210> 8084
<211> 11
<212> PRT
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HLA -A*02:01,HLA-A*02:07

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Lys Leu Pro Ala Glu Gly Pro Glu Pro Glu Ala
1 5 10

<210> 8085
<211> 9
<212> PRT
<213> Homo sapiens

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HLA -A*02:01

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Leu Gly Leu Pro Asn Pro Glu Glu Val
1               5


<210> 8086
<211> 8
<212> PRT
<213> Homo sapiens

<220>
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      HLA -B*51:01,HLA-B*54:01

<400> 8086
Leu Pro Ala Glu Gly Pro Glu Pro
1               5


<210> 8087
<211> 10
<212> PRT
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      HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
      HLA-B*56:01

<400> 8087
Leu Pro Ala Glu Gly Pro Glu Pro Glu Ala
1               5                   10


<210> 8088
<211> 9
<212> PRT
<213> Homo sapiens

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      HLA -B*35:03,HLA-B*55:01,HLA-B*56:01

<400> 8088
Leu Pro Asn Pro Glu Glu Val Lys Thr
1               5


<210> 8089
<211> 9
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<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -B*27:05,HLA-B*38:01

<400> 8089
Leu Arg Asn Glu Glu Gln Met Lys Leu
1 5

<210> 8090
<211> 9
<212> PRT
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HLA -B*18:01

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Asn Glu Glu Gln Met Lys Leu Pro Ala
1 5

<210> 8091
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HLA -A*68:01,HLA-B*27:02

<400> 8091
Gln Asp Ser Thr Pro Ala Glu Glu Arg
1 5

<210> 8092
<211> 8
<212> PRT
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HLA -B*40:02

<400> 8092
Gln Glu Leu Val Gln Pro Lys Thr
1 5

<210> 8093
<211> 10
<212> PRT
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HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 8093
Gln Glu Pro Glu Ala Asp Ser Gln Glu Leu
1 5 10

<210> 8094
<211> 11
<212> PRT
<213> Homo sapiens

<220>
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HLA -B*49:01

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Gln Glu Pro Glu Ala Asp Ser Gln Glu Leu Val
1 5 10

<210> 8095
<211> 8
<212> PRT
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HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 8095
Gln Pro Lys Thr Gly Cys Glu Leu
1 5

<210> 8096
<211> 11
<212> PRT
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<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 8096
Gln Ser Gln Asp Ser Thr Pro Ala Glu Glu Arg
1 5 10

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<211> 10
<212> PRT
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HLA -A*31:01

<400> 8097
Gln Val His Pro Lys Thr Gly Cys Glu Arg
1 5 10

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<211> 10
<212> PRT
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<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -C*05:01

<400> 8098
Arg Gly Asp Gly Pro Asp Val Gln Glu Leu
1 5 10

<210> 8099
<211> 9
<212> PRT
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HLA -B*56:01

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Arg Pro Met Ile Tyr Val Glu Ser Ser
1 5

<210> 8100
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HLA -B*13:02

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Ser Gln Glu Leu Val Gln Pro Lys Thr
1 5

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HLA -A*03:02,HLA-A*11:01

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Ser Gln Glu Gln Val His Pro Lys
1 5

<210> 8102
<211> 9
<212> PRT
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HLA -C*05:01

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Ser Ser Asp Glu Gln Pro Asp Glu Val
1 5

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<212> PRT
<213> Homo sapiens

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HLA -B*37:01

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Val Glu Ser Pro Thr Gln Ser Gln
1 5

<210> 8104
<211> 9
<212> PRT
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<223> Table 1.2; PAGE1; ENSG00000068985;
HLA -B*15:03,HLA-B*46:01,HLA-C*01:02

<400> 8104
Val Gln Pro Lys Thr Gly Cys Glu Leu

1 5

<210> 8105
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HLA -B*27:02

<400> 8105
Ala Phe Gln Gln Glu Leu Ala Leu Leu Lys
1 5 10

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<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*31:01

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Ala Gly Asn Arg Gly Trp Ala Gly Thr Arg
1 5 10

<210> 8107
<211> 9
<212> PRT
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<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*07:02,HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 8107
Ala Pro Ala Val Gln Gly Thr Asp Val
1 5

<210> 8108
<211> 11
<212> PRT
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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8108
Ala Pro Ala Val Gln Gly Thr Asp Val Glu Ala
1               5                   10


<210> 8109
<211> 10
<212> PRT
<213> Homo sapiens

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      HLA -B*56:01

<400> 8109
Ala Pro Ser Gly Glu Ile Lys Asn Glu Gly
1               5                   10


<210> 8110
<211> 10
<212> PRT
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<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -A*25:01,HLA-A*30:02,HLA-B*15:01

<400> 8110
Ala Val Gln Gly Thr Asp Val Glu Ala Phe
1               5                   10


<210> 8111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -B*51:01

<400> 8111
Asp Ala Pro Gly Asp Gly Pro Asp Val
1               5


<210> 8112
<211> 10
<212> PRT
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<220>
<223> Table 1.2; PAGE5; ENSG00000158639;

HLA -A*68:01

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Asp Ala Pro Gly Asp Gly Pro Asp Val Arg
1 5 10

<210> 8113
<211> 8
<212> PRT
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<220>
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HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 8113
Asp Met Ser Glu His Val Thr Arg
1 5

<210> 8114
<211> 8
<212> PRT
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<220>
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HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8114
Asp Pro Thr Lys Val Leu Glu Ala
1 5

<210> 8115
<211> 9
<212> PRT
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HLA -A*68:01,HLA-A*68:02,HLA-B*35:03,HLA-B*38:01

<400> 8115
Asp Val Glu Ala Phe Gln Gln Glu Leu
1 5

<210> 8116
<211> 10
<212> PRT
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HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03

<400> 8116
Asp Val Arg Glu Gly Thr Leu Pro Thr Phe
1 5 10

<210> 8117
<211> 9
<212> PRT
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HLA -A*25:01,HLA-A*68:01,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
HLA-B*51:01,HLA-C*03:03

<400> 8117
Glu Ala Phe Gln Gln Glu Leu Ala Leu
1 5

<210> 8118
<211> 10
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HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 8118
Glu Ala Phe Gln Gln Glu Leu Ala Leu Leu
1 5 10

<210> 8119
<211> 11
<212> PRT
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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*68:01,HLA-B*27:02

<400> 8119
Glu Ala Phe Gln Gln Glu Leu Ala Leu Leu Lys
1 5 10

<210> 8120
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*33:01,HLA-A*68:01,HLA-A*68:02

<400> 8120
Glu Asp Ala Pro Gly Asp Gly Pro Asp Val Arg
1 5 10

<210> 8121
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<212> PRT
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HLA -B*38:01,HLA-B*44:02

<400> 8121
Glu Glu Glu Pro Pro Thr Asp Asn Gln Gly Ile
1 5 10

<210> 8122
<211> 10
<212> PRT
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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*44:02,HLA-B*44:03

<400> 8122
Glu Glu Pro Pro Thr Asp Asn Gln Gly Ile
1 5 10

<210> 8123
<211> 11
<212> PRT
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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*33:01,HLA-A*33:03

<400> 8123
Glu His Val Thr Arg Ser Gln Ser Ser Glu Arg
1 5 10

<210> 8124
<211> 10
<212> PRT
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HLA -A*25:01,HLA-A*26:01

<400> 8124
Glu Ile Lys Asn Glu Gly Ala Pro Ala Val
1 5 10

<210> 8125
<211> 10
<212> PRT
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<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*68:01,HLA-A*68:02

<400> 8125
Glu Ser Ser Gln Pro Val Gly Pro Val Ile
1 5 10

<210> 8126
<211> 9
<212> PRT
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<220>
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HLA -A*26:01,HLA-A*68:02

<400> 8126
Glu Val Arg Asp Met Ser Glu His Val
1 5

<210> 8127
<211> 11
<212> PRT
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HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*57:01,
HLA-C*07:06

<400> 8127
Glu Val Arg Asp Met Ser Glu His Val Thr Arg

1 5 10

<210> 8128
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HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*13:02

<400> 8128
Phe Gln Gln Glu Leu Ala Leu Leu Lys Ile
1 5 10

<210> 8129
<211> 9
<212> PRT
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<220>
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HLA -B*40:02

<400> 8129
Gly Glu Ile Lys Asn Glu Gly Ala Pro
1 5

<210> 8130
<211> 10
<212> PRT
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HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 8130
Gly Glu Ile Lys Asn Glu Gly Ala Pro Ala
1 5 10

<210> 8131
<211> 11
<212> PRT
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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*30:01,HLA-B*13:02,HLA-B*40:01,HLA-B*40:02,HLA-B*44:03,
HLA-B*49:01,HLA-C*16:04

<400> 8131
Gly Glu Ile Lys Asn Glu Gly Ala Pro Ala Val
1 5 10

<210> 8132
<211> 9
<212> PRT
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HLA -A*03:02

<400> 8132
Gly Ile Ala Pro Ser Gly Glu Ile Lys
1 5

<210> 8133
<211> 9
<212> PRT
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<400> 8133
Gly Pro Asp Val Arg Glu Gly Thr Leu
1 5

<210> 8134
<211> 11
<212> PRT
<213> Homo sapiens

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HLA -B*39:01

<400> 8134
Gly Thr Asp Val Glu Ala Phe Gln Gln Glu Leu
1 5 10

<210> 8135
<211> 10
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HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-B*57:01

<400> 8135
Gly Thr Leu Pro Thr Phe Asp Pro Thr Lys
1 5 10

<210> 8136
<211> 9
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<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -C*16:01

<400> 8136
Gly Thr Arg Glu Glu Val Arg Asp Met
1 5

<210> 8137
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<212> PRT
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HLA -A*68:01,HLA-C*07:06

<400> 8137
His Val Thr Arg Ser Gln Ser Ser Glu Arg
1 5 10

<210> 8138
<211> 9
<212> PRT
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HLA -B*15:03

<400> 8138
Ile Lys Asn Glu Gly Ala Pro Ala Val
1 5

<210> 8139
<211> 9
<212> PRT
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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 8139
Ile Val Gln Gln Pro Thr Glu Glu Lys
1 5

<210> 8140
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*68:01

<400> 8140
Ile Val Gln Gln Pro Thr Glu Glu Lys Arg
1 5 10

<210> 8141
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*27:05,HLA-B*40:01,HLA-B*40:02,HLA-B*58:01

<400> 8141
Lys Val Leu Glu Ala Gly Glu Gly Gln Leu
1 5 10

<210> 8142
<211> 8
<212> PRT
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HLA -B*39:01,HLA-B*40:01

<400> 8142
Leu Glu Ala Gly Glu Gly Gln Leu
1 5

<210> 8143
<211> 8

<212> PRT
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HLA -B*27:02

<400> 8143
Leu Pro Thr Phe Asp Pro Thr Lys
1 5

<210> 8144
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HLA -B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 8144
Leu Pro Thr Phe Asp Pro Thr Lys Val
1 5

<210> 8145
<211> 10
<212> PRT
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HLA -B*35:03

<400> 8145
Leu Pro Thr Phe Asp Pro Thr Lys Val Leu
1 5 10

<210> 8146
<211> 9
<212> PRT
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HLA -A*31:01

<400> 8146
Met Gln Ala Pro Trp Ala Gly Asn Arg
1 5

<210> 8147
<211> 11
<212> PRT
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HLA -B*57:01

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Met Gln Ala Pro Trp Ala Gly Asn Arg Gly Trp
1 5 10

<210> 8148
<211> 11
<212> PRT
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<220>
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HLA -B*27:02

<400> 8148
Pro Ala Val Gln Gly Thr Asp Val Glu Ala Phe
1 5 10

<210> 8149
<211> 8
<212> PRT
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<220>
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HLA -B*44:03,HLA-B*49:01

<400> 8149
Gln Glu Leu Ala Leu Leu Lys Ile
1 5

<210> 8150
<211> 11
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<213> Homo sapiens

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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*30:01,HLA-B*38:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 8150
Gln Glu Ser Ser Gln Pro Val Gly Pro Val Ile

1 5 10

<210> 8151
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*07:02

<400> 8151
Gln Gly Ile Ala Pro Ser Gly Glu Ile
1 5

<210> 8152
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*27:02

<400> 8152
Gln Gly Ile Ala Pro Ser Gly Glu Ile Lys
1 5 10

<210> 8153
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*56:01

<400> 8153
Gln Pro Val Gly Pro Val Ile Val
1 5

<210> 8154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*35:01,HLA-B*56:01

<400> 8154
Gln Pro Val Gly Pro Val Ile Val Gln
1               5


<210> 8155
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -B*56:01

<400> 8155
Gln Pro Val Gly Pro Val Ile Val Gln Gln Pro
1               5                   10


<210> 8156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -B*13:02,HLA-B*38:01

<400> 8156
Gln Gln Glu Leu Ala Leu Leu Lys Ile
1               5


<210> 8157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -A*31:01

<400> 8157
Arg Asp Met Ser Glu His Val Thr Arg
1               5


<210> 8158
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;

HLA -B*37:01

<400> 8158
Arg Glu Gly Thr Leu Pro Thr Phe
1 5

<210> 8159
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*13:02,HLA-B*15:03,HLA-B*39:01,HLA-B*51:01

<400> 8159
Ser Gln Pro Val Gly Pro Val Ile
1 5

<210> 8160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*02:03,HLA-A*02:07,HLA-B*13:02

<400> 8160
Ser Gln Pro Val Gly Pro Val Ile Val
1 5

<210> 8161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*23:01,HLA-A*32:01,HLA-B*13:02,HLA-B*38:01,HLA-B*39:01,
HLA-B*46:01,HLA-B*51:01,HLA-B*58:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*16:02

<400> 8161
Ser Ser Gln Pro Val Gly Pro Val Ile
1 5

<210> 8162
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*30:01,HLA-A*68:02,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02

<400> 8162
Thr Asp Val Glu Ala Phe Gln Gln Glu Leu
1 5 10

<210> 8163
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -C*04:01

<400> 8163
Thr Phe Asp Pro Thr Lys Val Leu
1 5

<210> 8164
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -C*04:01

<400> 8164
Thr Phe Asp Pro Thr Lys Val Leu Glu
1 5

<210> 8165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*02:07

<400> 8165
Thr Leu Pro Thr Phe Asp Pro Thr Lys
1 5

<210> 8166
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 8166
Thr Leu Pro Thr Phe Asp Pro Thr Lys Val
1 5 10

<210> 8167
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*24:02

<400> 8167
Thr Leu Pro Thr Phe Asp Pro Thr Lys Val Leu
1 5 10

<210> 8168
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*49:01,HLA-C*16:04

<400> 8168
Val Glu Ala Phe Gln Gln Glu Leu
1 5

<210> 8169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*49:01

<400> 8169
Val Glu Ala Phe Gln Gln Glu Leu Ala

1 5

<210> 8170
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*30:01,HLA-B*40:01

<400> 8170
Val Glu Ala Phe Gln Gln Glu Leu Ala Leu
1 5 10

<210> 8171
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -B*40:01

<400> 8171
Val Glu Ala Phe Gln Gln Glu Leu Ala Leu Leu
1 5 10

<210> 8172
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 8172
Val Ile Val Gln Gln Pro Thr Glu Glu Lys
1 5 10

<210> 8173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
HLA -A*02:01,HLA-B*39:01,HLA-C*05:01

<400> 8173
Val Leu Glu Ala Gly Glu Gly Gln Leu
1               5


<210> 8174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*38:01,HLA-B*39:01

<400> 8174
Val Gln Gly Thr Asp Val Glu Ala Phe
1               5


<210> 8175
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -B*27:05

<400> 8175
Val Arg Asp Met Ser Glu His Val Thr Arg
1               5                   10


<210> 8176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;
      HLA -B*27:02,HLA-B*27:05

<400> 8176
Val Arg Glu Gly Thr Leu Pro Thr Phe
1               5


<210> 8177
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PAGE5; ENSG00000158639;

HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 8177
Val Thr Arg Ser Gln Ser Ser Glu Arg
1 5

<210> 8178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*32:01,HLA-B*07:02,HLA-B*13:02,HLA-B*15:03,HLA-B*39:01,
HLA-B*46:01,HLA-B*51:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,
HLA-C*03:04,HLA-C*16:02

<400> 8178
Ala Ala Ala Ala Ala Ala Ala Ala Ile
1 5

<210> 8179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01

<400> 8179
Ala Ala Glu Gln Gln Pro Ser Gly Phe
1 5

<210> 8180
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*30:02

<400> 8180
Ala Ala Glu Gln Gln Pro Ser Gly Phe Tyr
1 5 10

<210> 8181
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*01:02

<400> 8181
Ala Ala Gly Ala Ser Ala Gln Pro Leu
1 5

<210> 8182
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01

<400> 8182
Ala Ala Tyr Gln Pro Asp Gln Met
1 5

<210> 8183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 8183
Ala Ala Tyr Gln Pro Asp Gln Met Arg
1 5

<210> 8184
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01,HLA-B*56:01

<400> 8184
Ala Ala Tyr Gln Pro Asp Gln Met Arg Ser Ala
1 5 10

<210> 8185

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:02,HLA-B*15:03

<400> 8185
Ala Cys Val Pro Gln Glu Asp Arg Leu Tyr
1 5 10

<210> 8186
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01

<400> 8186
Ala Asp Pro Val Asp Leu Glu Phe
1 5

<210> 8187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 8187
Ala Glu Ile Val Gly Lys Lys Leu
1 5

<210> 8188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 8188
Ala Glu Ile Val Gly Lys Lys Leu Leu
1 5

<210> 8189
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*49:01

<400> 8189
Ala Glu Asn Ile Ser Ser Leu Leu
1 5

<210> 8190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8190
Ala Glu Asn Ile Ser Ser Leu Leu Gly
1 5

<210> 8191
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8191
Ala Glu Asn Ile Ser Ser Leu Leu Gly His Leu
1 5 10

<210> 8192
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 8192

Ala Glu Gln Gln Pro Ser Gly Phe
1               5


<210> 8193
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*37:01,
      HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 8193
Ala Glu Gln Gln Pro Ser Gly Phe Tyr
1               5


<210> 8194
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*44:02

<400> 8194
Ala Glu Gln Gln Pro Ser Gly Phe Tyr Gln
1               5                   10


<210> 8195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*37:01

<400> 8195
Ala Glu Gln Thr Arg Leu Met Pro Ala
1               5


<210> 8196
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;

HLA -A*30:02,HLA-C*14:02

<400> 8196
Ala Phe Gln Gly Pro Ala Ala Tyr
1 5

<210> 8197
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8197
Ala Gly Gln Val Lys Arg Pro Leu
1 5

<210> 8198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*01:02,HLA-C*14:02

<400> 8198
Ala Ile Gln Asn Gln Gln Asn Ala Leu
1 5

<210> 8199
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*26:01

<400> 8199
Ala Ile Ser Ser Ser Ser Ile Pro Gln Phe
1 5 10

<210> 8200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*13:02,HLA-B*27:05,HLA-C*07:06

<400> 8200
Ala Gln Pro Ile Val Pro Val Gln Arg
1 5

<210> 8201
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*56:01

<400> 8201
Ala Val Tyr Val Glu Pro Ala Ala
1 5

<210> 8202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*25:01,HLA-A*32:01,HLA-B*13:02,HLA-B*27:05,HLA-B*37:01,
HLA-B*40:02,HLA-B*46:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,

<220>
<223> HLA-C*03:03

<400> 8202
Ala Val Tyr Val Glu Pro Ala Ala Ala
1 5

<210> 8203
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:03,HLA-A*03:01,HLA-B*54:01,HLA-B*56:01

<400> 8203
Ala Val Tyr Val Glu Pro Ala Ala Ala Ala

1 5 10

<210> 8204
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:01,HLA-B*56:01

<400> 8204
Ala Val Tyr Val Glu Pro Ala Ala Ala Ala Ala
1 5 10

<210> 8205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-C*04:01,HLA-C*07:04,HLA-C*14:02

<400> 8205
Ala Tyr Asp Ile Ile Ser Gln Glu Leu
1 5

<210> 8206
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*24:02

<400> 8206
Ala Tyr Asp Ile Ile Ser Gln Glu Leu Glu Leu
1 5 10

<210> 8207
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 8207
Ala Tyr Gln Gly Pro Pro Val Asn Gln Leu
1               5                   10


<210> 8208
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -C*14:02

<400> 8208
Ala Tyr Gln Pro Asp Gln Met Arg Ser Ala
1               5                   10


<210> 8209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*02:01,HLA-A*02:03,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,
      HLA-B*27:05,HLA-B*46:01,HLA-C*01:02

<400> 8209
Cys Val Ala Glu Asn Ile Ser Ser Leu
1               5


<210> 8210
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*51:01

<400> 8210
Asp Ala Ile Gln Asn Gln Gln Asn Ala
1               5


<210> 8211
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*68:01,HLA-B*35:03,HLA-B*51:01

<400> 8211
Asp Ala Ile Gln Asn Gln Gln Asn Ala Leu
1 5 10

<210> 8212
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*18:01

<400> 8212
Asp Glu Glu Lys Asp Glu Val Tyr
1 5

<210> 8213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*18:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02

<400> 8213
Asp Glu Glu Pro Phe Val Gly Glu Leu
1 5

<210> 8214
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*18:01

<400> 8214
Asp Glu Ser Gln Ser Phe Tyr Pro Glu Ala Tyr
1 5 10

<210> 8215
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*18:01

<400> 8215
Asp Glu Val Tyr Gln Lys Ile Ile Leu
1 5

<210> 8216
<211> 10
<212> PRT
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<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*38:01,HLA-B*39:01

<400> 8216
Asp His Leu Gln Lys Gln Pro Asn Thr Leu
1 5 10

<210> 8217
<211> 8
<212> PRT
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<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*26:01,HLA-B*18:01

<400> 8217
Asp Ile Ala Glu Val Glu Gln Tyr
1 5

<210> 8218
<211> 10
<212> PRT
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<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01

<400> 8218
Asp Ile Cys Asn Glu Phe Pro Val Val Phe
1 5 10

<210> 8219

<211> 9
<212> PRT
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<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*26:01,HLA-B*35:03

<400> 8219
Asp Ile Ile Ser Gln Glu Leu Glu Leu
1 5

<210> 8220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*26:01

<400> 8220
Asp Ile Ile Ser Gln Glu Leu Glu Leu Met
1 5 10

<210> 8221
<211> 10
<212> PRT
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<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*68:01,HLA-B*27:02

<400> 8221
Asp Leu Gln Ser Ser Glu Ala Val Pro Lys
1 5 10

<210> 8222
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*68:01

<400> 8222
Asp Leu Gln Ser Ser Glu Ala Val Pro Lys Lys
1 5 10

<210> 8223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:03

<400> 8223
Asp Pro Glu Asn Pro Val Ala Pro Leu
1 5

<210> 8224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 8224
Asp Pro Val Asp Leu Glu Phe Ser Val
1 5

<210> 8225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:03,HLA-B*51:01

<400> 8225
Asp Pro Val Asp Pro Glu Asp Ser Val
1 5

<210> 8226
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:03

<400> 8226
Asp Pro Val Asp Pro Glu Asp Ser Val Asp Leu

1 5 10

<210> 8227
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02,HLA-B*15:01,HLA-B*18:01,
HLA-B*27:05,HLA-B*35:01

<400> 8227
Asp Gln Ile Asp Ile Ala Glu Val Glu Gln Tyr
1 5 10

<210> 8228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*39:01

<400> 8228
Asp Gln Gln Asp Pro Glu Asn Pro Val
1 5

<210> 8229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:02,HLA-B*51:01

<400> 8229
Asp Ser Leu Gly Pro Val Val Gln Val
1 5

<210> 8230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*68:01

<400> 8230
Asp Ser Ser Ala Tyr Glu Asn Val Lys
1               5


<210> 8231
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*33:01

<400> 8231
Asp Ser Ser Ala Tyr Glu Asn Val Lys Phe
1               5                   10


<210> 8232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*02:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,
      HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*08:01,HLA-B*18:01,
      HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,

<220>
<223> HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*51:01,HLA-B*58:01,
      HLA-C*03:03,HLA-C*03:04

<400> 8232
Asp Thr Met Pro Glu Ser Pro Ala Leu
1               5


<210> 8233
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-C*07:06

<400> 8233
Asp Thr Met Pro Glu Ser Pro Ala Leu Ser Leu
1               5                   10

<210> 8234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:01

<400> 8234
Asp Val Ser Val Pro Leu Cys Asn His
1 5

<210> 8235
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01

<400> 8235
Asp Tyr Phe Asn Gln Val Thr Leu
1 5

<210> 8236
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01

<400> 8236
Asp Tyr Phe Asn Gln Val Thr Leu Gln Leu
1 5 10

<210> 8237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*24:02

<400> 8237
Asp Tyr Ile Arg Leu Trp Gln Glu Leu

1 5

<210> 8238
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-B*51:01

<400> 8238
Glu Ala Ile Ser Ser Ser Ser Ile
1 5

<210> 8239
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-B*35:01,
HLA-B*58:01

<400> 8239
Glu Ala Ile Ser Ser Ser Ser Ile Pro Gln Phe
1 5 10

<210> 8240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:03,HLA-A*68:01

<400> 8240
Glu Ala Val Pro Lys Lys Gln Gln Lys
1 5

<210> 8241
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*51:01

<400> 8241
Glu Ala Tyr Gln Gly Pro Pro Val
1               5


<210> 8242
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02

<400> 8242
Glu Ala Tyr Gln Gly Pro Pro Val Asn Gln Leu
1               5                   10


<210> 8243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 8243
Glu Glu Glu Gln Gln Lys Gln Gln Leu
1               5


<210> 8244
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*44:02,HLA-B*44:03

<400> 8244
Glu Glu Lys Asp Glu Val Tyr Gln Lys Ile
1               5                   10


<210> 8245
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-A*26:01

<400> 8245
Glu Phe Pro Val Val Phe Ser Gly Leu
1 5

<210> 8246
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*24:02

<400> 8246
Glu Phe Pro Val Val Phe Ser Gly Leu Phe
1 5 10

<210> 8247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01

<400> 8247
Glu Gly Pro Pro Asp Pro Gln Ala Phe
1 5

<210> 8248
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8248
Glu Ile Val Gly Lys Lys Leu Leu
1 5

<210> 8249
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01

<400> 8249
Glu Ile Val Gly Lys Lys Leu Leu Ser Leu
1 5 10

<210> 8250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03

<400> 8250
Glu Leu Gln Glu Pro Cys Val Ala Phe
1 5

<210> 8251
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*26:01

<400> 8251
Glu Leu Ser Asp Ser Leu Gly Pro Val Val
1 5 10

<210> 8252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:03

<400> 8252
Glu Leu Ser Ser Ser Gln Gly Gln Arg
1 5

<210> 8253
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*26:01

<400> 8253
Glu Asn Ile Ser Ser Leu Leu Gly His
1 5

<210> 8254
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*68:02

<400> 8254
Glu Asn Val Lys Phe Ile Val Asn Val
1 5

<210> 8255
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:03

<400> 8255
Glu Asn Val Lys Phe Ile Val Asn Val Arg
1 5 10

<210> 8256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:03,HLA-B*54:01,HLA-B*56:01

<400> 8256
Glu Pro Ala Ala Ala Ala Ala Ala Ala
1 5

<210> 8257
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-B*35:01,HLA-B*55:01,HLA-C*03:03

<400> 8257
Glu Pro Glu Val Asn Pro Leu Tyr
1 5

<210> 8258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:03,HLA-A*68:01

<400> 8258
Glu Pro Glu Val Asn Pro Leu Tyr Arg
1 5

<210> 8259
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*26:01

<400> 8259
Glu Gln Gly Thr Leu His Gly Gln Pro Thr Tyr
1 5 10

<210> 8260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:03

<400> 8260
Glu Gln His Leu Lys Glu Gln Gln Arg
1 5

<210> 8261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8261
Glu Gln Pro Leu Lys His Asn Val Ile
1 5

<210> 8262
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:02,HLA-B*39:01

<400> 8262
Glu Gln Gln Pro Ser Gly Phe Tyr
1 5

<210> 8263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*39:01

<400> 8263
Glu Gln Tyr Gly Pro Gln Glu Asn Val
1 5

<210> 8264
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*26:01,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 8264

Glu Gln Tyr Gly Pro Gln Glu Asn Val His Met
1               5                   10


<210> 8265
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*26:01

<400> 8265
Glu Ser Pro Ala Leu Ser Leu Gln Asp Phe
1               5                   10


<210> 8266
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02

<400> 8266
Glu Ser Gln Ser Phe Tyr Pro Glu Ala Tyr
1               5                   10


<210> 8267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*68:02

<400> 8267
Glu Thr Pro Gln Asp Tyr Ile Arg Leu
1               5


<210> 8268
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*25:01,HLA-B*44:02,HLA-B*57:01

<400> 8268
Glu Thr Pro Gln Asp Tyr Ile Arg Leu Trp
1               5                   10


<210> 8269
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*68:02

<400> 8269
Glu Val Glu Gln Tyr Gly Pro Gln Glu Asn Val
1               5                   10


<210> 8270
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*08:01

<400> 8270
Glu Val Tyr Gln Lys Ile Ile Leu
1               5


<210> 8271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*03:01,HLA-A*11:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,
      HLA-A*68:01

<400> 8271
Glu Val Tyr Gln Lys Ile Ile Leu Lys
1               5


<210> 8272
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:02

<400> 8272
Glu Val Tyr Gln Lys Ile Ile Leu Lys Phe
1 5 10

<210> 8273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01

<400> 8273
Phe Leu Asp Thr Met Pro Glu Ser Pro Ala
1 5 10

<210> 8274
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:07,HLA-B*38:01

<400> 8274
Phe Leu Asp Thr Met Pro Glu Ser Pro Ala Leu
1 5 10

<210> 8275
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03

<400> 8275
Phe Leu Gln Ala Gln Pro Ile Val Pro Val
1 5 10

<210> 8276
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03

<400> 8276
Phe Met Ile Thr Leu Ser Thr Asp Gly Val
1 5 10

<210> 8277
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 8277
Phe Pro Ile Thr Ser Asp Ser Thr Ile
1 5

<210> 8278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01

<400> 8278
Phe Pro Leu Leu Asn Ser Glu Thr
1 5

<210> 8279
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:01

<400> 8279
Phe Pro Leu Leu Asn Ser Glu Thr His
1 5

<210> 8280

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*51:01

<400> 8280
Phe Pro Leu Leu Asn Ser Glu Thr His Ile
1 5 10

<210> 8281
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01

<400> 8281
Phe Pro Thr Tyr Asp Tyr Phe Asn Gln Val
1 5 10

<210> 8282
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01

<400> 8282
Phe Pro Val Val Phe Ser Gly Leu
1 5

<210> 8283
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:01

<400> 8283
Phe Pro Val Val Phe Ser Gly Leu Phe
1 5

<210> 8284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:05

<400> 8284
Phe Gln Gly Pro Ala Ala Tyr Gln Pro
1 5

<210> 8285
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:05

<400> 8285
Phe Arg Gly Glu Pro Glu Val Asn Pro Leu
1 5 10

<210> 8286
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*68:02

<400> 8286
Phe Ser Val Asp Gln Val Asp Ser Val
1 5

<210> 8287
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-B*39:01,HLA-B*55:01,HLA-C*05:01

<400> 8287
Phe Val Asp Ser Asp Ser Thr Tyr

1 5

<210> 8288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:07,HLA-B*35:03,HLA-C*05:01

<400> 8288
Phe Val Asp Ser Asp Ser Thr Tyr Cys
1 5

<210> 8289
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*40:01

<400> 8289
Gly Ala Ala Gly Ala Ser Ala Gln Pro Leu
1 5 10

<210> 8290
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:02

<400> 8290
Gly Asp Ser Ser Ala Tyr Glu Asn Val Lys
1 5 10

<210> 8291
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01

<400> 8291
Gly Glu Leu Gln Glu Pro Cys Val Ala
1               5


<210> 8292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
      HLA-B*44:03

<400> 8292
Gly Glu Leu Gln Glu Pro Cys Val Ala Phe
1               5                   10


<210> 8293
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*37:01

<400> 8293
Gly Glu Pro Glu Val Asn Pro Leu
1               5


<210> 8294
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*26:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-B*15:01,
      HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,
      HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*58:01,

<220>
<223> HLA-C*16:04

<400> 8294
Gly Glu Pro Glu Val Asn Pro Leu Tyr
1               5


<210> 8295

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:02,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 8295
Gly Glu Pro Glu Val Asn Pro Leu Tyr Arg
1 5 10

<210> 8296
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:02,HLA-B*27:05

<400> 8296
Gly His Leu Pro Ala Glu Ile Val Gly Lys
1 5 10

<210> 8297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*15:03

<400> 8297
Gly His Thr Ser Met Lys Ala Val Tyr
1 5

<210> 8298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:01,HLA-A*03:02

<400> 8298
Gly Leu Ser Leu Ser Asn Ser Leu Lys
1 5

<210> 8299
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*29:02,HLA-A*30:02

<400> 8299
Gly Asn Val Glu His Gly Asp Ser Ser Ala Tyr
1 5 10

<210> 8300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*35:01,HLA-B*55:01

<400> 8300
Gly Pro Gln Glu Asn Val His Met Phe
1 5

<210> 8301
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*56:01

<400> 8301
Gly Pro Gln Glu Asn Val His Met Phe Val
1 5 10

<210> 8302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,
HLA-B*58:01,HLA-C*16:04

<400> 8302

Gly Pro Val Val Gln Val Asn Thr Trp
1               5


<210> 8303
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*13:02

<400> 8303
Gly Gln Pro Thr Tyr His Gln Val
1               5


<210> 8304
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:01,HLA-B*13:02

<400> 8304
Gly Gln Pro Thr Tyr His Gln Val Gln Val
1               5                   10


<210> 8305
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*15:01

<400> 8305
Gly Gln Gln Glu Asp Glu Ser Gln Ser Phe
1               5                   10


<210> 8306
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:02,HLA-B*15:01,HLA-B*27:05

<400> 8306
Gly Gln Gln Glu Asp Glu Ser Gln Ser Phe Tyr
1               5                   10


<210> 8307
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*15:01,HLA-B*15:03

<400> 8307
Gly Gln Arg Gly His Thr Ser Met
1               5


<210> 8308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*03:01

<400> 8308
Gly Gln Val Lys Arg Pro Leu Pro His
1               5


<210> 8309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*01:01,HLA-A*11:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,HLA-B*57:01,
      HLA-B*58:01

<400> 8309
Gly Thr Leu His Gly Gln Pro Thr Tyr
1               5


<210> 8310
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*39:01

<400> 8310
Gly Val Glu Gly Pro Pro Asp Pro Gln Ala Phe
1 5 10

<210> 8311
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01

<400> 8311
His Asp Ala Ile Gln Asn Gln Gln Asn Ala Leu
1 5 10

<210> 8312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*32:01,HLA-B*13:02,HLA-C*16:02

<400> 8312
His Gly Gln Pro Thr Tyr His Gln Val
1 5

<210> 8313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:03,HLA-B*08:01

<400> 8313
His Leu Lys Glu Gln Gln Arg Gln Leu
1 5

<210> 8314
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 8314
His Leu Pro Ala Glu Ile Val Gly Lys
1 5

<210> 8315
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:01

<400> 8315
His Leu Pro Ala Glu Ile Val Gly Lys Lys
1 5 10

<210> 8316
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:07

<400> 8316
His Leu Pro Ala Glu Ile Val Gly Lys Lys Leu
1 5 10

<210> 8317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:03,HLA-A*02:04,HLA-A*03:02,HLA-B*08:01

<400> 8317
His Leu Gln Lys Gln Pro Asn Thr Leu
1 5

<210> 8318
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,
HLA-B*55:01,HLA-B*58:01,HLA-C*07:04

<400> 8318
His Met Phe Val Asp Ser Asp Ser Thr Tyr
1 5 10

<210> 8319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 8319
His Asn Val Ile Val Gly Asn Glu Arg
1 5

<210> 8320
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01,HLA-B*56:01

<400> 8320
His Pro Val Arg Phe Leu Gln Ala
1 5

<210> 8321
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*13:02,HLA-B*39:01,HLA-B*40:02

<400> 8321

His Gln Val Gln Val Ser Glu Val
1               5


<210> 8322
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*13:02,HLA-B*39:01

<400> 8322
His Gln Val Gln Val Ser Glu Val Gly Val
1               5                   10


<210> 8323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*68:02

<400> 8323
His Thr Ser Met Lys Ala Val Tyr Val
1               5


<210> 8324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
      HLA-B*35:01,HLA-B*44:02,HLA-B*44:03

<400> 8324
Ile Asp Ile Ala Glu Val Glu Gln Tyr
1               5


<210> 8325
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;

HLA -B*27:02

<400> 8325
Ile Ile Ser Gln Glu Leu Glu Leu Met Lys
1 5 10

<210> 8326
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:03

<400> 8326
Ile Leu Arg Thr Gln Leu Leu Gln Gln Leu
1 5 10

<210> 8327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*56:01

<400> 8327
Ile Pro Asp Leu Gln Ser Ser Glu Ala
1 5

<210> 8328
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*29:02,HLA-B*35:01,HLA-B*55:01

<400> 8328
Ile Pro Ser Phe Pro Thr Tyr Asp Tyr
1 5

<210> 8329
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*15:01,HLA-B*15:03,HLA-B*39:01

<400> 8329
Ile Gln Asn Gln Gln Asn Ala Leu
1 5

<210> 8330
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*15:01

<400> 8330
Ile Gln Asn Gln Gln Asn Ala Leu Glu Leu Met
1 5 10

<210> 8331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01

<400> 8331
Ile Ser Asp Asp Gln Ile Asp Ile
1 5

<210> 8332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*11:01,HLA-B*27:02

<400> 8332
Ile Ser Gln Glu Leu Glu Leu Met Lys
1 5

<210> 8333
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*11:01

<400> 8333
Ile Ser Gln Glu Leu Glu Leu Met Lys Lys
1 5 10

<210> 8334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,
HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:01

<400> 8334
Ile Ser Ser Ser Ser Ile Pro Gln Phe
1 5

<210> 8335
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01

<400> 8335
Ile Ser Thr Leu Glu Thr Pro Gln Asp Tyr
1 5 10

<210> 8336
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*68:01

<400> 8336
Ile Thr Ser Asp Ser Thr Ile Ser Thr Leu
1 5 10

<210> 8337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8337
Ile Val Gly Lys Lys Leu Leu Ser Leu
1 5

<210> 8338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*35:03,HLA-B*40:01,HLA-B*58:01,HLA-C*03:03,
HLA-C*03:04,HLA-C*16:02

<400> 8338
Lys Ala Val Ser Asp Glu Ala Val Leu
1 5

<210> 8339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*40:02,HLA-B*54:01,HLA-B*56:01,HLA-B*58:01

<400> 8339
Lys Ala Val Tyr Val Glu Pro Ala Ala
1 5

<210> 8340
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*56:01

<400> 8340
Lys Ala Val Tyr Val Glu Pro Ala Ala Ala

1 5 10

<210> 8341
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*56:01

<400> 8341
Lys Ala Val Tyr Val Glu Pro Ala Ala Ala Ala
1 5 10

<210> 8342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*44:02,HLA-B*44:03

<400> 8342
Lys Glu Gln Leu Glu Glu Arg Thr Trp
1 5

<210> 8343
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*31:01

<400> 8343
Lys His Asn Val Ile Val Gly Asn Glu Arg
1 5 10

<210> 8344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:04,HLA-A*02:07,HLA-A*24:02

<400> 8344
Lys Ile Ile Leu Lys Phe Pro Leu Leu
1               5


<210> 8345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*31:01,HLA-B*46:01

<400> 8345
Lys Leu Lys Glu Gln Leu Glu Glu Arg
1               5


<210> 8346
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*57:01

<400> 8346
Lys Leu Lys Glu Gln Leu Glu Glu Arg Thr Trp
1               5                   10


<210> 8347
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 8347
Lys Leu Gln Glu Gln Lys Met Gln Glu Lys
1               5                   10


<210> 8348
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;

HLA -A*03:02,HLA-A*11:01

<400> 8348
Lys Gln Gln Leu Gln Glu Gln Pro Leu Lys
1 5 10

<210> 8349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:01,HLA-A*03:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,
HLA-A*33:03

<400> 8349
Lys Val Asn Pro Lys Ser Ser Gln Arg
1 5

<210> 8350
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:01,HLA-A*03:02

<400> 8350
Lys Val Asn Pro Lys Ser Ser Gln Arg Lys
1 5 10

<210> 8351
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*18:01,HLA-B*49:01

<400> 8351
Leu Glu Phe Ser Val Asp Gln Val
1 5

<210> 8352
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8352
Leu Glu Phe Ser Val Asp Gln Val Asp Ser Val
1 5 10

<210> 8353
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8353
Leu Glu Thr Pro Gln Asp Tyr Ile
1 5

<210> 8354
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*44:02,HLA-B*44:03,HLA-B*57:01

<400> 8354
Leu Glu Thr Pro Gln Asp Tyr Ile Arg Leu Trp
1 5 10

<210> 8355
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-B*58:01

<400> 8355
Leu Gly Pro Val Val Gln Val Asn Thr Trp
1 5 10

<210> 8356
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-B*38:01

<400> 8356
Leu Leu Asp Gly Phe Met Ile Thr Leu
1 5

<210> 8357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 8357
Leu Leu Gly His Leu Pro Ala Glu Ile
1 5

<210> 8358
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*32:01,HLA-B*15:01

<400> 8358
Leu Leu Asn Ser Glu Thr His Ile Glu Phe
1 5 10

<210> 8359
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*15:01

<400> 8359
Leu Leu Pro Asp Glu Glu Lys Asp Glu Val Tyr
1 5 10

<210> 8360
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01

<400> 8360
Leu Leu Gln Gln Leu Tyr Thr Ser Lys
1 5

<210> 8361
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:07

<400> 8361
Leu Met Asp Pro Val Asp Pro Glu Asp Ser Val
1 5 10

<210> 8362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*29:02,HLA-C*16:01

<400> 8362
Leu Asn Ser Glu Thr His Ile Glu Phe
1 5

<210> 8363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*51:01

<400> 8363
Leu Pro Ala Glu Ile Val Gly Lys Lys
1 5

<210> 8364
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*56:01

<400> 8364
Leu Pro Ala Glu Ile Val Gly Lys Lys Leu
1 5 10

<210> 8365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:03,HLA-B*51:01,HLA-B*55:01

<400> 8365
Leu Pro Asp Glu Glu Lys Asp Glu Val
1 5

<210> 8366
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*03:03

<400> 8366
Leu Pro Asp Glu Glu Lys Asp Glu Val Tyr
1 5 10

<210> 8367
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01,HLA-B*56:01

<400> 8367

Leu Pro Leu Ile Asp Thr Ser Asn Ser Glu Ala
1               5                   10


<210> 8368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 8368
Leu Gln Ala Gln Pro Ile Val Pro Val
1               5


<210> 8369
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 8369
Leu Gln Ala Gln Pro Ile Val Pro Val Gln Arg
1               5                   10


<210> 8370
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*08:01

<400> 8370
Leu Gln Lys Gln Pro Asn Thr Leu
1               5


<210> 8371
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*31:01

<400> 8371
Leu Gln Lys Gln Pro Asn Thr Leu Arg
1               5


<210> 8372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*02:01,HLA-A*02:03,HLA-A*32:01,HLA-B*08:01,HLA-B*13:02,
      HLA-B*37:01

<400> 8372
Leu Gln Asn Pro Arg Asp Val Ser Val
1               5


<210> 8373
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*46:01,HLA-C*02:02,HLA-C*07:04,HLA-C*14:02

<400> 8373
Leu Gln Pro Ser Ser Pro Val Ala Tyr
1               5


<210> 8374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*03:02

<400> 8374
Leu Gln Ser Ser Glu Ala Val Pro Lys
1               5


<210> 8375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01

<400> 8375
Leu Ser Asp Ser Leu Gly Pro Val Val
1 5

<210> 8376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01

<400> 8376
Leu Val Gln Gln Glu Gln His Leu Lys
1 5

<210> 8377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02

<400> 8377
Leu Tyr Leu Val Gly Asn Val Cys Ile
1 5

<210> 8378
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02

<400> 8378
Leu Tyr Arg Ala Asp Pro Val Asp Leu Glu Phe
1 5 10

<210> 8379
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*46:01,HLA-B*55:01,
HLA-C*04:01,HLA-C*07:04,HLA-C*14:02

<400> 8379
Met Phe Val Asp Ser Asp Ser Thr Tyr
1 5

<210> 8380
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*55:01

<400> 8380
Met Pro Ala Glu Gln Arg Asp Ser Asn Lys Pro
1 5 10

<210> 8381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*05:01,HLA-C*07:02

<400> 8381
Met Pro Glu Ser Pro Ala Leu Ser Leu
1 5

<210> 8382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:05

<400> 8382

Met Arg Ser Ala Glu Gln Thr Arg Leu
1               5


<210> 8383
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*18:01

<400> 8383
Asn Glu Phe Pro Val Val Phe Ser
1               5


<210> 8384
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
      HLA-B*49:01

<400> 8384
Asn Glu Phe Pro Val Val Phe Ser Gly Leu
1               5                   10


<210> 8385
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*44:02,HLA-B*44:03

<400> 8385
Asn Glu Phe Pro Val Val Phe Ser Gly Leu Phe
1               5                   10


<210> 8386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;

HLA -B*07:02

<400> 8386
Asn Pro Lys Ser Ser Gln Arg Lys Leu
1 5

<210> 8387
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-C*07:02

<400> 8387
Asn Pro Arg Asp Val Ser Val Pro Leu
1 5

<210> 8388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8388
Asn Pro Val Ala Pro Leu Asp Gln Ala
1 5

<210> 8389
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:03

<400> 8389
Asn Pro Val Ala Pro Leu Asp Gln Ala Gly Leu
1 5 10

<210> 8390
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01,HLA-C*16:01

<400> 8390
Asn Ser Glu Thr His Ile Glu Phe
1 5

<210> 8391
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01

<400> 8391
Asn Val Glu His Gly Asp Ser Ser Ala Tyr
1 5 10

<210> 8392
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*68:01

<400> 8392
Asn Val Ile Val Gly Asn Glu Arg
1 5

<210> 8393
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*68:02

<400> 8393
Asn Val Ile Val Gly Asn Glu Arg Val
1 5

<210> 8394
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 8394
Asn Val Lys Phe Ile Val Asn Val Arg
1 5

<210> 8395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 8395
Asn Trp Ile Pro Ser Phe Pro Thr Tyr
1 5

<210> 8396
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02

<400> 8396
Pro Ala Ala Ala Ala Ala Ala Ala Ala Ile
1 5 10

<210> 8397
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*68:01

<400> 8397
Pro Ala Ala Tyr Gln Pro Asp Gln Met Arg
1 5 10

<210> 8398

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02

<400> 8398
Pro Ala Glu Ile Val Gly Lys Lys Leu Leu
1 5 10

<210> 8399
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 8399
Pro Asp Leu Gln Ser Ser Glu Ala Val Pro Lys
1 5 10

<210> 8400
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*40:01

<400> 8400
Pro Glu Glu Glu Gln Gln Lys Gln Gln Leu
1 5 10

<210> 8401
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01

<400> 8401
Pro Glu Ser Pro Ala Leu Ser Leu
1 5

<210> 8402
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:02,HLA-B*15:01

<400> 8402
Pro Leu Gln Pro Ser Ser Pro Val Ala Tyr
1 5 10

<210> 8403
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:02

<400> 8403
Pro Gln Ala Phe Gln Gly Pro Ala Ala Tyr
1 5 10

<210> 8404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*68:02

<400> 8404
Pro Thr Tyr Asp Tyr Phe Asn Gln Val
1 5

<210> 8405
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01

<400> 8405
Gln Ala Phe Gln Gly Pro Ala Ala

1 5

<210> 8406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,
HLA-B*39:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*16:04

<400> 8406
Gln Ala Phe Gln Gly Pro Ala Ala Tyr
1 5

<210> 8407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*32:01

<400> 8407
Gln Ala Gln Pro Ile Val Pro Val Gln
1 5

<210> 8408
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*57:01,HLA-C*07:06

<400> 8408
Gln Ala Gln Pro Ile Val Pro Val Gln Arg
1 5 10

<210> 8409
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*37:01

<400> 8409
Gln Asp Phe Arg Gly Glu Pro Glu Val
1 5

<210> 8410
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02

<400> 8410
Gln Glu Asp Glu Ser Gln Ser Phe
1 5

<210> 8411
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-B*44:02,HLA-B*44:03

<400> 8411
Gln Glu Asp Glu Ser Gln Ser Phe Tyr
1 5

<210> 8412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 8412
Gln Glu Leu Glu Leu Met Lys Lys Leu
1 5

<210> 8413
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8413
Gln Glu Leu Ser Asp Ser Leu Gly Pro Val
1 5 10

<210> 8414
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8414
Gln Glu Leu Ser Asp Ser Leu Gly Pro Val Val
1 5 10

<210> 8415
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8415
Gln Glu Asn Val His Met Phe Val
1 5

<210> 8416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8416
Gln Glu Gln Pro Leu Lys His Asn Val
1 5

<210> 8417

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8417
Gln Glu Gln Pro Leu Lys His Asn Val Ile
1 5 10

<210> 8418
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01

<400> 8418
Gln Ile Asp Ile Ala Glu Val Glu Gln Tyr
1 5 10

<210> 8419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 8419
Gln Leu Glu Glu Arg Thr Trp Leu Leu
1 5

<210> 8420
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01

<400> 8420
Gln Leu Leu Asp Gly Phe Met Ile Thr Leu
1 5 10

<210> 8421
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 8421
Gln Leu Leu Gln Gln Leu Tyr Thr Ser Lys
1 5 10

<210> 8422
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02

<400> 8422
Gln Leu Gln Glu Gln Pro Leu Lys
1 5

<210> 8423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02

<400> 8423
Gln Leu Gln Glu Gln Pro Leu Lys His
1 5

<210> 8424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:03,HLA-A*02:04,HLA-B*07:02,HLA-B*08:01

<400> 8424
Gln Leu Arg Glu Gln Leu Gln Gln Leu

1 5

<210> 8425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*38:01

<400> 8425
Gln Leu Val Gln Gln Glu Gln His Leu
1 5

<210> 8426
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02

<400> 8426
Gln Leu Val Gln Gln Glu Gln His Leu Lys
1 5 10

<210> 8427
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8427
Gln Leu Tyr Thr Ser Lys Ala Val
1 5

<210> 8428
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*55:01,HLA-B*56:01

<400> 8428
Gln Pro Asp Gln Met Arg Ser Ala
1               5


<210> 8429
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 8429
Gln Pro Ile Val Pro Val Gln Arg
1               5


<210> 8430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8430
Gln Pro Ile Val Pro Val Gln Arg Ala
1               5


<210> 8431
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*54:01,HLA-B*56:01

<400> 8431
Gln Pro Ile Val Pro Val Gln Arg Ala Ala
1               5                   10


<210> 8432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;

HLA -B*08:01,HLA-B*51:01

<400> 8432
Gln Pro Leu Lys His Asn Val Ile
1 5

<210> 8433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01,HLA-C*07:02

<400> 8433
Gln Pro Leu Gln Pro Ser Ser Pro Val
1 5

<210> 8434
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8434
Gln Pro Leu Gln Pro Ser Ser Pro Val Ala
1 5 10

<210> 8435
<211> 11
<212> PRT
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<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*29:02,HLA-A*30:02,HLA-B*15:03,HLA-B*35:01,HLA-B*55:01

<400> 8435
Gln Pro Leu Gln Pro Ser Ser Pro Val Ala Tyr
1 5 10

<210> 8436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*08:01,HLA-B*56:01

<400> 8436
Gln Pro Asn Thr Leu Arg His Val Val
1 5

<210> 8437
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:01

<400> 8437
Gln Pro Ser Ser Pro Val Ala Tyr
1 5

<210> 8438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*16:02

<400> 8438
Gln Pro Thr Tyr His Gln Val Gln Val
1 5

<210> 8439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*38:01,HLA-B*39:01

<400> 8439
Gln Gln Asp Pro Glu Asn Pro Val Ala
1 5

<210> 8440
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<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*39:01

<400> 8440
Gln Gln Asp Pro Glu Asn Pro Val Ala Pro
1 5 10

<210> 8441
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 8441
Gln Gln Asp Pro Glu Asn Pro Val Ala Pro Leu
1 5 10

<210> 8442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*15:01,HLA-B*15:03,HLA-B*38:01,HLA-B*39:01

<400> 8442
Gln Gln Glu Asp Glu Ser Gln Ser Phe
1 5

<210> 8443
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*30:02

<400> 8443
Gln Gln Glu Asp Glu Ser Gln Ser Phe Tyr
1 5 10

<210> 8444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:02,HLA-A*11:01

<400> 8444
Gln Gln Leu Gln Glu Gln Pro Leu Lys
1 5

<210> 8445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*13:02

<400> 8445
Gln Gln Leu Tyr Thr Ser Lys Ala Val
1 5

<210> 8446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*13:02,HLA-B*38:01

<400> 8446
Gln Gln Asn Ala Leu Glu Leu Met Met
1 5

<210> 8447
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:05,HLA-B*38:01

<400> 8447
Gln Gln Gln Leu Val Gln Gln Glu Gln His Leu
1 5 10

<210> 8448
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*39:01

<400> 8448
Gln Arg Ala Ala Glu Gln Gln Pro Ser Gly Phe
1 5 10

<210> 8449
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*30:02

<400> 8449
Gln Ser Phe Tyr Pro Glu Ala Tyr
1 5

<210> 8450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-C*07:06

<400> 8450
Gln Ser Ser Glu Ala Val Pro Lys Lys
1 5

<210> 8451
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*31:01,HLA-A*33:03

<400> 8451

Gln Thr Arg Leu Met Pro Ala Glu Gln Arg
1               5                   10


<210> 8452
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*23:01,HLA-A*24:02

<400> 8452
Gln Tyr Gly Pro Gln Glu Asn Val His Met Phe
1               5                   10


<210> 8453
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:02,HLA-B*15:01

<400> 8453
Arg Ala Ala Glu Gln Gln Pro Ser Gly Phe Tyr
1               5                   10


<210> 8454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*01:01,HLA-A*02:07,HLA-A*23:01,HLA-A*32:01,HLA-B*35:01,
      HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,
      HLA-C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 8454
Arg Ala Asp Pro Val Asp Leu Glu Phe
1               5


<210> 8455
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*30:02,HLA-B*57:01,HLA-B*58:01

<400> 8455
Arg Gly Glu Pro Glu Val Asn Pro Leu Tyr
1 5 10

<210> 8456
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*31:01

<400> 8456
Arg Gly Glu Pro Glu Val Asn Pro Leu Tyr Arg
1 5 10

<210> 8457
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:02

<400> 8457
Arg Gly His Thr Ser Met Lys Ala Val Tyr
1 5 10

<210> 8458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*57:01,HLA-B*58:01,HLA-C*16:01,HLA-C*16:02

<400> 8458
Arg Ser Ala Glu Gln Thr Arg Leu Met
1 5

<210> 8459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01,
HLA-B*58:01

<400> 8459
Arg Thr Gln Leu Leu Gln Gln Leu Tyr
1 5

<210> 8460
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01,HLA-B*37:01,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*05:01

<400> 8460
Ser Ala Tyr Glu Asn Val Lys Phe
1 5

<210> 8461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*68:02,HLA-B*13:02,
HLA-B*49:01,HLA-B*51:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:02

<400> 8461
Ser Ala Tyr Glu Asn Val Lys Phe Ile
1 5

<210> 8462
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01

<400> 8462
Ser Cys Asp Glu Gln Gly Thr Leu
1 5

<210> 8463
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01,HLA-B*40:02

<400> 8463
Ser Asp Ser Leu Gly Pro Val Val
1 5

<210> 8464
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01

<400> 8464
Ser Asp Ser Leu Gly Pro Val Val Gln Val
1 5 10

<210> 8465
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01

<400> 8465
Ser Asp Ser Thr Ile Ser Thr Leu
1 5

<210> 8466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*13:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8466

Ser Glu Ala Ile Ser Ser Ser Ser Ile
1               5


<210> 8467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*44:03

<400> 8467
Ser Glu Ala Val Pro Lys Lys Gln Gln
1               5


<210> 8468
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
      HLA-B*37:01,HLA-B*55:01

<400> 8468
Ser Leu Gly Pro Val Val Gln Val
1               5


<210> 8469
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*32:01

<400> 8469
Ser Leu Gly Pro Val Val Gln Val Asn
1               5


<210> 8470
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;

HLA -A*25:01,HLA-A*32:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,
HLA-B*58:01

<400> 8470
Ser Leu Gly Pro Val Val Gln Val Asn Thr Trp
1 5 10

<210> 8471
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8471
Ser Leu Lys Asn Thr Gly Glu Leu
1 5

<210> 8472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 8472
Ser Leu Leu Gly His Leu Pro Ala Glu Ile
1 5 10

<210> 8473
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01

<400> 8473
Ser Leu Gln Asp Phe Arg Gly Glu Pro Glu Val
1 5 10

<210> 8474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*07:02,HLA-B*35:01

<400> 8474
Ser Pro Ala Leu Ser Leu Gln Asp Phe
1 5

<210> 8475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,
HLA-B*27:05,HLA-C*07:04

<400> 8475
Ser Gln Ser Phe Tyr Pro Glu Ala Tyr
1 5

<210> 8476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*58:01

<400> 8476
Ser Ser Ala Tyr Glu Asn Val Lys Phe
1 5

<210> 8477
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*11:01

<400> 8477
Ser Ser Glu Ala Val Pro Lys Lys
1 5

<210> 8478

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*11:01,HLA-A*30:01,HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,
HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,HLA-C*04:01,

<220>
<223> HLA-C*05:01,HLA-C*07:04

<400> 8478
Ser Thr Asp Gly Val Ile Ile Cys Val
1 5

<210> 8479
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 8479
Ser Thr Leu Glu Thr Pro Gln Asp Tyr
1 5

<210> 8480
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*25:01,HLA-A*26:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 8480
Ser Thr Tyr Cys Ser Ser Thr Val Phe
1 5

<210> 8481
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01

<400> 8481
Ser Val Asp Gln Glu Gly Pro Met
1               5


<210> 8482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -C*05:01

<400> 8482
Ser Val Asp Gln Val Asp Ser Val
1               5


<210> 8483
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:01

<400> 8483
Thr Asp Gly Val Ile Ile Cys Val
1               5


<210> 8484
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:02,HLA-B*15:03,HLA-B*39:01

<400> 8484
Thr Leu His Gly Gln Pro Thr Tyr
1               5


<210> 8485
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*38:01

<400> 8485
Thr Leu Ser Thr Asp Gly Val Ile Ile
1 5

<210> 8486
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:04

<400> 8486
Thr Leu Ser Thr Asp Gly Val Ile Ile Cys Val
1 5 10

<210> 8487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:07,HLA-B*08:01,HLA-C*01:02

<400> 8487
Thr Met Pro Glu Ser Pro Ala Leu
1 5

<210> 8488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:07,HLA-C*01:02

<400> 8488
Thr Met Pro Glu Ser Pro Ala Leu Ser Leu
1 5 10

<210> 8489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*44:02,HLA-B*57:01

<400> 8489
Thr Pro Gln Asp Tyr Ile Arg Leu Trp
1 5

<210> 8490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*38:01

<400> 8490
Thr Gln Asp Ser Asp Glu Glu Pro Phe
1 5

<210> 8491
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*15:01,HLA-B*15:03,HLA-B*39:01

<400> 8491
Thr Gln Leu Leu Gln Gln Leu Tyr
1 5

<210> 8492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*13:02

<400> 8492
Thr Gln Leu Leu Gln Gln Leu Tyr Thr
1 5

<210> 8493
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*11:01,HLA-B*27:02

<400> 8493
Thr Gln Leu Leu Gln Gln Leu Tyr Thr Ser Lys
1 5 10

<210> 8494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:05

<400> 8494
Thr Arg Leu Met Pro Ala Glu Gln Arg
1 5

<210> 8495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01

<400> 8495
Thr Ser Asp Ser Thr Ile Ser Thr Leu
1 5

<210> 8496
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02

<400> 8496
Thr Tyr Cys Ser Ser Thr Val Phe Leu
1 5

<210> 8497
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-B*35:03

<400> 8497
Thr Tyr Asp Tyr Phe Asn Gln Val Thr Leu
1 5 10

<210> 8498
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*05:01

<400> 8498
Val Ala Glu Asn Ile Ser Ser Leu
1 5

<210> 8499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-C*05:01

<400> 8499
Val Ala Glu Asn Ile Ser Ser Leu Leu
1 5

<210> 8500
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*03:04

<400> 8500
Val Ala Phe Asn Gln Gln Gln Leu
1 5

<210> 8501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*13:02,HLA-B*51:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:02

<400> 8501
Val Ala Phe Asn Gln Gln Gln Leu Val
1 5

<210> 8502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*01:02

<400> 8502
Val Ala Pro Leu Asp Gln Ala Gly Leu
1 5

<210> 8503
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-B*35:03,HLA-C*02:02,
HLA-C*03:04,HLA-C*16:04

<400> 8503
Val Ala Tyr Asp Ile Ile Ser Gln Glu Leu
1 5 10

<210> 8504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*24:02,HLA-B*08:01

<400> 8504
Val Cys Ile Leu Arg Thr Gln Leu Leu
1               5


<210> 8505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:02,HLA-B*49:01

<400> 8505
Val Glu Gly Pro Pro Asp Pro Gln Ala
1               5


<210> 8506
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*30:01,HLA-A*32:01,
      HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,
      HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,

<220>
<223> HLA-C*16:04

<400> 8506
Val Glu Gly Pro Pro Asp Pro Gln Ala Phe
1               5                   10


<210> 8507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*30:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
      HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
      HLA-B*46:01,HLA-C*16:04

<400> 8507
Val Glu His Gly Asp Ser Ser Ala Tyr
1               5

<210> 8508
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8508
Val Glu Gln Tyr Gly Pro Gln Glu Asn Val
1 5 10

<210> 8509
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8509
Val Gly Asn Glu Arg Val Gln Ile
1 5

<210> 8510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*13:02

<400> 8510
Val Ile Ile Cys Val Ala Glu Asn Ile
1 5

<210> 8511
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:07

<400> 8511
Val Ile Pro Asp Leu Gln Ser Ser Glu Ala Val
1 5 10

<210> 8512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-B*07:02,HLA-B*08:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*51:01,HLA-B*55:01,HLA-C*07:02

<400> 8512
Val Pro Gln Glu Asp Arg Leu Tyr Leu
1 5

<210> 8513
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*55:01,HLA-B*56:01

<400> 8513
Val Pro Gln Glu Asp Arg Leu Tyr Leu Val
1 5 10

<210> 8514
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*13:02

<400> 8514
Val Gln Val Ser Glu Val Gly Val
1 5

<210> 8515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*57:01

<400> 8515
Val Thr Leu Gln Leu Leu Asp Gly Phe
1               5


<210> 8516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 8516
Val Tyr Gln Lys Ile Ile Leu Lys Phe
1               5


<210> 8517
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -B*39:01,HLA-C*14:02

<400> 8517
Val Tyr Val Glu Pro Ala Ala Ala
1               5


<210> 8518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
      HLA -A*23:01,HLA-A*24:02,HLA-B*39:01,HLA-B*46:01,HLA-B*54:01,
      HLA-B*56:01,HLA-C*01:02,HLA-C*03:03,HLA-C*14:02

<400> 8518
Val Tyr Val Glu Pro Ala Ala Ala Ala
1               5


<210> 8519
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PASD1; ENSG00000166049;
HLA -C*14:02

<400> 8519
Val Tyr Val Glu Pro Ala Ala Ala Ala Ala
1 5 10

<210> 8520
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*29:02

<400> 8520
Trp Ile Pro Ser Phe Pro Thr Tyr Asp Tyr
1 5 10

<210> 8521
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*38:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*49:01,HLA-C*03:04

<400> 8521
Tyr Asp Ile Ile Ser Gln Glu Leu
1 5

<210> 8522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*30:01,HLA-B*40:02

<400> 8522
Tyr Asp Tyr Phe Asn Gln Val Thr Leu
1 5

<210> 8523
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*37:01,HLA-B*49:01

<400> 8523
Tyr Glu Asn Val Lys Phe Ile Val
1 5

<210> 8524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*49:01

<400> 8524
Tyr Glu Asn Val Lys Phe Ile Val Asn Val
1 5 10

<210> 8525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 8525
Tyr Phe Asn Gln Val Thr Leu Gln Leu
1 5

<210> 8526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*38:01,HLA-B*39:01

<400> 8526
Tyr His Gln Val Gln Val Ser Glu Val
1 5

<210> 8527

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 8527
Tyr Leu Val Gly Asn Val Cys Ile Leu
1 5

<210> 8528
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*51:01,HLA-B*54:01

<400> 8528
Tyr Pro Glu Ala Tyr Gln Gly Pro Pro Val
1 5 10

<210> 8529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*23:01,HLA-A*24:02,
HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,

<220>
<223> HLA-B*40:02,HLA-B*58:01,HLA-C*02:02,HLA-C*07:04

<400> 8529
Tyr Gln Gly Pro Pro Val Asn Gln Leu
1 5

<210> 8530
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*08:01

<400> 8530
Tyr Gln Lys Ile Ile Leu Lys Phe
1 5

<210> 8531
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*27:02,HLA-B*27:05,HLA-B*38:01

<400> 8531
Tyr Arg Ala Asp Pro Val Asp Leu Glu Phe
1 5 10

<210> 8532
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*39:01

<400> 8532
Tyr Val Glu Pro Ala Ala Ala Ala
1 5

<210> 8533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PASD1; ENSG00000166049;
HLA -B*35:03,HLA-B*39:01,HLA-B*54:01,HLA-B*56:01,HLA-C*03:03

<400> 8533
Tyr Val Glu Pro Ala Ala Ala Ala Ala
1 5

<210> 8534
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*32:01,HLA-B*39:01,HLA-B*46:01,HLA-B*58:01,HLA-C*05:01,
HLA-C*16:01

<400> 8534
Ala Ala His Gly Pro Pro Thr Phe
1 5

<210> 8535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:03,HLA-A*32:01,HLA-B*13:02,HLA-B*51:01

<400> 8535
Ala Ala His Gly Pro Pro Thr Phe Val
1 5

<210> 8536
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 8536
Ala Ala His Gly Pro Pro Thr Phe Val Lys
1 5 10

<210> 8537
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*32:01,HLA-B*58:01

<400> 8537
Ala Ala Asn Ser Gly Tyr Ser Trp
1 5

<210> 8538
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*32:01,HLA-B*58:01,HLA-C*16:01

<400> 8538
Ala Ala Ser Gly Arg Lys Ser Ser Trp
1 5

<210> 8539
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*44:02

<400> 8539
Ala Glu Met Gly Asp Trp Glu Lys Thr Arg
1 5 10

<210> 8540
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*44:02,HLA-B*44:03

<400> 8540
Ala Glu Met Gly Asp Trp Glu Lys Thr Arg Tyr
1 5 10

<210> 8541
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*37:01,HLA-B*49:01

<400> 8541
Ala Glu Ser Leu Gly Gln Ala Val
1 5

<210> 8542

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*27:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 8542
Ala Glu Ser Leu Gly Gln Ala Val Asn Cys Trp
1 5 10

<210> 8543
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:02

<400> 8543
Ala Phe Lys Asp Ile Ser Ile Tyr
1 5

<210> 8544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*31:01,HLA-B*57:01

<400> 8544
Ala Phe Lys Asp Ile Ser Ile Tyr Phe
1 5

<210> 8545
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01

<400> 8545
Ala Phe Lys Asp Ile Ser Ile Tyr Phe Thr Lys
1 5 10

<210> 8546
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*39:01

<400> 8546
Ala His Gly Pro Pro Thr Phe Val
1 5

<210> 8547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*27:05

<400> 8547
Ala His Gly Pro Pro Thr Phe Val Lys
1 5

<210> 8548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*29:02,
HLA-B*13:02

<400> 8548
Ala Leu Ile Thr Val Gly Leu Arg Ala
1 5

<210> 8549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:03

<400> 8549

Ala Leu Ile Thr Val Gly Leu Arg Ala Thr
1               5                   10


<210> 8550
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*31:01

<400> 8550
Ala Leu Ile Thr Val Gly Leu Arg Ala Thr Arg
1               5                   10


<210> 8551
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*37:01

<400> 8551
Ala Leu Ser Leu Pro Pro Gly Leu
1               5


<210> 8552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-B*40:02

<400> 8552
Ala Gln Lys Pro Val Ser Pro Pro Gly
1               5


<210> 8553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*38:01,HLA-B*39:01

<400> 8553
Ala Arg Asp Asp Glu Glu Gln Asn Leu
1               5


<210> 8554
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*01:01,HLA-C*05:01

<400> 8554
Ala Ser Asp Leu Pro Leu Gly Leu
1               5


<210> 8555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*01:01

<400> 8555
Ala Ser Asp Leu Pro Leu Gly Leu His
1               5


<210> 8556
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*01:01

<400> 8556
Ala Ser Asp Leu Pro Leu Gly Leu His Phe
1               5                   10


<210> 8557
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*15:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,
HLA-C*03:04

<400> 8557
Ala Ser Phe Asn Asn Glu Ser Ser Leu
1 5

<210> 8558
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*68:01,HLA-C*07:06

<400> 8558
Ala Ser Phe Asn Asn Glu Ser Ser Leu Arg
1 5 10

<210> 8559
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*32:01,HLA-B*58:01

<400> 8559
Ala Ser Gly Arg Lys Ser Ser Trp
1 5

<210> 8560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 8560
Ala Ser Ser Gly Ala Ala Ser Gly Arg
1 5

<210> 8561
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*31:01

<400> 8561
Ala Thr Arg Pro Ala Phe Met Cys His
1 5

<210> 8562
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01

<400> 8562
Ala Thr Arg Pro Ala Phe Met Cys His Arg
1 5 10

<210> 8563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 8563
Ala Val Asp Lys Gly His Pro Asn Arg
1 5

<210> 8564
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*08:01

<400> 8564
Ala Val Met Thr Lys Pro Lys Val
1 5

<210> 8565

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*32:01

<400> 8565
Ala Val Met Thr Lys Pro Lys Val Lys
1 5

<210> 8566
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 8566
Ala Val Met Thr Lys Pro Lys Val Lys Arg
1 5 10

<210> 8567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*58:01

<400> 8567
Cys Ala Ala His Gly Pro Pro Thr Phe
1 5

<210> 8568
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*35:03,HLA-B*51:01

<400> 8568
Asp Ala Phe Lys Asp Ile Ser Ile
1 5

<210> 8569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-B*18:01,HLA-B*35:01,
HLA-B*35:03,HLA-B*51:01

<400> 8569
Asp Ala Phe Lys Asp Ile Ser Ile Tyr
1 5

<210> 8570
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 8570
Asp Ala Phe Lys Asp Ile Ser Ile Tyr Phe
1 5 10

<210> 8571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:01,HLA-B*18:01

<400> 8571
Asp Asp Glu Glu Gln Asn Leu Val Ala Phe
1 5 10

<210> 8572
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*18:01

<400> 8572

Asp Asp Tyr Leu Tyr Cys Glu Met
1               5


<210> 8573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*18:01

<400> 8573
Asp Glu Glu Ala Ala Asn Ser Gly Tyr
1               5


<210> 8574
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*18:01,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03

<400> 8574
Asp Glu Glu Ala Ala Asn Ser Gly Tyr Ser Trp
1               5                   10


<210> 8575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 8575
Asp Glu Glu Gln Asn Leu Val Ala Phe
1               5


<210> 8576
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 8576
Asp Glu Glu Gln Asn Leu Val Ala Phe Gln Tyr
1               5                   10


<210> 8577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*30:01,HLA-B*18:01,HLA-B*38:01,HLA-B*39:01,HLA-B*44:02,
      HLA-B*44:03,HLA-B*49:01,HLA-B*51:01

<400> 8577
Asp Glu Tyr Gly Gln Glu Leu Gly Ile
1               5


<210> 8578
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*25:01

<400> 8578
Asp Gly Lys Asp Lys Ser Ser Ala Asn Trp
1               5                   10


<210> 8579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-B*35:01,
      HLA-B*39:01,HLA-B*57:01,HLA-B*58:01

<400> 8579
Glu Ala Ala Asn Ser Gly Tyr Ser Trp
1               5


<210> 8580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-C*07:06

<400> 8580
Glu Ala Ser Asp Leu Pro Leu Gly Leu
1 5

<210> 8581
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02

<400> 8581
Glu Ala Ser Asp Leu Pro Leu Gly Leu His Phe
1 5 10

<210> 8582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:03,HLA-A*68:01

<400> 8582
Glu Ala Ser Thr Ser Gly Gln His Ser Arg
1 5 10

<210> 8583
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*68:01

<400> 8583
Glu Ala Ser Thr Ser Gly Gln His Ser Arg Leu
1 5 10

<210> 8584
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*18:01,HLA-B*44:03

<400> 8584
Glu Glu Ala Ala Asn Ser Gly Tyr
1 5

<210> 8585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 8585
Glu Glu Ala Ala Asn Ser Gly Tyr Ser Trp
1 5 10

<210> 8586
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*18:01,HLA-B*44:02

<400> 8586
Glu Glu Gln Asn Leu Val Ala Phe
1 5

<210> 8587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:02,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*44:02,
HLA-B*44:03

<400> 8587
Glu Glu Gln Asn Leu Val Ala Phe Gln Tyr

1 5 10

<210> 8588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*44:02,HLA-B*44:03

<400> 8588
Glu Glu Trp Ala Glu Met Gly Asp Trp
1 5

<210> 8589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8589
Glu Glu Trp Thr Pro Arg Gln Gln Val
1 5

<210> 8590
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*08:01

<400> 8590
Glu Leu Gly Ile Arg Ser Ser Ile
1 5

<210> 8591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*68:02,HLA-B*38:01

<400> 8591
Glu Leu Ser Gly Thr Pro Asn Leu Leu
1               5


<210> 8592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*33:01,HLA-A*33:03

<400> 8592
Glu Met Gly Asp Trp Glu Lys Thr Arg
1               5


<210> 8593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*54:01

<400> 8593
Glu Asn Phe Ser Asn Gln Arg Ile Pro Ala
1               5                   10


<210> 8594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*56:01

<400> 8594
Glu Pro Ala Glu Ser Leu Gly Gln Ala Val
1               5                   10


<210> 8595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;

HLA -B*35:01,HLA-B*55:01,HLA-C*03:03

<400> 8595
Glu Pro Gln Asp Asp Asp Tyr Leu Tyr
1 5

<210> 8596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*39:01

<400> 8596
Glu Gln Ala Gln Lys Pro Val Ser Pro
1 5

<210> 8597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*35:01,HLA-B*44:02,
HLA-B*44:03,HLA-C*16:04

<400> 8597
Glu Gln Asn Leu Val Ala Phe Gln Tyr
1 5

<210> 8598
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*57:01,HLA-B*58:01

<400> 8598
Glu Ser Leu Gly Gln Ala Val Asn Cys Trp
1 5 10

<210> 8599
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*08:01

<400> 8599
Glu Thr Glu Gly Lys Met Tyr Ser Leu
1 5

<210> 8600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 8600
Glu Thr Glu Gly Lys Met Tyr Ser Leu Arg
1 5 10

<210> 8601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:03

<400> 8601
Glu Tyr Gly Gln Glu Leu Gly Ile Arg
1 5

<210> 8602
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -C*07:02

<400> 8602
Phe Gly Pro Tyr Glu Gly Arg Ile Thr Glu
1 5 10

<210> 8603
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:03

<400> 8603
Phe Asn Asn Glu Ser Ser Leu Arg
1 5

<210> 8604
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*13:02

<400> 8604
Phe Gln Val Lys Asn Phe Ser Val
1 5

<210> 8605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*29:02,HLA-C*02:02

<400> 8605
Phe Gln Tyr His Arg Gln Ile Phe Tyr
1 5

<210> 8606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -C*16:01

<400> 8606
Phe Ser Asn Gln Arg Ile Pro Ala Gln

1 5

<210> 8607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*26:01,HLA-B*46:01

<400> 8607
Phe Thr Lys Glu Glu Trp Ala Glu Met
1 5

<210> 8608
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*32:01,HLA-B*58:01,HLA-C*16:01,HLA-C*16:02

<400> 8608
Gly Ala Ala Ser Gly Arg Lys Ser Ser Trp
1 5 10

<210> 8609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:02,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 8609
Gly Glu Asn Gln Ser Gln Arg Ser Ile
1 5

<210> 8610
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*49:01

<400> 8610
Gly Glu Asn Gln Ser Gln Arg Ser Ile His Val
1  5  10

<210> 8611
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01

<400> 8611
Gly Ile Pro Gln Ala Gly Leu Gly Val Trp
1  5  10

<210> 8612
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:03

<400> 8612
Gly Leu Arg Ala Thr Arg Pro Ala Phe Met
1  5  10

<210> 8613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:03

<400> 8613
Gly Leu Arg Ile Gly Pro Ser Gly Ile
1  5

<210> 8614
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*56:01

<400> 8614
Gly Pro Pro Thr Phe Val Lys Asp Ser Ala
1 5 10

<210> 8615
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*56:01

<400> 8615
Gly Pro Ser Gly Ile Pro Gln Ala
1 5

<210> 8616
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*07:02,HLA-C*07:02

<400> 8616
Gly Pro Ser Gly Ile Pro Gln Ala Gly Leu
1 5 10

<210> 8617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*07:02,HLA-B*56:01,HLA-C*07:02

<400> 8617
Gly Pro Tyr Glu Gly Arg Ile Thr Glu
1 5

<210> 8618
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*13:02

<400> 8618
Gly Gln Glu Leu Gly Ile Arg Ser Ser Ile
1 5 10

<210> 8619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*68:01

<400> 8619
His Ala Ala Val Met Thr Lys Pro Lys
1 5

<210> 8620
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:03,HLA-A*68:01

<400> 8620
His Leu Gln Glu Asn Phe Ser Asn Gln Arg
1 5 10

<210> 8621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:03,HLA-C*07:02

<400> 8621
His Pro Asn Arg Ser Ala Leu Ser Leu
1 5

<210> 8622
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*15:01

<400> 8622
His Gln Lys Gly Met Pro Lys Ala Ser Phe
1 5 10

<210> 8623
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*08:01

<400> 8623
His Ser Arg Leu Lys Leu Glu Leu
1 5

<210> 8624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:01

<400> 8624
His Ser Arg Leu Lys Leu Glu Leu Arg
1 5

<210> 8625
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:01,HLA-B*13:02,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 8625
Ile Glu Pro Ala Glu Ser Leu Gly Gln Ala Val
1 5 10

<210> 8626
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*08:01

<400> 8626
Ile Leu Ile His Ala Ala Val Met
1 5

<210> 8627
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*07:02,HLA-B*08:01,HLA-B*51:01,HLA-B*56:01

<400> 8627
Ile Pro Ala Gln Gly Ile Arg Ile
1 5

<210> 8628
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*51:01

<400> 8628
Ile Pro Gln Ala Gly Leu Gly Val
1 5

<210> 8629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*01:01

<400> 8629
Ile Ser Glu Pro Gln Asp Asp Asp Tyr
1 5

<210> 8630
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*01:01,HLA-B*57:01,HLA-B*58:01

<400> 8630
Ile Ser Glu Pro Gln Asp Asp Asp Tyr Leu Tyr
1 5 10

<210> 8631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*57:01

<400> 8631
Ile Ser Ile Tyr Phe Thr Lys Glu Glu Trp
1 5 10

<210> 8632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-B*57:01

<400> 8632
Ile Thr Val Gly Leu Arg Ala Thr Arg
1 5

<210> 8633
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*24:02

<400> 8633

Ile Tyr Phe Thr Lys Glu Glu Trp
1               5


<210> 8634
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*30:02

<400> 8634
Lys Glu Ile Ser Glu Pro Gln Asp Asp Asp Tyr
1               5                   10


<210> 8635
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-C*16:02

<400> 8635
Lys Glu Thr Glu Gly Lys Met Tyr
1               5


<210> 8636
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*49:01

<400> 8636
Lys Glu Thr Glu Gly Lys Met Tyr Ser Leu
1               5                   10


<210> 8637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*32:01,HLA-B*07:02

<400> 8637
Lys Gly His Pro Asn Arg Ser Ala Leu
1               5


<210> 8638
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*32:01,HLA-B*08:01,HLA-B*37:01,HLA-C*16:01

<400> 8638
Lys Gly Met Pro Lys Ala Ser Phe
1               5


<210> 8639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 8639
Lys Met Asn Tyr Asn Ala Leu Ile Thr Val
1               5                   10


<210> 8640
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*07:02,HLA-B*08:01

<400> 8640
Lys Pro Met Val Lys Asp Ala Phe
1               5


<210> 8641
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8641
Lys Pro Val Ser Pro Pro Gly Glu Ala
1 5

<210> 8642
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*56:01

<400> 8642
Lys Pro Val Ser Pro Pro Gly Glu Ala Ser Thr
1 5 10

<210> 8643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*01:01

<400> 8643
Lys Ser Ser Ala Asn Trp Met Arg Tyr
1 5

<210> 8644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*03:02

<400> 8644
Leu Ile His Ala Ala Val Met Thr Lys
1 5

<210> 8645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*01:01,HLA-A*29:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 8645
Leu Leu Val Trp Ser Gly Asp Glu Tyr
1 5

<210> 8646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*51:01,HLA-B*57:01

<400> 8646
Leu Ser Leu Pro Pro Gly Leu Arg Ile
1 5

<210> 8647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*57:01

<400> 8647
Met Gly Met Ser Met Ala Arg Asn Trp
1 5

<210> 8648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*68:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 8648
Met Asn Tyr Asn Ala Leu Ile Thr Val
1 5

<210> 8649
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*54:01

<400> 8649
Met Pro Lys Ala Ser Phe Asn Asn Glu Ser
1 5 10

<210> 8650
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:03

<400> 8650
Met Thr Lys Pro Lys Val Lys Arg
1 5

<210> 8651
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*08:01,HLA-B*51:01

<400> 8651
Asn Ala Leu Ile Thr Val Gly Leu
1 5

<210> 8652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 8652
Asn Ala Leu Ile Thr Val Gly Leu Arg
1 5

<210> 8653
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 8653
Asn Glu Ala Ser Asp Leu Pro Leu Gly Leu
1 5 10

<210> 8654
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02

<400> 8654
Asn Glu Ser Ser Leu Arg Glu Leu
1 5

<210> 8655
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*08:01

<400> 8655
Asn Ile Leu Ile His Ala Ala Val
1 5

<210> 8656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 8656
Asn Met Trp Asn Ala Ile Thr Pro Leu
1 5

<210> 8657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*13:02,HLA-B*15:03

<400> 8657
Asn Gln Arg Ile Pro Ala Gln Gly Ile
1 5

<210> 8658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*37:01

<400> 8658
Asn Gln Ser Gln Arg Ser Ile His Val
1 5

<210> 8659
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*68:01,HLA-C*07:06

<400> 8659
Asn Thr Ser Asp Ser Glu Gln Ala Gln Lys
1 5 10

<210> 8660
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-B*07:02,HLA-B*08:01,HLA-C*01:02

<400> 8660

Asn Val Lys Met Asn Tyr Asn Ala Leu
1               5


<210> 8661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*33:03

<400> 8661
Asn Tyr Asn Ala Leu Ile Thr Val Gly
1               5


<210> 8662
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*23:01,HLA-A*24:02

<400> 8662
Asn Tyr Asn Ala Leu Ile Thr Val Gly Leu
1               5                   10


<210> 8663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*56:01

<400> 8663
Pro Pro Thr Phe Val Lys Asp Ser Ala
1               5


<210> 8664
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*37:01

<400> 8664
Gln Asp His Leu Gln Glu Asn Phe
1               5


<210> 8665
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8665
Gln Glu Leu Gly Ile Arg Ser Ser Ile
1               5


<210> 8666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*13:02,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8666
Gln Glu Asn Phe Ser Asn Gln Arg Ile
1               5


<210> 8667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*15:03

<400> 8667
Gln Lys Gly Met Pro Lys Ala Ser Phe
1               5


<210> 8668
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*29:02

<400> 8668
Gln Asn Leu Val Ala Phe Gln Tyr
1 5

<210> 8669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*27:05

<400> 8669
Gln Arg Ile Pro Ala Gln Gly Ile Arg
1 5

<210> 8670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:03

<400> 8670
Gln Val Lys Asn Phe Ser Val Asn Met
1 5

<210> 8671
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-B*57:01

<400> 8671
Gln Val Lys Asn Phe Ser Val Asn Met Trp
1 5 10

<210> 8672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*31:01,HLA-B*57:01

<400> 8672
Gln Val Lys Pro Pro Trp Met Ala Phe
1 5

<210> 8673
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01

<400> 8673
Gln Val Lys Pro Pro Trp Met Ala Phe Arg
1 5 10

<210> 8674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01,HLA-A*33:01

<400> 8674
Gln Tyr His Arg Gln Ile Phe Tyr Arg
1 5

<210> 8675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 8675
Arg Glu Leu Ser Gly Thr Pro Asn Leu
1 5

<210> 8676

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:01,HLA-B*40:01

<400> 8676
Arg Glu Leu Ser Gly Thr Pro Asn Leu Leu
1 5 10

<210> 8677
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:01

<400> 8677
Arg Ile Gly Pro Ser Gly Ile Pro Gln Ala
1 5 10

<210> 8678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:07

<400> 8678
Arg Ile Pro Ala Gln Gly Ile Arg Ile
1 5

<210> 8679
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01

<400> 8679
Arg Ile Arg Ser Gly Asn Ile Leu Ile His
1 5 10

<210> 8680
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*57:01

<400> 8680
Arg Ser Ile His Val Pro His Ala Val Trp
1 5 10

<210> 8681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01

<400> 8681
Arg Thr Glu Arg Lys Pro Met Val Lys
1 5

<210> 8682
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*57:01

<400> 8682
Arg Thr Ser Gln Asp His Leu Gln Glu Asn Phe
1 5 10

<210> 8683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -C*03:04

<400> 8683
Arg Val Ile Arg Pro Gly Cys Glu Leu

1 5

<210> 8684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:01,HLA-A*02:04

<400> 8684
Ser Ala Leu Ser Leu Pro Pro Gly Leu
1 5

<210> 8685
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:01,HLA-A*68:01

<400> 8685
Ser Ala Val Asp Lys Gly His Pro Asn Arg
1 5 10

<210> 8686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 8686
Ser Asp Leu Pro Leu Gly Leu His Phe
1 5

<210> 8687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*40:01

<400> 8687
Ser Glu Pro Gln Asp Asp Asp Tyr Leu
1               5


<210> 8688
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -C*14:02

<400> 8688
Ser Phe Asn Asn Glu Ser Ser Leu
1               5


<210> 8689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 8689
Ser Phe Asn Asn Glu Ser Ser Leu Arg
1               5


<210> 8690
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*32:01

<400> 8690
Ser Gly Ala Ala Ser Gly Arg Lys Ser Ser Trp
1               5                   10


<210> 8691
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;

HLA -B*35:03,HLA-B*39:01,HLA-C*05:01

<400> 8691
Ser Gly Asp Glu Tyr Gly Gln Glu Leu
1 5

<210> 8692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 8692
Ser Gly Met Gly Met Ser Met Ala Arg
1 5

<210> 8693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*54:01

<400> 8693
Ser Gly Asn Ile Leu Ile His Ala Ala
1 5

<210> 8694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01

<400> 8694
Ser Gly Tyr Ser Trp Leu Ile Thr Lys
1 5

<210> 8695
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01

<400> 8695
Ser Gly Tyr Ser Trp Leu Ile Thr Lys Gly Arg
1 5 10

<210> 8696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*57:01

<400> 8696
Ser Ile His Val Pro His Ala Val Trp
1 5

<210> 8697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*57:01

<400> 8697
Ser Ile Tyr Phe Thr Lys Glu Glu Trp
1 5

<210> 8698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01

<400> 8698
Ser Leu Gly Gln Ala Val Asn Cys Trp
1 5

<210> 8699
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:04

<400> 8699
Ser Leu Arg Glu Leu Ser Gly Thr Pro Asn Leu
1 5 10

<210> 8700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*38:01,HLA-C*05:01

<400> 8700
Ser Gln Asp His Leu Gln Glu Asn Phe
1 5

<210> 8701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*02:03

<400> 8701
Ser Ser Ala Asn Trp Met Arg Tyr Val
1 5

<210> 8702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*25:01,HLA-A*30:01,HLA-B*07:02,HLA-B*15:01,HLA-B*35:03,
HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,HLA-C*07:02,HLA-C*14:02

<400> 8702
Ser Ser Ile Glu Pro Ala Glu Ser Leu
1 5

<210> 8703
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 8703
Ser Ser Trp Gln Gly Glu Asn Gln Ser Gln Arg
1 5 10

<210> 8704
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*11:01

<400> 8704
Ser Thr Ser Gly Gln His Ser Arg Leu Lys
1 5 10

<210> 8705
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*01:01,HLA-B*44:02,HLA-B*44:03

<400> 8705
Thr Glu Asp Glu Glu Ala Ala Asn Ser Gly Tyr
1 5 10

<210> 8706
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*30:01,HLA-B*08:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8706

Thr Glu Gly Lys Met Tyr Ser Leu
1               5


<210> 8707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*01:01

<400> 8707
Thr Ser Asp Ser Glu Gln Ala Gln Lys
1               5


<210> 8708
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*57:01,HLA-B*58:01

<400> 8708
Thr Ser Gln Asp His Leu Gln Glu Asn Phe
1               5                   10


<210> 8709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*51:01

<400> 8709
Val Ala Phe Gln Tyr His Arg Gln Ile
1               5


<210> 8710
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*33:01

<400> 8710
Val Asp Lys Gly His Pro Asn Arg
1               5


<210> 8711
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -B*07:02

<400> 8711
Val Ile Arg Pro Gly Cys Glu Leu
1               5


<210> 8712
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*03:01,HLA-A*03:02

<400> 8712
Val Met Thr Lys Pro Lys Val Lys
1               5


<210> 8713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
      HLA -A*31:01,HLA-A*33:01

<400> 8713
Val Met Thr Lys Pro Lys Val Lys Arg
1               5


<210> 8714
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*24:02

<400> 8714
Val Trp Pro Phe Gln Val Lys Asn Phe
1 5

<210> 8715
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*54:01

<400> 8715
Trp Pro Phe Gln Val Lys Asn Phe Ser Val
1 5 10

<210> 8716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -B*40:02,HLA-B*49:01

<400> 8716
Tyr Glu Tyr Val Asp Gly Lys Asp Lys
1 5

<210> 8717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*23:01,HLA-A*68:02

<400> 8717
Tyr Asn Ala Leu Ile Thr Val Gly Leu
1 5

<210> 8718
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*33:03

<400> 8718
Tyr Asn Ala Leu Ile Thr Val Gly Leu Arg
1 5 10

<210> 8719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PRDM7; ENSG00000126856;
HLA -A*31:01

<400> 8719
Tyr Ser Trp Leu Ile Thr Lys Gly Arg
1 5

<210> 8720
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*08:01,HLA-B*37:01

<400> 8720
Ala Ala Lys Ile Val Ile Gly Met
1 5

<210> 8721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*30:01,HLA-B*37:01

<400> 8721
Ala Asp Leu Asp Leu Lys Thr Ile Gly Met
1 5 10

<210> 8722
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:07

<400> 8722
Ala Ile Asp Arg Tyr Leu Ala Ile Val
1 5

<210> 8723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*13:02

<400> 8723
Ala Ile Ser Asp Phe Leu Val Ala Ile
1 5

<210> 8724
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:03

<400> 8724
Ala Ile Ser Asp Phe Leu Val Ala Ile Val
1 5 10

<210> 8725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*31:01

<400> 8725
Ala Ile Val His Pro Leu Arg Pro Arg
1 5

<210> 8726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*15:03

<400> 8726
Ala Lys Ile Val Ile Gly Met Ala Leu
1 5

<210> 8727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*03:01,HLA-A*03:02

<400> 8727
Ala Leu Leu Ala Ile Ala Ile Asp Arg
1 5

<210> 8728
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02,HLA-A*30:02

<400> 8728
Ala Leu Leu Ala Ile Ala Ile Asp Arg Tyr
1 5 10

<210> 8729
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:04

<400> 8729
Ala Leu Leu Ala Ile Ala Ile Asp Arg Tyr Leu

1 5 10

<210> 8730
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:03,HLA-A*02:04

<400> 8730
Ala Met Ser Asn Ser Met Ile Asn Thr Leu
1 5 10

<210> 8731
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 8731
Ala Pro Phe Tyr Gly Phe Thr Ile
1 5

<210> 8732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 8732
Ala Pro Phe Tyr Gly Phe Thr Ile Val
1 5

<210> 8733
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*32:01,HLA-B*56:01

<400> 8733
Ala Ser Tyr Asn Gly Gly Lys Ser Ser Ala
1               5                   10


<210> 8734
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 8734
Ala Thr Glu Glu Val Asp Cys Ile Arg Leu Lys
1               5                   10


<210> 8735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -B*44:02,HLA-B*44:03,HLA-B*57:01

<400> 8735
Ala Thr Gly Leu Ile Ala Leu Val Trp
1               5


<210> 8736
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*32:01,HLA-B*46:01

<400> 8736
Ala Thr Asn Thr Ser Thr Ser Phe
1               5


<210> 8737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;

HLA -A*31:01,HLA-A*32:01,HLA-C*01:02

<400> 8737
Ala Thr Asn Thr Ser Thr Ser Phe Leu
1 5

<210> 8738
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01,HLA-A*11:01,HLA-A*29:02,HLA-A*30:02

<400> 8738
Ala Thr Ser Phe Pro Phe Asn Phe Ser Tyr
1 5 10

<210> 8739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 8739
Ala Tyr Phe Thr Thr Glu Thr Val Leu
1 5

<210> 8740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01,HLA-B*18:01,HLA-B*38:01,HLA-B*44:02,HLA-B*44:03

<400> 8740
Asp Glu Asp Val Thr Asn Ser Arg Thr Phe
1 5 10

<210> 8741
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*44:02

<400> 8741
Asp Glu Asp Val Thr Asn Ser Arg Thr Phe Phe
1 5 10

<210> 8742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*33:01,HLA-A*33:03

<400> 8742
Asp Phe Phe Pro Thr Val Phe Val Lys
1 5

<210> 8743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*08:01

<400> 8743
Asp Leu Asp Leu Lys Thr Ile Gly Met
1 5

<210> 8744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
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HLA -A*25:01,HLA-A*26:01

<400> 8744
Asp Asn Ala Thr Asn Thr Ser Thr Ser Phe
1 5 10

<210> 8745
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01

<400> 8745
Asp Gln Gln Leu Tyr Tyr Lys Ser Tyr
1 5

<210> 8746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*68:02

<400> 8746
Asp Thr Val Lys Tyr Phe Lys Lys Ile
1 5

<210> 8747
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01

<400> 8747
Asp Val Thr Asn Ser Arg Thr Phe
1 5

<210> 8748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01,HLA-A*26:01

<400> 8748
Asp Val Thr Asn Ser Arg Thr Phe Phe
1 5

<210> 8749

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*08:01,HLA-B*18:01,HLA-B*51:01

<400> 8749
Asp Tyr Tyr Val Val Arg Gln Leu
1 5

<210> 8750
<211> 10
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<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*24:02

<400> 8750
Asp Tyr Tyr Val Val Arg Gln Leu Ser Trp
1 5 10

<210> 8751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*26:01

<400> 8751
Glu Cys Ile Ala Met Ser Asn Ser Met
1 5

<210> 8752
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 8752
Glu Asp Glu Asp Val Thr Asn Ser Arg
1 5

<210> 8753
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*38:01,HLA-B*44:02,HLA-B*44:03

<400> 8753
Glu Asp Glu Asp Val Thr Asn Ser Arg Thr Phe
1 5 10

<210> 8754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01,HLA-A*26:01,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,
HLA-C*16:04

<400> 8754
Glu Asp Val Thr Asn Ser Arg Thr Phe
1 5

<210> 8755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-A*26:01,HLA-A*33:03,HLA-B*35:01

<400> 8755
Glu Phe Val Gly Pro Val Val Thr Met
1 5

<210> 8756
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01

<400> 8756

Glu Phe Val Gly Pro Val Val Thr Met Thr Leu
1               5                   10


<210> 8757
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*33:03

<400> 8757
Glu Thr Val Leu Val Ile Val Lys
1               5


<210> 8758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*27:05,HLA-B*35:01,
      HLA-B*35:03,HLA-B*46:01,HLA-B*51:01,HLA-B*54:01,HLA-C*02:02,
      HLA-C*07:06,HLA-C*12:03

<400> 8758
Phe Ala Ala Lys Ile Val Ile Gly Met
1               5


<210> 8759
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -B*49:01

<400> 8759
Phe Glu Met Asp Tyr Tyr Val Val
1               5


<210> 8760
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*03:01

<400> 8760
Phe Ile Ala Ala Leu Val Arg Tyr Lys
1 5

<210> 8761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8761
Phe Ile Phe Ile Ala Ala Leu Val Arg Tyr
1 5 10

<210> 8762
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 8762
Phe Leu Phe Ile Phe Gly Ile Glu Phe Val
1 5 10

<210> 8763
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*35:01

<400> 8763
Phe Pro Phe Asn Phe Ser Tyr Ser Asp Tyr
1 5 10

<210> 8764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*68:02,HLA-B*13:02

<400> 8764
Phe Thr Thr Glu Thr Val Leu Val Ile
1 5

<210> 8765
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*68:02

<400> 8765
Phe Thr Thr Glu Thr Val Leu Val Ile Val
1 5 10

<210> 8766
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*27:02

<400> 8766
Phe Thr Thr Glu Thr Val Leu Val Ile Val Lys
1 5 10

<210> 8767
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*32:01,HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,HLA-B*46:01,
HLA-C*07:04

<400> 8767
Phe Val Gly Pro Val Val Thr Met
1 5

<210> 8768

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:07,HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*68:02,
HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-C*02:02,HLA-C*03:04

<400> 8768
Phe Val Gly Pro Val Val Thr Met Thr Leu
1 5 10

<210> 8769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*08:01

<400> 8769
Phe Val Lys Glu Lys His Tyr Leu
1 5

<210> 8770
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01

<400> 8770
Phe Val Thr Val Lys Asn Asp Thr Val
1 5

<210> 8771
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01

<400> 8771
Phe Val Thr Val Lys Asn Asp Thr Val Lys Tyr
1 5 10

<210> 8772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*55:01

<400> 8772
Gly Leu Ile Ala Leu Val Trp Thr Val
1 5

<210> 8773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01

<400> 8773
Gly Met Ala Leu Val Gly Ile Met Leu
1 5

<210> 8774
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*07:02,HLA-B*56:01

<400> 8774
Gly Pro Val Val Thr Met Thr Leu
1 5

<210> 8775
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*13:02

<400> 8775
Gly Gln Ile Trp Pro Val Asp Gln Gln Leu
1               5                   10


<210> 8776
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*30:02,HLA-B*15:01

<400> 8776
Gly Gln Ile Trp Pro Val Asp Gln Gln Leu Tyr
1               5                   10


<210> 8777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:03,HLA-B*35:01,
      HLA-C*07:04

<400> 8777
His Val Leu Cys Thr Ser Val Asn Tyr
1               5


<210> 8778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-B*08:01,HLA-B*13:02,
      HLA-B*46:01,HLA-B*51:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
      HLA-C*16:02

<400> 8778
Ile Ala Ile Asp Arg Tyr Leu Ala Ile
1               5


<210> 8779
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-B*57:01,HLA-B*58:01

<400> 8779
Ile Ala Ile Pro Ser Ala Tyr Phe
1 5

<210> 8780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*51:01

<400> 8780
Ile Ala Leu Val Trp Thr Val Ser Ile
1 5

<210> 8781
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*51:01

<400> 8781
Ile Ala Met Ser Asn Ser Met Ile
1 5

<210> 8782
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-B*35:03,HLA-C*03:03

<400> 8782
Ile Ala Met Ser Asn Ser Met Ile Asn Thr Leu
1 5 10

<210> 8783
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*46:01

<400> 8783
Ile Ala Asn Leu Ala Ile Ser Asp Phe
1 5

<210> 8784
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*49:01,HLA-B*51:01

<400> 8784
Ile Glu Phe Val Gly Pro Val Val
1 5

<210> 8785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 8785
Ile Glu Phe Val Gly Pro Val Val Thr
1 5

<210> 8786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01

<400> 8786
Ile Glu Phe Val Gly Pro Val Val Thr Met
1 5 10

<210> 8787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 8787
Ile Phe Ile Ala Ala Leu Val Arg Tyr
1 5

<210> 8788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*46:01

<400> 8788
Ile Gly Met Pro Ala Thr Glu Glu Val
1 5

<210> 8789
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*54:01,HLA-B*56:01

<400> 8789
Ile Gly Asn Phe Ile Phe Ile Ala Ala
1 5

<210> 8790
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01,HLA-A*03:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*46:01,HLA-C*02:02,HLA-C*07:04,HLA-C*14:02

<400> 8790
Ile Leu Ile Ala Ile Pro Ser Ala Tyr
1               5


<210> 8791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*23:01,HLA-A*24:02

<400> 8791
Ile Leu Ile Ala Ile Pro Ser Ala Tyr Phe
1               5                   10


<210> 8792
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*01:01

<400> 8792
Ile Ser Asp Phe Leu Val Ala Ile Val
1               5


<210> 8793
<211> 9
<212> PRT
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<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*02:03,HLA-A*02:07,HLA-B*51:01,HLA-B*54:01

<400> 8793
Ile Val Arg Asp Phe Phe Pro Thr Val
1               5


<210> 8794
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*57:01

<400> 8794
Ile Val Arg Asp Phe Phe Pro Thr Val Phe
1 5 10

<210> 8795
<211> 9
<212> PRT
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<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*24:02

<400> 8795
Lys Tyr Phe Lys Lys Ile Met Leu Leu
1 5

<210> 8796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*57:01

<400> 8796
Leu Ala Ile Ala Ile Asp Arg Tyr Leu
1 5

<210> 8797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*54:01

<400> 8797
Leu Ala Ile Ser Asp Phe Leu Val Ala
1 5

<210> 8798
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*37:01

<400> 8798
Leu Asp Leu Lys Thr Ile Gly Met
1 5

<210> 8799
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01

<400> 8799
Leu Ile Ala Ile Pro Ser Ala Tyr
1 5

<210> 8800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01,HLA-A*29:02

<400> 8800
Leu Leu Ala Ile Ala Ile Asp Arg Tyr
1 5

<210> 8801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:04,HLA-A*02:07,HLA-C*03:04

<400> 8801
Leu Ser Trp Glu His Gly His Val Leu
1 5

<210> 8802
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:04

<400> 8802
Leu Thr Asn Leu Leu Ile Ala Asn Leu
1 5

<210> 8803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*24:02

<400> 8803
Leu Trp Phe Lys Ala Val Pro Gly Phe
1 5

<210> 8804
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-C*14:02

<400> 8804
Leu Tyr Val Ser Thr Asn Ala Leu
1 5

<210> 8805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 8805
Leu Tyr Val Ser Thr Asn Ala Leu Leu
1 5

<210> 8806
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01

<400> 8806
Leu Tyr Val Ser Thr Asn Ala Leu Leu Ala Ile
1 5 10

<210> 8807
<211> 9
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<220>
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HLA -A*24:02

<400> 8807
Leu Tyr Tyr Lys Ser Tyr Phe Leu Phe
1 5

<210> 8808
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -C*03:04

<400> 8808
Met Ala Leu Val Gly Ile Met Leu
1 5

<210> 8809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*51:01,HLA-B*54:01

<400> 8809
Met Ala Leu Val Gly Ile Met Leu Val
1 5

<210> 8810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8810
Met Leu Leu His Trp Lys Ala Ser Tyr
1 5

<210> 8811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*35:03,HLA-B*55:01

<400> 8811
Met Pro Ala Thr Glu Glu Val Asp Cys
1 5

<210> 8812
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*35:03,HLA-B*55:01

<400> 8812
Met Pro Ala Thr Glu Glu Val Asp Cys Ile
1 5 10

<210> 8813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*35:03

<400> 8813

Met Pro Leu Asp Glu Asp Glu Asp Val
1               5


<210> 8814
<211> 10
<212> PRT
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<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -B*35:03

<400> 8814
Met Pro Leu Asp Glu Asp Glu Asp Val Thr
1               5                   10


<210> 8815
<211> 9
<212> PRT
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<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -B*35:01,HLA-B*35:03,HLA-B*58:01,HLA-C*03:04,HLA-C*07:04

<400> 8815
Met Ser Asn Ser Met Ile Asn Thr Leu
1               5


<210> 8816
<211> 8
<212> PRT
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<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -B*51:01

<400> 8816
Asn Ala Leu Leu Ala Ile Ala Ile
1               5


<210> 8817
<211> 9
<212> PRT
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<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*23:01,HLA-A*25:01,HLA-A*32:01,HLA-B*15:03,HLA-B*35:01,

HLA-B*35:03,HLA-B*39:01,HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*14:02,HLA-C*16:01,

<220>
<223> HLA-C*16:02

<400> 8817
Asn Ala Thr Asn Thr Ser Thr Ser Phe
1 5

<210> 8818
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8818
Asn Phe Ile Phe Ile Ala Ala Leu Val Arg Tyr
1 5 10

<210> 8819
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:04

<400> 8819
Asn Leu Thr Asn Leu Leu Ile Ala Asn Leu
1 5 10

<210> 8820
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*07:02,HLA-B*35:01,HLA-C*07:02

<400> 8820
Asn Pro His Gly Ala His Ala Thr Ser Phe
1 5 10

<210> 8821

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*11:01

<400> 8821
Asn Thr Leu Cys Phe Val Thr Val Lys
1 5

<210> 8822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*68:02

<400> 8822
Asn Thr Ser Thr Ser Phe Leu Ser Val
1 5

<210> 8823
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 8823
Asn Tyr Leu Arg Thr Val Ser Leu
1 5

<210> 8824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 8824
Asn Tyr Leu Arg Thr Val Ser Leu Tyr
1 5

<210> 8825
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01

<400> 8825
Pro Val Asp Gln Gln Leu Tyr Tyr
1 5

<210> 8826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*03:02

<400> 8826
Pro Val Asp Gln Gln Leu Tyr Tyr Lys
1 5

<210> 8827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8827
Pro Val Val Thr Met Thr Leu Cys Tyr
1 5

<210> 8828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:04,HLA-A*02:07,HLA-B*35:03

<400> 8828
Gln Ile Trp Pro Val Asp Gln Gln Leu

1 5

<210> 8829
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8829
Gln Ile Trp Pro Val Asp Gln Gln Leu Tyr
1 5 10

<210> 8830
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8830
Gln Ile Trp Pro Val Asp Gln Gln Leu Tyr Tyr
1 5 10

<210> 8831
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*57:01

<400> 8831
Gln Thr Ala Thr Gly Leu Ile Ala Leu Val Trp
1 5 10

<210> 8832
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*37:01

<400> 8832
Arg Asp Phe Phe Pro Thr Val Phe
1               5


<210> 8833
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*23:01,HLA-A*24:02,HLA-A*31:01

<400> 8833
Arg Tyr Leu Ala Ile Val His Pro Leu
1               5


<210> 8834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -B*38:01,HLA-B*51:01,HLA-C*05:01

<400> 8834
Ser Ala Asp Leu Asp Leu Lys Thr Ile
1               5


<210> 8835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*02:01,HLA-B*13:02,HLA-B*46:01,HLA-B*51:01,HLA-C*02:02,
      HLA-C*03:04,HLA-C*16:04

<400> 8835
Ser Ala Tyr Phe Thr Thr Glu Thr Val
1               5


<210> 8836
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*35:03

<400> 8836
Ser Ala Tyr Phe Thr Thr Glu Thr Val Leu
1 5 10

<210> 8837
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*37:01

<400> 8837
Ser Asp Phe Leu Val Ala Ile Val
1 5

<210> 8838
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8838
Ser Phe Pro Phe Asn Phe Ser Tyr
1 5

<210> 8839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:04

<400> 8839
Ser Ile Leu Ile Ala Ile Pro Ser Ala
1 5

<210> 8840
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*30:02

<400> 8840
Ser Ile Leu Ile Ala Ile Pro Ser Ala Tyr
1 5 10

<210> 8841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*30:01,HLA-B*07:02,
HLA-B*08:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,
HLA-B*46:01,HLA-C*01:02,HLA-C*03:03,HLA-C*14:02

<400> 8841
Ser Leu Tyr Val Ser Thr Asn Ala Leu
1 5

<210> 8842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:03

<400> 8842
Ser Met Ile Asn Thr Leu Cys Phe Val
1 5

<210> 8843
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*30:02

<400> 8843
Ser Val Asn Tyr Leu Arg Thr Val Ser Leu Tyr
1 5 10

<210> 8844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -C*14:02

<400> 8844
Ser Tyr Asn Gly Gly Lys Ser Ser Ala
1 5

<210> 8845
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*54:01,HLA-B*56:01

<400> 8845
Thr Ala Phe Tyr Ile Val Glu Cys
1 5

<210> 8846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*68:02,HLA-B*13:02,HLA-B*51:01,HLA-B*54:01

<400> 8846
Thr Ala Phe Tyr Ile Val Glu Cys Ile
1 5

<210> 8847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*68:02,HLA-B*13:02,HLA-C*02:02,HLA-C*16:02

<400> 8847
Thr Ala Thr Gly Leu Ile Ala Leu Val
1 5

<210> 8848
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*44:02

<400> 8848
Thr Ala Thr Gly Leu Ile Ala Leu Val Trp
1 5 10

<210> 8849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*40:01

<400> 8849
Thr Glu Glu Val Asp Cys Ile Arg Leu
1 5

<210> 8850
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*30:01,HLA-B*18:01,HLA-B*49:01

<400> 8850
Thr Glu Thr Val Leu Val Ile Val
1 5

<210> 8851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*18:01,HLA-B*49:01

<400> 8851

Thr Glu Thr Val Leu Val Ile Val Lys
1               5


<210> 8852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*23:01

<400> 8852
Thr Phe Phe Ala Ala Lys Ile Val Ile
1               5


<210> 8853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*35:01,
      HLA-B*57:01,HLA-B*58:01,HLA-C*02:02

<400> 8853
Thr Ser Phe Pro Phe Asn Phe Ser Tyr
1               5


<210> 8854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -C*16:02

<400> 8854
Thr Ser Thr Ser Phe Leu Ser Val Leu
1               5


<210> 8855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;

HLA -A*02:03,HLA-C*16:02

<400> 8855
Thr Ser Val Asn Tyr Leu Arg Thr Val
1 5

<210> 8856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01,HLA-A*68:02

<400> 8856
Thr Thr Glu Thr Val Leu Val Ile Val
1 5

<210> 8857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 8857
Thr Thr Glu Thr Val Leu Val Ile Val Lys
1 5 10

<210> 8858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-A*33:01,HLA-A*33:03,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:04

<400> 8858
Thr Val Lys Asn Asp Thr Val Lys Tyr
1 5

<210> 8859
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01

<400> 8859
Thr Val Lys Asn Asp Thr Val Lys Tyr Phe
1 5 10

<210> 8860
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-B*08:01,HLA-B*46:01,
HLA-B*51:01,HLA-C*01:02,HLA-C*14:02

<400> 8860
Val Gly Pro Val Val Thr Met Thr Leu
1 5

<210> 8861
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*15:03

<400> 8861
Val Lys Asn Asp Thr Val Lys Tyr
1 5

<210> 8862
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*03:01,HLA-A*29:02,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01

<400> 8862
Val Leu Met Cys Ile Leu Thr Ala Tyr
1 5

<210> 8863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:03,HLA-A*32:01

<400> 8863
Val Leu Asn Pro His Gly Ala His Ala
1 5

<210> 8864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*08:01,HLA-B*37:01,HLA-B*51:01,HLA-C*01:02,HLA-C*14:02,
HLA-C*16:01

<400> 8864
Val Asn Tyr Leu Arg Thr Val Ser Leu
1 5

<210> 8865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*51:01

<400> 8865
Val Pro Gly Phe Gln Thr Glu Gln Ile
1 5

<210> 8866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*13:02

<400> 8866
Val Ser Thr Asn Ala Leu Leu Ala Ile

1 5

<210> 8867
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*32:01

<400> 8867
Val Thr Asn Ser Arg Thr Phe Phe
1 5

<210> 8868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*11:01

<400> 8868
Val Thr Val Lys Asn Asp Thr Val Lys
1 5

<210> 8869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*01:01,HLA-A*26:01,HLA-A*30:02,HLA-B*57:01,HLA-B*58:01

<400> 8869
Val Thr Val Lys Asn Asp Thr Val Lys Tyr
1 5 10

<210> 8870
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*57:01

<400> 8870
Val Thr Val Lys Asn Asp Thr Val Lys Tyr Phe
1               5                   10


<210> 8871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*29:02,HLA-B*35:01

<400> 8871
Trp Pro Val Asp Gln Gln Leu Tyr Tyr
1               5


<210> 8872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -A*68:02

<400> 8872
Trp Thr Val Ser Ile Leu Ile Ala Ile
1               5


<210> 8873
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
      HLA -B*08:01

<400> 8873
Tyr Ala Arg Ile Ser Arg Glu Leu
1               5


<210> 8874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;

HLA -B*57:01

<400> 8874
Tyr Ala Arg Ile Ser Arg Glu Leu Trp
1 5

<210> 8875
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8875
Tyr Phe Leu Phe Ile Phe Gly Ile Glu Phe
1 5 10

<210> 8876
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -C*14:02

<400> 8876
Tyr Phe Thr Thr Glu Thr Val Leu
1 5

<210> 8877
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:03,HLA-A*02:04

<400> 8877
Tyr Leu Ala Ile Val His Pro Leu
1 5

<210> 8878
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -B*46:01

<400> 8878
Tyr Leu Arg Thr Val Ser Leu Tyr
1 5

<210> 8879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07

<400> 8879
Tyr Leu Arg Thr Val Ser Leu Tyr Val
1 5

<210> 8880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*29:02

<400> 8880
Tyr Val Leu Cys Trp Ala Pro Phe Tyr
1 5

<210> 8881
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*25:01

<400> 8881
Tyr Val Ser Thr Asn Ala Leu Leu Ala Ile
1 5 10

<210> 8882
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*24:02

<400> 8882
Tyr Tyr Lys Ser Tyr Phe Leu Phe Ile
1 5

<210> 8883
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; PROKR1; ENSG00000169618;
HLA -A*23:01,HLA-A*24:02

<400> 8883
Tyr Tyr Val Val Arg Gln Leu Ser Trp
1 5

<210> 8884
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*46:01,HLA-C*02:02,
HLA-C*12:03,HLA-C*16:02,HLA-C*16:04

<400> 8884
Ala Ala Tyr Leu Val Cys Asn Tyr
1 5

<210> 8885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*54:01

<400> 8885
Ala Ala Tyr Leu Val Cys Asn Tyr Ala
1 5

<210> 8886
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8886
Ala Glu Ala Trp Ala Thr Gln Cys Ile
1 5

<210> 8887
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*44:02,HLA-B*44:03

<400> 8887
Ala Glu Ala Trp Ala Thr Gln Cys Ile Trp
1 5 10

<210> 8888
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 8888
Ala His Gly Pro Ser Gln Leu Met
1 5

<210> 8889
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*30:02

<400> 8889
Ala His Gly Pro Ser Gln Leu Met Arg Tyr

1 5 10

<210> 8890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02

<400> 8890
Ala Leu Leu Asp Tyr His Asn His Ile
1 5

<210> 8891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8891
Ala Pro Ala Gln Pro Glu Ser Thr Ala
1 5

<210> 8892
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-B*56:01,
HLA-C*03:03,HLA-C*07:02

<400> 8892
Ala Pro Ala Gln Pro Glu Ser Thr Ala Met
1 5 10

<210> 8893
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*68:01

<400> 8893
Ala Pro Ala Gln Pro Glu Ser Thr Ala Met Arg
1               5                   10


<210> 8894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -A*23:01,HLA-A*24:02

<400> 8894
Ala Tyr Leu Val Cys Asn Tyr Ala Ile
1               5


<210> 8895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*57:01

<400> 8895
Cys Ser His Tyr Thr Gln Met Val Trp
1               5


<210> 8896
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*51:01

<400> 8896
Glu Ala Trp Ala Thr Gln Cys Ile
1               5


<210> 8897
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*57:01

<400> 8897
Glu Ala Trp Ala Thr Gln Cys Ile Trp
1 5

<210> 8898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*24:02

<400> 8898
Glu Tyr Met Val Trp Asp Lys Arg Leu
1 5

<210> 8899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*55:01

<400> 8899
Phe Pro Ala Pro Arg Asp Cys Asn Pro
1 5

<210> 8900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:04

<400> 8900
Gly Leu Leu Phe Trp Ala Gly Gln Ala
1 5

<210> 8901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:04

<400> 8901
Gly Leu Leu Phe Trp Ala Gly Gln Ala Val
1 5 10

<210> 8902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*29:02

<400> 8902
Gly Asn Trp Ile Gly Glu Ser Pro Tyr
1 5

<210> 8903
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*13:02

<400> 8903
Gly Gln Ala Val Asn Ala Leu Ile
1 5

<210> 8904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-C*07:04,
HLA-C*12:03

<400> 8904
Gly Gln Ala Val Asn Ala Leu Ile Met
1 5

<210> 8905

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*32:01,HLA-B*13:02,HLA-B*15:01

<400> 8905
Gly Gln Asn Leu Ser Ile His Ser Gly
1 5

<210> 8906
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:02,HLA-B*27:05,HLA-C*04:01,HLA-C*07:04,HLA-C*16:04

<400> 8906
Gly Gln Asn Leu Ser Ile His Ser Gly Gln Tyr
1 5 10

<210> 8907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*30:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-C*07:04

<400> 8907
Gly Gln Tyr Arg Ser Val Val Asp Leu
1 5

<210> 8908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*15:03

<400> 8908
Gly Gln Tyr Arg Ser Val Val Asp Leu Met

1 5 10

<210> 8909
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*54:01

<400> 8909
His Ile Arg Ala Ser Val Tyr Pro Pro Ala
1 5 10

<210> 8910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*25:01,HLA-A*26:01,HLA-B*57:01

<400> 8910
His Thr Cys Ser Ser Ile Ser Val Trp
1 5

<210> 8911
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:01,HLA-A*02:03

<400> 8911
Ile Met Pro Asn Ala Thr Pro Ala Pro Ala
1 5 10

<210> 8912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*58:01,HLA-C*03:03,HLA-C*03:04

<400> 8912
Ile Ser Val Arg Asp Met Asn Ala Leu
1               5


<210> 8913
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*57:01,HLA-B*58:01

<400> 8913
Ile Ser Val Trp Gly Asn Thr Trp
1               5


<210> 8914
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -A*30:02

<400> 8914
Lys Gly Asn Trp Ile Gly Glu Ser Pro Tyr
1               5                   10


<210> 8915
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*57:01

<400> 8915
Leu Ala Arg Ala Ala Glu Ala Trp
1               5


<210> 8916
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;

HLA -A*02:01,HLA-A*02:03,HLA-B*46:01,HLA-B*54:01

<400> 8916
Leu Ile Met Pro Asn Ala Thr Pro Ala
1 5

<210> 8917
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:01

<400> 8917
Leu Ile Met Pro Asn Ala Thr Pro Ala Pro Ala
1 5 10

<210> 8918
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02

<400> 8918
Leu Leu Phe Trp Ala Gly Gln Ala Val
1 5

<210> 8919
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:07

<400> 8919
Leu Leu Pro Ser Thr Val Gly Leu
1 5

<210> 8920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:03,HLA-A*02:07

<400> 8920
Leu Leu Pro Ser Thr Val Gly Leu Ala
1 5

<210> 8921
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:04,HLA-A*02:07

<400> 8921
Leu Leu Pro Ser Thr Val Gly Leu Ala Gly Leu
1 5 10

<210> 8922
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 8922
Leu Leu Ser Gly Leu Glu Val Pro Arg Tyr
1 5 10

<210> 8923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*56:01

<400> 8923
Leu Pro Ser Thr Val Gly Leu Ala Gly
1 5

<210> 8924
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*35:03

<400> 8924
Leu Pro Ser Thr Val Gly Leu Ala Gly Leu
1 5 10

<210> 8925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*01:01,HLA-A*30:02,HLA-B*57:01,HLA-B*58:01

<400> 8925
Leu Ser Gly Leu Glu Val Pro Arg Tyr
1 5

<210> 8926
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*30:02,HLA-B*15:01,HLA-B*39:01,HLA-B*46:01,HLA-B*58:01

<400> 8926
Leu Ser Ile His Ser Gly Gln Tyr
1 5

<210> 8927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-B*57:01

<400> 8927
Leu Ser Ile His Ser Gly Gln Tyr Arg
1 5

<210> 8928

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*08:01,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 8928
Met Pro Leu Leu Pro Ser Thr Val
1 5

<210> 8929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*54:01,HLA-B*56:01

<400> 8929
Met Pro Leu Leu Pro Ser Thr Val Gly
1 5

<210> 8930
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 8930
Met Pro Leu Leu Pro Ser Thr Val Gly Leu
1 5 10

<210> 8931
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*54:01,HLA-B*56:01

<400> 8931
Met Pro Leu Leu Pro Ser Thr Val Gly Leu Ala
1 5 10

<210> 8932
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8932
Met Pro Asn Ala Thr Pro Ala Pro
1 5

<210> 8933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8933
Met Pro Asn Ala Thr Pro Ala Pro Ala
1 5

<210> 8934
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*35:01,HLA-B*55:01

<400> 8934
Met Pro Asn Ala Thr Pro Ala Pro Ala Gln
1 5 10

<210> 8935
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*56:01

<400> 8935

Met Pro Asn Ala Thr Pro Ala Pro Ala Gln Pro
1               5                   10


<210> 8936
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*08:01,HLA-B*27:05,HLA-C*06:02

<400> 8936
Met Arg Tyr Val Gly Gln Asn Leu
1               5


<210> 8937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -A*03:01,HLA-A*31:01

<400> 8937
Met Val Trp Asp Lys Arg Leu Ala Arg
1               5


<210> 8938
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*51:01,HLA-B*54:01

<400> 8938
Asn Ala Leu Ile Met Pro Asn Ala
1               5


<210> 8939
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*15:03

<400> 8939
Asn His Ile Arg Ala Ser Val Tyr
1               5


<210> 8940
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
      HLA-B*15:01,HLA-C*07:04

<400> 8940
Asn Leu Ser Ile His Ser Gly Gln Tyr
1               5


<210> 8941
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*27:02

<400> 8941
Pro Ala Gln Pro Glu Ser Thr Ala Met Arg
1               5                   10


<210> 8942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*23:01,HLA-A*24:02

<400> 8942
Pro Leu Leu Pro Ser Thr Val Gly Leu
1               5


<210> 8943
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*35:01,HLA-B*35:03

<400> 8943
Gln Ala Val Asn Ala Leu Ile Met
1 5

<210> 8944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 8944
Gln Asn Leu Ser Ile His Ser Gly Gln Tyr
1 5 10

<210> 8945
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*33:01,HLA-A*33:03

<400> 8945
Gln Asn Leu Ser Ile His Ser Gly Gln Tyr Arg
1 5 10

<210> 8946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03

<400> 8946
Gln Pro Glu Ser Thr Ala Met Arg Leu
1 5

<210> 8947
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*07:02

<400> 8947
Gln Pro Glu Ser Thr Ala Met Arg Leu Leu
1 5 10

<210> 8948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*23:01,HLA-A*24:02

<400> 8948
Gln Tyr Arg Ser Val Val Asp Leu Met
1 5

<210> 8949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*30:02

<400> 8949
Arg Ala Ala Tyr Leu Val Cys Asn Tyr
1 5

<210> 8950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*57:01

<400> 8950
Arg Leu Ala Arg Ala Ala Glu Ala Trp
1 5

<210> 8951

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*31:01

<400> 8951
Arg Leu Leu Ser Gly Leu Glu Val Pro Arg
1 5 10

<210> 8952
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:04,HLA-A*03:01,HLA-A*29:02,HLA-A*30:02

<400> 8952
Arg Leu Leu Ser Gly Leu Glu Val Pro Arg Tyr
1 5 10

<210> 8953
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*57:01

<400> 8953
Arg Ser Val Val Asp Leu Met Lys Ser Trp
1 5 10

<210> 8954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 8954
Arg Tyr Val Gly Gln Asn Leu Ser Ile
1 5

<210> 8955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*44:02

<400> 8955
Ser Glu Glu Lys Trp His Tyr Leu Phe
1 5

<210> 8956
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:03,HLA-B*18:01,HLA-C*16:01

<400> 8956
Ser Gly Leu Glu Val Pro Arg Tyr
1 5

<210> 8957
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*31:01

<400> 8957
Ser Gly Leu Glu Val Pro Arg Tyr Arg
1 5

<210> 8958
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*08:01

<400> 8958
Ser Gly Gln Tyr Arg Ser Val Val

1 5

<210> 8959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:03

<400> 8959
Ser Ile His Ser Gly Gln Tyr Arg Ser Val
1 5 10

<210> 8960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*25:01,HLA-A*32:01

<400> 8960
Ser Ile Ser Val Trp Gly Asn Thr Trp
1 5

<210> 8961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*56:01

<400> 8961
Ser Pro Tyr Lys Met Gly Lys Pro Cys
1 5

<210> 8962
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*25:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,
HLA-C*16:04

<400> 8962
Ser Ser Ile Ser Val Trp Gly Asn Thr Trp
1               5                   10


<210> 8963
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*57:01

<400> 8963
Ser Thr Val Gly Leu Ala Gly Leu Leu Phe Trp
1               5                   10


<210> 8964
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*07:02

<400> 8964
Ser Val Arg Asp Met Asn Ala Leu
1               5


<210> 8965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
      HLA -B*07:02

<400> 8965
Ser Val Arg Asp Met Asn Ala Leu Leu
1               5


<210> 8966
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*29:02,HLA-A*30:02

<400> 8966
Ser Val Arg Asp Met Asn Ala Leu Leu Asp Tyr
1 5 10

<210> 8967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*57:01,HLA-B*58:01

<400> 8967
Ser Val Val Asp Leu Met Lys Ser Trp
1 5

<210> 8968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*31:01

<400> 8968
Ser Val Trp Gly Asn Thr Trp His Arg
1 5

<210> 8969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,
HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-B*07:02,
HLA-B*15:01,HLA-B*27:05,HLA-B*35:01,HLA-B*37:01,HLA-B*46:01,

<220>
<223> HLA-B*56:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*07:06

<400> 8969
Ser Val Tyr Pro Pro Ala Ala Asn Met

1 5

<210> 8970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,

<220>
<223> HLA-B*58:01,HLA-C*02:02,HLA-C*07:06,HLA-C*12:03,HLA-C*16:04

<400> 8970
Ser Val Tyr Pro Pro Ala Ala Asn Met Glu Tyr
1 5 10

<210> 8971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*08:01

<400> 8971
Thr Ala Met Arg Leu Leu Ser Gly Leu
1 5

<210> 8972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*55:01,HLA-B*56:01

<400> 8972
Thr Pro Ala Pro Ala Gln Pro Glu Ser
1 5

<210> 8973
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 8973
Thr Pro Ala Pro Ala Gln Pro Glu Ser Thr Ala
1 5 10

<210> 8974
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*31:01

<400> 8974
Thr Gln Met Val Trp Ala Ser Ser Asn Arg
1 5 10

<210> 8975
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*38:01

<400> 8975
Thr Gln Met Val Trp Ala Ser Ser Asn Arg Leu
1 5 10

<210> 8976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*24:02,HLA-B*57:01

<400> 8976
Val Gly Leu Ala Gly Leu Leu Phe Trp
1 5

<210> 8977
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*23:01,HLA-A*24:02,HLA-C*01:02,HLA-C*04:01,HLA-C*14:02

<400> 8977
Val Tyr Pro Pro Ala Ala Asn Met
1 5

<210> 8978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*46:01,HLA-C*01:02,HLA-C*14:02

<400> 8978
Val Tyr Pro Pro Ala Ala Asn Met Glu Tyr
1 5 10

<210> 8979
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*23:01,HLA-A*24:02

<400> 8979
Val Tyr Pro Pro Ala Ala Asn Met Glu Tyr Met
1 5 10

<210> 8980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*02:01,HLA-A*02:03

<400> 8980
Tyr Leu Phe Pro Ala Pro Arg Asp Cys
1 5

<210> 8981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*46:01,HLA-B*51:01,HLA-B*55:01

<400> 8981
Tyr Pro Pro Ala Ala Asn Met Glu Tyr
1 5

<210> 8982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*35:03

<400> 8982
Tyr Pro Pro Ala Ala Asn Met Glu Tyr Met
1 5 10

<210> 8983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*27:05

<400> 8983
Tyr Arg Ser Val Val Asp Leu Met Lys
1 5

<210> 8984
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; R3HDML; ENSG00000101074;
HLA -B*13:02,HLA-B*51:01

<400> 8984

Tyr Val Gly Gln Asn Leu Ser Ile
1               5


<210> 8985
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*37:01

<400> 8985
Ala Asp Arg Ala Phe Pro Ser Leu
1               5


<210> 8986
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*49:01

<400> 8986
Ala Glu Ile Ser Ile Ser Phe Pro
1               5


<210> 8987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*49:01

<400> 8987
Ala Glu Ile Ser Ile Ser Phe Pro Cys
1               5


<210> 8988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*30:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,

HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 8988
Ala Glu Leu Pro Asp Ile Ser His Leu
1 5

<210> 8989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 8989
Ala Glu Leu Pro Asp Ile Ser His Leu Ile
1 5 10

<210> 8990
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02

<400> 8990
Ala Glu Tyr Ser Ile Gln Pro Phe
1 5

<210> 8991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*30:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 8991
Ala Glu Tyr Ser Ile Gln Pro Phe Phe
1 5

<210> 8992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*04:01

<400> 8992
Ala Phe Asp Ala Glu Leu Pro Asp Ile
1 5

<210> 8993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01

<400> 8993
Ala Phe Leu Asn Leu Trp Thr Ser Leu
1 5

<210> 8994
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*30:02

<400> 8994
Ala Gly Gln Ala Leu Leu Leu Ala Glu Tyr
1 5 10

<210> 8995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*03:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*46:01

<400> 8995
Ala Ile Phe Gln Gly Tyr Phe Ala Tyr
1 5

<210> 8996

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*25:01,HLA-A*30:01,HLA-A*32:01,HLA-B*07:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,HLA-B*40:01,HLA-B*46:01,

<220>
<223> HLA-B*55:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*14:02

<400> 8996
Ala Ile Leu Ala Met Thr Ser Thr Leu
1 5

<210> 8997
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 8997
Ala Leu Ala Met Leu Trp Ile Val Gly Ile
1 5 10

<210> 8998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:04

<400> 8998
Ala Leu Leu Leu Ala Glu Tyr Ser Ile
1 5

<210> 8999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -A*01:01,HLA-A*03:01,HLA-A*23:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,
HLA-C*02:02,HLA-C*07:04,HLA-C*16:04

<400> 8999
Ala Leu Pro Leu Val Thr Val Val Tyr
1 5

<210> 9000
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07

<400> 9000
Ala Leu Pro Leu Val Thr Val Val Tyr Leu
1 5 10

<210> 9001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-B*55:01

<400> 9001
Ala Met Thr Ser Thr Leu Cys Ser Ala
1 5

<210> 9002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*32:01,HLA-B*13:02,HLA-B*58:01

<400> 9002
Ala Ser Ser Val Leu Lys Val Ser Ile
1 5

<210> 9003
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02

<400> 9003
Ala Trp Phe Glu Lys Met Thr Cys Tyr
1 5

<210> 9004
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*14:02

<400> 9004
Ala Tyr Ser Gly Gly Ala Cys Phe
1 5

<210> 9005
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*24:02

<400> 9005
Ala Tyr Ser Gly Gly Ala Cys Phe Thr Leu Ile
1 5 10

<210> 9006
<211> 8
<212> PRT
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<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*46:01,HLA-C*01:02,HLA-C*14:02

<400> 9006
Cys Met Asn Val Gly Val Ser Leu
1 5

<210> 9007

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*25:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*12:03,HLA-C*16:01,HLA-C*16:04

<400> 9007
Cys Ser Ala Glu Ile Ser Ile Ser Phe
1 5

<210> 9008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*24:02

<400> 9008
Cys Tyr Leu Gln Leu Leu Phe Asn Ile
1 5

<210> 9009
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*33:01

<400> 9009
Asp Ala Glu Leu Pro Asp Ile Ser His Leu Ile
1 5 10

<210> 9010
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*68:01

<400> 9010
Asp Ala Val Ala Ile Thr Trp Ala Asp Arg

1 5 10

<210> 9011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*25:01,HLA-A*68:02

<400> 9011
Asp Ile Ser His Leu Ile Gln Ala Ile
1 5

<210> 9012
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*08:01

<400> 9012
Asp Arg Gly Glu Lys Ile Gln Leu
1 5

<210> 9013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*08:01

<400> 9013
Glu Leu Lys Lys Pro Arg Thr Thr Ile
1 5

<210> 9014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*26:01,HLA-A*68:02,
HLA-B*13:02

<400> 9014
Glu Leu Pro Asp Ile Ser His Leu Ile
1               5


<210> 9015
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*02:07,HLA-A*68:02

<400> 9015
Glu Leu Pro Asp Ile Ser His Leu Ile Gln Ala
1               5                   10


<210> 9016
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*35:01

<400> 9016
Glu Pro Asn Leu Ser Ile Pro Tyr
1               5


<210> 9017
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01

<400> 9017
Phe Ala Ile Ser Thr Ser Leu Phe
1               5


<210> 9018
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*03:03,HLA-C*03:04

<400> 9018
Phe Ala Tyr Ser Gly Gly Ala Cys
1 5

<210> 9019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*46:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*05:01,HLA-C*07:02,HLA-C*14:02,HLA-C*16:01,HLA-C*16:04

<400> 9019
Phe Ala Tyr Ser Gly Gly Ala Cys Phe
1 5

<210> 9020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*15:01,HLA-B*46:01,HLA-C*07:04

<400> 9020
Phe Ile Ser Leu Thr Gly Val Val Phe
1 5

<210> 9021
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01

<400> 9021
Phe Leu Gly Ser Gly Val Val Ala
1 5

<210> 9022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01

<400> 9022
Phe Leu Gly Ser Gly Val Val Ala Gly
1 5

<210> 9023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9023
Phe Leu Leu Ile Asn Ile Ile Gly Ala
1 5

<210> 9024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9024
Phe Leu Asn Leu Trp Thr Ser Leu Phe
1 5

<210> 9025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02

<400> 9025
Phe Leu Ser Phe Pro Leu Ala Thr Ile

1 5

<210> 9026
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*35:01

<400> 9026
Phe Pro Cys Ser Gly Ala Gln Tyr
1 5

<210> 9027
<211> 9
<212> PRT
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<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*29:02,HLA-B*35:01

<400> 9027
Phe Pro Cys Ser Gly Ala Gln Tyr Tyr
1 5

<210> 9028
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 9028
Phe Pro Leu Ala Thr Ile Val Ile
1 5

<210> 9029
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01,HLA-B*56:01

<400> 9029
Phe Pro Leu Ala Thr Ile Val Ile Asp Val
1               5                   10


<210> 9030
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*35:01,HLA-B*54:01

<400> 9030
Phe Pro Leu Ala Thr Ile Val Ile Asp Val Gly
1               5                   10


<210> 9031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*35:03

<400> 9031
Phe Pro Ser Cys Ser Val Pro Lys Leu
1               5


<210> 9032
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*35:03

<400> 9032
Phe Pro Ser Leu Ala Trp Ile Met
1               5


<210> 9033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -A*02:01,HLA-A*30:01,HLA-B*13:02,HLA-B*27:05,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01

<400> 9033
Phe Gln Asn Ala Phe Asp Ala Glu Leu
1 5

<210> 9034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*57:01

<400> 9034
Phe Ser Asn Leu Leu Ile Ser Ile Phe
1 5

<210> 9035
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*27:02

<400> 9035
Phe Ser Asn Leu Leu Ile Ser Ile Phe Lys
1 5 10

<210> 9036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*68:02,HLA-B*46:01,HLA-B*51:01,
HLA-B*54:01,HLA-B*56:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04

<400> 9036
Phe Thr Ala Leu Pro Leu Val Thr Val
1 5

<210> 9037
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*68:02

<400> 9037
Phe Thr Ala Leu Pro Leu Val Thr Val Val
1 5 10

<210> 9038
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*29:02

<400> 9038
Phe Thr Ala Leu Pro Leu Val Thr Val Val Tyr
1 5 10

<210> 9039
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*40:02,HLA-B*46:01,HLA-C*03:03,HLA-C*03:04,HLA-C*14:02

<400> 9039
Phe Thr Leu Ile Ala Gly Glu Leu
1 5

<210> 9040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*11:01

<400> 9040
Phe Thr Leu Ile Ala Gly Glu Leu Lys
1 5

<210> 9041

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*08:01

<400> 9041
Phe Val Ser Pro Lys Gly Val Leu
1 5

<210> 9042
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*35:01,HLA-B*46:01,
HLA-C*02:02

<400> 9042
Phe Val Ser Pro Lys Gly Val Leu Ala Tyr
1 5 10

<210> 9043
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02

<400> 9043
Phe Tyr Ile Pro Leu Ile His Phe
1 5

<210> 9044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02

<400> 9044
Phe Tyr Ile Pro Leu Ile His Phe Lys

1 5

<210> 9045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*24:02

<400> 9045
Phe Tyr Ile Pro Leu Ile His Phe Lys Ile
1 5 10

<210> 9046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9046
Gly Ala Gly Ile Phe Val Ser Pro Lys
1 5

<210> 9047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*31:01

<400> 9047
Gly Ala Gln Tyr Tyr Phe Leu Lys Arg
1 5

<210> 9048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 9048
Gly Ile Phe Val Ser Pro Lys Gly Val
1               5


<210> 9049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 9049
Gly Leu Leu Phe Tyr Ile Pro Leu Ile
1               5


<210> 9050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*13:02

<400> 9050
Gly Leu Val Val Ile Pro Leu Val
1               5


<210> 9051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9051
Gly Leu Val Val Ile Pro Leu Val Lys
1               5


<210> 9052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,
HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-C*02:02,

<220>
<223> HLA-C*07:04,HLA-C*16:04

<400> 9052
Gly Gln Ala Leu Leu Leu Ala Glu Tyr
1 5

<210> 9053
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*13:02

<400> 9053
Gly Gln Ala Leu Leu Leu Ala Glu Tyr Ser Ile
1 5 10

<210> 9054
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04,HLA-A*30:01,HLA-B*13:02,HLA-B*15:01

<400> 9054
Gly Gln Leu Pro Leu Leu Phe Asn Thr Leu
1 5 10

<210> 9055
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*57:01

<400> 9055
Gly Ser Thr Val Ala Phe Leu Asn Leu Trp
1 5 10

<210> 9056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*68:02

<400> 9056
Gly Thr Ser Phe Leu Leu Ile Asn Ile
1 5

<210> 9057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*40:01

<400> 9057
Gly Val Val Ala Gly Gln Ala Leu Leu
1 5

<210> 9058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*03:01,HLA-A*11:01

<400> 9058
Gly Val Val Phe Leu Ile Arg Gly Lys
1 5

<210> 9059
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*24:02

<400> 9059
Gly Tyr Phe Ala Tyr Ser Gly Gly Ala Cys Phe
1 5 10

<210> 9060
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*26:01,HLA-A*29:02

<400> 9060
His Leu Ile Gln Ala Ile Phe Gln Gly Tyr
1 5 10

<210> 9061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*26:01,HLA-A*32:01,HLA-A*68:02,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*12:03,

<220>
<223> HLA-C*16:02

<400> 9061
His Ser Ser Pro Phe Thr Ala Val Leu
1 5

<210> 9062
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*68:02

<400> 9062
His Ser Ser Pro Phe Thr Ala Val Leu Leu
1 5 10

<210> 9063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 9063
Ile Ala Gly Glu Leu Lys Lys Pro Arg
1 5

<210> 9064
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*13:02,HLA-B*49:01,HLA-B*51:01,HLA-C*12:03,HLA-C*16:02

<400> 9064
Ile Ala Ser Ser Val Leu Lys Val
1 5

<210> 9065
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02

<400> 9065
Ile Phe Gln Gly Tyr Phe Ala Tyr
1 5

<210> 9066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-C*14:02

<400> 9066
Ile Phe Val Ser Pro Lys Gly Val Leu
1 5

<210> 9067
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02

<400> 9067
Ile Phe Val Ser Pro Lys Gly Val Leu Ala Tyr
1 5 10

<210> 9068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*27:05

<400> 9068
Ile Gly Ala Gly Ile Phe Val Ser Pro
1 5

<210> 9069
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*27:02

<400> 9069
Ile Gly Ala Gly Ile Phe Val Ser Pro Lys
1 5 10

<210> 9070
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*15:01,HLA-B*46:01

<400> 9070
Ile Leu Ala Met Thr Ser Thr Leu
1 5

<210> 9071

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9071
Ile Leu Ser Phe Ile Ser Leu Thr Gly Val
1 5 10

<210> 9072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02,HLA-B*35:03,HLA-B*38:01,
HLA-B*55:01

<400> 9072
Ile Leu Ser Ser Asp Ala Val Ala Ile
1 5

<210> 9073
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*32:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01

<400> 9073
Ile Leu Ser Ser Asp Ala Val Ala Ile Thr Trp
1 5 10

<210> 9074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02

<400> 9074
Ile Leu Thr Ser Leu Ile Asp Leu Ile
1 5

<210> 9075
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03

<400> 9075
Ile Leu Thr Ser Arg Gly Val Lys Glu Val
1 5 10

<210> 9076
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07,HLA-C*01:02

<400> 9076
Ile Met Pro Phe Ala Ile Ser Thr Ser Leu
1 5 10

<210> 9077
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*24:02

<400> 9077
Ile Met Pro Phe Ala Ile Ser Thr Ser Leu Phe
1 5 10

<210> 9078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 9078

Ile Pro Lys Cys Ile Phe Thr Ala Leu
1               5


<210> 9079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*51:01

<400> 9079
Ile Pro Leu Ile His Phe Lys Ile
1               5


<210> 9080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*51:01,HLA-B*56:01

<400> 9080
Ile Pro Leu Val Lys Ser Pro Asn Val
1               5


<210> 9081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*35:01,HLA-B*51:01,HLA-B*54:01

<400> 9081
Ile Pro Tyr Lys Val Phe Leu Ser Phe
1               5


<210> 9082
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01

<400> 9082
Ile Gln Ala Ile Phe Gln Gly Tyr
1               5


<210> 9083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*15:03

<400> 9083
Ile Gln Ala Ile Phe Gln Gly Tyr Phe
1               5


<210> 9084
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
      HLA-B*46:01,HLA-B*58:01

<400> 9084
Ile Ser Phe Pro Cys Ser Gly Ala Gln Tyr
1               5                   10


<210> 9085
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02

<400> 9085
Ile Ser Phe Pro Cys Ser Gly Ala Gln Tyr Tyr
1               5                   10


<210> 9086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02,HLA-B*57:01,HLA-B*58:01

<400> 9086
Ile Ser His Leu Ile Gln Ala Ile Phe
1 5

<210> 9087
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-B*15:03,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 9087
Ile Ser Leu Thr Gly Val Val Phe
1 5

<210> 9088
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-B*58:01

<400> 9088
Ile Ser Leu Thr Gly Val Val Phe Leu
1 5

<210> 9089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02,HLA-B*58:01

<400> 9089
Ile Ser Thr Ser Leu Phe Ser Asn Leu
1 5

<210> 9090
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 9090
Ile Val Gly Ile Leu Thr Ser Arg
1 5

<210> 9091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*23:01,HLA-A*26:01,
HLA-A*30:01,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*46:01,
HLA-B*49:01,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04

<400> 9091
Ile Val Ile Asp Val Gly Leu Val Val
1 5

<210> 9092
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*23:01,HLA-A*25:01,HLA-A*68:02

<400> 9092
Ile Val Ile Asp Val Gly Leu Val Val Ile
1 5 10

<210> 9093
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01

<400> 9093
Ile Tyr Leu Ala Ser Gln Glu Gly Gln Leu
1 5 10

<210> 9094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 9094
Lys Ser Pro Asn Val His Tyr Val Tyr
1 5

<210> 9095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07

<400> 9095
Lys Ser Pro Asn Val His Tyr Val Tyr Val
1 5 10

<210> 9096
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*08:01,HLA-B*46:01,HLA-B*51:01

<400> 9096
Leu Ala Ile Ile Leu Thr Ser Leu
1 5

<210> 9097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*51:01

<400> 9097
Leu Ala Ile Ile Leu Thr Ser Leu Ile

1 5

<210> 9098
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01

<400> 9098
Leu Ala Met Thr Ser Thr Leu Cys Ser Ala
1 5 10

<210> 9099
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*51:01

<400> 9099
Leu Ala Tyr Ser Cys Met Asn Val
1 5

<210> 9100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*14:02

<400> 9100
Leu Phe Leu Gly Ser Gly Val Val Ala
1 5

<210> 9101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01

<400> 9101
Leu Phe Ser Asn Leu Leu Ile Ser Ile
1               5


<210> 9102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*24:02,HLA-A*29:02

<400> 9102
Leu Phe Tyr Ile Pro Leu Ile His Phe
1               5


<210> 9103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*27:05

<400> 9103
Leu Gly Ser Gly Val Val Ala Gly Gln
1               5


<210> 9104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*02:07

<400> 9104
Leu Ile Asp Leu Ile Asn Tyr Ile Phe
1               5


<210> 9105
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -A*02:07

<400> 9105
Leu Ile Asp Leu Ile Asn Tyr Ile Phe Phe
1 5 10

<210> 9106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*46:01

<400> 9106
Leu Ile Gln Ala Ile Phe Gln Gly Tyr
1 5

<210> 9107
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9107
Leu Leu Phe Tyr Ile Pro Leu Ile
1 5

<210> 9108
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04,HLA-A*02:07

<400> 9108
Leu Leu Phe Tyr Ile Pro Leu Ile His Phe
1 5 10

<210> 9109
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9109
Leu Leu Ile Asn Ile Ile Gly Ala Gly Ile
1 5 10

<210> 9110
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9110
Leu Leu Val Asn Ile Ser Tyr Leu
1 5

<210> 9111
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9111
Leu Leu Val Asn Ile Ser Tyr Leu Thr Val Leu
1 5 10

<210> 9112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*31:01

<400> 9112
Leu Met Ile Gly Ile Leu Arg Arg Arg
1 5

<210> 9113
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*51:01

<400> 9113
Leu Pro Asp Ile Ser His Leu Ile
1 5

<210> 9114
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01,HLA-B*56:01

<400> 9114
Leu Pro Asp Ile Ser His Leu Ile Gln Ala
1 5 10

<210> 9115
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*08:01

<400> 9115
Leu Pro Lys Lys Cys Leu Ala Leu
1 5

<210> 9116
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01

<400> 9116
Leu Pro Leu Leu Phe Asn Thr Leu
1 5

<210> 9117
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*51:01,HLA-B*55:01

<400> 9117
Leu Pro Leu Val Thr Val Val Tyr
1 5

<210> 9118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01

<400> 9118
Leu Pro Leu Val Thr Val Val Tyr Leu
1 5

<210> 9119
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*15:01,HLA-B*15:03

<400> 9119
Leu Gln Ile Ala Ser Ser Val Leu
1 5

<210> 9120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*11:01

<400> 9120
Leu Gln Ile Ala Ser Ser Val Leu Lys

1 5

<210> 9121
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03,HLA-B*13:02

<400> 9121
Leu Gln Ile Ala Ser Ser Val Leu Lys Val
1 5 10

<210> 9122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03,HLA-A*68:02

<400> 9122
Leu Ser Phe Ile Ser Leu Thr Gly Val
1 5

<210> 9123
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*57:01

<400> 9123
Leu Ser Phe Ile Ser Leu Thr Gly Val Val Phe
1 5 10

<210> 9124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*12:03

<400> 9124
Leu Ser Phe Pro Leu Ala Thr Ile Val
1               5


<210> 9125
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01,HLA-A*25:01,HLA-B*27:02,HLA-B*44:02,HLA-B*57:01,
      HLA-B*58:01

<400> 9125
Leu Ser Ser Asp Ala Val Ala Ile Thr Trp
1               5                   10


<210> 9126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*01:01

<400> 9126
Leu Thr Ser Leu Ile Asp Leu Ile Asn Tyr
1               5                   10


<210> 9127
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*57:01

<400> 9127
Leu Thr Ser Arg Gly Val Lys Glu Val Thr Trp
1               5                   10


<210> 9128
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*46:01

<400> 9128
Leu Val Lys Ser Pro Asn Val His Tyr
1 5

<210> 9129
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02

<400> 9129
Leu Val Lys Ser Pro Asn Val His Tyr Val Tyr
1 5 10

<210> 9130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*29:02

<400> 9130
Leu Val Leu Ser Gly Leu Leu Phe Tyr
1 5

<210> 9131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9131
Leu Val Leu Ser Gly Leu Leu Phe Tyr Ile
1 5 10

<210> 9132
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*51:01

<400> 9132
Leu Val Asn Ile Ser Tyr Leu Thr Val
1 5

<210> 9133
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01

<400> 9133
Met Leu Trp Ile Val Gly Ile Leu Thr
1 5

<210> 9134
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01

<400> 9134
Met Pro Phe Ala Ile Ser Thr Ser
1 5

<210> 9135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*25:01,HLA-A*30:01,HLA-B*07:02,HLA-B*08:01,
HLA-B*15:03,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*46:01,
HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,

<220>
<223> HLA-C*03:04,HLA-C*07:02,HLA-C*14:02

<400> 9135
Met Pro Phe Ala Ile Ser Thr Ser Leu

1 5

<210> 9136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01

<400> 9136
Met Pro Phe Ala Ile Ser Thr Ser Leu Phe
1 5 10

<210> 9137
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01

<400> 9137
Met Pro Phe Ala Ile Ser Thr Ser Leu Phe Ser
1 5 10

<210> 9138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03,HLA-A*68:02

<400> 9138
Asn Ile Ile Gly Ala Gly Ile Phe Val
1 5

<210> 9139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01

<400> 9139
Asn Ser His Ser Ser Pro Phe Thr Ala
1               5


<210> 9140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*25:01

<400> 9140
Asn Val Gly Val Ser Leu Cys Val Trp
1               5


<210> 9141
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*24:02,HLA-A*29:02

<400> 9141
Asn Tyr Ile Phe Phe Thr Gly Ser Leu Trp
1               5                   10


<210> 9142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01,HLA-A*24:02

<400> 9142
Pro Phe Ala Ile Ser Thr Ser Leu Phe
1               5


<210> 9143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -A*02:03

<400> 9143
Pro Leu Ala Thr Ile Val Ile Asp Val
1 5

<210> 9144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01

<400> 9144
Gln Ala Ile Phe Gln Gly Tyr Phe Ala
1 5

<210> 9145
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02,HLA-A*30:02,HLA-B*35:01

<400> 9145
Gln Ala Ile Phe Gln Gly Tyr Phe Ala Tyr
1 5 10

<210> 9146
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,
HLA-B*46:01,HLA-C*07:01

<400> 9146
Gln Ala Leu Leu Leu Ala Glu Tyr
1 5

<210> 9147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 9147
Gln Glu Gly Gln Leu Pro Leu Leu
1 5

<210> 9148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*24:02,HLA-A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 9148
Gln Glu Gly Gln Leu Pro Leu Leu Phe
1 5

<210> 9149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9149
Gln Glu Pro Asn Leu Ser Ile Pro Tyr
1 5

<210> 9150
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*03:02,HLA-A*11:01

<400> 9150
Gln Ile Ala Ser Ser Val Leu Lys
1 5

<210> 9151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*51:01,
HLA-B*55:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:02

<400> 9151
Gln Ile Ala Ser Ser Val Leu Lys Val
1 5

<210> 9152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07,HLA-A*24:02,HLA-C*01:02

<400> 9152
Gln Leu Pro Leu Leu Phe Asn Thr Leu
1 5

<210> 9153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 9153
Gln Pro Phe Phe Pro Ser Cys Ser Val
1 5

<210> 9154
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*57:01

<400> 9154

Arg Ala Phe Pro Ser Leu Ala Trp
1               5


<210> 9155
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*57:01

<400> 9155
Arg Ala Phe Pro Ser Leu Ala Trp Ile Met
1               5                   10


<210> 9156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 9156
Arg Glu Ile Leu Ser Ser Asp Ala Val
1               5


<210> 9157
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 9157
Arg Glu Ile Leu Ser Ser Asp Ala Val Ala Ile
1               5                   10


<210> 9158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,

HLA-B*15:03,HLA-B*46:01,HLA-B*57:01,HLA-C*14:02

<400> 9158
Arg Tyr Phe Gly Ser Thr Val Ala Phe
1 5

<210> 9159
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*24:02

<400> 9159
Arg Tyr Phe Gly Ser Thr Val Ala Phe Leu
1 5 10

<210> 9160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 9160
Arg Tyr Gln Glu Pro Asn Leu Ser Ile
1 5

<210> 9161
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02,HLA-A*30:02,HLA-A*31:01

<400> 9161
Arg Tyr Gln Glu Pro Asn Leu Ser Ile Pro Tyr
1 5 10

<210> 9162
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*05:01

<400> 9162
Ser Ala Glu Ile Ser Ile Ser Phe
1 5

<210> 9163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*30:01,HLA-B*07:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,
HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:02,HLA-C*14:02,

<220>
<223> HLA-C*16:04

<400> 9163
Ser Cys Met Asn Val Gly Val Ser Leu
1 5

<210> 9164
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 9164
Ser Asp Ala Val Ala Ile Thr Trp
1 5

<210> 9165
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-C*14:02

<400> 9165
Ser Phe Ile Ser Leu Thr Gly Val Val Phe
1 5 10

<210> 9166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02,HLA-C*14:02

<400> 9166
Ser Phe Pro Cys Ser Gly Ala Gln Tyr
1 5

<210> 9167
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02

<400> 9167
Ser Phe Pro Cys Ser Gly Ala Gln Tyr Tyr
1 5 10

<210> 9168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*11:01

<400> 9168
Ser Gly Ala Gln Tyr Tyr Phe Leu Lys
1 5

<210> 9169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*15:03,HLA-B*35:03,HLA-B*39:01,HLA-B*40:01,HLA-B*46:01,
HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,HLA-C*14:02

<400> 9169
Ser Gly Val Val Ala Gly Gln Ala Leu
1               5


<210> 9170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*38:01,HLA-B*39:01

<400> 9170
Ser His Ser Ser Pro Phe Thr Ala Val
1               5


<210> 9171
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*38:01,HLA-B*39:01

<400> 9171
Ser His Ser Ser Pro Phe Thr Ala Val Leu
1               5                   10


<210> 9172
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*38:01

<400> 9172
Ser His Ser Ser Pro Phe Thr Ala Val Leu Leu
1               5                   10


<210> 9173
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -A*02:03,HLA-A*02:04,HLA-A*03:01

<400> 9173
Ser Ile Phe Lys Ser Ser Arg Pro Ile Tyr Leu
1 5 10

<210> 9174
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9174
Ser Ile Leu Ser Phe Ile Ser Leu Thr Gly Val
1 5 10

<210> 9175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*68:02,
HLA-B*08:01,HLA-B*46:01,HLA-B*55:01

<400> 9175
Ser Leu Ala Ile Ile Leu Thr Ser Leu
1 5

<210> 9176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03,HLA-B*13:02

<400> 9176
Ser Leu Phe Leu Gly Ser Gly Val Val
1 5

<210> 9177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03,HLA-B*54:01,HLA-B*56:01

<400> 9177
Ser Leu Phe Leu Gly Ser Gly Val Val Ala
1 5 10

<210> 9178
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9178
Ser Leu Phe Leu Gly Ser Gly Val Val Ala Gly
1 5 10

<210> 9179
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9179
Ser Leu Phe Ser Asn Leu Leu Ile Ser Ile
1 5 10

<210> 9180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*68:02,HLA-B*13:02

<400> 9180
Ser Leu Ile Asp Leu Ile Asn Tyr Ile
1 5

<210> 9181

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:04

<400> 9181
Ser Leu Thr Gly Val Val Phe Leu
1 5

<210> 9182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*24:02,HLA-A*30:01,HLA-A*68:02,HLA-B*13:02,HLA-B*55:01

<400> 9182
Ser Leu Thr Gly Val Val Phe Leu Ile
1 5

<210> 9183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 9183
Ser Leu Trp Ser Ile Leu Leu Met Ile
1 5

<210> 9184
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*51:01,HLA-B*56:01

<400> 9184
Ser Pro Phe Thr Ala Val Leu Leu
1 5

<210> 9185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*07:02,HLA-B*35:01,HLA-B*51:01,HLA-B*56:01

<400> 9185
Ser Pro Phe Thr Ala Val Leu Leu Leu
1 5

<210> 9186
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*56:01

<400> 9186
Ser Pro Lys Gly Val Leu Ala Tyr Ser Cys
1 5 10

<210> 9187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*32:01,HLA-B*08:01,HLA-B*35:01,HLA-B*55:01

<400> 9187
Ser Pro Asn Val His Tyr Val Tyr
1 5

<210> 9188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01

<400> 9188

Ser Pro Asn Val His Tyr Val Tyr Val
1               5


<210> 9189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*02:04,HLA-B*38:01,HLA-B*39:01

<400> 9189
Ser Gln Glu Gly Gln Leu Pro Leu Leu
1               5


<210> 9190
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*29:02,HLA-B*27:02,HLA-B*38:01

<400> 9190
Ser Gln Glu Gly Gln Leu Pro Leu Leu Phe
1               5                   10


<210> 9191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*01:01,HLA-A*02:07,HLA-A*25:01,HLA-A*32:01,HLA-B*44:02,
      HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01

<400> 9191
Ser Ser Asp Ala Val Ala Ile Thr Trp
1               5


<210> 9192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -C*01:02

<400> 9192
Ser Ser Pro Phe Thr Ala Val Leu Leu
1 5

<210> 9193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*08:01

<400> 9193
Ser Ser Val Leu Lys Val Ser Ile
1 5

<210> 9194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*25:01,HLA-B*57:01

<400> 9194
Ser Thr Val Ala Phe Leu Asn Leu Trp
1 5

<210> 9195
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*25:01

<400> 9195
Ser Val Leu Lys Val Ser Ile Leu Ser Phe
1 5 10

<210> 9196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 9196
Ser Tyr Leu Thr Val Leu Thr Pro Arg
1 5

<210> 9197
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*51:01

<400> 9197
Thr Ala Leu Pro Leu Val Thr Val
1 5

<210> 9198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*68:02,HLA-B*13:02,HLA-B*35:01,
HLA-B*39:01,HLA-B*51:01,HLA-B*54:01,HLA-B*56:01,HLA-C*02:02,
HLA-C*12:03,HLA-C*16:02

<400> 9198
Thr Ala Leu Pro Leu Val Thr Val Val
1 5

<210> 9199
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*25:01,HLA-A*29:02,HLA-A*30:02,HLA-B*35:01

<400> 9199
Thr Ala Leu Pro Leu Val Thr Val Val Tyr
1 5 10

<210> 9200

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01

<400> 9200
Thr Ala Val Leu Leu Leu Val Thr Leu
1 5

<210> 9201
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*31:01

<400> 9201
Thr Leu Ile Ala Gly Glu Leu Lys Lys Pro Arg
1 5 10

<210> 9202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*03:01,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*37:01,
HLA-B*46:01,HLA-C*07:04,HLA-C*14:02

<400> 9202
Thr Leu Asn Ser His Ser Ser Pro Phe
1 5

<210> 9203
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 9203
Thr Pro Arg Glu Ile Leu Ser Ser Asp Ala Val
1 5 10

<210> 9204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*51:01

<400> 9204
Thr Ser Phe Leu Leu Ile Asn Ile Ile
1 5

<210> 9205
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*54:01

<400> 9205
Thr Ser Leu Phe Leu Gly Ser Gly Val Val Ala
1 5 10

<210> 9206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*30:02,HLA-B*57:01,HLA-B*58:01

<400> 9206
Thr Ser Leu Ile Asp Leu Ile Asn Tyr
1 5

<210> 9207
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*57:01

<400> 9207

Thr Ser Arg Gly Val Lys Glu Val Thr Trp
1               5                   10


<210> 9208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*07:02

<400> 9208
Thr Val Leu Thr Pro Arg Glu Ile Leu
1               5


<210> 9209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*68:02

<400> 9209
Thr Val Val Tyr Leu Leu Val Asn Ile
1               5


<210> 9210
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*24:02

<400> 9210
Thr Trp Ala Asp Arg Ala Phe Pro Ser Leu
1               5                   10


<210> 9211
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01,HLA-B*51:01

<400> 9211
Val Ala Gly Gln Ala Leu Leu Leu
1               5


<210> 9212
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*30:02

<400> 9212
Val Ala Gly Gln Ala Leu Leu Leu Ala Glu Tyr
1               5                   10


<210> 9213
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -B*18:01,HLA-B*37:01

<400> 9213
Val Glu Arg Phe Gln Asn Ala Phe
1               5


<210> 9214
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01

<400> 9214
Val Phe Leu Ser Phe Pro Leu Ala Thr Ile
1               5                   10


<210> 9215
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*05:01

<400> 9215
Val Ile Asp Val Gly Leu Val Val
1 5

<210> 9216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07,HLA-B*38:01,HLA-C*05:01

<400> 9216
Val Ile Asp Val Gly Leu Val Val Ile
1 5

<210> 9217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07

<400> 9217
Val Ile Pro Leu Val Lys Ser Pro Asn Val
1 5 10

<210> 9218
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*15:03

<400> 9218
Val Lys Ser Pro Asn Val His Tyr
1 5

<210> 9219
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02,HLA-B*15:03

<400> 9219
Val Lys Ser Pro Asn Val His Tyr Val Tyr
1 5 10

<210> 9220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03,HLA-A*23:01,HLA-A*24:02,HLA-B*08:01,HLA-B*46:01

<400> 9220
Val Leu Lys Val Ser Ile Leu Ser Phe
1 5

<210> 9221
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:03

<400> 9221
Val Leu Lys Val Ser Ile Leu Ser Phe Ile
1 5 10

<210> 9222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9222
Val Leu Leu Leu Val Leu Ser Gly Leu
1 5

<210> 9223
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 9223
Val Leu Ser Gly Leu Leu Phe Tyr Ile
1 5

<210> 9224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*07:02

<400> 9224
Val Pro Lys Leu Pro Lys Lys Cys Leu
1 5

<210> 9225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -C*03:03,HLA-C*03:04

<400> 9225
Val Ser Ile Leu Ser Phe Ile Ser Leu
1 5

<210> 9226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*16:01

<400> 9226
Val Ser Pro Lys Gly Val Leu Ala Tyr
1 5

<210> 9227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01

<400> 9227
Val Thr Leu Gly Ser Leu Ala Ile Ile
1 5

<210> 9228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*03:01,HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,
HLA-B*13:02

<400> 9228
Val Val Ala Gly Gln Ala Leu Leu Leu
1 5

<210> 9229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*32:01

<400> 9229
Val Val Ile Pro Leu Val Lys Ser Pro
1 5

<210> 9230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*31:01

<400> 9230
Val Val Ile Pro Leu Val Lys Ser Pro Asn
1               5                   10


<210> 9231
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*30:02

<400> 9231
Val Val Tyr Leu Leu Val Asn Ile Ser Tyr
1               5                   10


<210> 9232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,HLA-C*14:02

<400> 9232
Val Tyr Leu Leu Val Asn Ile Ser Tyr
1               5


<210> 9233
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
      HLA -A*23:01,HLA-A*24:02

<400> 9233
Val Tyr Leu Leu Val Asn Ile Ser Tyr Leu
1               5                   10


<210> 9234
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;

HLA -A*23:01

<400> 9234
Val Tyr Val Leu Leu Leu Val Leu
1 5

<210> 9235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*31:01

<400> 9235
Trp Ile Val Gly Ile Leu Thr Ser Arg
1 5

<210> 9236
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 9236
Tyr Phe Gly Ser Thr Val Ala Phe
1 5

<210> 9237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 9237
Tyr Phe Gly Ser Thr Val Ala Phe Leu
1 5

<210> 9238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*29:02

<400> 9238
Tyr Ile Phe Phe Thr Gly Ser Leu Trp
1 5

<210> 9239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:07,HLA-A*24:02

<400> 9239
Tyr Ile Pro Leu Ile His Phe Lys Ile
1 5

<210> 9240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-B*39:01

<400> 9240
Tyr Leu Ala Ser Gln Glu Gly Gln Leu
1 5

<210> 9241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 9241
Tyr Leu Leu Val Asn Ile Ser Tyr Leu
1 5

<210> 9242
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9242
Tyr Leu Gln Leu Leu Phe Asn Ile
1 5

<210> 9243
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -B*13:02

<400> 9243
Tyr Gln Glu Pro Asn Leu Ser Ile
1 5

<210> 9244
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*27:02,HLA-B*39:01,HLA-C*07:01,HLA-C*07:04

<400> 9244
Tyr Gln Glu Pro Asn Leu Ser Ile Pro Tyr
1 5 10

<210> 9245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SLC7A13; ENSG00000164893;
HLA -A*02:04

<400> 9245
Tyr Val Tyr Val Leu Leu Leu Val Leu
1 5

<210> 9246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04

<400> 9246
Ala Ala Leu Ala Leu Leu Phe Ala Val
1 5

<210> 9247
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9247
Ala Ala Leu Asp Asn Thr Asn Ile Gly Lys
1 5 10

<210> 9248
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*01:02

<400> 9248
Ala Ala Pro Asn Leu Arg Ala Leu
1 5

<210> 9249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*39:01,
HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*16:04

<400> 9249
Ala Glu Glu Asp Ala Gln Phe Asn Phe

1 5

<210> 9250
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9250
Ala Glu Glu Asn Cys Leu Gln Thr Val
1 5

<210> 9251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9251
Ala Glu Lys Val Gln Thr Gln Ile
1 5

<210> 9252
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 9252
Ala Glu Leu Glu Lys Ile Gly Ile
1 5

<210> 9253
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 9253
Ala Glu Leu Glu Lys Ile Gly Ile Ile
1               5


<210> 9254
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*49:01

<400> 9254
Ala Glu Leu Glu Lys Ile Gly Ile Ile Val
1               5                   10


<210> 9255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 9255
Ala Glu Pro Glu Thr Phe Leu Ala Leu
1               5


<210> 9256
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*49:01

<400> 9256
Ala Glu Ser Thr Gln Ala Thr Ile
1               5


<210> 9257
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -B*49:01

<400> 9257
Ala Glu Ser Thr Gln Ala Thr Ile Asp Ile
1 5 10

<210> 9258
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:02,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03

<400> 9258
Ala Glu Ser Thr Gln Ala Thr Ile Asp Ile Tyr
1 5 10

<210> 9259
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02

<400> 9259
Ala Glu Val Leu Glu His Leu Lys Arg Leu Tyr
1 5 10

<210> 9260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*14:02

<400> 9260
Ala Phe Tyr Gln Glu Gln Ser Gln Leu
1 5

<210> 9261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*11:01

<400> 9261
Ala Gly Ile Asp Thr His Glu Gly Lys
1 5

<210> 9262
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04

<400> 9262
Ala Leu Ala Leu Leu Phe Ala Val
1 5

<210> 9263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9263
Ala Leu Asp Gly Thr Leu Phe Leu Lys
1 5

<210> 9264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9264
Ala Leu Asp Asn Thr Asn Ile Gly Lys
1 5

<210> 9265
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:07,HLA-B*55:01

<400> 9265
Ala Leu Asp Asn Thr Asn Ile Gly Lys Val
1 5 10

<210> 9266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,
HLA-B*44:03,HLA-B*46:01,HLA-B*58:01,HLA-C*02:02

<400> 9266
Ala Leu Ile Gly Ile Tyr Pro Glu Tyr
1 5

<210> 9267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04,HLA-A*24:02,HLA-A*32:01,HLA-B*44:02

<400> 9267
Ala Leu Leu Phe Ala Val His Ser Phe
1 5

<210> 9268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9268
Ala Leu Ser Phe Val Met Gly Glu Lys
1 5

<210> 9269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02

<400> 9269
Ala Leu Ser Gly Pro Glu Arg Gln Lys
1 5

<210> 9270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*56:01

<400> 9270
Ala Pro Phe Phe Val Leu Asp Glu Val
1 5

<210> 9271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*07:02,HLA-C*07:02

<400> 9271
Ala Pro Asn Leu Arg Ala Leu Glu Asn
1 5

<210> 9272
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*07:02,HLA-C*07:02

<400> 9272
Ala Pro Asn Leu Arg Ala Leu Glu Asn Leu

1 5 10

<210> 9273
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-C*07:06

<400> 9273
Ala Ser Gln Glu Asp Ile Leu Leu Lys
1 5

<210> 9274
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*11:01

<400> 9274
Ala Thr Ile Asp Ile Tyr Glu Lys
1 5

<210> 9275
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9275
Ala Thr Met Thr Gln Gln Leu Glu Lys
1 5

<210> 9276
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:07,HLA-C*05:01

<400> 9276
Ala Val Asp Arg Glu Val Gly Lys Leu
1               5


<210> 9277
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*11:01

<400> 9277
Ala Val Asp Arg Glu Val Gly Lys Leu Gln Lys
1               5                   10


<210> 9278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*31:01

<400> 9278
Ala Val Thr Lys Val Phe Gly Arg
1               5


<210> 9279
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*49:01

<400> 9279
Cys Glu Glu Ile Gly Val Glu Asn Ile
1               5


<210> 9280
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9280
Cys Ile Ile Gly Pro Asn Gly Ser Gly Lys
1 5 10

<210> 9281
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9281
Cys Leu Gln Thr Val Asn Glu Leu Met Ala Lys
1 5 10

<210> 9282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-B*08:01

<400> 9282
Cys Met Phe Ser Arg Val Leu Thr Leu
1 5

<210> 9283
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*16:04

<400> 9283
Cys Arg Asn Asn Ser Ala Gln Ala Phe
1 5

<210> 9284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*29:02

<400> 9284
Cys Val Ala Ala Leu Ala Leu Leu Phe
1 5

<210> 9285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*51:01

<400> 9285
Asp Ala Ala Leu Asp Asn Thr Asn Ile
1 5

<210> 9286
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*68:01

<400> 9286
Asp Ala Ala Leu Asp Asn Thr Asn Ile Gly Lys
1 5 10

<210> 9287
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*51:01

<400> 9287
Asp Ala Phe Glu Ala Ser Arg Lys
1 5

<210> 9288
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*54:01

<400> 9288
Asp Ala Phe Glu Ala Ser Arg Lys Glu Ala
1 5 10

<210> 9289
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01

<400> 9289
Asp Ala Phe Glu Ala Ser Arg Lys Glu Ala Arg
1 5 10

<210> 9290
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 9290
Asp Ala Leu Ile Gly Ile Tyr Pro Glu Tyr
1 5 10

<210> 9291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-B*27:02

<400> 9291
Asp Ala Gln Phe Asn Phe Asn Lys
1 5

<210> 9292

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-A*68:01

<400> 9292
Asp Ala Gln Phe Asn Phe Asn Lys Lys
1 5

<210> 9293
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01

<400> 9293
Asp Cys Ile Arg Phe Leu Lys Glu Glu Arg
1 5 10

<210> 9294
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01

<400> 9294
Asp Asp Ile Ile Glu Val Glu Met
1 5

<210> 9295
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01

<400> 9295
Asp Glu Lys Glu Leu Lys Asn Leu
1 5

<210> 9296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9296
Asp Ile Lys Ala Leu Glu Thr Glu Leu
1 5

<210> 9297
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-A*33:03

<400> 9297
Asp Ile Lys Pro Ile Asn Glu Arg
1 5

<210> 9298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9298
Asp Ile Lys Pro Ile Asn Glu Arg Leu
1 5

<210> 9299
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01

<400> 9299
Asp Ile Lys Pro Ile Asn Glu Arg Leu Arg

1 5 10

<210> 9300
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9300
Asp Ile Leu Leu Lys Thr Ala Ala
1 5

<210> 9301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-B*08:01,HLA-B*18:01,HLA-B*35:01

<400> 9301
Asp Ile Tyr Glu Lys Glu Glu Ala Phe
1 5

<210> 9302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01

<400> 9302
Asp Leu Cys His Pro Ile His Lys Lys
1 5

<210> 9303
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9303
Asp Leu Lys Gln Ile Gln Thr Leu
1               5


<210> 9304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*08:01

<400> 9304
Asp Leu Ser Val Lys Arg Glu Ser Leu
1               5


<210> 9305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*18:01

<400> 9305
Asp Asn Leu Val Ser Arg Ser Val Tyr
1               5


<210> 9306
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*25:01,HLA-A*26:01

<400> 9306
Asp Asn Thr Asn Ile Gly Lys Val Ser Ser Tyr
1               5                   10


<210> 9307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -A*33:01

<400> 9307
Asp Gln Glu Ile Glu Ala His Leu Arg
1 5

<210> 9308
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*51:01

<400> 9308
Asp Gln Phe Gln Met Ile Val Ile
1 5

<210> 9309
<211> 10
<212> PRT
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<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*68:01

<400> 9309
Asp Thr Glu Gly Gln Glu Ser Ser Lys Arg
1 5 10

<210> 9310
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01

<400> 9310
Asp Val Ile Lys Thr Gln Phe Pro Gln Leu
1 5 10

<210> 9311
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-A*33:03

<400> 9311
Asp Tyr Leu Asp Ile Lys Pro Ile Asn Glu Arg
1 5 10

<210> 9312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*51:01

<400> 9312
Glu Ala Glu Ser Thr Gln Ala Thr Ile
1 5

<210> 9313
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-A*68:02,HLA-B*35:01,
HLA-B*35:03

<400> 9313
Glu Ala Phe Glu Ile Asp Tyr Ser Ser Leu
1 5 10

<210> 9314
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9314
Glu Ala His Leu Arg Leu Leu Leu
1 5

<210> 9315
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:02

<400> 9315
Glu Asp Ala Gln Phe Asn Phe Asn Lys
1 5

<210> 9316
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*68:01

<400> 9316
Glu Asp Ala Gln Phe Asn Phe Asn Lys Lys
1 5 10

<210> 9317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*30:01,HLA-B*08:01,HLA-B*18:01,HLA-B*37:01,
HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 9317
Glu Glu Ala Glu Arg Tyr Gln Ser Leu
1 5

<210> 9318
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01

<400> 9318
Glu Glu Ala Phe Glu Ile Asp Tyr
1 5

<210> 9319
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*37:01

<400> 9319
Glu Glu Ala Arg His Ile Ala Leu
1 5

<210> 9320
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9320
Glu Glu Asp Ala Gln Phe Asn Phe
1 5

<210> 9321
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01

<400> 9321
Glu Glu Phe Tyr Ser Arg Ala Asp Ala Leu
1 5 10

<210> 9322
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*49:01

<400> 9322
Glu Glu Ile Gly Val Glu Asn Ile

1 5

<210> 9323
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-B*18:01,HLA-B*27:02,
HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 9323
Glu Glu Ile Gly Val Glu Asn Ile Arg Glu Phe
1 5 10

<210> 9324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 9324
Glu Glu Ile Ser Thr Ser Gly Glu Leu
1 5

<210> 9325
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 9325
Glu Glu Ile Ser Thr Ser Gly Glu Leu Ile
1 5 10

<210> 9326
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01

<400> 9326
Glu Glu Leu Lys Met Asn Lys Ile Gln Leu
1               5                   10


<210> 9327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 9327
Glu Glu Leu Asn Leu Ile Arg Ser Glu Leu
1               5                   10


<210> 9328
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9328
Glu Glu Pro Tyr Leu Glu Gly Ile Ser Tyr
1               5                   10


<210> 9329
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9329
Glu Glu Arg Ala Glu Pro Glu Thr Phe
1               5


<210> 9330
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02,HLA-B*44:03

<400> 9330
Glu Glu Ser Gly Glu Glu Lys Thr Phe
1 5

<210> 9331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*49:01

<400> 9331
Glu Glu Thr Leu Val Asp Glu Ile
1 5

<210> 9332
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01,HLA-B*18:01

<400> 9332
Glu Glu Tyr Thr Lys Thr Cys Met
1 5

<210> 9333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-A*33:03

<400> 9333
Glu Phe Glu Asn Lys His Val Lys Arg
1 5

<210> 9334
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:03

<400> 9334
Glu Phe Asn Glu Glu Leu Asn Leu Ile Arg
1 5 10

<210> 9335
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01

<400> 9335
Glu Phe Arg Phe Asn Asp Asn Leu Val Ser Arg
1 5 10

<210> 9336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9336
Glu Phe Tyr Ser Arg Ala Asp Ala Leu
1 5

<210> 9337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01

<400> 9337
Glu His Gly Met Leu Thr Arg Gln Leu
1 5

<210> 9338
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01,HLA-B*39:01

<400> 9338
Glu His Val Asn Arg Asp Leu Ser Val
1 5

<210> 9339
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01

<400> 9339
Glu His Val Ser Ile Ser Ile Asp Gln Ile
1 5 10

<210> 9340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9340
Glu Ile Asp Gln Lys Arg Tyr Phe Tyr
1 5

<210> 9341
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01

<400> 9341
Glu Ile Gly Val Glu Asn Ile Arg Glu Phe
1 5 10

<210> 9342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01

<400> 9342
Glu Ile Ile Leu Leu Ser Gly Ser Leu
1 5

<210> 9343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*68:02

<400> 9343
Glu Lys Ile Gly Ile Ile Val Lys Ala
1 5

<210> 9344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01

<400> 9344
Glu Leu Ala Asp Leu Asp Ala Ala Trp
1 5

<210> 9345
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9345
Glu Leu Glu Ala Ser Gln Leu Asp Arg Tyr
1 5 10

<210> 9346
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 9346
Glu Leu Ile Gly Glu Tyr Glu Glu Lys
1 5

<210> 9347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9347
Glu Leu Lys Met Asn Lys Ile Gln Leu
1 5

<210> 9348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-B*08:01

<400> 9348
Glu Leu Met Ala Lys Gln Gln Gln Leu
1 5

<210> 9349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9349

Glu Leu Asn Leu Ile Arg Ser Glu Leu
1               5


<210> 9350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*25:01,HLA-A*26:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,
      HLA-B*35:03,HLA-B*55:01,HLA-C*03:03

<400> 9350
Glu Pro Tyr Leu Glu Gly Ile Ser Tyr
1               5


<210> 9351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*39:01

<400> 9351
Glu Gln Ser Gln Leu Gln Ser Glu Leu
1               5


<210> 9352
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*38:01

<400> 9352
Glu Gln Ser Gln Leu Gln Ser Glu Leu Leu
1               5                   10


<210> 9353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -B*38:01,HLA-B*39:01

<400> 9353
Glu Arg Ala Glu Pro Glu Thr Phe Leu
1 5

<210> 9354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-A*33:03

<400> 9354
Glu Ser Ile Ser Val Lys Lys Pro Lys
1 5

<210> 9355
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 9355
Glu Ser Thr Asp Ala Phe Glu Ala Ser Arg
1 5 10

<210> 9356
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:03

<400> 9356
Glu Thr Leu Val Asp Glu Ile Glu Lys Thr Lys
1 5 10

<210> 9357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01

<400> 9357
Glu Thr Met Glu Glu Ala Arg His Ile
1 5

<210> 9358
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 9358
Glu Thr Met Glu Glu Ala Arg His Ile Ala Leu
1 5 10

<210> 9359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01

<400> 9359
Glu Val Gln Gly Asn Leu Lys Gln Ile
1 5

<210> 9360
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:03,HLA-A*68:01,
HLA-A*68:02,HLA-B*35:01,HLA-B*35:03,HLA-C*07:06

<400> 9360
Glu Val Val Ser Ile Gln Thr Ser Leu
1 5

<210> 9361
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*26:01

<400> 9361
Glu Val Val Ser Ile Gln Thr Ser Leu Glu
1 5 10

<210> 9362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:03

<400> 9362
Glu Tyr Asp Asp Cys Met Phe Ser Arg
1 5

<210> 9363
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01

<400> 9363
Phe Glu Glu Ile Ser Thr Ser Gly Glu Leu
1 5 10

<210> 9364
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01,HLA-B*40:01,HLA-B*49:01

<400> 9364
Phe Glu Glu Ile Ser Thr Ser Gly Glu Leu Ile
1 5 10

<210> 9365
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*49:01

<400> 9365
Phe Glu His Val Ser Ile Ser Ile
1 5

<210> 9366
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*49:01

<400> 9366
Phe Glu Ile Asp Tyr Ser Ser Leu
1 5

<210> 9367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9367
Phe Glu Ile Asp Tyr Ser Ser Leu Lys
1 5

<210> 9368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 9368
Phe Glu Lys Gln Ile Glu Glu Glu Ile
1 5

<210> 9369
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01

<400> 9369
Phe Glu Lys Gln Ile Glu Glu Glu Ile Leu
1 5 10

<210> 9370
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03

<400> 9370
Phe Leu Lys Ser Gly Val Ile Ser Gly Gly
1 5 10

<210> 9371
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9371
Phe Leu Ser Pro Glu Asn Pro Glu Glu Pro Tyr
1 5 10

<210> 9372
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:03

<400> 9372

Phe Asn Asp Asn Leu Val Ser Arg
1               5


<210> 9373
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*01:01

<400> 9373
Phe Asn Asp Asn Leu Val Ser Arg Ser Val Tyr
1               5                   10


<210> 9374
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*08:01

<400> 9374
Phe Pro Gln Leu Lys Lys Val Ile
1               5


<210> 9375
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*39:01

<400> 9375
Phe Gln Glu Ser Thr Asp Ala Phe
1               5


<210> 9376
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*13:02

<400> 9376
Phe Gln Gly Thr Val Glu Ser Ile
1               5


<210> 9377
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*13:02,HLA-B*15:01

<400> 9377
Phe Gln Met Ile Val Ile Ser Leu
1               5


<210> 9378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:01,HLA-B*35:03

<400> 9378
Phe Val Leu Asp Glu Val Asp Ala Ala Leu
1               5                   10


<210> 9379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*25:01,
      HLA-A*26:01,HLA-A*33:03,HLA-A*68:02

<400> 9379
Phe Val Met Gly Glu Lys Ile Ala Asn Leu
1               5                   10


<210> 9380
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*14:02

<400> 9380
Phe Tyr Gln Glu Gln Ser Gln Leu
1 5

<210> 9381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 9381
Gly Glu Glu Lys Thr Phe Ala Arg Ile
1 5

<210> 9382
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9382
Gly Glu Glu Lys Thr Phe Ala Arg Ile Ile
1 5 10

<210> 9383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9383
Gly Glu Lys Ile Ala Asn Leu Arg Val
1 5

<210> 9384
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:02

<400> 9384
Gly Glu Leu Ile Gly Glu Tyr Glu Glu Lys
1 5 10

<210> 9385
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 9385
Gly Glu Val Gln Gly Asn Leu Lys Gln Ile
1 5 10

<210> 9386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*15:03

<400> 9386
Gly Lys Ser Asn Val Met Asp Ala Leu
1 5

<210> 9387
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*07:02,HLA-C*07:02

<400> 9387
Gly Pro Glu Arg Gln Lys Thr Val Ala Leu
1 5 10

<210> 9388

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*07:02

<400> 9388
Gly Pro Asn Gly Ser Gly Lys Ser Asn Val Met
1 5 10

<210> 9389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:05

<400> 9389
Gly Arg Phe Ile Thr Ala Ile Val Val
1 5

<210> 9390
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:05

<400> 9390
Gly Arg Gln Val Ile Gly Pro Phe Arg
1 5

<210> 9391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9391
Gly Ser Glu Asp Ile Asp His Leu Lys
1 5

<210> 9392
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*11:01

<400> 9392
Gly Ser Glu Asp Ile Asp His Leu Lys Lys
1 5 10

<210> 9393
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:04

<400> 9393
Gly Ser Leu Asp Asp Ile Ile Glu Val
1 5

<210> 9394
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*32:01

<400> 9394
Gly Thr Gln Thr Arg Leu Lys Tyr
1 5

<210> 9395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-C*07:06

<400> 9395
Gly Thr Val Glu Ser Ile Ser Val Lys

1 5

<210> 9396
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 9396
Gly Thr Val Glu Ser Ile Ser Val Lys Lys
1 5 10

<210> 9397
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01

<400> 9397
Gly Val Ile Ser Gly Gly Ser Ser Asp Leu
1 5 10

<210> 9398
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9398
Gly Val Ile Ser Gly Gly Ser Ser Asp Leu Lys
1 5 10

<210> 9399
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*37:01

<400> 9399
His Glu Asn Ile Val Lys Ala Arg
1               5


<210> 9400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*08:01

<400> 9400
His Gly Met Leu Thr Arg Gln Leu
1               5


<210> 9401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*68:01

<400> 9401
His Ile Ala Leu Ser Gly Pro Glu Arg
1               5


<210> 9402
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:04

<400> 9402
His Leu Leu Asn Thr Lys Leu Glu His Val
1               5                   10


<210> 9403
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03

<400> 9403
His Leu Arg Leu Leu Leu Gln Gln Val
1 5

<210> 9404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9404
His Pro Ile His Lys Lys Tyr Gln Leu
1 5

<210> 9405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*57:01

<400> 9405
His Ser Phe Arg Pro Ala Pro Phe Phe
1 5

<210> 9406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02

<400> 9406
His Val Asn Arg Asp Leu Ser Val Lys
1 5

<210> 9407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01

<400> 9407
His Val Ser Ile Ser Ile Asp Gln Ile
1 5

<210> 9408
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*35:01

<400> 9408
His Val Ser Ile Ser Ile Asp Gln Ile Tyr
1 5 10

<210> 9409
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9409
His Val Ser Ile Ser Ile Asp Gln Ile Tyr Lys
1 5 10

<210> 9410
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*51:01

<400> 9410
Ile Ala Asn Leu Arg Val Lys Asn Ile
1 5

<210> 9411
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01

<400> 9411
Ile Asp Gln Ile Tyr Lys Lys Leu
1 5

<210> 9412
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*37:01

<400> 9412
Ile Asp Val Ile Lys Thr Gln Phe
1 5

<210> 9413
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01

<400> 9413
Ile Glu Ile Ile Leu Leu Ser Gly Ser Leu
1 5 10

<210> 9414
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*49:01

<400> 9414
Ile Glu Leu Glu Ala Ser Gln Leu
1 5

<210> 9415
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:02,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9415
Ile Glu Leu Glu Ala Ser Gln Leu Asp Arg Tyr
1 5 10

<210> 9416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 9416
Ile Glu Val Glu Met Gly Thr Glu Ala
1 5

<210> 9417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*32:01,HLA-B*46:01

<400> 9417
Ile Gly Lys Pro Ile Ser Ser Ser Ala
1 5

<210> 9418
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*46:01,HLA-B*58:01,HLA-C*16:01

<400> 9418
Ile Gly Val Glu Asn Ile Arg Glu Phe
1 5

<210> 9419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02

<400> 9419
Ile Ile Gly Pro Asn Gly Ser Gly Lys
1 5

<210> 9420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*46:01

<400> 9420
Ile Ile Arg Gly Gly Cys Ser Glu Phe
1 5

<210> 9421
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-B*27:02

<400> 9421
Ile Ile Tyr Val Glu Glu Ser Gly Glu Glu Lys
1 5 10

<210> 9422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*15:03

<400> 9422

Ile Lys Glu Gln Thr Gln Asp Gln Phe
1               5


<210> 9423
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*38:01

<400> 9423
Ile Gln Glu Leu Ile His Gly Ala His Ile
1               5                   10


<210> 9424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:01,HLA-A*03:02

<400> 9424
Ile Gln Gly Thr Gln Thr Arg Leu Lys
1               5


<210> 9425
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:02,HLA-A*32:01

<400> 9425
Ile Gln Gly Thr Gln Thr Arg Leu Lys Tyr
1               5                   10


<210> 9426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*29:02,HLA-A*30:02

<400> 9426
Ile Gln Leu Gln Leu Phe Gln Leu Tyr
1               5


<210> 9427
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*01:01,HLA-A*30:02

<400> 9427
Ile Ser Gly Gly Ser Ser Asp Leu Lys Tyr
1               5                   10


<210> 9428
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:02

<400> 9428
Ile Ser Gly Gly Ser Ser Asp Leu Lys Tyr Lys
1               5                   10


<210> 9429
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*11:01

<400> 9429
Ile Ser Ile Asp Gln Ile Tyr Lys
1               5


<210> 9430
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9430
Ile Ser Ile Asp Gln Ile Tyr Lys Lys
1 5

<210> 9431
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*57:01

<400> 9431
Ile Ser Ile Asp Gln Ile Tyr Lys Lys Leu
1 5 10

<210> 9432
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*57:01

<400> 9432
Ile Ser Leu Lys Glu Glu Phe Tyr Ser Arg
1 5 10

<210> 9433
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:02

<400> 9433
Ile Ser Ser Ser Ala Ser Val Lys Ile Ile Tyr
1 5 10

<210> 9434
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*30:02,HLA-B*58:01

<400> 9434
Ile Ser Thr Ser Gly Glu Leu Ile Gly Glu Tyr
1 5 10

<210> 9435
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-B*27:02

<400> 9435
Ile Thr Ala Ile Val Val Ala Ser Glu Lys
1 5 10

<210> 9436
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*68:02

<400> 9436
Ile Thr Ala Ile Val Val Ala Ser Glu Lys Val
1 5 10

<210> 9437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*35:01,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01

<400> 9437
Ile Val Ile Ser Leu Lys Glu Glu Phe
1 5

<210> 9438
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*29:02,HLA-A*30:02

<400> 9438
Ile Val Ile Ser Leu Lys Glu Glu Phe Tyr
1 5 10

<210> 9439
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9439
Ile Val Val Ala Ser Glu Lys Val Ala Lys
1 5 10

<210> 9440
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:02

<400> 9440
Ile Tyr Val Glu Glu Ser Gly Glu Glu Lys
1 5 10

<210> 9441
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*58:01

<400> 9441
Lys Ala Glu Glu Asp Ala Gln Phe Asn Phe
1 5 10

<210> 9442
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01,HLA-B*40:01

<400> 9442
Lys Glu Glu Ala Glu Arg Tyr Gln Ser Leu
1 5 10

<210> 9443
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01

<400> 9443
Lys Glu Glu Arg Ala Glu Pro Glu Thr Phe
1 5 10

<210> 9444
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01

<400> 9444
Lys Glu Glu Arg Ala Glu Pro Glu Thr Phe Leu
1 5 10

<210> 9445
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 9445

Lys Glu Lys Lys Gln Gln Glu Glu Thr Leu
1               5                   10


<210> 9446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 9446
Lys Glu Leu Lys Ser Val Glu Thr Leu
1               5


<210> 9447
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*40:01

<400> 9447
Lys Glu Leu Lys Ser Val Glu Thr Leu Leu
1               5                   10


<210> 9448
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*37:01

<400> 9448
Lys Glu Asn Thr Ser His His Leu
1               5


<210> 9449
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*40:01

<400> 9449
Lys Glu Gln Thr Gln Asp Gln Phe Gln Met
1               5                   10


<210> 9450
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 9450
Lys Glu Thr Asp Leu Lys Gln Ile Gln Thr Leu
1               5                   10


<210> 9451
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 9451
Lys Glu Val Val Ser Ile Gln Thr Ser Leu
1               5                   10


<210> 9452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-C*14:02

<400> 9452
Lys Phe Gln Glu Ser Thr Asp Ala Phe
1               5


<210> 9453
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9453
Lys Gly Ser Glu Asp Ile Asp His Leu Lys
1 5 10

<210> 9454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*32:01,HLA-B*58:01

<400> 9454
Lys Ile Asn Thr Leu Lys Glu Thr Ile
1 5

<210> 9455
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02

<400> 9455
Lys Ile Asn Thr Leu Lys Glu Thr Ile Gln Lys
1 5 10

<210> 9456
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02

<400> 9456
Lys Ile Gln Glu Leu Lys Gly Leu Met Lys
1 5 10

<210> 9457
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04

<400> 9457
Lys Ile Gln Leu Gln Leu Phe Gln Leu
1 5

<210> 9458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02

<400> 9458
Lys Leu Asn Lys Ile Asn Thr Leu Lys
1 5

<210> 9459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9459
Lys Leu Gln Lys Glu Val Val Ser Ile
1 5

<210> 9460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01

<400> 9460
Lys Met Asn Lys Ile Gln Leu Gln Leu
1 5

<210> 9461
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*07:02,HLA-B*55:01,HLA-B*56:01,HLA-C*07:02

<400> 9461
Lys Pro Ile Ser Ser Ser Ala Ser Val
1 5

<210> 9462
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*11:01

<400> 9462
Lys Gln Ile Glu Glu Glu Ile Leu His Lys
1 5 10

<210> 9463
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*11:01

<400> 9463
Lys Gln Ile Glu Glu Glu Ile Leu His Lys Lys
1 5 10

<210> 9464
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*58:01

<400> 9464
Lys Ser Val Glu Thr Leu Leu Asn Gln Lys
1 5 10

<210> 9465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01

<400> 9465
Lys Thr Asp Glu Glu Arg Leu Ala Phe
1 5

<210> 9466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9466
Lys Thr Gln Phe Pro Gln Leu Lys Lys
1 5

<210> 9467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*58:01

<400> 9467
Lys Thr Val Ala Leu Asp Gly Thr Leu
1 5

<210> 9468
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*57:01,HLA-B*58:01

<400> 9468
Lys Thr Val Ala Leu Asp Gly Thr Leu Phe
1 5 10

<210> 9469
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*32:01,HLA-B*58:01

<400> 9469
Lys Val Ala Thr Met Thr Gln Gln Leu
1 5

<210> 9470
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01

<400> 9470
Lys Val Ala Thr Met Thr Gln Gln Leu Glu Lys
1 5 10

<210> 9471
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9471
Lys Val Glu Asp Asp Ile Phe Gln His
1 5

<210> 9472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:07,HLA-B*57:01,HLA-B*58:01

<400> 9472

Lys Val Glu Asp Asp Ile Phe Gln His Phe
1               5                   10


<210> 9473
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:03

<400> 9473
Lys Val Phe Gly Arg Phe Ile Thr Ala Ile
1               5                   10


<210> 9474
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:04,HLA-A*02:07,HLA-A*03:02

<400> 9474
Lys Val Gln Asp Ile Glu Ile Ile Leu Leu
1               5                   10


<210> 9475
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*31:01

<400> 9475
Lys Val Gln Thr Gln Ile Glu Glu Glu Arg
1               5                   10


<210> 9476
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:02

<400> 9476
Lys Val Gln Thr Gln Ile Glu Glu Glu Arg Lys
1               5                   10


<210> 9477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*24:02

<400> 9477
Lys Tyr Gln Leu Ala Val Thr Lys Val
1               5


<210> 9478
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*24:02

<400> 9478
Lys Tyr Gln Leu Ala Val Thr Lys Val Phe
1               5                   10


<210> 9479
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9479
Leu Glu Ala Ser Gln Leu Asp Arg Tyr
1               5


<210> 9480
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9480
Leu Glu Glu Leu Lys Met Asn Lys Ile
1 5

<210> 9481
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9481
Leu Glu Gly Ile Ser Tyr Asn Cys Val
1 5

<210> 9482
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9482
Leu Glu Lys Glu Glu Ala Glu Arg Tyr
1 5

<210> 9483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 9483
Leu Glu Leu Leu Leu Val Glu Asn Phe
1 5

<210> 9484
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01

<400> 9484
Leu Glu Thr Glu Leu Ala Asp Leu
1 5

<210> 9485
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9485
Leu Ile Gln Gly Thr Gln Thr Arg Leu Lys
1 5 10

<210> 9486
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*29:02

<400> 9486
Leu Ile Gln Gly Thr Gln Thr Arg Leu Lys Tyr
1 5 10

<210> 9487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01

<400> 9487
Leu Leu Phe Ala Val His Ser Phe
1 5

<210> 9488
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03

<400> 9488
Leu Leu Lys Thr Ala Ala Pro Asn Leu
1 5

<210> 9489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*32:01

<400> 9489
Leu Leu Asn Gln Lys Arg Pro Gln Tyr
1 5

<210> 9490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04

<400> 9490
Leu Leu Asn Thr Lys Leu Glu His Val
1 5

<210> 9491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01

<400> 9491
Leu Leu Val Glu Asn Phe Lys Ser Trp
1 5

<210> 9492
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*08:01

<400> 9492
Leu Asn Leu Ile Arg Ser Glu Leu
1 5

<210> 9493
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*15:01

<400> 9493
Leu Gln Lys Ala Glu Glu Asp Ala Gln Phe
1 5 10

<210> 9494
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*15:01

<400> 9494
Leu Gln Lys Glu Val Val Ser Ile
1 5

<210> 9495
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:05

<400> 9495
Leu Gln Ser Asp Gln Glu Ile Glu Ala His Leu
1 5 10

<210> 9496
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9496
Leu Thr Arg Leu Asn Val Gln Leu Glu Tyr
1 5 10

<210> 9497
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:03,HLA-A*25:01,HLA-A*68:02,HLA-B*51:01

<400> 9497
Leu Val Phe Gln Gly Thr Val Glu Ser Ile
1 5 10

<210> 9498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:03

<400> 9498
Leu Tyr Pro Asp Ser Val Phe Gly Arg
1 5

<210> 9499
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*24:02

<400> 9499

Leu Tyr Pro Asp Ser Val Phe Gly Arg Leu
1               5                   10


<210> 9500
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*24:02,HLA-A*29:02

<400> 9500
Leu Tyr Pro Asp Ser Val Phe Gly Arg Leu Phe
1               5                   10


<210> 9501
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*18:01,HLA-B*37:01

<400> 9501
Met Asp Ala Leu Ser Phe Val Met
1               5


<210> 9502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*30:01,HLA-B*08:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,
      HLA-B*40:02

<400> 9502
Met Glu Glu Ala Arg His Ile Ala Leu
1               5


<210> 9503
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -A*33:01,HLA-A*33:03

<400> 9503
Met Leu Ser Glu Gly Ile Lys Glu Arg
1 5

<210> 9504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:04

<400> 9504
Met Leu Thr Arg Leu Asn Val Gln Leu
1 5

<210> 9505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*56:01

<400> 9505
Met Pro Met Asp Asn Leu Ser Gly Gly
1 5

<210> 9506
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*35:01

<400> 9506
Met Pro Met Asp Asn Leu Ser Gly Gly Glu Lys
1 5 10

<210> 9507
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*57:01

<400> 9507
Met Thr Gln Gln Leu Glu Lys Leu Gln Trp
1 5 10

<210> 9508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01

<400> 9508
Met Val Ile Asp Val Ile Lys Thr Gln
1 5

<210> 9509
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*68:01,
HLA-B*15:01,HLA-B*35:01

<400> 9509
Met Val Ile Asp Val Ile Lys Thr Gln Phe
1 5 10

<210> 9510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01

<400> 9510
Asn Asp Asn Leu Val Ser Arg Ser Val
1 5

<210> 9511
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01

<400> 9511
Asn Asp Asn Leu Val Ser Arg Ser Val Tyr
1 5 10

<210> 9512
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*18:01

<400> 9512
Asn Glu Leu Glu Met Ile Lys Lys
1 5

<210> 9513
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01

<400> 9513
Asn Glu Leu Met Ala Lys Gln Gln Gln Leu
1 5 10

<210> 9514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04

<400> 9514
Asn Ile Gln Glu Leu Ile His Gly Ala
1 5

<210> 9515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03

<400> 9515
Asn Leu Val Ser Arg Ser Val Tyr Ile
1 5

<210> 9516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 9516
Asn Thr Lys Leu Glu His Val Asn Arg
1 5

<210> 9517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:01

<400> 9517
Asn Thr Leu Lys Glu Thr Ile Gln Lys
1 5

<210> 9518
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02

<400> 9518
Asn Thr Asn Ile Gly Lys Val Ser Ser Tyr
1 5 10

<210> 9519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*26:01,HLA-A*68:02

<400> 9519
Asn Val Met Asp Ala Leu Ser Phe Val
1 5

<210> 9520
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*14:02

<400> 9520
Pro Tyr Leu Glu Gly Ile Ser Tyr
1 5

<210> 9521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:02

<400> 9521
Gln Ala Thr Ile Asp Ile Tyr Glu Lys
1 5

<210> 9522
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02

<400> 9522

Gln Glu Asp Asp Ile Lys Ala Leu
1               5


<210> 9523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*49:01

<400> 9523
Gln Glu Asp Ile Leu Leu Lys Thr Ala
1               5


<210> 9524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*49:01

<400> 9524
Gln Glu Asp Ile Leu Leu Lys Thr Ala Ala
1               5                   10


<210> 9525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*40:01,HLA-B*49:01

<400> 9525
Gln Glu Glu Thr Leu Val Asp Glu Ile
1               5


<210> 9526
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*27:02

<400> 9526
Gln Glu Glu Thr Leu Val Asp Glu Ile Glu Lys
1               5                   10


<210> 9527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*44:02,HLA-B*44:03

<400> 9527
Gln Glu Phe Glu Gln Val Lys Lys Arg
1               5


<210> 9528
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*44:03

<400> 9528
Gln Glu Ile Asp Gln Lys Arg Tyr
1               5


<210> 9529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*44:02,HLA-B*44:03

<400> 9529
Gln Glu Ile Asp Gln Lys Arg Tyr Phe
1               5


<210> 9530
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02,HLA-B*44:03

<400> 9530
Gln Glu Ile Asp Gln Lys Arg Tyr Phe Tyr
1 5 10

<210> 9531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01

<400> 9531
Gln Glu Ile Glu Ala His Leu Arg Leu
1 5

<210> 9532
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02,HLA-B*44:03

<400> 9532
Gln Glu Ile Glu Ala His Leu Arg Leu Leu
1 5 10

<210> 9533
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02

<400> 9533
Gln Glu Ile Glu Ala His Leu Arg Leu Leu Leu
1 5 10

<210> 9534
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01,HLA-B*49:01

<400> 9534
Gln Glu Leu Ile His Gly Ala His Ile
1 5

<210> 9535
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02,HLA-B*44:03

<400> 9535
Gln Glu Leu Lys Gly Leu Met Lys Thr Leu
1 5 10

<210> 9536
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01

<400> 9536
Gln Glu Gln Ser Gln Leu Gln Ser Glu Leu
1 5 10

<210> 9537
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01

<400> 9537
Gln Glu Gln Ser Gln Leu Gln Ser Glu Leu Leu
1 5 10

<210> 9538

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01

<400> 9538
Gln Phe Gln Met Ile Val Ile Ser Leu
1 5

<210> 9539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*16:01

<400> 9539
Gln Gly Thr Gln Thr Arg Leu Lys Tyr
1 5

<210> 9540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01

<400> 9540
Gln Ile Glu Glu Glu Ile Leu His Lys
1 5

<210> 9541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9541
Gln Ile Glu Glu Glu Ile Leu His Lys Lys
1 5 10

<210> 9542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03

<400> 9542
Gln Leu Lys Lys Val Ile Gln Phe Val
1 5

<210> 9543
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9543
Gln Leu Gln Gln Thr Glu Lys Glu Leu Lys
1 5 10

<210> 9544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04

<400> 9544
Gln Leu Gln Ser Glu Leu Leu Asn Ile
1 5

<210> 9545
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*13:02

<400> 9545
Gln Gln Val Ala Ser Gln Glu Asp Ile

1 5

<210> 9546
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01

<400> 9546
Gln Gln Val Ala Ser Gln Glu Asp Ile Leu Leu
1 5 10

<210> 9547
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9547
Gln Ser Asp Gln Glu Ile Glu Ala His Leu
1 5 10

<210> 9548
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9548
Gln Ser Asp Gln Glu Ile Glu Ala His Leu Arg
1 5 10

<210> 9549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*33:03

<400> 9549
Gln Thr Leu Ile Gln Gly Thr Gln Thr Arg
1               5                   10


<210> 9550
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 9550
Gln Thr Val Asn Glu Leu Met Ala Lys
1               5


<210> 9551
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 9551
Gln Val Ala Ser Gln Glu Asp Ile Leu Leu Lys
1               5                   10


<210> 9552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*08:01

<400> 9552
Gln Val Arg Lys Lys Val Ala Thr Met
1               5


<210> 9553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -A*01:01

<400> 9553
Arg Ala Asp Ala Leu Ile Gly Ile Tyr
1 5

<210> 9554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*51:01,HLA-B*58:01,HLA-C*16:02

<400> 9554
Arg Ala Leu Glu Asn Leu Lys Thr Val
1 5

<210> 9555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01

<400> 9555
Arg Asp Ile Glu Leu Glu Ala Ser Gln Leu
1 5 10

<210> 9556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 9556
Arg Phe Asn Asp Asn Leu Val Ser Arg
1 5

<210> 9557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01

<400> 9557
Arg His Gly Glu Val Gln Gly Asn Leu
1 5

<210> 9558
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*30:02

<400> 9558
Arg Leu Asn Val Gln Leu Glu Tyr
1 5

<210> 9559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*31:01

<400> 9559
Arg Leu Tyr Pro Asp Ser Val Phe Gly Arg
1 5 10

<210> 9560
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*31:01

<400> 9560
Arg Leu Tyr Pro Asp Ser Val Phe Gly Arg Leu
1 5 10

<210> 9561
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01

<400> 9561
Arg Met Ser Glu Phe Asn Glu Glu Leu
1 5

<210> 9562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9562
Arg Gln Glu Phe Glu Gln Val Lys Lys
1 5

<210> 9563
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:02,HLA-B*15:01

<400> 9563
Arg Gln Gln Glu Ile Asp Gln Lys Arg Tyr
1 5 10

<210> 9564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9564
Arg Ser Gln Lys Ile Gln Glu Leu Lys
1 5

<210> 9565

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*29:02,HLA-A*30:02,HLA-B*57:01

<400> 9565
Arg Val Leu Thr Leu Asp Leu Ser Gln Tyr
1 5 10

<210> 9566
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9566
Arg Val Thr Gln Asn Ser Ser Ala Glu Lys
1 5 10

<210> 9567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*24:02

<400> 9567
Arg Tyr Asp Leu Phe Thr Gln Cys Phe
1 5

<210> 9568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*24:02

<400> 9568
Arg Tyr Gln Ser Leu Leu Glu Glu Leu
1 5

<210> 9569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*51:01,HLA-B*58:01,HLA-C*05:01

<400> 9569
Ser Ala Glu Lys Val Gln Thr Gln Ile
1 5

<210> 9570
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*16:01

<400> 9570
Ser Ala Ser Val Lys Ile Ile Tyr
1 5

<210> 9571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03,HLA-A*02:04,HLA-A*68:02,HLA-C*02:02,HLA-C*12:03

<400> 9571
Ser Ala Ser Val Lys Ile Ile Tyr Val
1 5

<210> 9572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 9572
Ser Glu Phe Asn Glu Glu Leu Asn Leu

1 5

<210> 9573
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 9573
Ser Glu Phe Asn Glu Glu Leu Asn Leu Ile
1 5 10

<210> 9574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 9574
Ser Glu Phe Arg Phe Asn Asp Asn Leu
1 5

<210> 9575
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9575
Ser Glu Phe Arg Phe Asn Asp Asn Leu Val
1 5 10

<210> 9576
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9576
Ser Ile Asp Gln Ile Tyr Lys Lys
1               5


<210> 9577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:07

<400> 9577
Ser Ile Asp Gln Ile Tyr Lys Lys Leu
1               5


<210> 9578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:02,HLA-A*11:01

<400> 9578
Ser Ile Gln Thr Ser Leu Glu Gln Lys
1               5


<210> 9579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9579
Ser Ile Ser Ile Asp Gln Ile Tyr Lys
1               5


<210> 9580
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -A*02:01,HLA-A*02:07,HLA-C*05:01

<400> 9580
Ser Leu Asp Asp Ile Ile Glu Val
1 5

<210> 9581
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:07,HLA-B*38:01,HLA-B*55:01

<400> 9581
Ser Leu Asp Asp Ile Ile Glu Val Glu Met
1 5 10

<210> 9582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03,HLA-A*02:04,HLA-B*08:01,HLA-B*46:01

<400> 9582
Ser Leu Lys Glu Asp Leu Lys Ala Leu
1 5

<210> 9583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03

<400> 9583
Ser Leu Lys Glu Glu Phe Tyr Ser Arg
1 5

<210> 9584
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*13:02

<400> 9584
Ser Gln Leu Gln Ser Glu Leu Leu Asn Ile
1 5 10

<210> 9585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*11:01

<400> 9585
Ser Gln Asn Glu Leu Glu Met Ile Lys Lys
1 5 10

<210> 9586
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:05

<400> 9586
Ser Gln Tyr Pro Asp Thr Glu Gly Gln Glu Ser
1 5 10

<210> 9587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:05

<400> 9587
Ser Arg Ala Asp Ala Leu Ile Gly Ile
1 5

<210> 9588
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:02

<400> 9588
Ser Arg Ala Asp Ala Leu Ile Gly Ile Tyr
1 5 10

<210> 9589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*58:01,HLA-C*02:02,
HLA-C*16:01

<400> 9589
Ser Ser Ala Ser Val Lys Ile Ile Tyr
1 5

<210> 9590
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:02

<400> 9590
Ser Ser Ser Ala Ser Val Lys Ile Ile Tyr
1 5 10

<210> 9591
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9591
Ser Thr Asp Ala Phe Glu Ala Ser Arg Lys
1 5 10

<210> 9592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*30:02

<400> 9592
Ser Thr Gln Ala Thr Ile Asp Ile Tyr
1 5

<210> 9593
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9593
Ser Thr Gln Ala Thr Ile Asp Ile Tyr Glu Lys
1 5 10

<210> 9594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02

<400> 9594
Ser Thr Ser Gly Glu Leu Ile Gly Glu Tyr
1 5 10

<210> 9595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9595
Ser Val Glu Thr Leu Leu Asn Gln Lys
1 5

<210> 9596
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*68:01

<400> 9596
Ser Val Glu Thr Leu Leu Asn Gln Lys Arg
1 5 10

<210> 9597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04

<400> 9597
Ser Val Phe Gly Arg Leu Phe Asp Leu
1 5

<210> 9598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*11:01

<400> 9598
Ser Val Tyr Ile Ala Glu Leu Glu Lys
1 5

<210> 9599
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*24:02

<400> 9599

Ser Tyr Ile Lys Glu Gln Thr Gln Asp Gln Phe
1               5                   10


<210> 9600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*35:03,HLA-B*46:01,
      HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
      HLA-C*16:01,HLA-C*16:02

<400> 9600
Thr Ala Ala Pro Asn Leu Arg Ala Leu
1               5


<210> 9601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*68:01,HLA-C*07:06

<400> 9601
Thr Ala Ile Val Val Ala Ser Glu Lys
1               5


<210> 9602
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*37:01

<400> 9602
Thr Asp Glu Glu Arg Leu Ala Phe
1               5


<210> 9603
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*37:01

<400> 9603
Thr Asp Leu Lys Gln Ile Gln Thr Leu
1 5

<210> 9604
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01,HLA-B*49:01

<400> 9604
Thr Glu Ala Glu Ser Thr Gln Ala Thr Ile
1 5 10

<210> 9605
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*30:01,HLA-B*40:01

<400> 9605
Thr Glu Lys Glu Leu Lys Ser Val Glu Thr Leu
1 5 10

<210> 9606
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*44:02,HLA-B*44:03

<400> 9606
Thr Glu Leu Ala Asp Leu Asp Ala Ala Trp
1 5 10

<210> 9607
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9607
Thr Leu Ile Gln Gly Thr Gln Thr Arg Leu Lys
1 5 10

<210> 9608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04

<400> 9608
Thr Met Thr Gln Gln Leu Glu Lys Leu
1 5

<210> 9609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*35:01,HLA-B*46:01

<400> 9609
Thr Asn Ile Gly Lys Val Ser Ser Tyr
1 5

<210> 9610
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*15:01,HLA-B*15:03

<400> 9610
Thr Gln Ala Thr Ile Asp Ile Tyr
1 5

<210> 9611

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:02

<400> 9611
Thr Gln Ala Thr Ile Asp Ile Tyr Glu Lys
1 5 10

<210> 9612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*13:02,HLA-B*38:01

<400> 9612
Thr Gln Cys Phe Glu His Val Ser Ile
1 5

<210> 9613
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*13:02,HLA-B*38:01

<400> 9613
Thr Gln Asp Gln Phe Gln Met Ile
1 5

<210> 9614
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01

<400> 9614
Thr Gln Asp Gln Phe Gln Met Ile Val Ile
1 5 10

<210> 9615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:03,HLA-B*13:02

<400> 9615
Thr Gln Phe Pro Gln Leu Lys Lys Val
1 5

<210> 9616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*13:02

<400> 9616
Thr Gln Asn Ser Ser Ala Glu Lys Val
1 5

<210> 9617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*29:02,HLA-B*27:02,HLA-B*27:05,HLA-C*16:04

<400> 9617
Thr Arg Leu Asn Val Gln Leu Glu Tyr
1 5

<210> 9618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*27:05

<400> 9618
Thr Arg Gln Leu Gln Gln Thr Glu Lys

1 5

<210> 9619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*26:01,HLA-A*30:02,HLA-B*35:01

<400> 9619
Thr Ser Gly Glu Leu Ile Gly Glu Tyr
1 5

<210> 9620
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9620
Thr Val Ala Leu Asp Gly Thr Leu Phe Leu Lys
1 5 10

<210> 9621
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02

<400> 9621
Thr Val Glu Ser Ile Ser Val Lys
1 5

<210> 9622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 9622
Thr Val Glu Ser Ile Ser Val Lys Lys
1               5


<210> 9623
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:02

<400> 9623
Thr Val Glu Ser Ile Ser Val Lys Lys Pro Lys
1               5                   10


<210> 9624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*03:02,HLA-A*11:01

<400> 9624
Thr Val Asn Glu Leu Met Ala Lys
1               5


<210> 9625
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*23:01

<400> 9625
Val Ala Ala Leu Ala Leu Leu Phe
1               5


<210> 9626
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -A*23:01

<400> 9626
Val Ala Leu Asp Gly Thr Leu Phe
1 5

<210> 9627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*23:01,HLA-C*03:03,HLA-C*03:04

<400> 9627
Val Ala Leu Asp Gly Thr Leu Phe Leu
1 5

<210> 9628
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9628
Val Ala Leu Asp Gly Thr Leu Phe Leu Lys
1 5 10

<210> 9629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*35:03,HLA-B*38:01

<400> 9629
Val Ala Ser Gln Glu Asp Ile Leu Leu
1 5

<210> 9630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9630
Val Ala Ser Gln Glu Asp Ile Leu Leu Lys
1 5 10

<210> 9631
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-B*18:01,
HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,
HLA-B*49:01,HLA-C*16:04

<400> 9631
Val Glu Asp Asp Ile Phe Gln His Phe
1 5

<210> 9632
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 9632
Val Glu Glu Ser Gly Glu Glu Lys Thr Phe
1 5 10

<210> 9633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*24:02,HLA-C*04:01,HLA-C*14:02

<400> 9633
Val Phe Gln Gly Thr Val Glu Ser Ile
1 5

<210> 9634

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*02:07,HLA-A*23:01,HLA-A*32:01,HLA-C*05:01

<400> 9634
Val Ile Asp Val Ile Lys Thr Gln Phe
1 5

<210> 9635
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:04,HLA-A*23:01,HLA-A*24:02

<400> 9635
Val Ile Lys Thr Gln Phe Pro Gln Leu
1 5

<210> 9636
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -C*01:02

<400> 9636
Val Ile Ser Gly Gly Ser Ser Asp Leu
1 5

<210> 9637
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9637
Val Ile Ser Gly Gly Ser Ser Asp Leu Lys
1 5 10

<210> 9638
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*58:01

<400> 9638
Val Ile Ser Gly Gly Ser Ser Asp Leu Lys Tyr
1 5 10

<210> 9639
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01

<400> 9639
Val Ile Ser Leu Lys Glu Glu Phe
1 5

<210> 9640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9640
Val Ile Ser Leu Lys Glu Glu Phe Tyr
1 5

<210> 9641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:01,HLA-A*02:07,HLA-B*35:03,HLA-B*55:01,HLA-C*05:01

<400> 9641

Val Leu Asp Glu Val Asp Ala Ala Leu
1               5


<210> 9642
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*01:01,HLA-B*15:01

<400> 9642
Val Leu Thr Leu Asp Leu Ser Gln Tyr
1               5


<210> 9643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:07

<400> 9643
Val Met Asp Ala Leu Ser Phe Val Met
1               5


<210> 9644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*08:01,
      HLA-B*55:01

<400> 9644
Val Met Gly Glu Lys Ile Ala Asn Leu
1               5


<210> 9645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;

HLA -A*33:01,HLA-A*33:03

<400> 9645
Val Asn Arg Asp Leu Ser Val Lys Arg
1 5

<210> 9646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:07,HLA-B*27:05,HLA-B*38:01

<400> 9646
Val Gln Asp Ile Glu Ile Ile Leu Leu
1 5

<210> 9647
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9647
Val Ser Ile Gln Thr Ser Leu Glu Gln Lys
1 5 10

<210> 9648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*15:01,HLA-B*46:01,
HLA-B*58:01

<400> 9648
Val Ser Ile Ser Ile Asp Gln Ile Tyr
1 5

<210> 9649
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9649
Val Ser Ile Ser Ile Asp Gln Ile Tyr Lys
1 5 10

<210> 9650
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*11:01

<400> 9650
Val Ser Ile Ser Ile Asp Gln Ile Tyr Lys Lys
1 5 10

<210> 9651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:02,HLA-A*11:01

<400> 9651
Val Thr Gln Asn Ser Ser Ala Glu Lys
1 5

<210> 9652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 9652
Val Val Ala Ser Glu Lys Val Ala Lys
1 5

<210> 9653
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9653
Val Val Ser Ile Gln Thr Ser Leu Glu Gln Lys
1 5 10

<210> 9654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*23:01,HLA-A*24:02

<400> 9654
Val Tyr Ile Ala Glu Leu Glu Lys Ile
1 5

<210> 9655
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*37:01

<400> 9655
Tyr Asp Leu Phe Thr Gln Cys Phe
1 5

<210> 9656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*49:01

<400> 9656
Tyr Glu Lys Glu Glu Ala Phe Glu Ile
1 5

<210> 9657
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*15:01,HLA-B*46:01

<400> 9657
Tyr Ile Lys Glu Gln Thr Gln Asp Gln Phe
1 5 10

<210> 9658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9658
Tyr Leu Asp Ile Lys Pro Ile Asn Glu
1 5

<210> 9659
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9659
Tyr Leu Asp Ile Lys Pro Ile Asn Glu Arg
1 5 10

<210> 9660
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:07

<400> 9660
Tyr Leu Asp Ile Lys Pro Ile Asn Glu Arg Leu
1 5 10

<210> 9661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*02:07,HLA-B*35:03

<400> 9661
Tyr Pro Asp Ser Val Phe Gly Arg Leu
1 5

<210> 9662
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*35:01

<400> 9662
Tyr Pro Asp Ser Val Phe Gly Arg Leu Phe
1 5 10

<210> 9663
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01,HLA-B*27:02

<400> 9663
Tyr Pro Asp Thr Glu Gly Gln Glu Ser Ser Lys
1 5 10

<210> 9664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 9664

Tyr Pro Glu Tyr Asp Asp Cys Met Phe
1               5


<210> 9665
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 9665
Tyr Gln Glu Gln Ser Gln Leu Gln Ser Glu Leu
1               5                   10


<210> 9666
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*02:01,HLA-B*13:02,HLA-B*49:01

<400> 9666
Tyr Gln Leu Ala Val Thr Lys Val
1               5


<210> 9667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*23:01,HLA-B*15:03

<400> 9667
Tyr Gln Leu Ala Val Thr Lys Val Phe
1               5


<210> 9668
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*39:01

<400> 9668
Tyr Gln Ser Leu Leu Glu Glu Leu
1               5


<210> 9669
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -B*27:02

<400> 9669
Tyr Ser Gln Asn Glu Leu Glu Met Ile Lys
1               5                   10


<210> 9670
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*11:01

<400> 9670
Tyr Ser Gln Asn Glu Leu Glu Met Ile Lys Lys
1               5                   10


<210> 9671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
      HLA -A*01:01

<400> 9671
Tyr Ser Ser Leu Lys Glu Asp Leu Lys
1               5


<210> 9672
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -A*01:01

<400> 9672
Tyr Val Glu Glu Ser Gly Glu Glu Lys
1 5

<210> 9673
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMC1B; ENSG00000077935;
HLA -B*38:01,HLA-C*05:01

<400> 9673
Tyr Val Glu Glu Ser Gly Glu Glu Lys Thr Phe
1 5 10

<210> 9674
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 9674
Ala Cys Phe Thr Pro Gly Glu Ser Gln Arg
1 5 10

<210> 9675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*51:01,HLA-B*55:01,HLA-B*56:01

<400> 9675
Asp Pro Ala Leu Pro Thr Pro Ala Pro
1 5

<210> 9676
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*54:01

<400> 9676
Phe Pro Phe Gly Thr Gly Phe Val Pro
1 5

<210> 9677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*29:02,HLA-B*35:01

<400> 9677
Phe Pro Pro Pro Leu Ser Pro Pro Tyr
1 5

<210> 9678
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*35:01,HLA-B*35:03,HLA-B*56:01

<400> 9678
Phe Pro Val Asn Ser Pro Thr Asp Pro Ala Leu
1 5 10

<210> 9679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*02:07,HLA-B*54:01

<400> 9679
Phe Val Pro Pro Pro His Pro Pro Pro
1 5

<210> 9680
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*01:01,HLA-A*02:07,HLA-A*26:01,HLA-A*29:02

<400> 9680
Phe Val Pro Pro Pro His Pro Pro Pro Tyr
1 5 10

<210> 9681
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*29:02

<400> 9681
Gly Phe Val Pro Pro Pro His Pro Pro Pro Tyr
1 5 10

<210> 9682
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*07:02,HLA-C*07:02

<400> 9682
Gly Pro Arg Gly Pro Tyr Pro Pro Gly Pro Leu
1 5 10

<210> 9683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*07:02,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 9683
Gly Pro Tyr Pro Pro Gly Pro Leu Ala
1 5

<210> 9684
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*56:01

<400> 9684
Gly Pro Tyr Pro Pro Gly Pro Leu Ala Pro
1 5 10

<210> 9685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*27:05

<400> 9685
Gly Arg Phe Pro Pro Pro Leu Ser Pro
1 5

<210> 9686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*27:05

<400> 9686
Gly Arg Ile Pro Pro Ser Pro Pro Pro
1 5

<210> 9687
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*29:02,HLA-A*30:02

<400> 9687
His Ser Leu Pro Pro Pro Tyr Gly Pro Gly Tyr
1 5 10

<210> 9688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*29:02,HLA-B*35:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 9688
Ile Pro Pro Ser Pro Pro Pro Pro Tyr
1 5

<210> 9689
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*30:02

<400> 9689
Ile Gln Ser His Ser Leu Pro Pro Pro Tyr
1 5 10

<210> 9690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*02:04

<400> 9690
Lys Ser Leu Thr Trp Ile Leu Gly Leu
1 5

<210> 9691
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*57:01

<400> 9691

Lys Ser Leu Thr Trp Ile Leu Gly Leu Trp
1               5                   10


<210> 9692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
      HLA -B*51:01

<400> 9692
Leu Ala Pro Pro Pro Pro Pro Cys Phe
1               5


<210> 9693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
      HLA -A*26:01,HLA-A*29:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 9693
Leu Pro Pro Pro Tyr Gly Pro Gly Tyr
1               5


<210> 9694
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
      HLA -A*31:01,HLA-A*33:01

<400> 9694
Pro Gly Tyr Pro Gln Pro Pro Ser Gln Pro Arg
1               5                   10


<210> 9695
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
      HLA -A*30:02

<400> 9695
Pro Gln Pro Pro Ser Gln Pro Arg Pro Tyr
1               5                   10


<210> 9696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
      HLA -A*24:02

<400> 9696
Pro Tyr Pro Pro Gly Pro Pro Phe Phe
1               5


<210> 9697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
      HLA -A*01:01,HLA-A*30:02

<400> 9697
Gln Ser His Ser Leu Pro Pro Pro Tyr
1               5


<210> 9698
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
      HLA -A*29:02,HLA-A*30:02

<400> 9698
Arg Phe Pro Pro Pro Leu Ser Pro Pro Tyr
1               5                   10


<210> 9699
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*03:01,HLA-A*30:02

<400> 9699
Arg Ile Pro Pro Ser Pro Pro Pro Pro Tyr
1 5 10

<210> 9700
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*30:02

<400> 9700
Arg Ile Gln Ser His Ser Leu Pro Pro Pro Tyr
1 5 10

<210> 9701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*07:02,HLA-B*56:01

<400> 9701
Arg Pro Tyr Pro Pro Gly Pro Pro Phe
1 5

<210> 9702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*01:01,HLA-A*02:07,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*15:01

<400> 9702
Ser Leu Pro Pro Pro Tyr Gly Pro Gly Tyr
1 5 10

<210> 9703
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*56:01

<400> 9703
Ser Pro Thr Asp Pro Ala Leu Pro Thr Pro
1 5 10

<210> 9704
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*56:01

<400> 9704
Ser Pro Thr Asp Pro Ala Leu Pro Thr Pro Ala
1 5 10

<210> 9705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*30:02

<400> 9705
Ser Gln Arg Gly Pro Arg Gly Pro Tyr
1 5

<210> 9706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -B*35:03

<400> 9706
Val Asn Ser Pro Thr Asp Pro Ala Leu
1 5

<210> 9707

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*01:01,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02,
HLA-B*07:02,HLA-B*35:01,HLA-B*55:01,HLA-B*56:01,HLA-C*04:01

<400> 9707
Val Pro Pro Pro His Pro Pro Pro Tyr
1 5

<210> 9708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 9708
Tyr Pro Gln Pro Pro Ser Gln Pro Arg
1 5

<210> 9709
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SMR3A; ENSG00000109208;
HLA -A*30:02

<400> 9709
Tyr Pro Gln Pro Pro Ser Gln Pro Arg Pro Tyr
1 5 10

<210> 9710
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*49:01

<400> 9710
Ala Glu Asp Glu Asn Asp Ser Lys Gly Val
1 5 10

<210> 9711
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*35:01,HLA-B*55:01,
HLA-C*04:01,HLA-C*14:02

<400> 9711
Ala Phe Asp Asp Ile Ala Thr Tyr
1 5

<210> 9712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*02:01,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,
HLA-A*32:01,HLA-A*33:03,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*55:01,

<220>
<223> HLA-C*02:02,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,HLA-C*12:03,
HLA-C*14:02

<400> 9712
Ala Phe Asp Asp Ile Ala Thr Tyr Phe
1 5

<210> 9713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*02:01,HLA-A*02:04,HLA-B*13:02,HLA-B*55:01

<400> 9713
Ala Met Thr Lys Leu Gly Phe Lys Val
1 5

<210> 9714
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:02,HLA-A*11:01

<400> 9714
Ala Asn Ile Ser Glu Lys Ile Asn Lys
1 5

<210> 9715
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:03

<400> 9715
Ala Asn Ile Ser Glu Lys Ile Asn Lys Arg
1 5 10

<210> 9716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*01:01,HLA-B*39:01,HLA-C*04:01,HLA-C*05:01

<400> 9716
Ala Thr Asp Phe Gln Gly Asn Asp Phe
1 5

<210> 9717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*32:01,HLA-B*57:01

<400> 9717
Ala Thr Tyr Phe Ser Lys Lys Glu Trp
1 5

<210> 9718

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:01,HLA-A*33:03

<400> 9718
Asp Ala Lys Ala Ser Glu Lys Arg
1 5

<210> 9719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:01

<400> 9719
Asp Asp Ala Lys Ala Ser Glu Lys Arg
1 5

<210> 9720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:01

<400> 9720
Asp Asp Ile Ala Thr Tyr Phe Ser Lys
1 5

<210> 9721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:01

<400> 9721
Asp Asp Thr Phe Ala Lys Arg Pro Arg
1 5

<210> 9722
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:01,HLA-A*33:03

<400> 9722
Asp Phe Asp Asn Asp His Asn Arg
1 5

<210> 9723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*26:01,HLA-A*33:01,HLA-A*68:01

<400> 9723
Asp Ile Ala Thr Tyr Phe Ser Lys Lys
1 5

<210> 9724
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:01

<400> 9724
Asp Ser Lys Gly Val Ser Glu Ala Ser Gly Pro
1 5 10

<210> 9725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*68:01,HLA-B*27:02

<400> 9725
Glu Ala Ser Gly Pro Gln Asn Asp Gly Lys

1 5 10

<210> 9726
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*18:01,HLA-B*37:01,HLA-C*04:01

<400> 9726
Phe Asp Asp Ile Ala Thr Tyr Phe
1 5

<210> 9727
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*27:02

<400> 9727
Phe Asp Asp Ile Ala Thr Tyr Phe Ser Lys
1 5 10

<210> 9728
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*33:01

<400> 9728
Gly Asp Asp Thr Phe Ala Lys Arg Pro Arg
1 5 10

<210> 9729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*13:02,HLA-B*38:01

<400> 9729
Gly Lys Ala Asn Ile Ser Glu Lys Ile
1               5


<210> 9730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -B*07:02,HLA-C*07:02

<400> 9730
Gly Pro Gln Asn Asp Gly Lys Gln Leu
1               5


<210> 9731
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -B*08:01,HLA-B*51:01

<400> 9731
His Pro Pro Gly Lys Ala Asn Ile
1               5


<210> 9732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -B*07:02

<400> 9732
His Pro Gln Met Thr Phe Gly Arg Leu
1               5


<210> 9733
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;

HLA -B*57:01

<400> 9733
Ile Ala Thr Tyr Phe Ser Lys Lys Glu Trp
1 5 10

<210> 9734
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01

<400> 9734
Ile Ile Pro Lys Ile Met Pro Lys
1 5

<210> 9735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01

<400> 9735
Ile Ile Pro Lys Ile Met Pro Lys Lys
1 5

<210> 9736
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*30:01,HLA-A*32:01,HLA-B*08:01,HLA-B*13:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*37:01,HLA-B*39:01,HLA-B*40:02,
HLA-B*46:01,HLA-B*58:01,HLA-C*03:04,HLA-C*07:04,HLA-C*16:01,

<220>
<223> HLA-C*16:02

<400> 9736
Ile Gln Val Glu His Pro Gln Met
1 5

<210> 9737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*13:02

<400> 9737
Ile Gln Val Glu His Pro Gln Met Thr
1 5

<210> 9738
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,
HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*38:01,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 9738
Ile Gln Val Glu His Pro Gln Met Thr Phe
1 5 10

<210> 9739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,
HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,

<220>
<223> HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,
HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,

<220>
<223> HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,
HLA-C*07:06,HLA-C*12:03,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 9739
Lys Ala Phe Asp Asp Ile Ala Thr Tyr
1 5

<210> 9740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,
HLA-A*03:01,HLA-A*03:02,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,

<220>
<223> HLA-A*68:02,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,
HLA-B*35:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:04

<400> 9740
Lys Ala Phe Asp Asp Ile Ala Thr Tyr Phe
1 5 10

<210> 9741
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*08:01,HLA-C*16:01

<400> 9741
Lys Ala Met Thr Lys Leu Gly Phe
1 5

<210> 9742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01

<400> 9742
Lys Ala Met Thr Lys Leu Gly Phe Lys
1 5

<210> 9743
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 9743
Lys Ala Asn Ile Ser Glu Lys Ile Asn Lys
1 5 10

<210> 9744
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*31:01

<400> 9744
Lys Ala Asn Ile Ser Glu Lys Ile Asn Lys Arg
1 5 10

<210> 9745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01

<400> 9745
Lys Ile Asn Lys Arg Ser Gly Pro Lys
1 5

<210> 9746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*31:01

<400> 9746
Lys Ile Ser Tyr Val Tyr Met Lys Arg
1 5

<210> 9747

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*15:01

<400> 9747
Lys Gln Ala Thr Asp Phe Gln Gly Asn Asp Phe
1 5 10

<210> 9748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*24:02,HLA-A*30:01,
HLA-B*13:02

<400> 9748
Lys Gln Leu Val Ile Tyr Glu Glu Ile
1 5

<210> 9749
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -C*16:01

<400> 9749
Lys Tyr Ser Glu Lys Ile Ser Tyr
1 5

<210> 9750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*24:02

<400> 9750
Lys Tyr Ser Glu Lys Ile Ser Tyr Val
1 5

<210> 9751
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02

<400> 9751
Lys Tyr Ser Glu Lys Ile Ser Tyr Val Tyr
1 5 10

<210> 9752
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*24:02

<400> 9752
Lys Tyr Ser Glu Lys Ile Ser Tyr Val Tyr Met
1 5 10

<210> 9753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*15:03

<400> 9753
Met Lys Tyr Ser Glu Lys Ile Ser Tyr
1 5

<210> 9754
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*08:01,HLA-B*40:02

<400> 9754

Met Thr Lys Leu Gly Phe Lys Val
1               5


<210> 9755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*27:02

<400> 9755
Asn Asp Phe Asp Asn Asp His Asn Arg
1               5


<210> 9756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 9756
Asn Gly Asp Asp Thr Phe Ala Lys Arg
1               5


<210> 9757
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*33:01

<400> 9757
Asn Gly Asp Asp Thr Phe Ala Lys Arg Pro Arg
1               5                   10


<210> 9758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 9758
Asn Ile Ser Glu Lys Ile Asn Lys Arg
1               5


<210> 9759
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -B*15:03,HLA-B*27:02,HLA-B*35:01,HLA-B*38:01,HLA-B*39:01

<400> 9759
Gln Ala Thr Asp Phe Gln Gly Asn Asp Phe
1               5                   10


<210> 9760
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 9760
Gln Gly Asn Asp Phe Asp Asn Asp His Asn Arg
1               5                   10


<210> 9761
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*25:01,HLA-A*32:01,HLA-B*15:01,HLA-B*57:01,HLA-B*58:01,
      HLA-C*05:01

<400> 9761
Gln Val Glu His Pro Gln Met Thr Phe
1               5


<210> 9762
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 9762
Arg Ile Ile Pro Lys Ile Met Pro Lys
1 5

<210> 9763
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01

<400> 9763
Arg Ile Ile Pro Lys Ile Met Pro Lys Lys
1 5 10

<210> 9764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*32:01

<400> 9764
Arg Ile Gln Val Glu His Pro Gln Met
1 5

<210> 9765
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 9765
Arg Ile Gln Val Glu His Pro Gln Met Thr Phe
1 5 10

<210> 9766
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*02:04

<400> 9766
Arg Leu His Arg Ile Ile Pro Lys Ile
1 5

<210> 9767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01

<400> 9767
Arg Asn Tyr Lys Ala Met Thr Lys Leu
1 5

<210> 9768
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*07:02

<400> 9768
Arg Pro Arg Asp Asp Ala Lys Ala Ser Glu Lys
1 5 10

<210> 9769
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*30:02,HLA-A*31:01,HLA-B*15:01,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01

<400> 9769
Arg Ser Lys Ala Phe Asp Asp Ile Ala Thr Tyr
1 5 10

<210> 9770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*30:01,HLA-B*08:01,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*37:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-C*07:01

<400> 9770
Ser Glu Lys Ile Ser Tyr Val Tyr
1 5

<210> 9771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*30:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 9771
Ser Glu Lys Ile Ser Tyr Val Tyr Met
1 5

<210> 9772
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*15:03

<400> 9772
Ser Lys Ala Phe Asp Asp Ile Ala Thr Tyr
1 5 10

<210> 9773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*29:02

<400> 9773

Ser Tyr Val Tyr Met Lys Arg Asn Tyr
1               5


<210> 9774
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -B*18:01,HLA-B*37:01

<400> 9774
Thr Asp Phe Gln Gly Asn Asp Phe
1               5


<210> 9775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*03:01,HLA-A*03:02

<400> 9775
Thr Leu Pro Pro Phe Met Cys Asn Lys
1               5


<210> 9776
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
      HLA -A*23:01,HLA-A*30:01,HLA-A*32:01,HLA-B*15:03,HLA-B*18:01,
      HLA-B*37:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
      HLA-C*04:01,HLA-C*16:04

<400> 9776
Val Glu His Pro Gln Met Thr Phe
1               5


<210> 9777
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*49:01

<400> 9777
Val Glu His Pro Gln Met Thr Phe Gly
1 5

<210> 9778
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 9778
Val Thr Leu Pro Pro Phe Met Cys Asn Lys
1 5 10

<210> 9779
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*24:02

<400> 9779
Val Tyr Met Lys Arg Asn Tyr Lys Ala
1 5

<210> 9780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*15:03

<400> 9780
Tyr Lys Ala Met Thr Lys Leu Gly Phe
1 5

<210> 9781
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*01:01

<400> 9781
Tyr Ser Glu Lys Ile Ser Tyr Val
1 5

<210> 9782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*01:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-B*18:01,
HLA-B*35:01,HLA-B*57:01,HLA-B*58:01

<400> 9782
Tyr Ser Glu Lys Ile Ser Tyr Val Tyr
1 5

<210> 9783
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -A*01:01

<400> 9783
Tyr Ser Glu Lys Ile Ser Tyr Val Tyr Met
1 5 10

<210> 9784
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; SSX1; ENSG00000126752;
HLA -B*08:01

<400> 9784
Tyr Val Tyr Met Lys Arg Asn Tyr
1 5

<210> 9785

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*11:01

<400> 9785
Ala Ala Leu Phe Asn Asn Leu Arg Lys
1 5

<210> 9786
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*54:01,HLA-B*56:01

<400> 9786
Ala Ala Leu Pro Ile Val Ser Ala
1 5

<210> 9787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01,HLA-A*32:01,HLA-B*46:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*02:02

<400> 9787
Ala Ala Leu Pro Ile Val Ser Ala Ala
1 5

<210> 9788
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-A*25:01

<400> 9788
Ala Ala Leu Pro Ile Val Ser Ala Ala Ile
1 5 10

<210> 9789
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*49:01

<400> 9789
Ala Glu Gly Ser Val Lys Asp Ser Gly Val
1 5 10

<210> 9790
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:01,HLA-B*35:03,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04

<400> 9790
Ala Phe Asp Val Ala Ser Phe Leu
1 5

<210> 9791
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:04,HLA-A*68:02

<400> 9791
Ala Ile Ser His Leu Trp Gln Asn Leu
1 5

<210> 9792
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:01

<400> 9792

Ala Leu Phe Asn Asn Leu Arg Lys
1               5


<210> 9793
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:03,HLA-A*02:04

<400> 9793
Ala Leu Phe Asn Asn Leu Arg Lys Thr
1               5


<210> 9794
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:01,HLA-A*02:03

<400> 9794
Ala Leu Phe Asn Asn Leu Arg Lys Thr Val
1               5                   10


<210> 9795
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01

<400> 9795
Ala Leu Phe Asn Asn Leu Arg Lys Thr Val Tyr
1               5                   10


<210> 9796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*23:01,HLA-A*24:02,

HLA-A*30:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*46:01,HLA-C*01:02

<400> 9796
Ala Leu Pro Ile Val Ser Ala Ala Ile
1 5

<210> 9797
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:02

<400> 9797
Ala Leu Pro Ile Val Ser Ala Ala Ile Ser His
1 5 10

<210> 9798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*31:01

<400> 9798
Ala Gln Leu Gln Glu Leu Glu His Arg
1 5

<210> 9799
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
HLA-B*35:01,HLA-B*35:03,HLA-B*40:01,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*03:04,HLA-C*16:02,HLA-C*16:04

<400> 9799
Ala Ser Phe Pro Val Asp Glu Glu Met
1 5

<210> 9800
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:01,HLA-A*31:01

<400> 9800
Ala Ser Lys Trp Gln Val Leu Asn Lys
1 5

<210> 9801
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:01,HLA-A*11:01

<400> 9801
Ala Ser Leu Arg Gln Ala Trp Ala Gln Lys
1 5 10

<210> 9802
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*58:01

<400> 9802
Ala Ser Met Tyr Ser Gly Asn Asp Ser Phe
1 5 10

<210> 9803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*11:01

<400> 9803
Ala Ser Ser Leu Glu Glu Val Lys Lys
1 5

<210> 9804
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*30:02,HLA-A*32:01,HLA-B*57:01

<400> 9804
Ala Ser Ser Leu Glu Glu Val Lys Lys Glu Tyr
1 5 10

<210> 9805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*31:01

<400> 9805
Ala Thr Leu Ala Ala Leu Phe Asn Asn
1 5

<210> 9806
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:01,HLA-A*11:01,HLA-A*31:01

<400> 9806
Ala Thr Leu Ala Ala Leu Phe Asn Asn Leu
1 5 10

<210> 9807
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*11:01,HLA-A*31:01

<400> 9807
Ala Thr Leu Ala Ala Leu Phe Asn Asn Leu Arg
1 5 10

<210> 9808
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*11:01

<400> 9808
Ala Thr Pro Glu Glu Asn Ser Asn Pro His
1 5 10

<210> 9809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:07,HLA-A*24:02,HLA-A*31:01,HLA-A*32:01,HLA-A*68:02,
HLA-C*01:02

<400> 9809
Ala Thr Pro Gln Leu Pro Ala Gln Leu
1 5

<210> 9810
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,HLA-B*46:01,HLA-B*51:01

<400> 9810
Asp Ala Phe Asp Val Ala Ser Phe
1 5

<210> 9811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,

HLA-A*68:01,HLA-A*68:02,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-B*51:01,HLA-C*02:02,HLA-C*07:06,

<220>
<223> HLA-C*12:03

<400> 9811
Asp Ala Phe Asp Val Ala Ser Phe Leu
1 5

<210> 9812
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*11:01,HLA-A*33:01,HLA-A*68:01,HLA-A*68:02,HLA-B*27:02

<400> 9812
Asp Ala Phe Asp Val Ala Ser Phe Leu Asp Lys
1 5 10

<210> 9813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*18:01

<400> 9813
Asp Glu Glu Met Ile Met Leu Gln Cys
1 5

<210> 9814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:02

<400> 9814
Asp Leu Ile Ala Ser Lys Trp Gln Val
1 5

<210> 9815

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*33:01

<400> 9815
Asp Leu Leu Thr Gly Ser Gly Ile Ile Thr Pro
1 5 10

<210> 9816
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*33:01

<400> 9816
Asp Asn Leu Leu Lys Leu Lys Ala Ser Phe
1 5 10

<210> 9817
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*39:01

<400> 9817
Asp Arg Ala Thr Pro Gln Leu Pro Ala Gln Leu
1 5 10

<210> 9818
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,
HLA-A*68:01,HLA-B*57:01,HLA-B*58:01,HLA-C*04:01

<400> 9818
Asp Ser Phe Pro Gln Asn Gly Ser Ser Pro Trp
1 5 10

<210> 9819
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:01,HLA-B*27:02

<400> 9819
Asp Val Ala Ser Phe Leu Asp Lys
1 5

<210> 9820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*33:01

<400> 9820
Asp Val Ala Ser Phe Leu Asp Lys Ser
1 5

<210> 9821
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*26:01,HLA-A*68:02

<400> 9821
Asp Val Ala Ser Phe Leu Asp Lys Ser Glu Val
1 5 10

<210> 9822
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01

<400> 9822

Asp Val Asp Lys Ile Leu Phe Phe
1               5


<210> 9823
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-A*68:02,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,
      HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*07:06,

<220>
<223> HLA-C*12:03

<400> 9823
Glu Ala Ala Leu Pro Ile Val Ser Ala
1               5


<210> 9824
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*25:01

<400> 9824
Glu Ala Ala Leu Pro Ile Val Ser Ala Ala Ile
1               5                   10


<210> 9825
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*35:01,HLA-B*35:03

<400> 9825
Glu Ala Ser Phe Pro Val Asp Glu Glu Met
1               5                   10


<210> 9826
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*25:01,HLA-A*26:01,HLA-B*18:01,HLA-B*44:02

<400> 9826
Glu Asp Ala Phe Asp Val Ala Ser Phe
1 5

<210> 9827
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:02

<400> 9827
Glu Asp Ala Phe Asp Val Ala Ser Phe Leu
1 5 10

<210> 9828
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*18:01

<400> 9828
Glu Glu Ile Leu Phe Glu Asp Ala
1 5

<210> 9829
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*18:01,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03

<400> 9829
Glu Glu Ile Leu Phe Glu Asp Ala Phe
1 5

<210> 9830

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*18:01,HLA-B*49:01

<400> 9830
Glu Glu Met Ile Met Leu Gln Cys
1 5

<210> 9831
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*33:01,HLA-A*33:03

<400> 9831
Glu Glu Asn Ser Asn Pro His Asp Arg
1 5

<210> 9832
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 9832
Glu Glu Val Lys Lys Glu Tyr Ala Ser Met
1 5 10

<210> 9833
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*44:02,HLA-B*44:03

<400> 9833
Glu Glu Val Lys Lys Glu Tyr Ala Ser Met Tyr
1 5 10

<210> 9834
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*26:01

<400> 9834
Glu Asn Pro Glu Glu Lys Phe Gln Leu Tyr
1 5 10

<210> 9835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:01

<400> 9835
Glu Pro Ala Cys Ala Glu Gly Ser Val Lys
1 5 10

<210> 9836
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*38:01,HLA-B*39:01

<400> 9836
Glu Gln Thr Leu Asp Asn Leu Leu
1 5

<210> 9837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*08:01

<400> 9837
Glu Val Lys Lys Glu Tyr Ala Ser Met

1 5

<210> 9838
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*25:01,HLA-A*26:01,HLA-A*30:02

<400> 9838
Glu Val Lys Lys Glu Tyr Ala Ser Met Tyr
1 5 10

<210> 9839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*26:01

<400> 9839
Glu Val Pro Ser Thr Ser Ser Ser Ser
1 5

<210> 9840
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*26:01

<400> 9840
Glu Val Pro Ser Thr Ser Ser Ser Ser Ser
1 5 10

<210> 9841
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*25:01,HLA-A*26:01

<400> 9841
Glu Val Pro Ser Thr Ser Ser Ser Ser Ser Val
1               5                   10


<210> 9842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*27:02

<400> 9842
Phe Asp Val Ala Ser Phe Leu Asp Lys
1               5


<210> 9843
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*49:01

<400> 9843
Phe Glu Asp Ala Phe Asp Val Ala
1               5


<210> 9844
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*49:01

<400> 9844
Phe Glu Asp Ala Phe Asp Val Ala Ser Phe
1               5                   10


<210> 9845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;

HLA -B*57:01

<400> 9845
Phe Phe Asn Gln Glu Ile Arg Leu Trp
1 5

<210> 9846
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01

<400> 9846
Phe Leu Asp Lys Ser Glu Val Pro Ser Thr
1 5 10

<210> 9847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*08:01,HLA-B*46:01,HLA-C*16:01

<400> 9847
Phe Asn Asn Leu Arg Lys Thr Val Tyr
1 5

<210> 9848
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:04

<400> 9848
Phe Asn Gln Glu Ile Arg Leu Trp Gln Leu
1 5 10

<210> 9849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*25:01,HLA-B*35:01

<400> 9849
Phe Pro Gln Asn Gly Ser Ser Pro Trp
1 5

<210> 9850
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:02

<400> 9850
Phe Pro Gln Asn Gly Ser Ser Pro Trp Tyr
1 5 10

<210> 9851
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:03,HLA-B*51:01

<400> 9851
Phe Pro Val Asp Glu Glu Met Ile
1 5

<210> 9852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01,HLA-C*03:03

<400> 9852
Phe Pro Val Asp Glu Glu Met Ile Met
1 5

<210> 9853
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01,HLA-B*55:01

<400> 9853
Phe Pro Val Asp Glu Glu Met Ile Met Leu
1 5 10

<210> 9854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-A*24:02

<400> 9854
Phe Tyr Lys Gln Thr Met Asp Leu Leu
1 5

<210> 9855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*38:01,HLA-B*39:01

<400> 9855
Gly His Ala Ser Ser Leu Glu Glu Val
1 5

<210> 9856
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*27:02,HLA-B*27:05

<400> 9856
Gly His Ala Ser Ser Leu Glu Glu Val Lys
1 5 10

<210> 9857

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*27:05

<400> 9857
Gly His Ala Ser Ser Leu Glu Glu Val Lys Lys
1 5 10

<210> 9858
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*40:01

<400> 9858
Gly Ile Ile Thr Pro Gln Glu Ala Ala Leu
1 5 10

<210> 9859
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*15:03

<400> 9859
Gly Lys Ile Asp Val Asp Lys Ile Leu Phe
1 5 10

<210> 9860
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01,HLA-A*02:03,HLA-B*13:02,HLA-B*55:01

<400> 9860
Gly Leu Ser Cys Ala Asn Thr Gln Val
1 5

<210> 9861
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:01,HLA-A*03:02

<400> 9861
Gly Leu Ser Cys Ala Asn Thr Gln Val Lys
1 5 10

<210> 9862
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*55:01,HLA-B*56:01

<400> 9862
Gly Pro Ala Thr Leu Ala Glu Ala
1 5

<210> 9863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*56:01

<400> 9863
Gly Pro Ala Thr Leu Ala Glu Ala Cys
1 5

<210> 9864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*57:01

<400> 9864
Gly Ser Ser Pro Trp Tyr Leu Asn Phe

1 5

<210> 9865
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*29:02,HLA-A*30:02

<400> 9865
Gly Ser Ser Pro Trp Tyr Leu Asn Phe Tyr
1 5 10

<210> 9866
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*27:05,HLA-B*35:03

<400> 9866
Gly Val Asp Ser Gln Gly Ala Ser Cys Ser Leu
1 5 10

<210> 9867
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*51:01,HLA-B*54:01

<400> 9867
His Ala Ser Ser Leu Glu Glu Val
1 5

<210> 9868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:01,HLA-B*27:02,HLA-B*35:01,HLA-C*07:06

<400> 9868
His Ala Ser Ser Leu Glu Glu Val Lys
1               5


<210> 9869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 9869
His Ala Ser Ser Leu Glu Glu Val Lys Lys
1               5                   10


<210> 9870
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*37:01

<400> 9870
His Asp Arg Ala Thr Pro Gln Leu
1               5


<210> 9871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:07,HLA-A*68:02,HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,
      HLA-B*39:01,HLA-B*51:01,HLA-C*01:02

<400> 9871
His Ile Pro Glu Leu Glu Gln Thr Leu
1               5


<210> 9872
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*37:01

<400> 9872
Ile Asp Val Asp Lys Ile Leu Phe
1 5

<210> 9873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-A*24:02,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01

<400> 9873
Ile Asp Val Asp Lys Ile Leu Phe Phe
1 5

<210> 9874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:01,HLA-A*32:01,HLA-B*35:03,HLA-B*39:01,HLA-B*40:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*07:04

<400> 9874
Ile Ile Thr Pro Gln Glu Ala Ala Leu
1 5

<210> 9875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02

<400> 9875
Ile Leu Phe Glu Asp Ala Phe Asp Val
1 5

<210> 9876
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01

<400> 9876
Ile Leu Phe Glu Asp Ala Phe Asp Val Ala
1 5 10

<210> 9877
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*13:02

<400> 9877
Ile Leu Phe Phe Asn Gln Glu Ile
1 5

<210> 9878
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01,HLA-A*02:04

<400> 9878
Ile Leu Phe Phe Asn Gln Glu Ile Arg Leu
1 5 10

<210> 9879
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*57:01

<400> 9879
Ile Leu Phe Phe Asn Gln Glu Ile Arg Leu Trp
1 5 10

<210> 9880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-A*24:02,HLA-B*58:01

<400> 9880
Ile Met Leu Gln Cys Thr Glu Thr Phe
1 5

<210> 9881
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:03

<400> 9881
Ile Pro Glu Leu Glu Gln Thr Leu
1 5

<210> 9882
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:07

<400> 9882
Ile Thr Pro Gln Glu Ala Ala Leu Pro Ile Val
1 5 10

<210> 9883
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:03,HLA-A*02:04,HLA-A*03:01,HLA-A*23:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*32:01,HLA-A*68:01,HLA-A*68:02,HLA-B*27:05,
HLA-B*58:01,HLA-C*01:02,HLA-C*03:04,HLA-C*05:01,HLA-C*07:04

<400> 9883

Ile Val Ser Ala Ala Ile Ser His Leu
1               5


<210> 9884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*24:02,HLA-A*25:01,HLA-B*44:02,HLA-B*57:01,HLA-B*58:01

<400> 9884
Ile Val Ser Ala Ala Ile Ser His Leu Trp
1               5                   10


<210> 9885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*46:01,HLA-B*58:01,HLA-C*12:03

<400> 9885
Lys Ala Lys Ser His Ile Pro Glu Leu
1               5


<210> 9886
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*32:01,HLA-C*16:01

<400> 9886
Lys Ala Ser Leu Arg Gln Ala Trp
1               5


<210> 9887
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*40:02,HLA-B*49:01

<400> 9887
Lys Glu Tyr Ala Ser Met Tyr Ser Gly
1               5


<210> 9888
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:07

<400> 9888
Lys Ile Asp Val Asp Lys Ile Leu Phe
1               5


<210> 9889
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:07

<400> 9889
Lys Ile Asp Val Asp Lys Ile Leu Phe Phe
1               5                   10


<210> 9890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 9890
Lys Ile Leu Phe Phe Asn Gln Glu Ile
1               5


<210> 9891
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*58:01

<400> 9891
Lys Thr Val Tyr Ser Gln Ser Asp Leu
1 5

<210> 9892
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02

<400> 9892
Lys Thr Val Tyr Ser Gln Ser Asp Leu Ile
1 5 10

<210> 9893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*51:01,HLA-C*03:03,HLA-C*03:04

<400> 9893
Leu Ala Ala Leu Phe Asn Asn Leu
1 5

<210> 9894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:01

<400> 9894
Leu Ala Ala Leu Phe Asn Asn Leu Arg
1 5

<210> 9895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:01,HLA-B*07:02,HLA-B*18:01,HLA-B*35:03,HLA-B*37:01,
HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01

<400> 9895
Leu Glu Asp Gly His Ala Ser Ser Leu
1 5

<210> 9896
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 9896
Leu Glu Glu Val Lys Lys Glu Tyr
1 5

<210> 9897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*40:01

<400> 9897
Leu Glu Gln Thr Leu Asp Asn Leu Leu
1 5

<210> 9898
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*57:01

<400> 9898
Leu Phe Phe Asn Gln Glu Ile Arg Leu Trp
1 5 10

<210> 9899
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*29:02

<400> 9899
Leu Phe Asn Asn Leu Arg Lys Thr Val Tyr
1 5 10

<210> 9900
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*08:01

<400> 9900
Leu Leu Lys Leu Lys Ala Ser Phe
1 5

<210> 9901
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*08:01

<400> 9901
Leu Asn Phe Tyr Lys Gln Thr Met
1 5

<210> 9902
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*56:01

<400> 9902
Leu Pro Ala Gln Leu Gln Glu Leu

1 5

<210> 9903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:01

<400> 9903
Leu Pro Ala Gln Leu Gln Glu Leu Glu His
1 5 10

<210> 9904
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*08:01,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,
HLA-B*54:01,HLA-B*56:01

<400> 9904
Leu Pro Ile Val Ser Ala Ala Ile
1 5

<210> 9905
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:03

<400> 9905
Leu Pro Ile Val Ser Ala Ala Ile Ser His Leu
1 5 10

<210> 9906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*08:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04

<400> 9906
Leu Ser Glu Glu Arg Lys Ala Ser Leu
1               5


<210> 9907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*35:03

<400> 9907
Leu Val Ser Thr Pro Glu Glu Ile Leu
1               5


<210> 9908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*27:02,HLA-B*57:01

<400> 9908
Leu Val Ser Thr Pro Glu Glu Ile Leu Phe
1               5                   10


<210> 9909
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*23:01,HLA-A*24:02

<400> 9909
Leu Tyr Met Gln Ile Ile Asn Phe
1               5


<210> 9910
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 9910
Leu Tyr Met Gln Ile Ile Asn Phe Phe
1 5

<210> 9911
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -C*04:01

<400> 9911
Met Ala Thr Pro Glu Glu Asn Ser Asn Pro His
1 5 10

<210> 9912
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*39:01,HLA-C*04:01,HLA-C*14:02

<400> 9912
Met Tyr Ser Gly Asn Asp Ser Phe
1 5

<210> 9913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:03,HLA-C*01:02

<400> 9913
Asn Leu Glu Asp Gly His Ala Ser Ser Leu
1 5 10

<210> 9914
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*08:01

<400> 9914
Asn Leu Ser Glu Glu Arg Lys Ala Ser Leu
1 5 10

<210> 9915
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*08:01

<400> 9915
Asn Pro Glu Glu Lys Phe Gln Leu
1 5

<210> 9916
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*29:02,HLA-B*35:01,HLA-B*55:01,HLA-C*03:03

<400> 9916
Asn Pro Glu Glu Lys Phe Gln Leu Tyr
1 5

<210> 9917
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,HLA-C*03:03,
HLA-C*05:01

<400> 9917
Asn Pro Glu Asn Pro Glu Glu Lys Phe
1 5

<210> 9918

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 9918
Asn Pro His Asp Arg Ala Thr Pro Gln Leu
1 5 10

<210> 9919
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:04

<400> 9919
Asn Gln Glu Ile Arg Leu Trp Gln Leu
1 5

<210> 9920
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*18:01

<400> 9920
Pro Glu Glu Lys Phe Gln Leu Tyr
1 5

<210> 9921
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*44:02

<400> 9921
Pro Glu Asn Pro Glu Glu Lys Phe Gln Leu Tyr
1 5 10

<210> 9922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*38:01

<400> 9922
Pro His Asp Arg Ala Thr Pro Gln Leu
1 5

<210> 9923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:02

<400> 9923
Pro Gln Asn Gly Ser Ser Pro Trp Tyr
1 5

<210> 9924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:07

<400> 9924
Pro Val Asp Glu Glu Met Ile Met Leu
1 5

<210> 9925
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*08:01

<400> 9925
Gln Ala Arg His Arg Ala Thr Leu

1 5

<210> 9926
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*49:01

<400> 9926
Gln Glu Ala Ala Leu Pro Ile Val
1 5

<210> 9927
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:01,HLA-B*40:02,HLA-B*49:01,HLA-B*56:01

<400> 9927
Gln Glu Ala Ala Leu Pro Ile Val Ser Ala
1 5 10

<210> 9928
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*40:01

<400> 9928
Gln Glu Ala Ser Phe Pro Val Asp Glu Glu Met
1 5 10

<210> 9929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 9929
Gln Glu Ile Arg Leu Trp Gln Leu Ile
1               5


<210> 9930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*44:02

<400> 9930
Gln Glu Leu Glu His Arg Val Ala Arg
1               5


<210> 9931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:07,HLA-A*68:02

<400> 9931
Gln Ile Ile Asn Phe Phe Lys Gly Leu
1               5


<210> 9932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*15:03

<400> 9932
Gln Lys His Arg Gly Pro Ala Thr Leu
1               5


<210> 9933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;

HLA -A*02:07,HLA-C*01:02

<400> 9933
Gln Leu Pro Ala Gln Leu Gln Glu Leu
1 5

<210> 9934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*13:02,
HLA-B*55:01,HLA-C*16:02

<400> 9934
Gln Leu Gln Glu Leu Glu His Arg Val
1 5

<210> 9935
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*31:01

<400> 9935
Gln Leu Gln Glu Leu Glu His Arg Val Ala Arg
1 5 10

<210> 9936
<211> 9
<212> PRT
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<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:04,HLA-B*44:02,HLA-B*44:03

<400> 9936
Gln Leu Tyr Met Gln Ile Ile Asn Phe
1 5

<210> 9937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*25:01,HLA-A*32:01,HLA-B*07:02,HLA-B*38:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*05:01,
HLA-C*16:04

<400> 9937
Gln Ser Asp Leu Ile Ala Ser Lys Trp
1 5

<210> 9938
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*11:01

<400> 9938
Gln Thr Leu Asp Asn Leu Leu Lys
1 5

<210> 9939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*29:02,
HLA-A*31:01,HLA-A*33:03,HLA-A*68:02,HLA-B*40:02,HLA-C*06:02

<400> 9939
Gln Thr Leu Asp Asn Leu Leu Lys Leu
1 5

<210> 9940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9940
Gln Thr Leu Asp Asn Leu Leu Lys Leu Lys
1 5 10

<210> 9941
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*37:01,HLA-B*58:01

<400> 9941
Arg Ala Thr Leu Ala Ala Leu Phe
1 5

<210> 9942
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*58:01

<400> 9942
Arg Ala Thr Pro Gln Leu Pro Ala Gln Leu
1 5 10

<210> 9943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*46:01

<400> 9943
Arg Gly Pro Ala Thr Leu Ala Glu Ala
1 5

<210> 9944
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*57:01,HLA-B*58:01

<400> 9944

Ser Ala Ala Ile Ser His Leu Trp
1               5


<210> 9945
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 9945
Ser Asp Leu Ile Ala Ser Lys Trp
1               5


<210> 9946
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*37:01

<400> 9946
Ser Glu Glu Arg Lys Ala Ser Leu
1               5


<210> 9947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*49:01

<400> 9947
Ser Glu Val Pro Ser Thr Ser Ser Ser
1               5


<210> 9948
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*27:05,HLA-B*38:01,HLA-B*39:01

<400> 9948
Ser His Ile Pro Glu Leu Glu Gln Thr Leu
1               5                   10


<210> 9949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
      HLA-B*15:03,HLA-B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,
      HLA-B*58:01,HLA-C*07:04,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 9949
Ser Leu Glu Glu Val Lys Lys Glu Tyr
1               5


<210> 9950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*03:01

<400> 9950
Ser Leu Arg Gln Ala Trp Ala Gln Lys
1               5


<210> 9951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*02:01,HLA-A*02:03,HLA-B*13:02

<400> 9951
Ser Leu Val Ser Thr Pro Glu Glu Ile
1               5


<210> 9952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,
HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*07:02,HLA-B*13:02,
HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*35:01,HLA-B*37:01,

<220>
<223> HLA-B*38:01,HLA-B*39:01,HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,
HLA-C*01:02,HLA-C*02:02,HLA-C*05:01,HLA-C*07:04,HLA-C*14:02,
HLA-C*16:01,HLA-C*16:04

<400> 9952
Ser Met Tyr Ser Gly Asn Asp Ser Phe
1 5

<210> 9953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*15:03

<400> 9953
Ser Gln Ala Arg His Arg Ala Thr Leu
1 5

<210> 9954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*13:02

<400> 9954
Ser Gln Gly Ala Ser Cys Ser Leu Val
1 5

<210> 9955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:05,HLA-C*07:06

<400> 9955
Ser Gln Ser Asp Leu Ile Ala Ser Lys
1               5


<210> 9956
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*11:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,
      HLA-A*30:01,HLA-A*30:02,HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,
      HLA-B*15:01,HLA-B*27:02,HLA-B*27:05,HLA-B*38:01,HLA-B*44:02,

<220>
<223> HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:04,
      HLA-C*07:06,HLA-C*12:03,HLA-C*16:04

<400> 9956
Ser Gln Ser Asp Leu Ile Ala Ser Lys Trp
1               5                   10


<210> 9957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*29:02,HLA-A*30:02,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,
      HLA-B*58:01

<400> 9957
Ser Ser Leu Glu Glu Val Lys Lys Glu Tyr
1               5                   10


<210> 9958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*56:01

<400> 9958
Ser Ser Ser Ser Val Leu Ala Ser Cys
1               5

<210> 9959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -C*06:02

<400> 9959
Ser Ser Ser Ser Val Leu Ala Ser Cys Asn
1 5 10

<210> 9960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:03,HLA-B*39:01,HLA-C*03:03

<400> 9960
Ser Thr Ser Ser Ser Ser Ser Val Leu
1 5

<210> 9961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02

<400> 9961
Thr Glu Thr Phe Asp Asp Glu Asp Leu
1 5

<210> 9962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*27:05,HLA-C*04:01,HLA-C*06:02,HLA-C*12:03

<400> 9962
Thr Gly Ser Gly Ile Ile Thr Pro Gln
1 5

<210> 9963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*03:02,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*30:01,
HLA-A*31:01,HLA-A*32:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,

<220>
<223> HLA-B*13:02,HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*40:02,HLA-B*55:01,HLA-C*01:02,HLA-C*02:02,HLA-C*06:02,
HLA-C*07:04

<400> 9963
Thr Leu Ala Ala Leu Phe Asn Asn Leu
1 5

<210> 9964
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:04,HLA-A*02:07

<400> 9964
Thr Leu Asp Asn Leu Leu Lys Leu
1 5

<210> 9965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*03:01,HLA-A*03:02

<400> 9965
Thr Leu Asp Asn Leu Leu Lys Leu Lys
1 5

<210> 9966
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:07

<400> 9966
Thr Leu Asp Asn Leu Leu Lys Leu Lys Ala
1 5 10

<210> 9967
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -C*04:01

<400> 9967
Thr Met Asp Leu Leu Thr Gly Ser Gly Ile
1 5 10

<210> 9968
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:01,HLA-B*55:01

<400> 9968
Thr Pro Glu Glu Ile Leu Phe Glu Asp Ala Phe
1 5 10

<210> 9969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:01,HLA-B*55:01

<400> 9969
Thr Pro Glu Glu Asn Ser Asn Pro His
1 5

<210> 9970

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:01

<400> 9970
Thr Pro Glu Glu Asn Ser Asn Pro His Asp Arg
1 5 10

<210> 9971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*35:03,HLA-B*51:01

<400> 9971
Thr Pro Gln Glu Ala Ala Leu Pro Ile
1 5

<210> 9972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*54:01,HLA-B*56:01

<400> 9972
Thr Pro Gln Glu Ala Ala Leu Pro Ile Val
1 5 10

<210> 9973
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*08:01,HLA-C*07:02

<400> 9973
Thr Pro Gln Leu Pro Ala Gln Leu
1 5

<210> 9974
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-C*07:02

<400> 9974
Thr Pro Gln Leu Pro Ala Gln Leu Gln Glu Leu
1 5 10

<210> 9975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,
HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*38:01,HLA-B*39:01,
HLA-B*44:03,HLA-B*46:01,HLA-B*58:01,HLA-C*07:04,HLA-C*16:04

<400> 9975
Thr Gln Val Lys Gln Glu Ala Ser Phe
1 5

<210> 9976
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -C*05:01

<400> 9976
Thr Ser Ser Ser Ser Ser Val Leu
1 5

<210> 9977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*68:02,HLA-B*13:02,HLA-B*27:05,HLA-B*38:01,HLA-B*49:01,
HLA-B*51:01

<400> 9977
Thr Val Tyr Ser Gln Ser Asp Leu Ile
1               5


<210> 9978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*54:01,HLA-B*56:01

<400> 9978
Thr Val Tyr Ser Gln Ser Asp Leu Ile Ala
1               5                   10


<210> 9979
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -A*03:01,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01

<400> 9979
Thr Val Tyr Ser Gln Ser Asp Leu Ile Ala Ser
1               5                   10


<210> 9980
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
      HLA -B*37:01

<400> 9980
Val Asp Ser Gln Gly Ala Ser Cys Ser Leu
1               5                   10


<210> 9981
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*15:03

<400> 9981
Val Lys Lys Glu Tyr Ala Ser Met Tyr
1 5

<210> 9982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*56:01

<400> 9982
Val Pro Ser Thr Ser Ser Ser Ser Ser Val
1 5 10

<210> 9983
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*03:03,
HLA-C*07:02

<400> 9983
Val Pro Ser Thr Ser Ser Ser Ser Ser Val Leu
1 5 10

<210> 9984
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*32:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01

<400> 9984
Val Ser Ala Ala Ile Ser His Leu Trp
1 5

<210> 9985
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*23:01,HLA-B*57:01,HLA-B*58:01

<400> 9985
Val Ser Thr Pro Glu Glu Ile Leu Phe
1 5

<210> 9986
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*24:02

<400> 9986
Val Tyr Ser Gln Ser Asp Leu Ile
1 5

<210> 9987
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*33:01

<400> 9987
Val Tyr Ser Gln Ser Asp Leu Ile Ala Ser Lys
1 5 10

<210> 9988
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -B*38:01

<400> 9988
Tyr Ala Ser Met Tyr Ser Gly Asn Asp Ser Phe
1 5 10

<210> 9989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*02:04,HLA-B*08:01

<400> 9989
Tyr Leu Asn Phe Tyr Lys Gln Thr Met
1 5

<210> 9990
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 9990
Tyr Ser Gln Ser Asp Leu Ile Ala Ser Lys
1 5 10

<210> 9991
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; STRA8; ENSG00000146857;
HLA -A*01:01,HLA-A*25:01,HLA-A*32:01,HLA-A*33:01,HLA-B*44:02,
HLA-B*57:01,HLA-B*58:01,HLA-C*12:03

<400> 9991
Tyr Ser Gln Ser Asp Leu Ile Ala Ser Lys Trp
1 5 10

<210> 9992
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02,HLA-C*12:03

<400> 9992
Ala Ala Ser Asn Ile Pro Val Val

1 5

<210> 9993
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 9993
Ala Glu Asp Leu Lys Met Ala Arg Asn Leu
1 5 10

<210> 9994
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01

<400> 9994
Ala Phe Lys Asn Leu Val Leu Arg
1 5

<210> 9995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*58:01

<400> 9995
Ala Gly Ser Arg Ser Asn Gly Thr Trp
1 5

<210> 9996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*15:03

<400> 9996
Ala Lys Tyr Val Ser Leu Thr Glu Ala
1               5


<210> 9997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,
      HLA-A*29:02,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*39:01,
      HLA-B*46:01,HLA-B*55:01,HLA-C*01:02,HLA-C*05:01,HLA-C*07:04,

<220>
<223> HLA-C*16:02

<400> 9997
Ala Leu Glu Pro Tyr Val Thr Glu Met
1               5


<210> 9998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 9998
Ala Met Asn Ile Ile Ser Arg Glu Lys
1               5


<210> 9999
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*13:02

<400> 9999
Ala Gln Gly Thr Phe Gly Gly Val
1               5


<210> 10000
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*26:01,HLA-A*30:02,HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*38:01,
HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-C*02:02,

<220>
<223> HLA-C*04:01,HLA-C*07:04,HLA-C*16:04

<400> 10000
Ala Gln Gly Thr Phe Gly Gly Val Phe
1 5

<210> 10001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10001
Ala Gln Asn Cys Gln Asn Leu Arg Val
1 5

<210> 10002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*27:05,HLA-C*16:04

<400> 10002
Ala Arg Asn Leu Val Pro Lys Ala Leu
1 5

<210> 10003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-B*38:01,HLA-B*58:01,HLA-C*05:01

<400> 10003
Ala Ser Asp Leu Thr Asn Ile Ala Ile
1               5


<210> 10004
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01

<400> 10004
Ala Ser Asp Leu Thr Asn Ile Ala Ile Gly Met
1               5                   10


<210> 10005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*31:01

<400> 10005
Ala Ser Asn Ile Pro Val Val Gly Ser
1               5


<210> 10006
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*03:02,HLA-A*11:01

<400> 10006
Ala Ser Pro Asn Glu Ser Ala Tyr Asp Val Lys
1               5                   10


<210> 10007
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;

HLA -A*30:02,HLA-A*32:01,HLA-B*39:01,HLA-B*58:01,HLA-C*16:01,
HLA-C*16:02

<400> 10007
Ala Ser Gln Asn Gln His Ser Tyr
1 5

<210> 10008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,
HLA-B*46:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*07:04,

<220>
<223> HLA-C*14:02,HLA-C*16:01,HLA-C*16:02

<400> 10008
Ala Thr Ser Ser Gly Gly Ser Gln Tyr
1 5

<210> 10009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01,HLA-A*33:03

<400> 10009
Ala Tyr Asp Val Lys Asn Ile Lys Arg
1 5

<210> 10010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10010
Cys Gln Glu Val Val Gly Glu Leu Val
1 5

<210> 10011
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*27:02

<400> 10011
Cys Gln Glu Val Val Gly Glu Leu Val Ala Lys
1 5 10

<210> 10012
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*30:02,HLA-B*15:01

<400> 10012
Cys Ser Ile Ser Asp Asp Lys Ser Glu Tyr
1 5 10

<210> 10013
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*51:01,HLA-B*54:01

<400> 10013
Asp Ala Leu Asn Val Leu Met Ala
1 5

<210> 10014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,
HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,HLA-B*46:01,HLA-B*51:01,
HLA-B*54:01

<400> 10014
Asp Ala Leu Asn Val Leu Met Ala Met
1               5


<210> 10015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*33:01

<400> 10015
Asp Asp Lys Ser Glu Tyr Leu Phe Lys
1               5


<210> 10016
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*18:01

<400> 10016
Asp Asp Thr Glu Val Leu Met Trp
1               5


<210> 10017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*18:01

<400> 10017
Asp Glu Asn Gln Thr Ser Arg Pro Val
1               5


<210> 10018
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;

HLA -B*18:01

<400> 10018
Asp Glu Asn Gln Thr Ser Arg Pro Val Ala
1 5 10

<210> 10019
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-A*33:01,HLA-B*18:01

<400> 10019
Asp Glu Asn Gln Thr Ser Arg Pro Val Ala Val
1 5 10

<210> 10020
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01

<400> 10020
Asp Leu Lys Met Ala Arg Asn Leu
1 5

<210> 10021
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:01

<400> 10021
Asp Leu Lys Met Ala Arg Asn Leu Val Pro Lys
1 5 10

<210> 10022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,
HLA-B*39:01,HLA-C*07:04

<400> 10022
Asp Leu Thr Asn Ile Ala Ile Gly Met
1 5

<210> 10023
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01,HLA-B*18:01

<400> 10023
Asp Gln Gln Val Val Ile Gly Met
1 5

<210> 10024
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:01

<400> 10024
Asp Val Lys Asn Ile Lys Arg Arg
1 5

<210> 10025
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*51:01

<400> 10025
Glu Ala Asn Glu Glu Leu Lys Val
1 5

<210> 10026
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01,HLA-A*33:01,HLA-A*33:03,HLA-B*35:03

<400> 10026
Glu Ala Asn Glu Glu Leu Lys Val Leu
1 5

<210> 10027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*26:01,HLA-A*33:03,HLA-B*35:01,HLA-C*07:06

<400> 10027
Glu Ala Asn Glu Glu Leu Lys Val Leu Met
1 5 10

<210> 10028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 10028
Glu Glu Gln Val Ser Gln Arg Pro Leu
1 5

<210> 10029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01,HLA-B*35:03

<400> 10029
Glu Ile His Asp Asp Thr Glu Val Leu
1 5

<210> 10030
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01

<400> 10030
Glu Ile His Asp Asp Thr Glu Val Leu Met Trp
1 5 10

<210> 10031
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:02

<400> 10031
Glu Leu Gln Gln Leu Ile Leu Gln Gln Ile
1 5 10

<210> 10032
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01

<400> 10032
Glu Leu Val Ala Lys Phe Arg Ala Ala
1 5

<210> 10033
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*26:01

<400> 10033
Glu Met Ala Gln Gly Thr Phe Gly Gly Val
1 5 10

<210> 10034
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01

<400> 10034
Glu Met Ala Gln Gly Thr Phe Gly Gly Val Phe
1 5 10

<210> 10035
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 10035
Glu Pro Tyr Val Thr Glu Met Ala
1 5

<210> 10036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:03,HLA-A*68:01,HLA-A*68:02

<400> 10036
Glu Ser Ala Tyr Asp Val Lys Asn Ile
1 5

<210> 10037
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:03,HLA-A*68:01

<400> 10037

Glu Ser Ala Tyr Asp Val Lys Asn Ile Lys
1               5                   10


<210> 10038
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*33:03,HLA-A*68:01

<400> 10038
Glu Ser Ala Tyr Asp Val Lys Asn Ile Lys Arg
1               5                   10


<210> 10039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*03:02,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*33:01,
      HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-C*07:06

<400> 10039
Glu Val Val Gly Glu Leu Val Ala Lys
1               5


<210> 10040
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:01,
      HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*35:01,HLA-B*44:02,
      HLA-B*44:03,HLA-B*57:01,HLA-C*07:06

<400> 10040
Glu Val Val Gly Glu Leu Val Ala Lys Phe
1               5                   10


<210> 10041
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 10041
Glu Val Val Gly Glu Leu Val Ala Lys Phe Arg
1 5 10

<210> 10042
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*24:02

<400> 10042
Glu Tyr Leu Phe Lys Phe Asn Ser Ser Phe
1 5 10

<210> 10043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:02,
HLA-B*27:05,HLA-B*35:01,HLA-B*39:01,HLA-B*44:03,HLA-B*46:01,

<220>
<223> HLA-B*54:01,HLA-B*55:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,
HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,HLA-C*07:04,HLA-C*07:06,
HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 10043
Phe Ala Ser Gln Asn Gln His Ser Tyr
1 5

<210> 10044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10044

Phe Glu Ile His Asp Asp Thr Glu Val
1               5


<210> 10045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10045
Phe Glu Ile His Asp Asp Thr Glu Val Leu
1               5                   10


<210> 10046
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*40:01

<400> 10046
Phe Glu Ile His Asp Asp Thr Glu Val Leu Met
1               5                   10


<210> 10047
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*39:01,HLA-B*46:01,HLA-B*54:01

<400> 10047
Phe Gly Gly Val Phe Thr Thr Ala
1               5


<210> 10048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*46:01

<400> 10048
Phe Gly Gly Val Phe Thr Thr Ala Gly
1               5


<210> 10049
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*40:01,HLA-B*40:02

<400> 10049
Gly Glu Lys Asn Gly Met Gly Leu
1               5


<210> 10050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*49:01

<400> 10050
Gly Glu Lys Asn Gly Met Gly Leu Cys
1               5


<210> 10051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*15:03

<400> 10051
Gly Lys Gln Leu Leu Pro Lys Thr Phe
1               5


<210> 10052
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*13:02,HLA-B*27:05,HLA-B*38:01,HLA-C*06:02

<400> 10052
Gly Gln Ser Ser Val Asn Ile Asp Gln Gln Val
1 5 10

<210> 10053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*03:02,HLA-A*11:01,
HLA-A*29:02,HLA-A*31:01,HLA-A*32:01,HLA-B*13:02,HLA-B*27:05,
HLA-C*16:02

<400> 10053
Gly Thr Phe Gly Gly Val Phe Thr Thr
1 5

<210> 10054
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:01,HLA-A*31:01,
HLA-A*32:01,HLA-A*68:02,HLA-B*13:02,HLA-B*15:01,HLA-B*27:05,

<220>
<223> HLA-B*40:02,HLA-B*46:01,HLA-B*49:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03,
HLA-C*16:04

<400> 10054
Gly Thr Phe Gly Gly Val Phe Thr Thr Ala
1 5 10

<210> 10055
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01

<400> 10055
Gly Thr Phe Gly Gly Val Phe Thr Thr Ala Gly
1               5                   10


<210> 10056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,
      HLA-A*68:01,HLA-B*27:05,HLA-C*07:06

<400> 10056
Gly Val Phe Thr Thr Ala Gly Ser Arg
1               5


<210> 10057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-A*68:01,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,
      HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*46:01,

<220>
<223> HLA-B*55:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,
      HLA-C*03:04,HLA-C*07:04,HLA-C*07:06,HLA-C*16:01,HLA-C*16:02,
      HLA-C*16:04

<400> 10057
His Ala Ser Pro Asn Glu Ser Ala Tyr
1               5


<210> 10058
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*29:02,HLA-A*30:02

<400> 10058
His Phe Ala Ser Gln Asn Gln His Ser Tyr
1               5                   10

<210> 10059
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*27:02,HLA-B*27:05,HLA-C*07:06

<400> 10059
His Thr Ser Thr Val Asn Pro Leu Gly Lys
1 5 10

<210> 10060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:02

<400> 10060
His Val Pro Phe Ile Ile Ile Ser Ser
1 5

<210> 10061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01,HLA-B*51:01,HLA-C*03:03,HLA-C*03:04

<400> 10061
Ile Ala Phe Lys Asn Leu Val Leu
1 5

<210> 10062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-B*57:01

<400> 10062

Ile Ala Phe Lys Asn Leu Val Leu Arg
1               5


<210> 10063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*27:05

<400> 10063
Ile Ala Ile Gly Met Leu Ala Thr Ser
1               5


<210> 10064
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*37:01

<400> 10064
Ile Asp Gln Gln Val Val Ile Gly Met
1               5


<210> 10065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*54:01,HLA-B*56:01,HLA-C*16:01

<400> 10065
Ile Gly Met Pro Gln Arg Pro Ala Ala
1               5


<210> 10066
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*38:01,HLA-B*39:01,HLA-C*05:01

<400> 10066
Ile His Asp Asp Thr Glu Val Leu
1               5


<210> 10067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-C*04:01,HLA-C*05:01

<400> 10067
Ile His Asp Asp Thr Glu Val Leu Met
1               5


<210> 10068
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*38:01

<400> 10068
Ile His Asp Asp Thr Glu Val Leu Met Trp
1               5                   10


<210> 10069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*03:02

<400> 10069
Ile Leu Gln Gln Ile Ala Phe Lys
1               5


<210> 10070
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:04

<400> 10070
Ile Leu Gln Gln Ile Ala Phe Lys Asn Leu Val
1 5 10

<210> 10071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*56:01

<400> 10071
Ile Pro Val Val Gly Ser Pro Asn Pro Pro
1 5 10

<210> 10072
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-C*05:01,HLA-C*16:02

<400> 10072
Ile Ser Asp Asp Lys Ser Glu Tyr
1 5

<210> 10073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:07,HLA-A*32:01,HLA-B*38:01,
HLA-B*39:01,HLA-C*03:04,HLA-C*04:01,HLA-C*05:01

<400> 10073
Ile Ser Asp Asp Lys Ser Glu Tyr Leu
1 5

<210> 10074
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*02:07,HLA-B*57:01,HLA-C*04:01,HLA-C*05:01

<400> 10074
Ile Ser Asp Asp Lys Ser Glu Tyr Leu Phe
1 5 10

<210> 10075
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01

<400> 10075
Ile Ser Asp Asp Lys Ser Glu Tyr Leu Phe Lys
1 5 10

<210> 10076
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-A*32:01,HLA-B*27:02,HLA-B*40:01,HLA-B*40:02,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:04,HLA-C*12:03,HLA-C*16:02,HLA-C*16:04

<400> 10076
Lys Ala Leu Glu Pro Tyr Val Thr Glu Met
1 5 10

<210> 10077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-A*03:02

<400> 10077
Lys Met Ala Arg Asn Leu Val Pro Lys
1 5

<210> 10078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:02

<400> 10078
Lys Asn Leu Val Leu Arg Asn Gln Tyr
1 5

<210> 10079
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*40:02

<400> 10079
Lys Gln Lys Gln Ser Glu Leu Gln Gln Leu
1 5 10

<210> 10080
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10080
Lys Gln Lys Gln Ser Glu Leu Gln Gln Leu Ile
1 5 10

<210> 10081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*13:02,HLA-B*38:01,HLA-C*06:02

<400> 10081
Lys Gln Ser Glu Leu Gln Gln Leu Ile

1 5

<210> 10082
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10082
Lys Gln Ser Glu Leu Gln Gln Leu Ile Leu
1 5 10

<210> 10083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*58:01

<400> 10083
Lys Thr Phe Gly Gln Ser Ser Val Asn Ile
1 5 10

<210> 10084
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01

<400> 10084
Lys Val Leu Met Asp Glu Asn Gln Thr Ser Arg
1 5 10

<210> 10085
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01

<400> 10085
Lys Val Trp Glu Thr Val Gln Arg
1               5


<210> 10086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01

<400> 10086
Lys Val Trp Glu Thr Val Gln Arg Lys
1               5


<210> 10087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*39:01

<400> 10087
Leu Ala Thr Ser Ser Gly Gly Ser Gln
1               5


<210> 10088
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01,HLA-A*26:01,HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,
      HLA-B*39:01,HLA-B*46:01,HLA-C*02:02,HLA-C*07:04,HLA-C*16:02

<400> 10088
Leu Ala Thr Ser Ser Gly Gly Ser Gln Tyr
1               5                   10


<210> 10089
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01,HLA-B*51:01

<400> 10089
Leu Glu Pro Tyr Val Thr Glu Met
1 5

<210> 10090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01

<400> 10090
Leu Ile Leu Gln Gln Ile Ala Phe Lys
1 5

<210> 10091
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:07

<400> 10091
Leu Leu Pro Lys Thr Phe Gly Gln Ser Ser Val
1 5 10

<210> 10092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:03

<400> 10092
Leu Met Ala Met Asn Ile Ile Ser Arg
1 5

<210> 10093
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01

<400> 10093
Leu Met Asp Glu Asn Gln Thr Ser Arg
1 5

<210> 10094
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:01

<400> 10094
Leu Met Asp Glu Asn Gln Thr Ser Arg Pro Val
1 5 10

<210> 10095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02,HLA-B*08:01,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01,HLA-C*07:02

<400> 10095
Leu Pro Lys Thr Phe Gly Gln Ser Ser Val
1 5 10

<210> 10096
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*51:01,HLA-B*56:01

<400> 10096
Leu Pro Asn Ser Val Ile His Val
1 5

<210> 10097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*54:01,HLA-B*56:01

<400> 10097
Leu Pro Asn Ser Val Ile His Val Pro
1 5

<210> 10098
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*35:01

<400> 10098
Leu Pro Asn Ser Val Ile His Val Pro Phe
1 5 10

<210> 10099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:03,HLA-A*02:04,HLA-A*30:01,HLA-B*13:02,HLA-B*38:01,
HLA-C*06:02,HLA-C*07:04

<400> 10099
Leu Gln Gln Leu Ile Leu Gln Gln Ile
1 5

<210> 10100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:02

<400> 10100
Leu Ser Met Lys Val Trp Glu Thr Val

1 5

<210> 10101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01

<400> 10101
Leu Thr Glu Ala Asn Glu Glu Leu Lys
1 5

<210> 10102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01

<400> 10102
Leu Thr Glu Ala Asn Glu Glu Leu Lys Val
1 5 10

<210> 10103
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01

<400> 10103
Leu Thr Asn Ile Ala Ile Gly Met Leu Ala
1 5 10

<210> 10104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*29:02,HLA-B*46:01

<400> 10104
Leu Val Pro Lys Ala Leu Glu Pro Tyr
1               5


<210> 10105
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*02:07

<400> 10105
Leu Val Pro Lys Ala Leu Glu Pro Tyr Val
1               5                   10


<210> 10106
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*54:01

<400> 10106
Met Ala Lys Tyr Val Ser Leu Thr Glu Ala
1               5                   10


<210> 10107
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-B*27:05,HLA-B*54:01,HLA-C*07:06

<400> 10107
Met Ala Met Asn Ile Ile Ser Arg
1               5


<210> 10108
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-A*11:01,HLA-A*68:01,HLA-B*27:02

<400> 10108
Met Ala Met Asn Ile Ile Ser Arg Glu Lys
1 5 10

<210> 10109
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:02

<400> 10109
Met Ala Gln Gly Thr Phe Gly Gly Val Phe
1 5 10

<210> 10110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*54:01

<400> 10110
Met Ala Arg Asn Leu Val Pro Lys Ala
1 5

<210> 10111
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -C*04:01,HLA-C*06:02,HLA-C*07:01

<400> 10111
Met Asp Glu Asn Gln Thr Ser Arg Pro Val
1 5 10

<210> 10112
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,
HLA-C*07:04,HLA-C*14:02

<400> 10112
Met Leu Ala Thr Ser Ser Gly Gly Ser Gln Tyr
1 5 10

<210> 10113
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02,HLA-B*51:01

<400> 10113
Met Pro Gln Arg Pro Ala Ala Ser Asn Ile
1 5 10

<210> 10114
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -C*07:01

<400> 10114
Met Thr Phe Gly Leu Glu Ser Gly Ser Cys
1 5 10

<210> 10115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:01,HLA-A*33:03

<400> 10115
Asn Cys Gln Asn Leu Arg Val Glu Arg
1 5

<210> 10116
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*18:01,HLA-B*37:01

<400> 10116
Asn Glu Glu Leu Lys Val Leu Met
1 5

<210> 10117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 10117
Asn Glu Ser Ala Tyr Asp Val Lys Asn Ile
1 5 10

<210> 10118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*38:01,HLA-B*39:01

<400> 10118
Asn His Ala Ser Pro Asn Glu Ser Ala
1 5

<210> 10119
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:02,HLA-B*38:01,HLA-B*39:01

<400> 10119
Asn His Ala Ser Pro Asn Glu Ser Ala Tyr
1 5 10

<210> 10120
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*38:01,HLA-C*04:01,HLA-C*05:01

<400> 10120
Asn Ile Asp Gln Gln Val Val Ile
1 5

<210> 10121
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:07

<400> 10121
Asn Ile Asp Gln Gln Val Val Ile Gly Met
1 5 10

<210> 10122
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01

<400> 10122
Asn Pro Leu Gly Lys Gln Leu Leu
1 5

<210> 10123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:01,HLA-A*02:03,HLA-B*08:01,HLA-B*13:02,HLA-B*37:01,
HLA-B*39:01,HLA-B*55:01,HLA-C*16:01,HLA-C*16:02

<400> 10123
Asn Gln Thr Ser Arg Pro Val Ala Val
1               5


<210> 10124
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*13:02

<400> 10124
Asn Gln Tyr Val Glu Glu Gln Val
1               5


<210> 10125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*27:05

<400> 10125
Asn Gln Tyr Val Glu Glu Gln Val Ser
1               5


<210> 10126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*27:05

<400> 10126
Asn Gln Tyr Val Glu Glu Gln Val Ser Gln
1               5                   10


<210> 10127
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;

HLA -A*31:01,HLA-A*68:01,HLA-B*27:05,HLA-C*07:06

<400> 10127
Asn Gln Tyr Val Glu Glu Gln Val Ser Gln Arg
1 5 10

<210> 10128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:01

<400> 10128
Asn Ser Ala Gln Asn Cys Gln Asn Leu Arg
1 5 10

<210> 10129
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -C*12:03

<400> 10129
Pro Ala Ala Ser Asn Ile Pro Val Val
1 5

<210> 10130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:07

<400> 10130
Pro Leu Pro Asn Ser Val Ile His Val
1 5

<210> 10131
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:03

<400> 10131
Pro Val Ala Val His Thr Ser Thr Val
1 5

<210> 10132
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02

<400> 10132
Pro Val Val Gly Ser Pro Asn Pro Pro Ser
1 5 10

<210> 10133
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*24:02

<400> 10133
Pro Tyr Val Thr Glu Met Ala Gln Gly Thr Phe
1 5 10

<210> 10134
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*49:01

<400> 10134
Gln Glu Val Val Gly Glu Leu Val
1 5

<210> 10135
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10135
Gln Glu Val Val Gly Glu Leu Val Ala
1 5

<210> 10136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*27:02

<400> 10136
Gln Glu Val Val Gly Glu Leu Val Ala Lys
1 5 10

<210> 10137
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01,HLA-A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*40:01,
HLA-B*44:02,HLA-B*44:03

<400> 10137
Gln Glu Val Val Gly Glu Leu Val Ala Lys Phe
1 5 10

<210> 10138
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -C*07:04

<400> 10138
Gln Gly Thr Phe Gly Gly Val Phe
1 5

<210> 10139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*38:01

<400> 10139
Gln His Ser Tyr Ser Ser Pro Pro Trp
1 5

<210> 10140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01

<400> 10140
Gln Ile Ala Phe Lys Asn Leu Val Leu
1 5

<210> 10141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,
HLA-B*44:02,HLA-B*44:03,HLA-B*46:01

<400> 10141
Gln Leu Ile Leu Gln Gln Ile Ala Phe
1 5

<210> 10142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10142
Gln Gln Ile Ala Phe Lys Asn Leu Val

1 5

<210> 10143
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01

<400> 10143
Gln Gln Ile Ala Phe Lys Asn Leu Val Leu Arg
1 5 10

<210> 10144
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10144
Gln Gln Leu Ile Leu Gln Gln Ile
1 5

<210> 10145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10145
Gln Gln Leu Ile Leu Gln Gln Ile Ala
1 5

<210> 10146
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*15:01,HLA-B*15:03

<400> 10146
Gln Gln Leu Ile Leu Gln Gln Ile Ala Phe
1               5                   10


<210> 10147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01

<400> 10147
Gln Ser Glu Leu Gln Gln Leu Ile Leu
1               5


<210> 10148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*32:01

<400> 10148
Gln Thr Ser Arg Pro Val Ala Val His
1               5


<210> 10149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*31:01,HLA-A*68:01,HLA-C*07:06

<400> 10149
Gln Val Val Ile Gly Met Pro Gln Arg
1               5


<210> 10150
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;

HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 10150
Gln Tyr Val Glu Glu Gln Val Ser Gln Arg
1 5 10

<210> 10151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01

<400> 10151
Arg Ile Lys Gln Lys Gln Ser Glu Leu
1 5

<210> 10152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02,HLA-B*56:01

<400> 10152
Arg Pro Ala Ala Ser Asn Ile Pro Val
1 5

<210> 10153
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02,HLA-B*55:01,HLA-B*56:01

<400> 10153
Arg Pro Ala Ala Ser Asn Ile Pro Val Val
1 5 10

<210> 10154
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*56:01

<400> 10154
Arg Pro Leu Pro Asn Ser Val Ile His Val
1 5 10

<210> 10155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02,HLA-B*56:01

<400> 10155
Arg Pro Val Ala Val His Thr Ser Thr
1 5

<210> 10156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01,
HLA-C*07:02

<400> 10156
Arg Pro Val Ala Val His Thr Ser Thr Val
1 5 10

<210> 10157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-B*46:01,HLA-B*58:01

<400> 10157
Arg Thr Tyr Asp Ala Leu Asn Val Leu
1 5

<210> 10158

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-A*23:01,HLA-A*31:01,HLA-B*57:01,HLA-B*58:01

<400> 10158
Arg Thr Tyr Asp Ala Leu Asn Val Leu Met
1 5 10

<210> 10159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 10159
Ser Ala Glu Asp Leu Lys Met Ala Arg
1 5

<210> 10160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*33:03,HLA-C*07:06

<400> 10160
Ser Ala Gln Asn Cys Gln Asn Leu Arg
1 5

<210> 10161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -C*12:03

<400> 10161
Ser Ala Ser Asp Leu Thr Asn Ile Ala
1 5

<210> 10162
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*39:01,HLA-C*07:06

<400> 10162
Ser Ala Ser Asp Leu Thr Asn Ile Ala Ile
1 5 10

<210> 10163
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02,HLA-B*51:01,HLA-C*12:03,HLA-C*16:02

<400> 10163
Ser Ala Tyr Asp Val Lys Asn Ile
1 5

<210> 10164
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01,HLA-C*02:02,
HLA-C*07:06,HLA-C*16:01

<400> 10164
Ser Ala Tyr Asp Val Lys Asn Ile Lys
1 5

<210> 10165
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 10165
Ser Ala Tyr Asp Val Lys Asn Ile Lys Arg
1               5                   10


<210> 10166
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*33:01

<400> 10166
Ser Ala Tyr Asp Val Lys Asn Ile Lys Arg Arg
1               5                   10


<210> 10167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*38:01

<400> 10167
Ser Asp Asp Lys Ser Glu Tyr Leu Phe
1               5


<210> 10168
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*37:01

<400> 10168
Ser Asp Leu Thr Asn Ile Ala Ile
1               5


<210> 10169
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 10169
Ser Glu Leu Gln Gln Leu Ile Leu Gln Gln Ile
1 5 10

<210> 10170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*46:01

<400> 10170
Ser Ile Ser Asp Asp Lys Ser Glu Tyr
1 5

<210> 10171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:01,HLA-A*02:03,HLA-B*35:03,HLA-B*39:01,HLA-B*55:01,
HLA-C*01:02,HLA-C*14:02

<400> 10171
Ser Leu Thr Glu Ala Asn Glu Glu Leu
1 5

<210> 10172
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:02

<400> 10172
Ser Leu Thr Glu Ala Asn Glu Glu Leu Lys
1 5 10

<210> 10173
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:01

<400> 10173
Ser Leu Thr Glu Ala Asn Glu Glu Leu Lys Val
1 5 10

<210> 10174
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01,HLA-A*33:03

<400> 10174
Ser Met Lys Val Trp Glu Thr Val Gln Arg
1 5 10

<210> 10175
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:02

<400> 10175
Ser Asn His Ala Ser Pro Asn Glu Ser Ala Tyr
1 5 10

<210> 10176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-B*56:01

<400> 10176
Ser Pro Asn Glu Ser Ala Tyr Asp Val
1 5

<210> 10177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*27:02,HLA-B*35:01

<400> 10177
Ser Pro Asn Glu Ser Ala Tyr Asp Val Lys
1 5 10

<210> 10178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*30:02,HLA-A*32:01,
HLA-A*33:01,HLA-A*33:03,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*35:01,HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,

<220>
<223> HLA-B*44:03,HLA-B*46:01,HLA-B*51:01,HLA-B*55:01,HLA-B*56:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*03:03,HLA-C*07:02,HLA-C*07:06,
HLA-C*16:01

<400> 10178
Ser Pro Asn Pro Pro Ser Thr His Phe
1 5

<210> 10179
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*54:01,HLA-B*56:01

<400> 10179
Ser Pro Asn Pro Pro Ser Thr His Phe Ala
1 5 10

<210> 10180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:03,HLA-A*32:01,HLA-B*13:02,HLA-B*15:03,HLA-B*40:02

<400> 10180
Ser Gln Arg Pro Leu Pro Asn Ser Val
1 5

<210> 10181
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10181
Ser Gln Tyr Ser Gly Ser Arg Val
1 5

<210> 10182
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*32:01,HLA-B*15:01

<400> 10182
Ser Gln Tyr Ser Gly Ser Arg Val Glu Thr Pro
1 5 10

<210> 10183
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:02

<400> 10183
Ser Ser Phe Glu Ile His Asp Asp Thr Glu Val
1 5 10

<210> 10184
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*31:01

<400> 10184
Ser Ser Pro Pro Trp Ala Gly Gln His Asn Arg
1 5 10

<210> 10185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:02,HLA-B*13:02

<400> 10185
Ser Ser Val Asn Ile Asp Gln Gln Val
1 5

<210> 10186
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-A*11:01,HLA-A*68:01

<400> 10186
Ser Thr Val Asn Pro Leu Gly Lys
1 5

<210> 10187
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*68:02

<400> 10187
Ser Val Ile His Val Pro Phe Ile Ile Ile
1 5 10

<210> 10188

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*13:02

<400> 10188
Ser Val Asn Ile Asp Gln Gln Val Val
1 5

<210> 10189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01

<400> 10189
Thr Ala Gly Ser Arg Ser Asn Gly Thr Trp
1 5 10

<210> 10190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*13:02,HLA-B*40:01,HLA-B*44:03,HLA-B*49:01

<400> 10190
Thr Glu Ala Asn Glu Glu Leu Lys Val
1 5

<210> 10191
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*27:05,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01

<400> 10191
Thr Glu Ala Asn Glu Glu Leu Lys Val Leu
1 5 10

<210> 10192
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*40:01,HLA-B*44:02,HLA-B*44:03

<400> 10192
Thr Glu Ala Asn Glu Glu Leu Lys Val Leu Met
1 5 10

<210> 10193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:03

<400> 10193
Thr Glu Met Ala Gln Gly Thr Phe
1 5

<210> 10194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*49:01

<400> 10194
Thr Glu Met Ala Gln Gly Thr Phe Gly
1 5

<210> 10195
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*49:01

<400> 10195

Thr Glu Met Ala Gln Gly Thr Phe Gly Gly Val
1               5                   10


<210> 10196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*23:01,HLA-A*24:02,HLA-B*54:01,HLA-B*55:01,HLA-C*14:02

<400> 10196
Thr Phe Gly Gly Val Phe Thr Thr Ala
1               5


<210> 10197
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -C*04:01

<400> 10197
Thr Phe Gly Gly Val Phe Thr Thr Ala Gly
1               5                   10


<210> 10198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*23:01

<400> 10198
Thr Phe Gly Gln Ser Ser Val Asn Ile
1               5


<210> 10199
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*30:02,HLA-A*32:01,HLA-B*38:01

<400> 10199
Thr His Phe Ala Ser Gln Asn Gln His Ser Tyr
1               5                   10


<210> 10200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*54:01

<400> 10200
Thr Asn Ile Ala Ile Gly Met Leu Ala
1               5


<210> 10201
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -C*06:02

<400> 10201
Thr Ser Arg Pro Val Ala Val His Thr
1               5


<210> 10202
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01,HLA-A*30:02,HLA-B*39:01,HLA-C*05:01

<400> 10202
Thr Ser Ser Gly Gly Ser Gln Tyr
1               5


<210> 10203
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 10203
Thr Ser Thr Val Asn Pro Leu Gly Lys
1 5

<210> 10204
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01,HLA-A*32:01,HLA-B*58:01

<400> 10204
Thr Thr Ala Gly Ser Arg Ser Asn Gly Thr Trp
1 5 10

<210> 10205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01,HLA-A*31:01,HLA-A*32:01,HLA-B*07:02,HLA-B*27:05,
HLA-C*01:02

<400> 10205
Thr Val Asn Pro Leu Gly Lys Gln Leu
1 5

<210> 10206
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-A*31:01,HLA-A*32:01

<400> 10206
Thr Val Asn Pro Leu Gly Lys Gln Leu Leu
1 5 10

<210> 10207
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*24:02

<400> 10207
Thr Trp Leu Ser Ala Ser Asp Leu Thr Asn Ile
1 5 10

<210> 10208
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-B*35:01,HLA-B*35:03,HLA-C*04:01

<400> 10208
Thr Tyr Asp Ala Leu Asn Val Leu
1 5

<210> 10209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*32:01,
HLA-A*33:03,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,
HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,HLA-C*14:02

<400> 10209
Thr Tyr Asp Ala Leu Asn Val Leu Met
1 5

<210> 10210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*08:01

<400> 10210
Val Ala Lys Phe Arg Ala Ala Ser Asn
1 5

<210> 10211
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*46:01,HLA-B*51:01

<400> 10211
Val Ala Val His Thr Ser Thr Val
1 5

<210> 10212
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10212
Val Glu Glu Gln Val Ser Gln Arg Pro Leu
1 5 10

<210> 10213
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*18:01,HLA-B*37:01,HLA-B*39:01

<400> 10213
Val Gly Glu Leu Val Ala Lys Phe
1 5

<210> 10214
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02

<400> 10214
Val Gly Ser Pro Asn Pro Pro Ser Thr His Phe

1 5 10

<210> 10215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -B*38:01,HLA-B*39:01,HLA-C*07:04

<400> 10215
Val His Thr Ser Thr Val Asn Pro Leu
1 5

<210> 10216
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*57:01

<400> 10216
Val Leu Met Asp Glu Asn Gln Thr Ser Arg
1 5 10

<210> 10217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*23:01,HLA-B*13:02

<400> 10217
Val Asn Ile Asp Gln Gln Val Val Ile
1 5

<210> 10218
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -C*01:02

<400> 10218
Val Asn Pro Leu Gly Lys Gln Leu
1               5


<210> 10219
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*54:01,HLA-B*56:01

<400> 10219
Val Pro Phe Ile Ile Ile Ser Ser
1               5


<210> 10220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*54:01,HLA-B*56:01

<400> 10220
Val Pro Phe Ile Ile Ile Ser Ser Ser
1               5


<210> 10221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*51:01,HLA-B*54:01,HLA-B*55:01,HLA-B*56:01

<400> 10221
Val Pro Lys Ala Leu Glu Pro Tyr Val
1               5


<210> 10222
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 10222
Val Ser Leu Thr Glu Ala Asn Glu Glu Leu Lys
1 5 10

<210> 10223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-C*05:01

<400> 10223
Val Thr Glu Met Ala Gln Gly Thr Phe
1 5

<210> 10224
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 10224
Val Val Gly Glu Leu Val Ala Lys
1 5

<210> 10225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*01:01,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,
HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,

<220>
<223> HLA-A*68:01,HLA-A*68:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*27:02,HLA-B*27:05,HLA-B*35:01,HLA-B*37:01,HLA-B*38:01,
HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*02:02,HLA-C*07:04,HLA-C*12:03

<400> 10225

Val Val Gly Glu Leu Val Ala Lys Phe
1               5


<210> 10226
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*31:01

<400> 10226
Val Val Ile Gly Met Pro Gln Arg
1               5


<210> 10227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*32:01

<400> 10227
Val Val Ile Gly Met Pro Gln Arg Pro
1               5


<210> 10228
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*54:01

<400> 10228
Val Val Ile Gly Met Pro Gln Arg Pro Ala Ala
1               5                   10


<210> 10229
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*30:01,HLA-B*37:01,HLA-B*40:02

<400> 10229
Tyr Asp Ala Leu Asn Val Leu Met
1               5


<210> 10230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01

<400> 10230
Tyr Ser Ser Pro Pro Trp Ala Gly Gln His
1               5                   10


<210> 10231
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -A*01:01,HLA-A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*31:01,
      HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*05:01,HLA-C*07:06

<400> 10231
Tyr Val Glu Glu Gln Val Ser Gln Arg
1               5


<210> 10232
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
      HLA -B*27:05,HLA-C*03:03,HLA-C*03:04

<400> 10232
Tyr Val Glu Glu Gln Val Ser Gln Arg Pro Leu
1               5                   10


<210> 10233
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; TFDP3; ENSG00000183434;
HLA -A*25:01,HLA-A*26:01

<400> 10233
Tyr Val Thr Glu Met Ala Gln Gly Thr Phe
1 5 10

<210> 10234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -C*05:01

<400> 10234
Ala Ala Glu Thr Gln Val Pro Asp Leu
1 5

<210> 10235
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*27:02

<400> 10235
Ala Asp Leu Gln Glu Leu Ser Gln Ser Lys
1 5 10

<210> 10236
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 10236
Ala Glu Thr Gln Val Pro Asp Leu
1 5

<210> 10237
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*30:01,HLA-B*49:01

<400> 10237
Ala Glu Thr Gln Val Pro Asp Leu Glu Ala
1 5 10

<210> 10238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*33:01,HLA-B*27:02

<400> 10238
Asp Asp Gln Gly Lys Ile Leu Pro Lys
1 5

<210> 10239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*03:02,HLA-A*33:01,HLA-A*33:03

<400> 10239
Asp Leu Gln Glu Leu Ser Gln Ser Lys
1 5

<210> 10240
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*33:01,HLA-A*33:03

<400> 10240
Glu Ser Arg Asp Pro Ala Pro Gly Gln Glu Arg
1 5 10

<210> 10241
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*15:03

<400> 10241
Gly Lys Ile Leu Pro Lys Ser Glu Gln Phe
1 5 10

<210> 10242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 10242
Gly Pro Asp Asp Gln Gly Lys Ile Leu
1 5

<210> 10243
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 10243
Gly Pro Asp Asp Gln Gly Lys Ile Leu Pro Lys
1 5 10

<210> 10244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-A*31:01,HLA-A*32:01,
HLA-B*15:01,HLA-B*37:01,HLA-B*57:01,HLA-B*58:01

<400> 10244
Lys Ile Leu Pro Lys Ser Glu Gln Phe

1 5

<210> 10245
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*03:01

<400> 10245
Lys Ile Leu Pro Lys Ser Glu Gln Phe Lys
1 5 10

<210> 10246
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*49:01

<400> 10246
Leu Glu Ala Asp Leu Gln Glu Leu
1 5

<210> 10247
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,
HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,HLA-C*07:02,HLA-C*16:02

<400> 10247
Met Pro Glu Gly Gly Asp Arg Gln Pro Gln Val
1 5 10

<210> 10248
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*58:01

<400> 10248
Arg Ser Val Pro Pro Pro Glu Leu
1 5

<210> 10249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*57:01,HLA-B*58:01

<400> 10249
Arg Ser Val Pro Pro Pro Glu Leu Ile
1 5

<210> 10250
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*27:05

<400> 10250
Ser Arg Asp Pro Ala Pro Gly Gln Glu Arg
1 5 10

<210> 10251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*31:01

<400> 10251
Ser Thr Tyr Arg Pro Arg Pro Arg
1 5

<210> 10252
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -A*26:01

<400> 10252
Ser Val Pro Pro Pro Glu Leu Ile Gly Pro Met
1 5 10

<210> 10253
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*39:01

<400> 10253
Thr Gln Val Pro Asp Leu Glu Ala Asp Leu
1 5 10

<210> 10254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*35:03

<400> 10254
Val Pro Asp Leu Glu Ala Asp Leu
1 5

<210> 10255
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 10255
Val Pro Asp Leu Glu Ala Asp Leu Gln Glu Leu
1 5 10

<210> 10256
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE3; ENSG00000171402;
HLA -B*35:03

<400> 10256
Val Pro Pro Pro Glu Leu Ile Gly Pro Met Leu
1 5 10

<210> 10257
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -B*27:02

<400> 10257
Ala Asp Leu Gln Glu Leu Ser Gln Ser Lys
1 5 10

<210> 10258
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 10258
Ala Glu Ile Gln Val Pro Asn Leu
1 5

<210> 10259
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*30:01,HLA-B*44:03,HLA-B*49:01

<400> 10259
Ala Glu Ile Gln Val Pro Asn Leu Glu Ala
1 5 10

<210> 10260

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -B*13:02,HLA-B*15:01,HLA-B*15:03

<400> 10260
Ala Gln Leu Val Gly Pro Met Leu
1 5

<210> 10261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*33:01

<400> 10261
Asp Leu Gln Glu Leu Ser Gln Ser Lys
1 5

<210> 10262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 10262
Asp Val Gln Gly Lys Ile Leu Pro Lys
1 5

<210> 10263
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 10263
Glu Ser Gln Asp His Thr Pro Gly Gln Lys Arg
1 5 10

<210> 10264
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -B*15:03

<400> 10264
Gly Lys Ile Leu Pro Lys Ser Glu Gln Phe
1 5 10

<210> 10265
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*24:02

<400> 10265
Ile Leu Pro Lys Ser Glu Gln Phe
1 5

<210> 10266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*37:01,HLA-B*57:01,HLA-B*58:01

<400> 10266
Lys Ile Leu Pro Lys Ser Glu Gln Phe
1 5

<210> 10267
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*03:01

<400> 10267

Lys Ile Leu Pro Lys Ser Glu Gln Phe Lys
1               5                   10


<210> 10268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
      HLA -B*35:03,HLA-C*03:03,HLA-C*03:04

<400> 10268
Leu Ala Gln Leu Val Gly Pro Met Leu
1               5


<210> 10269
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*49:01

<400> 10269
Leu Glu Ala Asp Leu Gln Glu Leu
1               5


<210> 10270
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
      HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*55:01,
      HLA-C*03:03,HLA-C*07:02

<400> 10270
Met Pro Glu Gly Gly Glu Gly Lys Pro Gln Leu
1               5                   10


<210> 10271
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;

HLA -B*40:02

<400> 10271
Pro Glu Gly Gly Glu Gly Lys Pro Gln Leu
1 5 10

<210> 10272
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -B*40:01,HLA-B*49:01

<400> 10272
Arg Glu Asp Asp Gln Gly Ala Ala Glu Ile
1 5 10

<210> 10273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -A*02:01,HLA-A*02:04

<400> 10273
Arg Leu Ala Gln Leu Val Gly Pro Met Leu
1 5 10

<210> 10274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 10274
Ser Pro Asp Val Gln Gly Lys Ile Leu
1 5

<210> 10275
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; XAGE5; ENSG00000171405;
HLA -B*35:03

<400> 10275
Val Pro Asn Leu Glu Ala Asp Leu Gln Glu Leu
1 5 10

<210> 10276
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*08:01

<400> 10276
Ala Ala Leu Arg Lys His Leu Leu
1 5

<210> 10277
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*40:02

<400> 10277
Ala Glu Phe Ala Arg Lys Lys Pro Pro
1 5

<210> 10278
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*40:02

<400> 10278
Ala Glu Phe Ala Arg Lys Lys Pro Pro Ile
1 5 10

<210> 10279
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*49:01,HLA-B*56:01

<400> 10279
Ala Glu Ile Glu Pro Val Ser Ala
1 5

<210> 10280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:01,HLA-A*02:03,HLA-A*30:01,HLA-B*13:02,HLA-B*15:01,
HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*46:01,HLA-B*49:01,

<220>
<223> HLA-B*56:01,HLA-C*02:02,HLA-C*16:04

<400> 10280
Ala Glu Ile Glu Pro Val Ser Ala Val
1 5

<210> 10281
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*25:01,HLA-A*30:01,HLA-A*30:02,HLA-B*18:01,HLA-B*27:02,
HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03,HLA-B*49:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 10281
Ala Glu Ile Glu Pro Val Ser Ala Val Trp
1 5 10

<210> 10282
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;

HLA -A*23:01,HLA-C*01:02,HLA-C*04:01,HLA-C*14:02

<400> 10282
Ala Phe Val Glu Ser Ser Lys Leu
1 5

<210> 10283
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*68:01

<400> 10283
Ala Ile Ala Cys Pro Gln Ser Gly Cys Thr Arg
1 5 10

<210> 10284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-B*15:01,HLA-C*07:04

<400> 10284
Ala Leu Cys Asp Gly Tyr Val Cys Tyr
1 5

<210> 10285
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*07:02

<400> 10285
Ala Pro Ser Gly Ala Lys Pro Arg Gln Gly
1 5 10

<210> 10286
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*07:02

<400> 10286
Ala Pro Ser Gly Ala Lys Pro Arg Gln Gly Lys
1 5 10

<210> 10287
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-A*30:02,HLA-C*07:01

<400> 10287
Ala Ser Ser Leu Glu Cys Ser Leu Glu Tyr
1 5 10

<210> 10288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*29:02,HLA-A*30:02

<400> 10288
Ala Val Trp Ala Leu Cys Asp Gly Tyr
1 5

<210> 10289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*27:05,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01,HLA-C*01:02,HLA-C*04:01,HLA-C*14:02,
HLA-C*16:02

<400> 10289
Cys Tyr Glu Pro Gly Pro Gln Ala Leu
1 5

<210> 10290
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*51:01

<400> 10290
Asp Cys Tyr Ile Glu Cys Val Ile
1 5

<210> 10291
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:01

<400> 10291
Asp Cys Tyr Ile Glu Cys Val Ile Arg
1 5

<210> 10292
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*08:01

<400> 10292
Asp Phe Asn Leu Arg Thr His Val
1 5

<210> 10293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:01,HLA-A*33:03

<400> 10293
Asp Phe Asn Leu Arg Thr His Val Arg
1 5

<210> 10294
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*25:01,HLA-A*26:01

<400> 10294
Asp Leu Ser Asp Pro Lys Gln Leu Ala Glu Phe
1 5 10

<210> 10295
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*25:01,HLA-A*33:01,HLA-A*33:03,HLA-B*08:01,HLA-B*35:01

<400> 10295
Asp Pro Lys Gln Leu Ala Glu Phe
1 5

<210> 10296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*54:01

<400> 10296
Asp Pro Lys Gln Leu Ala Glu Phe Ala
1 5

<210> 10297
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 10297

Asp Pro Lys Gln Leu Ala Glu Phe Ala Arg
1               5                   10


<210> 10298
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*33:01

<400> 10298
Asp Pro Lys Gln Leu Ala Glu Phe Ala Arg Lys
1               5                   10


<210> 10299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*33:01,
      HLA-B*18:01,HLA-B*35:01,HLA-C*07:01

<400> 10299
Asp Ser Leu Phe Glu Ser Leu Glu Tyr
1               5


<210> 10300
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*33:01

<400> 10300
Asp Ser Leu Phe Glu Ser Leu Glu Tyr Leu
1               5                   10


<210> 10301
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;

HLA -A*11:01,HLA-A*33:01,HLA-B*27:02

<400> 10301
Asp Ser Leu Phe Glu Ser Leu Glu Tyr Leu Lys
1 5 10

<210> 10302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:03,HLA-A*68:01,HLA-B*27:05,HLA-B*35:01,HLA-B*35:03,
HLA-B*38:01,HLA-B*39:01

<400> 10302
Glu Ala Ser Ser Leu Glu Cys Ser Leu
1 5

<210> 10303
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*26:01,HLA-C*07:01

<400> 10303
Glu Ala Ser Ser Leu Glu Cys Ser Leu Glu Tyr
1 5 10

<210> 10304
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*37:01

<400> 10304
Glu Asp Ser Leu Phe Glu Ser Leu
1 5

<210> 10305
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:02

<400> 10305
Glu Asp Ser Leu Phe Glu Ser Leu Glu Tyr
1 5 10

<210> 10306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*18:01,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 10306
Glu Glu Asp Ser Leu Phe Glu Ser Leu
1 5

<210> 10307
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03

<400> 10307
Glu Glu Asp Ser Leu Phe Glu Ser Leu Glu Tyr
1 5 10

<210> 10308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*08:01

<400> 10308
Glu Gly Cys Gly Lys Arg Phe Ser Leu
1 5

<210> 10309

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*24:02,HLA-A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-A*33:03,
HLA-A*68:01,HLA-A*68:02,HLA-B*18:01,HLA-B*35:01,HLA-B*38:01,
HLA-B*39:01,HLA-B*44:02,HLA-B*44:03,HLA-B*57:01,HLA-B*58:01,

<220>
<223> HLA-C*07:04

<400> 10309
Glu Ile Glu Pro Val Ser Ala Val Trp
1 5

<210> 10310
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:07,HLA-A*68:02

<400> 10310
Glu Ile Glu Pro Val Ser Ala Val Trp Ala Leu
1 5 10

<210> 10311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01

<400> 10311
Glu Asn Ser Leu Glu Tyr Ser Glu Tyr
1 5

<210> 10312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*26:01,HLA-A*33:03,HLA-A*68:01,HLA-A*68:02,HLA-B*07:02,

HLA-B*35:01,HLA-B*35:03,HLA-B*39:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 10312
Glu Pro Val Ser Ala Val Trp Ala Leu
1 5

<210> 10313
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*13:02

<400> 10313
Glu Gln Gln Leu Ser Gln Lys Val
1 5

<210> 10314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*15:01,HLA-B*15:03,HLA-B*27:02,HLA-B*44:02,HLA-B*44:03,
HLA-C*07:04

<400> 10314
Glu Gln Gln Leu Ser Gln Lys Val Phe
1 5

<210> 10315
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:03

<400> 10315
Glu Ser Leu Glu Tyr Leu Lys Lys
1 5

<210> 10316
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -C*04:01

<400> 10316
Glu Tyr Asp Ser Leu Ser Ala Ile
1 5

<210> 10317
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*23:01,HLA-A*24:02,HLA-A*33:01,HLA-A*33:03

<400> 10317
Glu Tyr Leu Lys Lys Gly Ser Glu Gln Gln Leu
1 5 10

<210> 10318
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:03,HLA-C*04:01

<400> 10318
Glu Tyr Met Lys Lys Gly Val Lys
1 5

<210> 10319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*24:02,HLA-A*33:01,HLA-A*33:03

<400> 10319
Glu Tyr Met Lys Lys Gly Val Lys Lys
1 5

<210> 10320

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*23:01,HLA-A*24:02,HLA-A*33:03,HLA-B*08:01,HLA-C*07:01,
HLA-C*14:02

<400> 10320
Glu Tyr Met Thr Gly Lys Lys Leu
1 5

<210> 10321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:02,HLA-A*11:01,HLA-A*26:01,HLA-A*31:01,HLA-A*33:01,
HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,HLA-B*27:05,HLA-C*07:01,
HLA-C*07:06

<400> 10321
Glu Tyr Ser Glu Tyr Met Thr Gly Lys
1 5

<210> 10322
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*24:02

<400> 10322
Glu Tyr Ser Glu Tyr Met Thr Gly Lys Lys Leu
1 5 10

<210> 10323
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*49:01

<400> 10323

Phe Glu Ala Ser Ser Leu Glu Cys
1               5


<210> 10324
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10324
Phe Glu Ala Ser Ser Leu Glu Cys Ser Leu
1               5                   10


<210> 10325
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*27:02

<400> 10325
Phe Glu Ser Leu Glu Tyr Leu Lys
1               5


<210> 10326
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*03:02

<400> 10326
Phe Ile Gln Ser Asn Asn Leu Lys
1               5


<210> 10327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*54:01

<400> 10327
Phe Ile Gln Ser Asn Asn Leu Lys Ala
1               5


<210> 10328
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*01:01

<400> 10328
Phe Ser Asp Cys Tyr Ile Glu Cys Val
1               5


<210> 10329
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*33:03

<400> 10329
Phe Ser Leu Asp Phe Asn Leu Arg
1               5


<210> 10330
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*31:01

<400> 10330
Phe Val Cys Pro Phe Gln Gly Cys Asn Arg
1               5                   10


<210> 10331
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 10331
Phe Val Glu Ser Ser Lys Leu Lys Arg
1 5

<210> 10332
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:05,HLA-B*37:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*44:03,HLA-B*49:01

<400> 10332
Gly Glu Phe Ser Gln Pro Ile Leu
1 5

<210> 10333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*37:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 10333
Gly Glu Lys Pro Phe Arg Cys Thr Phe
1 5

<210> 10334
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:01,HLA-A*30:02,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*39:01,
HLA-B*40:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-C*07:01,

<220>
<223> HLA-C*16:04

<400> 10334
Gly Glu Asn Ser Leu Glu Tyr Ser Glu Tyr
1 5 10

<210> 10335
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01

<400> 10335
Gly Gly Asp Asp Phe Ser Asp Cys Tyr
1 5

<210> 10336
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -C*06:02

<400> 10336
Gly Gly Arg Ala Pro Ser Gly Ala Lys Pro
1 5 10

<210> 10337
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*31:01,HLA-A*33:01

<400> 10337
Gly Gly Arg Ala Pro Ser Gly Ala Lys Pro Arg
1 5 10

<210> 10338
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*15:03

<400> 10338

Gly Lys Ala Phe Val Glu Ser Ser Lys Leu
1               5                   10


<210> 10339
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*02:03

<400> 10339
Gly Leu Gly Gly Arg Ala Pro Ser Gly Ala
1               5                   10


<210> 10340
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*03:02

<400> 10340
Gly Leu Gly Gly Arg Ala Pro Ser Gly Ala Lys
1               5                   10


<210> 10341
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*39:01

<400> 10341
Gly Pro Gln Ala Leu Gly Gly Asp Asp Phe
1               5                   10


<210> 10342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*27:05,HLA-C*06:02

<400> 10342
Gly Arg Ala Pro Ser Gly Ala Lys Pro
1               5


<210> 10343
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*27:05,HLA-C*06:02,HLA-C*07:02

<400> 10343
Gly Arg Ala Pro Ser Gly Ala Lys Pro Arg
1               5                   10


<210> 10344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*03:02,HLA-A*11:01

<400> 10344
Gly Ser Glu Gln Gln Leu Ser Gln Lys
1               5


<210> 10345
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*58:01

<400> 10345
Gly Ser Glu Gln Gln Leu Ser Gln Lys Val Phe
1               5                   10


<210> 10346
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10346
Gly Val Lys Lys Glu Leu Pro Gln Lys
1 5

<210> 10347
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*68:01

<400> 10347
His Ile Leu Thr His Ala Asn Thr Asn Lys
1 5 10

<210> 10348
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:03

<400> 10348
His Thr Gly Glu Lys Pro Phe Arg
1 5

<210> 10349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -C*04:01

<400> 10349
Ile Ala Cys Pro Gln Ser Gly Cys Thr
1 5

<210> 10350
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:05,
HLA-C*04:01,HLA-C*07:01,HLA-C*07:06

<400> 10350
Ile Ala Cys Pro Gln Ser Gly Cys Thr Arg
1 5 10

<210> 10351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*07:02,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:03,HLA-C*06:02,HLA-C*07:01,HLA-C*16:02

<400> 10351
Ile Asp Leu Ser Asp Pro Lys Gln Leu
1 5

<210> 10352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 10352
Ile Glu Cys Val Ile Arg Gly Glu Phe
1 5

<210> 10353
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*18:01,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-B*57:01

<400> 10353
Ile Glu Pro Val Ser Ala Val Trp
1 5

<210> 10354
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*40:01

<400> 10354
Ile Glu Pro Val Ser Ala Val Trp Ala Leu
1 5 10

<210> 10355
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:07

<400> 10355
Ile Leu Glu Glu Asp Ser Leu Phe Glu Ser Leu
1 5 10

<210> 10356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02

<400> 10356
Ile Leu Thr His Ala Asn Thr Asn Lys
1 5

<210> 10357
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:02

<400> 10357
Ile Pro Gly Ile Asp Leu Ser Asp Pro Lys

1 5 10

<210> 10358
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*13:02

<400> 10358
Ile Gln Ser Asn Asn Leu Lys Ala His Ile
1 5 10

<210> 10359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*18:01,HLA-B*27:05,HLA-B*35:01,HLA-B*39:01,

<220>
<223> HLA-B*46:01,HLA-B*55:01,HLA-B*58:01,HLA-C*02:02,HLA-C*07:01,
HLA-C*07:04,HLA-C*07:06,HLA-C*14:02,HLA-C*16:02

<400> 10359
Ile Val Gly Glu Asn Ser Leu Glu Tyr
1 5

<210> 10360
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*58:01

<400> 10360
Lys Ala Phe Val Glu Ser Ser Lys
1 5

<210> 10361
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,
HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,
HLA-A*68:02,HLA-B*07:02,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,

<220>
<223> HLA-B*27:05,HLA-B*35:03,HLA-B*37:01,HLA-B*38:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*46:01,HLA-B*49:01,HLA-B*51:01,HLA-B*55:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,
HLA-C*03:04,HLA-C*04:01,HLA-C*05:01,HLA-C*06:02,HLA-C*07:01,

<220>
<223> HLA-C*07:02,HLA-C*12:03,HLA-C*16:02,HLA-C*16:04

<400> 10361
Lys Ala Phe Val Glu Ser Ser Lys Leu
1 5

<210> 10362
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-B*27:02,
HLA-B*57:01,HLA-C*06:02

<400> 10362
Lys Ala Phe Val Glu Ser Ser Lys Leu Lys
1 5 10

<210> 10363
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*31:01,HLA-B*57:01

<400> 10363
Lys Ala Phe Val Glu Ser Ser Lys Leu Lys Arg
1 5 10

<210> 10364
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*37:01

<400> 10364
Lys Glu Leu Pro Gln Lys Ile Val
1 5

<210> 10365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*40:02

<400> 10365
Lys Glu Leu Pro Gln Lys Ile Val Gly
1 5

<210> 10366
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*37:01,HLA-B*49:01

<400> 10366
Lys Glu Tyr Asp Ser Leu Ser Ala
1 5

<210> 10367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 10367
Lys Glu Tyr Asp Ser Leu Ser Ala Ile
1 5

<210> 10368
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*40:02,HLA-B*49:01

<400> 10368
Lys Glu Tyr Asp Ser Leu Ser Ala Ile Ala
1 5 10

<210> 10369
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10369
Lys Glu Tyr Asp Ser Leu Ser Ala Ile Ala Cys
1 5 10

<210> 10370
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10370
Lys Gly Ser Glu Gln Gln Leu Ser Gln Lys
1 5 10

<210> 10371
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -C*06:02

<400> 10371
Lys Gly Ser Glu Gln Gln Leu Ser Gln Lys Val
1 5 10

<210> 10372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*31:01

<400> 10372
Lys His Leu Leu Ile His Gly Pro Arg
1 5

<210> 10373
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*16:04

<400> 10373
Lys Ile Val Gly Glu Asn Ser Leu Glu Tyr
1 5 10

<210> 10374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*15:03,HLA-C*04:01

<400> 10374
Lys Lys Pro Pro Ile Asn Lys Glu Tyr
1 5

<210> 10375
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,

HLA-A*03:02,HLA-A*23:01,HLA-A*24:02,HLA-A*32:01,HLA-B*13:02,
HLA-B*55:01,HLA-B*58:01,HLA-C*06:02

<400> 10375
Lys Leu Pro Pro Gly Gly Ile Pro Gly Ile
1 5 10

<210> 10376
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*07:02

<400> 10376
Lys Pro Pro Ile Asn Lys Glu Tyr Asp Ser Leu
1 5 10

<210> 10377
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*07:02,HLA-C*07:02

<400> 10377
Lys Pro Arg Gln Gly Lys Ser Ser Gln Asp Leu
1 5 10

<210> 10378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:05

<400> 10378
Lys Arg Phe Ser Leu Asp Phe Asn Leu
1 5

<210> 10379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*58:01

<400> 10379
Lys Ser Ser Gln Asp Leu Gln Ala Glu Ile
1 5 10

<210> 10380
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*31:01

<400> 10380
Lys Thr Arg His Gln Lys Gly Leu Gly Gly Arg
1 5 10

<210> 10381
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*25:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*27:05,HLA-B*37:01,HLA-B*40:02,HLA-B*46:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*03:03,HLA-C*03:04,HLA-C*05:01,

<220>
<223> HLA-C*12:03,HLA-C*14:02

<400> 10381
Lys Val Phe Glu Ala Ser Ser Leu
1 5

<210> 10382
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-B*27:05,HLA-B*40:02,
HLA-B*55:01,HLA-B*56:01

<400> 10382

Lys Val Phe Glu Ala Ser Ser Leu Glu Cys
1               5                   10


<210> 10383
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10383
Leu Glu Glu Asp Ser Leu Phe Glu Ser Leu
1               5                   10


<210> 10384
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*49:01

<400> 10384
Leu Glu Tyr Met Lys Lys Gly Val
1               5


<210> 10385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*40:02,HLA-B*49:01

<400> 10385
Leu Glu Tyr Ser Glu Tyr Met Thr Gly
1               5


<210> 10386
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*03:01,HLA-A*11:01,HLA-B*27:02,HLA-B*49:01

<400> 10386
Leu Glu Tyr Ser Glu Tyr Met Thr Gly Lys
1               5                   10


<210> 10387
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -C*04:01

<400> 10387
Leu Phe Glu Ser Leu Glu Tyr Leu
1               5


<210> 10388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*27:02

<400> 10388
Leu Phe Glu Ser Leu Glu Tyr Leu Lys
1               5


<210> 10389
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*30:02

<400> 10389
Leu Gly Gly Asp Asp Phe Ser Asp Cys Tyr
1               5                   10


<210> 10390
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:07,HLA-B*35:03,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 10390
Leu Pro Pro Gly Gly Ile Pro Gly Ile
1 5

<210> 10391
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*35:03,HLA-C*07:02

<400> 10391
Leu Pro Pro Gly Gly Ile Pro Gly Ile Asp Leu
1 5 10

<210> 10392
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 10392
Leu Pro Gln Lys Ile Val Gly Glu Asn Ser Leu
1 5 10

<210> 10393
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:01,HLA-A*02:03,HLA-B*27:05

<400> 10393
Leu Gln Ala Glu Ile Glu Pro Val Ser Ala
1 5 10

<210> 10394
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01

<400> 10394
Leu Ser Asp Pro Lys Gln Leu Ala Glu
1 5

<210> 10395
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-A*02:07,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,
HLA-C*04:01,HLA-C*05:01,HLA-C*07:01

<400> 10395
Leu Ser Asp Pro Lys Gln Leu Ala Glu Phe
1 5 10

<210> 10396
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01

<400> 10396
Leu Ser Asp Pro Lys Gln Leu Ala Glu Phe Ala
1 5 10

<210> 10397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*32:01,HLA-B*57:01

<400> 10397
Leu Val His Thr Gly Glu Lys Pro Phe
1 5

<210> 10398
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:03,HLA-A*03:01,HLA-A*33:01,HLA-B*08:01,HLA-C*07:01

<400> 10398
Asn Leu Lys Ala His Ile Leu Thr His
1 5

<210> 10399
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:03

<400> 10399
Asn Leu Lys Ala His Ile Leu Thr His Ala
1 5 10

<210> 10400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*08:01

<400> 10400
Asn Asn Leu Lys Ala His Ile Leu
1 5

<210> 10401
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:02,HLA-B*18:01,HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,
HLA-C*01:02,HLA-C*07:01,HLA-C*14:02,HLA-C*16:01

<400> 10401
Asn Ser Leu Glu Tyr Ser Glu Tyr

1 5

<210> 10402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-B*35:01,HLA-B*35:03,HLA-B*55:01,HLA-C*04:01

<400> 10402
Asn Ser Leu Glu Tyr Ser Glu Tyr Met
1 5

<210> 10403
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:02,HLA-A*11:01,HLA-A*33:03,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:01,HLA-C*07:06

<400> 10403
Asn Thr Asn Lys Asn Glu Gln Glu Gly Lys
1 5 10

<210> 10404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*11:01,HLA-B*27:02

<400> 10404
Pro Gly Ile Asp Leu Ser Asp Pro Lys
1 5

<210> 10405
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*07:02

<400> 10405
Pro Pro Ile Asn Lys Glu Tyr Asp Ser Leu
1               5                   10


<210> 10406
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -C*07:04

<400> 10406
Pro Gln Lys Ile Val Gly Glu Asn
1               5


<210> 10407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -C*06:02

<400> 10407
Pro Gln Ser Gly Cys Thr Arg Lys Leu
1               5


<210> 10408
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -B*07:02

<400> 10408
Pro Val Ser Ala Val Trp Ala Leu
1               5


<210> 10409
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*54:01,HLA-C*05:01

<400> 10409
Gln Ala Glu Ile Glu Pro Val Ser Ala
1 5

<210> 10410
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*57:01,HLA-B*58:01

<400> 10410
Gln Ala Glu Ile Glu Pro Val Ser Ala Val Trp
1 5 10

<210> 10411
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:02

<400> 10411
Gln Asp Leu Gln Ala Glu Ile Glu Pro Val Ser
1 5 10

<210> 10412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*15:03,HLA-B*38:01,HLA-B*39:01

<400> 10412
Gln Lys Ile Val Gly Glu Asn Ser Leu
1 5

<210> 10413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*15:03,HLA-B*38:01,HLA-B*39:01

<400> 10413
Gln Lys Val Phe Glu Ala Ser Ser Leu
1 5

<210> 10414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10414
Gln Leu Ala Glu Phe Ala Arg Lys Lys
1 5

<210> 10415
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*03:02,HLA-B*08:01,
HLA-B*13:02,HLA-B*54:01,HLA-B*55:01

<400> 10415
Gln Leu Ser Gln Lys Val Phe Glu Ala
1 5

<210> 10416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*07:02,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*55:01,HLA-C*03:03

<400> 10416
Gln Pro Ile Leu Glu Glu Asp Ser Leu
1 5

<210> 10417
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*35:01,HLA-B*35:03,HLA-B*55:01

<400> 10417
Gln Pro Ile Leu Glu Glu Asp Ser Leu Phe
1 5 10

<210> 10418
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*15:03

<400> 10418
Gln Gln Leu Ser Gln Lys Val Phe
1 5

<210> 10419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*31:01

<400> 10419
Arg Ala Pro Ser Gly Ala Lys Pro Arg
1 5

<210> 10420
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*23:01

<400> 10420
Arg Phe Ile Gln Ser Asn Asn Leu
1 5

<210> 10421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*31:01

<400> 10421
Arg Phe Ser Leu Asp Phe Asn Leu Arg
1 5

<210> 10422
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:02

<400> 10422
Arg Lys Lys Pro Pro Ile Asn Lys Glu Tyr
1 5 10

<210> 10423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:05,HLA-C*06:02

<400> 10423
Arg Arg Phe Ile Gln Ser Asn Asn Leu
1 5

<210> 10424
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:05,HLA-C*06:02

<400> 10424

Arg Arg Phe Ile Gln Ser Asn Asn Leu Lys
1               5                   10


<210> 10425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*24:02,HLA-B*37:01,HLA-B*44:02,HLA-B*44:03

<400> 10425
Ser Asp Pro Lys Gln Leu Ala Glu Phe
1               5


<210> 10426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*30:01,HLA-B*13:02,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
      HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01

<400> 10426
Ser Glu Gln Gln Leu Ser Gln Lys Val
1               5


<210> 10427
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,HLA-B*40:01,
      HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 10427
Ser Glu Gln Gln Leu Ser Gln Lys Val Phe
1               5                   10


<210> 10428
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*30:01,HLA-B*18:01,HLA-B*27:02,HLA-B*27:05,HLA-B*37:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,
HLA-C*16:04

<400> 10428
Ser Glu Tyr Met Thr Gly Lys Lys Leu
1 5

<210> 10429
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*40:02

<400> 10429
Ser Glu Tyr Met Thr Gly Lys Lys Leu Pro
1 5 10

<210> 10430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02

<400> 10430
Ser Leu Asp Phe Asn Leu Arg Thr His
1 5

<210> 10431
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07

<400> 10431
Ser Leu Asp Phe Asn Leu Arg Thr His Val
1 5 10

<210> 10432
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01

<400> 10432
Ser Leu Glu Cys Ser Leu Glu Tyr
1 5

<210> 10433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -C*06:02

<400> 10433
Ser Leu Glu Tyr Met Lys Lys Gly Val
1 5

<210> 10434
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:01,HLA-A*03:02

<400> 10434
Ser Leu Glu Tyr Ser Glu Tyr Met Thr Gly Lys
1 5 10

<210> 10435
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-A*03:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,
HLA-B*35:01,HLA-B*39:01,HLA-B*46:01,HLA-C*02:02,HLA-C*07:01,

<220>
<223> HLA-C*14:02

<400> 10435
Ser Leu Phe Glu Ser Leu Glu Tyr
1               5


<210> 10436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,
      HLA-A*68:02,HLA-B*13:02,HLA-B*40:01,HLA-B*40:02,HLA-B*55:01

<400> 10436
Ser Leu Phe Glu Ser Leu Glu Tyr Leu
1               5


<210> 10437
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 10437
Ser Leu Phe Glu Ser Leu Glu Tyr Leu Lys
1               5                   10


<210> 10438
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
      HLA -A*03:01,HLA-A*11:01

<400> 10438
Ser Leu Phe Glu Ser Leu Glu Tyr Leu Lys Lys
1               5                   10


<210> 10439
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*03:02,HLA-C*06:02

<400> 10439
Ser Leu Ser Ala Ile Ala Cys Pro Gln
1 5

<210> 10440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*08:01

<400> 10440
Ser Asn Asn Leu Lys Ala His Ile Leu
1 5

<210> 10441
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*13:02,HLA-B*38:01,HLA-C*05:01

<400> 10441
Ser Gln Asp Leu Gln Ala Glu Ile
1 5

<210> 10442
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*15:01,HLA-B*40:02

<400> 10442
Ser Gln Lys Val Phe Glu Ala Ser Ser Leu
1 5 10

<210> 10443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-A*03:01,HLA-A*11:01,HLA-A*26:01,HLA-A*29:02,
HLA-A*30:02,HLA-B*15:01,HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,
HLA-B*57:01,HLA-B*58:01,HLA-C*07:01,HLA-C*16:01

<400> 10443
Ser Ser Leu Glu Cys Ser Leu Glu Tyr
1 5

<210> 10444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*13:02

<400> 10444
Ser Ser Gln Asp Leu Gln Ala Glu Ile
1 5

<210> 10445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*33:01,HLA-A*33:03

<400> 10445
Thr Asn Lys Asn Glu Gln Glu Gly Lys
1 5

<210> 10446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*54:01,HLA-B*55:01,HLA-B*56:01,HLA-C*03:03,HLA-C*03:04,
HLA-C*12:03

<400> 10446
Val Cys Tyr Glu Pro Gly Pro Gln Ala
1 5

<210> 10447
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:07,HLA-A*03:01,HLA-A*03:02,
HLA-A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*31:01,HLA-A*32:01,
HLA-A*68:02,HLA-B*07:02,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,

<220>
<223> HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,HLA-B*40:01,
HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,HLA-B*55:01,HLA-B*56:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,
HLA-C*04:01,HLA-C*05:01,HLA-C*06:02,HLA-C*07:01,HLA-C*07:04,

<220>
<223> HLA-C*12:03,HLA-C*14:02,HLA-C*16:01,HLA-C*16:02,HLA-C*16:04

<400> 10447
Val Cys Tyr Glu Pro Gly Pro Gln Ala Leu
1 5 10

<210> 10448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -C*07:01

<400> 10448
Val Phe Glu Ala Ser Ser Leu Glu Cys
1 5

<210> 10449
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01,HLA-B*39:01,HLA-B*46:01

<400> 10449
Val Gly Glu Asn Ser Leu Glu Tyr
1 5

<210> 10450
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01

<400> 10450
Val Gly Glu Asn Ser Leu Glu Tyr Ser Glu Tyr
1 5 10

<210> 10451
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:05

<400> 10451
Val Arg Ile His Thr Gly Glu Lys
1 5

<210> 10452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:05

<400> 10452
Val Arg Ile His Thr Gly Glu Lys Arg
1 5

<210> 10453
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*37:01,HLA-B*40:02

<400> 10453
Tyr Asp Ser Leu Ser Ala Ile Ala Cys
1 5

<210> 10454
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:07,HLA-A*30:01,HLA-B*07:02,HLA-B*08:01,HLA-B*13:02,
HLA-B*18:01,HLA-B*37:01,HLA-B*39:01,HLA-B*40:01,HLA-B*40:02,
HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,HLA-B*58:01,HLA-C*01:02,

<220>
<223> HLA-C*03:04,HLA-C*04:01,HLA-C*06:02,HLA-C*07:01,HLA-C*07:02,
HLA-C*07:04,HLA-C*12:03,HLA-C*16:04

<400> 10454
Tyr Glu Pro Gly Pro Gln Ala Leu
1 5

<210> 10455
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*49:01

<400> 10455
Tyr Glu Pro Gly Pro Gln Ala Leu Gly
1 5

<210> 10456
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*02:03,HLA-B*08:01,HLA-B*40:02

<400> 10456
Tyr Leu Lys Lys Gly Ser Glu Gln Gln Leu
1 5 10

<210> 10457
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*27:02

<400> 10457
Tyr Ser Glu Tyr Met Thr Gly Lys
1 5

<210> 10458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -A*01:01

<400> 10458
Tyr Ser Glu Tyr Met Thr Gly Lys Lys
1 5

<210> 10459
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZFP42; ENSG00000179059;
HLA -B*54:01

<400> 10459
Tyr Val Cys Tyr Glu Pro Gly Pro Gln Ala
1 5 10

<210> 10460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*24:02

<400> 10460
Ala Phe Ala Ser Phe Ser Ala Arg Ile
1 5

<210> 10461
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01

<400> 10461
Ala Phe Ile Ser Tyr Pro Ser Leu
1 5

<210> 10462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 10462
Ala Phe Ile Ser Tyr Pro Ser Leu Phe
1 5

<210> 10463
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -C*01:02,HLA-C*14:02

<400> 10463
Ala Phe Val Val Ser Ser Ser Leu
1 5

<210> 10464
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10464
Ala Ile Lys His Gln Thr Ser Val
1 5

<210> 10465
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*15:03

<400> 10465
Ala Lys Asp Leu Leu Ser Leu Tyr
1 5

<210> 10466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:04,HLA-A*02:07

<400> 10466
Ala Leu Gln Gln Glu Phe Trp Lys Ile
1 5

<210> 10467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:04

<400> 10467
Ala Leu Trp Gln Asp Asn Phe Cys Leu
1 5

<210> 10468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*27:02,HLA-B*38:01,HLA-B*39:01

<400> 10468
Ala Arg Asn Gln Asn Gly Glu Glu Leu
1 5

<210> 10469
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*27:02,HLA-C*16:04

<400> 10469
Ala Arg Asn Gln Asn Gly Glu Glu Leu Tyr
1 5 10

<210> 10470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*32:01,HLA-C*16:01

<400> 10470
Ala Ser Phe Ser Ala Arg Ile Ala His
1 5

<210> 10471
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01

<400> 10471
Ala Ser Phe Ser Ala Arg Ile Ala His Leu Lys
1 5 10

<210> 10472
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*58:01

<400> 10472

Ala Val Asp Phe Thr Gln Glu Glu Trp
1               5


<210> 10473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*58:01

<400> 10473
Ala Val Glu Phe Thr Gln Glu Glu Trp
1               5


<210> 10474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*24:02,HLA-A*32:01,HLA-B*13:02,HLA-B*58:01

<400> 10474
Ala Val Asn Val Glu Thr His Ile Ile
1               5


<210> 10475
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10475
Ala Val Asn Val Glu Thr His Ile Ile Lys
1               5                   10


<210> 10476
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*31:01

<400> 10476
Cys Gly Lys Ala Phe Thr Glu Arg
1               5


<210> 10477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*38:01,HLA-B*39:01

<400> 10477
Cys His Ser Asp Leu Thr Asn His Val
1               5


<210> 10478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*08:01

<400> 10478
Cys Leu Lys Thr Lys Gly Pro Ala Leu
1               5


<210> 10479
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*31:01

<400> 10479
Cys Ser Tyr Leu Thr Lys His Leu Arg
1               5


<210> 10480
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-C*14:02

<400> 10480
Cys Tyr Gln Tyr Ser Val Thr Phe
1 5

<210> 10481
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*51:01

<400> 10481
Asp Cys Gly Lys Ala Phe Val Val
1 5

<210> 10482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10482
Asp Phe Arg Tyr Pro Thr His Leu
1 5

<210> 10483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*15:03

<400> 10483
Asp Lys Ser Phe Glu Gly Thr Asp Tyr
1 5

<210> 10484
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:01

<400> 10484
Asp Leu Leu Ser Leu Tyr Asn Lys
1 5

<210> 10485
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10485
Asp Leu Thr Asn His Val Arg Ile
1 5

<210> 10486
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*51:01

<400> 10486
Asp Leu Val Thr Phe Asp Ser Val
1 5

<210> 10487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01,HLA-B*35:01

<400> 10487
Asp Pro Ala Gln Arg Asn Leu Tyr
1 5

<210> 10488
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01,HLA-B*35:01

<400> 10488
Asp Pro Val Gln Arg Asn Leu Tyr
1 5

<210> 10489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-A*26:01

<400> 10489
Asp Gln Cys Gly Lys Ala Phe Ala Ser Phe
1 5 10

<210> 10490
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01

<400> 10490
Asp Gln Cys Gly Lys Val Phe Val Ser Phe
1 5 10

<210> 10491
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01

<400> 10491
Asp Thr Ala Val Asp Phe Thr Gln Glu Glu Trp
1 5 10

<210> 10492
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01

<400> 10492
Asp Val Met Leu Glu Asn Tyr Glu Asn Val
1 5 10

<210> 10493
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01

<400> 10493
Asp Val Met Leu Glu Asn Tyr Lys Asn Leu
1 5 10

<210> 10494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-A*26:01,HLA-A*33:01,HLA-A*33:03,HLA-B*35:01,
HLA-B*46:01,HLA-B*51:01,HLA-C*12:03

<400> 10494
Glu Ala Phe Thr His Ser Thr Ser His
1 5

<210> 10495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*40:01

<400> 10495
Glu Glu Glu Glu Glu Leu Ser Thr Leu

1 5

<210> 10496
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*18:01

<400> 10496
Glu Glu Glu Glu Leu Arg Thr Leu
1 5

<210> 10497
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,
HLA-B*44:03

<400> 10497
Glu Glu Glu Leu Ser Thr Leu Pro Arg Val Leu
1 5 10

<210> 10498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*44:03,HLA-B*49:01

<400> 10498
Glu Glu Leu Ser Thr Leu Pro Arg Val
1 5

<210> 10499
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03

<400> 10499
Glu Glu Leu Ser Thr Leu Pro Arg Val Leu
1               5                   10


<210> 10500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*25:01

<400> 10500
Glu Gly Thr Asp Tyr Gly Lys Ala Phe
1               5


<210> 10501
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*33:01,HLA-A*33:03

<400> 10501
Glu Asn Tyr Glu Asn Val Ala Lys
1               5


<210> 10502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*26:01,HLA-A*33:03,HLA-A*68:02,HLA-B*51:01

<400> 10502
Glu Asn Tyr Glu Asn Val Ala Lys Val
1               5


<210> 10503
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*26:01

<400> 10503
Glu Asn Tyr Glu Asn Val Ala Lys Val Gly Phe
1 5 10

<210> 10504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:01,HLA-B*51:01

<400> 10504
Glu Asn Tyr Lys Asn Leu Ser Ser Val
1 5

<210> 10505
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-A*26:01

<400> 10505
Glu Asn Tyr Lys Asn Leu Ser Ser Val Gly Tyr
1 5 10

<210> 10506
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*27:05

<400> 10506
Glu Arg Ser Asp Leu Thr Lys His Leu
1 5

<210> 10507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01,HLA-A*26:01

<400> 10507
Glu Thr His Ile Ile Lys Asn Pro Tyr
1 5

<210> 10508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*54:01

<400> 10508
Phe Ala Ser Phe Ser Ala Arg Ile Ala
1 5

<210> 10509
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:01,HLA-B*18:01,HLA-B*37:01,HLA-C*07:04

<400> 10509
Phe Asp Ser Val Ala Val Glu Phe
1 5

<210> 10510
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*18:01,HLA-B*37:01,HLA-B*40:01,HLA-C*04:01,HLA-C*05:01

<400> 10510
Phe Glu Asp Thr Ala Val Asp Phe
1 5

<210> 10511
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*27:02

<400> 10511
Phe Glu Gly Thr Asp Tyr Gly Lys
1 5

<210> 10512
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*07:02,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 10512
Phe Glu Gly Thr Asp Tyr Gly Lys Ala Phe
1 5 10

<210> 10513
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:01,HLA-B*27:02

<400> 10513
Phe Gly Thr Ser Ser Gly Val Ile Glu Asp Arg
1 5 10

<210> 10514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*54:01

<400> 10514
Phe Ile Tyr Gln Ser Tyr Leu Glu Ala
1 5

<210> 10515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10515
Phe Thr Glu Arg Ser Asp Leu Thr Lys
1 5

<210> 10516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10516
Phe Thr Glu Arg Ser Tyr Leu Thr Lys
1 5

<210> 10517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*32:01,HLA-A*68:02,HLA-B*46:01

<400> 10517
Phe Thr His Ser Thr Ser His Ala Val
1 5

<210> 10518
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:02

<400> 10518
Phe Thr Val Pro Ser Gly Phe Leu Glu His Val
1 5 10

<210> 10519
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:07,HLA-A*23:01,HLA-A*68:02

<400> 10519
Phe Val Val Ser Ser Ser Leu Val Asp His Leu
1 5 10

<210> 10520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*49:01

<400> 10520
Gly Glu Ala Phe Thr His Ser Thr Ser
1 5

<210> 10521
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*44:02,HLA-B*44:03

<400> 10521
Gly Glu Lys Pro Tyr Glu His Lys Glu Tyr
1 5 10

<210> 10522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*15:01

<400> 10522

Gly Ile Gln Met Asp Leu Val Thr Phe
1               5


<210> 10523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*15:03

<400> 10523
Gly Lys Ala Phe Ala Ser Phe Ser Ala
1               5


<210> 10524
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*15:03

<400> 10524
Gly Lys Ala Phe Gly Thr Ser Ala
1               5


<210> 10525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*29:02,HLA-B*15:03

<400> 10525
Gly Lys Ala Phe Ile Tyr Gln Ser Tyr
1               5


<210> 10526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*15:03

<400> 10526
Gly Lys Ala Phe Thr Glu Arg Ser Tyr
1               5


<210> 10527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*15:03

<400> 10527
Gly Lys Ala Phe Thr Lys Cys Ser Tyr
1               5


<210> 10528
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*15:03

<400> 10528
Gly Lys Ala Phe Val Val Ser Ser Ser Leu
1               5                   10


<210> 10529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*15:03

<400> 10529
Gly Lys Thr Phe Thr Val Pro Ser Gly
1               5


<210> 10530
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*15:03

<400> 10530
Gly Lys Thr Phe Thr Val Pro Ser Gly Phe
1 5 10

<210> 10531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02,HLA-A*30:02,HLA-B*39:01

<400> 10531
Gly Asn Thr Ser Glu Cys Ile Gln Tyr
1 5

<210> 10532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10532
Gly Thr Asp Tyr Gly Lys Ala Phe Ile
1 5

<210> 10533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01,HLA-A*29:02

<400> 10533
Gly Thr Asp Tyr Gly Lys Ala Phe Ile Tyr
1 5 10

<210> 10534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10534
Gly Thr Ser Ala Gly Leu Ile Glu His
1 5

<210> 10535
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:02

<400> 10535
Gly Thr Ser Ala Gly Leu Ile Glu His Ile
1 5 10

<210> 10536
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*68:01,HLA-B*27:02,
HLA-C*07:06

<400> 10536
Gly Thr Ser Ser Gly Val Ile Glu Asp Arg
1 5 10

<210> 10537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*54:01,HLA-C*12:03,HLA-C*16:02

<400> 10537
His Ala Ala Glu Lys Thr Ser Glu Cys
1 5

<210> 10538

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*68:02,HLA-B*13:02,HLA-B*35:03,HLA-B*38:01,
HLA-B*39:01,HLA-B*51:01,HLA-B*58:01

<400> 10538
His Ala Val Asn Val Glu Thr His Ile
1 5

<210> 10539
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*38:01

<400> 10539
His Ala Val Asn Val Glu Thr His Ile Ile
1 5 10

<210> 10540
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:01

<400> 10540
His Ala Val Asn Val Glu Thr His Ile Ile Lys
1 5 10

<210> 10541
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*33:01

<400> 10541
His Leu Lys Thr His Ala Ala Glu Lys
1 5

<210> 10542
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10542
His Met Gln Thr His Ile Gly Ile
1 5

<210> 10543
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10543
His Pro Cys Leu Lys Thr Asn Met
1 5

<210> 10544
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:01,HLA-B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*37:01,
HLA-B*39:01

<400> 10544
His Gln Thr Ser Val Ser Ala Leu
1 5

<210> 10545
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10545
His Ser Asp Leu Thr Asn His Val
1               5


<210> 10546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*01:01,HLA-A*33:03,HLA-A*68:01

<400> 10546
His Ser Asp Leu Thr Asn His Val Arg
1               5


<210> 10547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*68:02,HLA-B*13:02,HLA-C*16:02

<400> 10547
His Ser Thr Ser His Ala Val Asn Val
1               5


<210> 10548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*01:01,HLA-A*11:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,
      HLA-A*30:02,HLA-A*32:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
      HLA-B*35:01,HLA-B*57:01,HLA-C*02:02,HLA-C*12:03,HLA-C*16:01,

<220>
<223> HLA-C*16:02,HLA-C*16:04

<400> 10548
His Thr Gly Asp Lys Pro Tyr Glu Tyr
1               5


<210> 10549
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*11:01,HLA-A*33:01

<400> 10549
His Thr Gly Asp Lys Pro Tyr Glu Tyr Lys
1 5 10

<210> 10550
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01

<400> 10550
Ile Ile Lys Asn Pro Tyr Glu Cys Lys
1 5

<210> 10551
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01,HLA-A*33:03

<400> 10551
Ile Leu Leu Asp Pro Val Gln Arg
1 5

<210> 10552
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*03:01

<400> 10552
Ile Leu Leu Asp Pro Val Gln Arg Asn Leu
1 5 10

<210> 10553
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01,HLA-A*03:01,HLA-A*23:01,HLA-A*29:02,HLA-A*30:02,
HLA-A*32:01,HLA-C*16:01

<400> 10553
Ile Leu Leu Asp Pro Val Gln Arg Asn Leu Tyr
1 5 10

<210> 10554
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01,HLA-A*33:03

<400> 10554
Ile Leu Asn Val Gln Val Gln Arg
1 5

<210> 10555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10555
Ile Leu Asn Val Gln Val Gln Arg Lys
1 5

<210> 10556
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-B*15:01,HLA-B*15:03

<400> 10556
Ile Gln Met Asp Leu Val Thr Phe

1 5

<210> 10557
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-B*13:02

<400> 10557
Ile Gln Met Asp Leu Val Thr Phe Asp Ser Val
1 5 10

<210> 10558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*13:02,HLA-B*15:01,HLA-B*15:03,HLA-B*27:05,HLA-B*39:01

<400> 10558
Ile Gln Thr Ser Asn Gly Ile Gln Met
1 5

<210> 10559
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01,HLA-B*13:02,HLA-B*15:03

<400> 10559
Ile Gln Tyr Ala Lys Asp Leu Leu
1 5

<210> 10560
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02

<400> 10560
Ile Gln Tyr Ala Lys Asp Leu Leu Ser Leu Tyr
1               5                   10


<210> 10561
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*57:01

<400> 10561
Ile Ser Tyr Pro Ser Leu Phe Gly His Leu
1               5                   10


<210> 10562
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*31:01,HLA-B*57:01

<400> 10562
Ile Ser Tyr Pro Ser Leu Phe Gly His Leu Arg
1               5                   10


<210> 10563
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -C*14:02

<400> 10563
Ile Tyr Gln Ser Tyr Leu Glu Ala
1               5


<210> 10564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;

HLA -C*14:02

<400> 10564
Ile Tyr Gln Ser Tyr Leu Glu Ala His
1 5

<210> 10565
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01,HLA-A*33:03

<400> 10565
Ile Tyr Gln Ser Tyr Leu Glu Ala His Arg
1 5 10

<210> 10566
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*32:01,HLA-B*54:01,HLA-B*56:01

<400> 10566
Lys Ala Phe Ala Ser Phe Ser Ala
1 5

<210> 10567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*30:02,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,
HLA-B*46:01,HLA-B*57:01

<400> 10567
Lys Ala Phe Ala Ser Phe Ser Ala Arg
1 5

<210> 10568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*58:01,HLA-C*03:03,HLA-C*03:04

<400> 10568
Lys Ala Phe Gly Thr Ser Ala Gly Leu
1 5

<210> 10569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:03,HLA-A*32:01

<400> 10569
Lys Ala Phe Gly Thr Ser Ser Gly Val
1 5

<210> 10570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*32:01,HLA-B*07:02,HLA-B*15:03,HLA-B*40:02,
HLA-B*46:01,HLA-B*57:01,HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,
HLA-C*03:03,HLA-C*03:04,HLA-C*16:04

<400> 10570
Lys Ala Phe Ile Ser Tyr Pro Ser Leu
1 5

<210> 10571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01

<400> 10571
Lys Ala Phe Ile Ser Tyr Pro Ser Leu Phe
1 5 10

<210> 10572
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02,HLA-B*57:01

<400> 10572
Lys Ala Phe Ile Tyr Gln Ser Tyr
1 5

<210> 10573
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-B*57:01

<400> 10573
Lys Ala Phe Thr Glu Arg Ser Asp Leu Thr Lys
1 5 10

<210> 10574
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02,HLA-A*32:01,HLA-C*16:01

<400> 10574
Lys Ala Phe Thr Glu Arg Ser Tyr
1 5

<210> 10575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01,HLA-B*57:01

<400> 10575
Lys Ala Phe Thr Glu Arg Ser Tyr Leu
1 5

<210> 10576
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-B*57:01

<400> 10576
Lys Ala Phe Thr Glu Arg Ser Tyr Leu Thr Lys
1 5 10

<210> 10577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:01,HLA-A*32:01,HLA-B*07:02,HLA-B*08:01,HLA-B*15:01,
HLA-B*15:03,HLA-B*40:01,HLA-B*40:02,HLA-B*46:01,HLA-B*51:01,
HLA-B*58:01,HLA-C*01:02,HLA-C*02:02,HLA-C*03:03,HLA-C*03:04,

<220>
<223> HLA-C*07:02,HLA-C*16:04

<400> 10577
Lys Ala Phe Val Val Ser Ser Ser Leu
1 5

<210> 10578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01,HLA-C*03:04,HLA-C*12:03

<400> 10578
Lys Ala Tyr Ser Arg Ser Cys Val Leu
1 5

<210> 10579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01

<400> 10579
Lys Cys Gly Lys Ala Phe Thr Glu Arg
1 5

<210> 10580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*38:01,HLA-B*39:01

<400> 10580
Lys His Gln Thr Ser Val Ser Ala Leu
1 5

<210> 10581
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02

<400> 10581
Lys Asn Leu Ser Ser Val Gly Tyr
1 5

<210> 10582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01

<400> 10582
Lys Asn Leu Ser Ser Val Gly Tyr Gln Leu
1 5 10

<210> 10583
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*07:02,HLA-B*35:03,HLA-C*07:02

<400> 10583
Lys Pro Phe Thr Ser Ser Ala Cys Leu
1 5

<210> 10584
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10584
Lys Pro Tyr Glu His Lys Glu Tyr
1 5

<210> 10585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02

<400> 10585
Lys Gln Cys Glu Asp Val Phe Cys Lys
1 5

<210> 10586
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02,HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-B*39:01,
HLA-B*46:01,HLA-B*58:01

<400> 10586
Lys Ser Phe Glu Gly Thr Asp Tyr
1 5

<210> 10587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-B*27:02,HLA-B*57:01,
HLA-B*58:01

<400> 10587
Lys Ser Phe Glu Gly Thr Asp Tyr Gly Lys
1 5 10

<210> 10588
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*58:01

<400> 10588
Lys Ser Phe Glu Gly Thr Asp Tyr Gly Lys Ala
1 5 10

<210> 10589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:04

<400> 10589
Lys Ser Phe Arg Leu Ile Leu Asn Val
1 5

<210> 10590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02,HLA-A*23:01,HLA-A*25:01,HLA-A*26:01,HLA-A*30:02,
HLA-A*31:01,HLA-A*32:01,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 10590

Lys Thr Phe Thr Val Pro Ser Gly Phe
1               5


<210> 10591
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*03:01

<400> 10591
Lys Thr Phe Thr Val Pro Ser Gly Phe Leu
1               5                   10


<210> 10592
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*57:01

<400> 10592
Lys Thr Lys Gly Pro Ala Leu Trp
1               5


<210> 10593
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*23:01

<400> 10593
Lys Thr Leu Asn Gly Ile Gln Leu
1               5


<210> 10594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*33:03,

HLA-B*57:01

<400> 10594
Lys Thr Leu Asn Gly Ile Gln Leu Ala Arg
1 5 10

<210> 10595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*30:02,HLA-B*57:01

<400> 10595
Lys Thr Leu Thr Lys Ile Lys Pro Tyr
1 5

<210> 10596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01,HLA-A*31:01,HLA-A*32:01,
HLA-A*33:01,HLA-A*33:03,HLA-A*68:01

<400> 10596
Lys Thr Asn Met Ser Thr Gln Asn Arg
1 5

<210> 10597
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-A*31:01,HLA-A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 10597
Lys Thr Gln Ser Gly Glu Lys Leu Asn Glu Trp
1 5 10

<210> 10598
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -C*06:02

<400> 10598
Lys Thr Ser Thr Ile Arg Lys Val
1 5

<210> 10599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:07,HLA-A*25:01,HLA-A*32:01,HLA-B*46:01,HLA-C*01:02,
HLA-C*03:03,HLA-C*03:04

<400> 10599
Lys Val Phe Val Ser Phe Ser Ser Leu
1 5

<210> 10600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01

<400> 10600
Lys Val Ser Val Phe Ser Lys His Gly Lys
1 5 10

<210> 10601
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02

<400> 10601
Leu Ala Arg Asn Gln Asn Gly Glu Glu Leu Tyr
1 5 10

<210> 10602

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*40:01

<400> 10602
Leu Glu Glu Glu Glu Glu Leu Ser Thr Leu
1 5 10

<210> 10603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:01,HLA-B*18:01,HLA-B*40:01,HLA-B*40:02,HLA-B*49:01

<400> 10603
Leu Glu Glu Glu Glu Leu Arg Thr Leu
1 5

<210> 10604
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*49:01

<400> 10604
Leu Glu Asn Tyr Glu Asn Val Ala Lys Val
1 5 10

<210> 10605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*24:02,HLA-B*57:01

<400> 10605
Leu Phe Lys Pro Ser Leu Ile Ser Trp
1 5

<210> 10606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-B*57:01

<400> 10606
Leu Phe Lys Pro Ser Val Ile Ser Trp
1 5

<210> 10607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*11:01,HLA-A*31:01,HLA-A*33:01,HLA-A*33:03,HLA-A*68:01,
HLA-C*07:06

<400> 10607
Leu Ile Leu Asn Val Gln Val Gln Arg
1 5

<210> 10608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-C*03:04

<400> 10608
Leu Leu Asp Pro Ala Gln Arg Asn Leu
1 5

<210> 10609
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01,HLA-A*02:07,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
HLA-B*15:01

<400> 10609
Leu Leu Asp Pro Ala Gln Arg Asn Leu Tyr
1               5                   10


<210> 10610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*03:01,HLA-A*68:02,
      HLA-C*03:03,HLA-C*03:04,HLA-C*16:02

<400> 10610
Leu Leu Asp Pro Val Gln Arg Asn Leu
1               5


<210> 10611
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*01:01,HLA-A*02:07,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,
      HLA-B*15:01

<400> 10611
Leu Leu Asp Pro Val Gln Arg Asn Leu Tyr
1               5                   10


<210> 10612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*32:01,HLA-B*44:02

<400> 10612
Leu Gln Gln Gly Val Leu Gln Asp Trp
1               5


<210> 10613
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -C*03:04

<400> 10613
Leu Ser Ser Val Gly Tyr Gln Leu
1 5

<210> 10614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01

<400> 10614
Leu Ser Ser Val Gly Tyr Gln Leu Phe
1 5

<210> 10615
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -C*16:01

<400> 10615
Leu Ser Thr Leu Pro Arg Val Leu
1 5

<210> 10616
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01

<400> 10616
Leu Ser Thr Leu Pro Arg Val Leu Gln Glu Trp
1 5 10

<210> 10617
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10617
Leu Val Asp His Leu Arg Thr His Thr Gly Tyr
1 5 10

<210> 10618
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-B*51:01,HLA-C*14:02

<400> 10618
Leu Tyr Asn Lys Thr Ser Thr Ile
1 5

<210> 10619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:03

<400> 10619
Leu Tyr Asn Lys Thr Ser Thr Ile Arg
1 5

<210> 10620
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02

<400> 10620
Leu Tyr Arg Asp Val Met Leu Glu Asn Tyr
1 5 10

<210> 10621

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*30:02

<400> 10621
Leu Tyr Ser Asp Val Met Leu Glu Asn Tyr
1 5 10

<210> 10622
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02,HLA-B*27:02

<400> 10622
Met Leu Glu Asn Tyr Glu Asn Val Ala Lys
1 5 10

<210> 10623
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -C*07:01

<400> 10623
Met Gln Thr His Ile Gly Ile Lys Pro Tyr
1 5 10

<210> 10624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:01,HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 10624
Asn Ala Cys Glu Lys Ala Tyr Ser Arg
1 5

<210> 10625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*38:01

<400> 10625
Asn His Met Gln Thr His Ile Gly Ile
1 5

<210> 10626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,HLA-A*68:02,
HLA-B*13:02,HLA-B*27:05,HLA-B*35:03,HLA-B*38:01,HLA-B*39:01,
HLA-B*55:01

<400> 10626
Asn Leu Ser Ser Val Gly Tyr Gln Leu
1 5

<210> 10627
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02,HLA-A*30:02

<400> 10627
Asn Leu Tyr Ser Asp Val Met Leu Glu Asn Tyr
1 5 10

<210> 10628
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10628
Asn Thr Ser Glu Cys Ile Gln Tyr
1               5


<210> 10629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*02:04,HLA-A*68:01,HLA-A*68:02,HLA-B*35:03

<400> 10629
Asn Val Ala Lys Val Gly Phe Gln Leu
1               5


<210> 10630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*25:01

<400> 10630
Asn Val Ala Lys Val Gly Phe Gln Leu Phe
1               5                   10


<210> 10631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*23:01,HLA-A*24:02,HLA-C*04:01,HLA-C*14:02

<400> 10631
Asn Tyr Glu Asn Val Ala Lys Val Gly Phe
1               5                   10


<210> 10632
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;

HLA -A*29:02,HLA-A*30:02,HLA-A*33:03,HLA-C*14:02

<400> 10632
Asn Tyr Lys Asn Leu Ser Ser Val Gly Tyr
1 5 10

<210> 10633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01

<400> 10633
Gln Cys Gly Lys Val Phe Val Ser Phe
1 5

<210> 10634
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02,HLA-B*15:03,HLA-C*07:01

<400> 10634
Gln Asp Lys Ser Phe Glu Gly Thr Asp Tyr
1 5 10

<210> 10635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01

<400> 10635
Gln Leu Phe Lys Pro Ser Leu Ile Ser Trp
1 5 10

<210> 10636
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-B*44:02,HLA-B*57:01

<400> 10636
Gln Leu Phe Lys Pro Ser Val Ile Ser Trp
1 5 10

<210> 10637
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-B*58:01

<400> 10637
Gln Ser Gly Glu Lys Leu Asn Glu Trp
1 5

<210> 10638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10638
Gln Ser Tyr Leu Glu Ala His Arg Lys
1 5

<210> 10639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10639
Gln Thr His Ile Gly Ile Lys Pro Tyr
1 5

<210> 10640
<211> 9
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<213> Homo sapiens

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<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02

<400> 10640
Gln Tyr Ala Lys Asp Leu Leu Ser Leu
1 5

<210> 10641
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02,HLA-A*30:02

<400> 10641
Gln Tyr Ala Lys Asp Leu Leu Ser Leu Tyr
1 5 10

<210> 10642
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02

<400> 10642
Arg Gly Asn Thr Ser Glu Cys Ile Gln Tyr
1 5 10

<210> 10643
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02

<400> 10643
Arg Ile His Thr Gly Glu Lys Pro Tyr Lys
1 5 10

<210> 10644

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01

<400> 10644
Arg Leu Ile Leu Asn Val Gln Val Gln Arg
1 5 10

<210> 10645
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02

<400> 10645
Arg Leu Ile Leu Asn Val Gln Val Gln Arg Lys
1 5 10

<210> 10646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02

<400> 10646
Arg Asn Gln Asn Gly Glu Glu Leu Tyr
1 5

<210> 10647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*58:01

<400> 10647
Arg Ser Cys Val Leu Thr Gln His Leu
1 5

<210> 10648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*32:01,HLA-B*57:01,HLA-B*58:01

<400> 10648
Arg Ser Asn Thr Gly Gln Lys Arg Phe
1 5

<210> 10649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01

<400> 10649
Arg Ser Tyr Leu Thr Lys His Leu Arg
1 5

<210> 10650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02,HLA-B*57:01

<400> 10650
Arg Thr His Thr Glu Glu Arg Leu Tyr
1 5

<210> 10651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01

<400> 10651
Arg Thr His Thr Gly Tyr Lys Pro Tyr Lys

1 5 10

<210> 10652
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01,HLA-B*58:01

<400> 10652
Arg Thr Leu Gln Gln Gly Val Leu Gln Asp Trp
1 5 10

<210> 10653
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:02

<400> 10653
Arg Val His Asn Gly Glu Lys Pro Tyr
1 5

<210> 10654
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*24:02

<400> 10654
Arg Tyr Pro Thr His Leu Asn Asn His Met
1 5 10

<210> 10655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:03,HLA-A*68:01,HLA-B*57:01,HLA-C*07:06

<400> 10655
Ser Ala Gly Leu Ile Glu His Ile Arg
1               5


<210> 10656
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*57:01,HLA-B*58:01

<400> 10656
Ser Ala Leu Gln Gln Glu Phe Trp
1               5


<210> 10657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*11:01

<400> 10657
Ser Cys Val Leu Thr Gln His Leu Lys
1               5


<210> 10658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*37:01

<400> 10658
Ser Asp Leu Thr Asn His Val Arg Ile
1               5


<210> 10659
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;

HLA -B*18:01

<400> 10659
Ser Asp Val Met Leu Glu Asn Tyr
1 5

<210> 10660
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*44:03

<400> 10660
Ser Glu Cys Asn Ala Cys Gly Asn Ser Phe
1 5 10

<210> 10661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*37:01

<400> 10661
Ser Phe Ser Ala Arg Ile Ala His Leu
1 5

<210> 10662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 10662
Ser Phe Ser Ser Leu Phe Ala His Leu
1 5

<210> 10663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*38:01

<400> 10663
Ser His Ala Val Asn Val Glu Thr His
1 5

<210> 10664
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*38:01

<400> 10664
Ser His Ala Val Asn Val Glu Thr His Ile
1 5 10

<210> 10665
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*38:01

<400> 10665
Ser His Ala Val Asn Val Glu Thr His Ile Ile
1 5 10

<210> 10666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:03,HLA-A*03:01

<400> 10666
Ser Leu Phe Ala His Leu Arg Thr His
1 5

<210> 10667
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10667
Ser Leu Tyr Asn Lys Thr Ser Thr
1 5

<210> 10668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*23:01,
HLA-A*25:01,HLA-A*30:01,HLA-A*32:01,HLA-B*08:01,HLA-B*13:02,
HLA-B*15:03,HLA-B*46:01,HLA-B*51:01,HLA-B*55:01,HLA-C*02:02

<400> 10668
Ser Leu Tyr Asn Lys Thr Ser Thr Ile
1 5

<210> 10669
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01

<400> 10669
Ser Leu Tyr Asn Lys Thr Ser Thr Ile Arg
1 5 10

<210> 10670
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10670
Ser Leu Tyr Asn Lys Thr Ser Thr Ile Arg Lys
1 5 10

<210> 10671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:01

<400> 10671
Ser Ser Ser Leu Val Asp His Leu Arg
1 5

<210> 10672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*03:02,HLA-A*11:01

<400> 10672
Ser Ser Val Gly Tyr Gln Leu Phe Lys
1 5

<210> 10673
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10673
Ser Thr Ile Arg Lys Val Ser Val
1 5

<210> 10674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-A*26:01,HLA-A*32:01,HLA-B*46:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*02:02,HLA-C*12:03

<400> 10674

Ser Thr Ile Arg Lys Val Ser Val Phe
1               5


<210> 10675
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*11:01

<400> 10675
Ser Thr Ile Arg Lys Val Ser Val Phe Ser Lys
1               5                   10


<210> 10676
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*24:02,HLA-A*25:01,HLA-A*31:01,HLA-A*32:01,HLA-B*44:02,
      HLA-B*57:01,HLA-B*58:01

<400> 10676
Ser Thr Leu Pro Arg Val Leu Gln Glu Trp
1               5                   10


<210> 10677
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*25:01,HLA-B*57:01

<400> 10677
Ser Val Ala Val Glu Phe Thr Gln Glu Glu Trp
1               5                   10


<210> 10678
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;

HLA -A*03:01,HLA-A*11:01

<400> 10678
Ser Val Gly Tyr Gln Leu Phe Lys
1 5

<210> 10679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-B*15:01,
HLA-B*35:01,HLA-B*58:01,HLA-C*02:02

<400> 10679
Ser Val Ser Ala Leu Gln Gln Glu Phe
1 5

<210> 10680
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01

<400> 10680
Ser Val Ser Ala Leu Gln Gln Glu Phe Trp
1 5 10

<210> 10681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*35:03

<400> 10681
Ser Val Thr Phe Glu Asp Thr Ala Val
1 5

<210> 10682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*31:01

<400> 10682
Ser Tyr Leu Thr Lys His Leu Arg Arg
1 5

<210> 10683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 10683
Ser Tyr Pro Ser Leu Phe Gly His Leu
1 5

<210> 10684
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02,HLA-A*31:01

<400> 10684
Ser Tyr Pro Ser Leu Phe Gly His Leu Arg
1 5 10

<210> 10685
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-A*26:01,HLA-A*68:01,HLA-B*35:01,HLA-B*57:01,
HLA-B*58:01,HLA-C*07:06

<400> 10685
Thr Ala Val Asp Phe Thr Gln Glu Glu Trp
1 5 10

<210> 10686

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02,HLA-B*18:01,HLA-B*37:01

<400> 10686
Thr Asp Tyr Gly Lys Ala Phe Ile Tyr
1 5

<210> 10687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:07,HLA-A*23:01,HLA-A*24:02,HLA-A*29:02,HLA-A*32:01,
HLA-A*33:03,HLA-B*18:01,HLA-B*35:01,HLA-B*35:03,HLA-B*38:01,
HLA-B*55:01,HLA-C*04:01,HLA-C*05:01,HLA-C*07:04,HLA-C*14:02

<400> 10687
Thr Phe Asp Ser Val Ala Val Glu Phe
1 5

<210> 10688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-B*35:01,HLA-B*35:03,HLA-C*04:01,HLA-C*14:02

<400> 10688
Thr Phe Glu Asp Thr Ala Val Asp Phe
1 5

<210> 10689
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01,HLA-B*35:01,HLA-C*05:01

<400> 10689
Thr Gly Asp Lys Pro Tyr Glu Tyr

1 5

<210> 10690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02,HLA-A*11:01

<400> 10690
Thr Gly Asp Lys Pro Tyr Glu Tyr Lys
1 5

<210> 10691
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*38:01

<400> 10691
Thr His Ser Thr Ser His Ala Val Asn Val
1 5 10

<210> 10692
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10692
Thr Ile Arg Lys Val Ser Val Phe
1 5

<210> 10693
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*03:01

<400> 10693
Thr Leu Leu Asp Pro Ala Gln Arg Asn Leu
1               5                   10


<210> 10694
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*01:01,HLA-A*03:01,HLA-A*23:01,HLA-A*29:02,HLA-A*30:02,
      HLA-A*32:01,HLA-B*15:01,HLA-B*15:03,HLA-C*07:04

<400> 10694
Thr Leu Leu Asp Pro Ala Gln Arg Asn Leu Tyr
1               5                   10


<210> 10695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*03:01,HLA-A*03:02,HLA-A*29:02,HLA-A*31:01,HLA-A*33:01,
      HLA-A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 10695
Thr Leu Asn Gly Ile Gln Leu Ala Arg
1               5


<210> 10696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*02:07,HLA-A*24:02,HLA-A*25:01,HLA-B*57:01

<400> 10696
Thr Leu Pro Arg Val Leu Gln Glu Trp
1               5


<210> 10697
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01

<400> 10697
Thr Leu Gln Gln Gly Val Leu Gln Asp Trp
1 5 10

<210> 10698
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:01,HLA-A*33:03

<400> 10698
Thr Asn Met Ser Thr Gln Asn Arg
1 5

<210> 10699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01

<400> 10699
Thr Gln His Leu Lys Thr His Ala Ala
1 5

<210> 10700
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-B*38:01

<400> 10700
Thr Gln Ser Gly Glu Lys Leu Asn Glu Trp
1 5 10

<210> 10701
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:01,HLA-A*68:02,HLA-B*13:02,HLA-B*38:01

<400> 10701
Thr Ser Ala Gly Leu Ile Glu His Ile
1 5

<210> 10702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:03,HLA-A*68:01

<400> 10702
Thr Ser Ala Gly Leu Ile Glu His Ile Arg
1 5 10

<210> 10703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02,HLA-A*11:01

<400> 10703
Thr Ser Glu Cys Ile Gln Tyr Ala Lys
1 5

<210> 10704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*58:01

<400> 10704
Thr Ser His Ala Val Asn Val Glu Thr
1 5

<210> 10705

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -C*16:02

<400> 10705
Thr Ser Ser Gly Arg Ile Gln His Leu
1 5

<210> 10706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:03,HLA-A*68:01,HLA-C*07:06

<400> 10706
Thr Ser Ser Gly Val Ile Glu Asp Arg
1 5

<210> 10707
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:01

<400> 10707
Thr Ser Ser Gly Val Ile Glu Asp Arg Arg
1 5 10

<210> 10708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01,HLA-C*16:01

<400> 10708
Thr Ser Thr Ile Arg Lys Val Ser Val
1 5

<210> 10709
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01,HLA-B*58:01

<400> 10709
Thr Ser Val Ser Ala Leu Gln Gln Glu Phe
1 5 10

<210> 10710
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01,HLA-B*58:01

<400> 10710
Thr Ser Val Ser Ala Leu Gln Gln Glu Phe Trp
1 5 10

<210> 10711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:01,HLA-A*26:01

<400> 10711
Thr Val Pro Ser Gly Phe Leu Glu His
1 5

<210> 10712
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:07,HLA-A*68:02

<400> 10712
Thr Val Pro Ser Gly Phe Leu Glu His Val

1 5 10

<210> 10713
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*32:01,HLA-B*08:01,HLA-B*40:02,HLA-B*46:01,HLA-C*01:02,
HLA-C*03:04,HLA-C*16:01

<400> 10713
Val Ala Lys Val Gly Phe Gln Leu
1 5

<210> 10714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-B*57:01

<400> 10714
Val Ala Lys Val Gly Phe Gln Leu Phe
1 5

<210> 10715
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*25:01,HLA-B*57:01,HLA-B*58:01,HLA-C*16:04

<400> 10715
Val Ala Val Glu Phe Thr Gln Glu Glu Trp
1 5 10

<210> 10716
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*18:01,HLA-B*44:02,HLA-B*44:03,HLA-C*16:04

<400> 10716
Val Glu Phe Thr Gln Glu Glu Trp
1               5


<210> 10717
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*30:01,HLA-B*40:01

<400> 10717
Val Glu Phe Thr Gln Glu Glu Trp Thr Leu
1               5                   10


<210> 10718
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*18:01,HLA-B*44:03

<400> 10718
Val Glu Thr His Ile Ile Lys Asn Pro Tyr
1               5                   10


<210> 10719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*24:02

<400> 10719
Val Phe Ser Lys His Gly Lys Ser Phe
1               5


<210> 10720
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-C*14:02

<400> 10720
Val Phe Val Ser Phe Ser Ser Leu
1 5

<210> 10721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-A*29:02

<400> 10721
Val Phe Val Ser Phe Ser Ser Leu Phe
1 5

<210> 10722
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:04,HLA-A*03:01,HLA-A*03:02

<400> 10722
Val Leu Gln Asp Trp Ala Ile Lys His
1 5

<210> 10723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:04

<400> 10723
Val Leu Gln Glu Trp Lys Met Cys Leu
1 5

<210> 10724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-B*55:01

<400> 10724
Val Met Leu Glu Asn Tyr Glu Asn Val
1 5

<210> 10725
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02,HLA-A*11:01,HLA-B*27:02

<400> 10725
Val Met Leu Glu Asn Tyr Glu Asn Val Ala Lys
1 5 10

<210> 10726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*02:07,HLA-A*24:02

<400> 10726
Val Met Leu Glu Asn Tyr Lys Asn Leu
1 5

<210> 10727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:02,HLA-B*07:02,HLA-B*51:01,HLA-B*54:01,HLA-B*55:01,
HLA-B*56:01

<400> 10727
Val Pro Ser Gly Phe Leu Glu His Val
1 5

<210> 10728

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*68:01

<400> 10728
Val Pro Ser Gly Phe Leu Glu His Val Arg
1 5 10

<210> 10729
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*58:01,HLA-C*16:01

<400> 10729
Val Ser Ala Leu Gln Gln Glu Phe
1 5

<210> 10730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*57:01,HLA-B*58:01

<400> 10730
Val Ser Ala Leu Gln Gln Glu Phe Trp
1 5

<210> 10731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*27:05,HLA-C*16:02

<400> 10731
Val Ser Ser Ser Leu Val Asp His Leu
1 5

<210> 10732
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02,HLA-A*11:01,HLA-A*23:01,HLA-A*24:02,HLA-A*25:01,
HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,HLA-A*32:01,HLA-A*68:01,
HLA-A*68:02,HLA-B*15:01,HLA-B*27:02,HLA-B*35:01,HLA-B*46:01,

<220>
<223> HLA-B*57:01,HLA-B*58:01,HLA-C*02:02,HLA-C*12:03

<400> 10732
Val Thr Phe Asp Ser Val Ala Val Glu Phe
1 5 10

<210> 10733
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*11:01,HLA-B*27:02,HLA-B*46:01,HLA-B*57:01,HLA-B*58:01

<400> 10733
Val Thr Phe Glu Asp Thr Ala Val Asp Phe
1 5 10

<210> 10734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*03:02

<400> 10734
Val Val Ser Ser Ser Leu Val Asp His
1 5

<210> 10735
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*27:05

<400> 10735
Val Val Ser Ser Ser Leu Val Asp His Leu
1 5 10

<210> 10736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01,HLA-B*51:01,HLA-B*54:01

<400> 10736
Trp Ala Ile Lys His Gln Thr Ser Val
1 5

<210> 10737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:03

<400> 10737
Trp Thr Leu Leu Asp Pro Ala Gln Arg
1 5

<210> 10738
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*08:01,HLA-B*46:01

<400> 10738
Tyr Ala Lys Asp Leu Leu Ser Leu
1 5

<210> 10739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01,HLA-A*25:01,HLA-A*26:01,HLA-A*29:02,HLA-A*30:02,
HLA-B*15:03,HLA-B*35:01,HLA-B*46:01,HLA-C*02:02,HLA-C*12:03

<400> 10739
Tyr Ala Lys Asp Leu Leu Ser Leu Tyr
1 5

<210> 10740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*33:01

<400> 10740
Tyr Ala Lys Asp Leu Leu Ser Leu Tyr Asn Lys
1 5 10

<210> 10741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02

<400> 10741
Tyr Cys Leu Thr Asn Cys Tyr Gln Tyr
1 5

<210> 10742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*44:02,HLA-B*44:03

<400> 10742
Tyr Glu His Lys Glu Tyr Gly Lys Ala Phe
1 5 10

<210> 10743

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*23:01,HLA-A*24:02,HLA-A*30:01,HLA-A*32:01,HLA-B*08:01,
HLA-B*15:01,HLA-B*15:03,HLA-B*18:01,HLA-B*27:02,HLA-B*37:01,
HLA-B*40:01,HLA-B*40:02,HLA-B*44:02,HLA-B*44:03,HLA-B*49:01,

<220>
<223> HLA-C*07:04,HLA-C*16:04

<400> 10743
Tyr Glu Asn Val Ala Lys Val Gly Phe
1 5

<210> 10744
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*30:01

<400> 10744
Tyr Glu Asn Val Ala Lys Val Gly Phe Gln Leu
1 5 10

<210> 10745
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*29:02,HLA-A*30:02,HLA-B*46:01

<400> 10745
Tyr Gly Lys Ala Phe Ile Tyr Gln Ser Tyr
1 5 10

<210> 10746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*15:01,HLA-B*15:03,HLA-C*07:01

<400> 10746
Tyr Lys Asn Leu Ser Ser Val Gly Tyr
1               5


<210> 10747
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*07:02,HLA-B*08:01,HLA-B*51:01,HLA-B*54:01

<400> 10747
Tyr Pro Ser Leu Phe Gly His Leu
1               5


<210> 10748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -A*33:01

<400> 10748
Tyr Pro Ser Leu Phe Gly His Leu Arg
1               5


<210> 10749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
      HLA -B*54:01

<400> 10749
Tyr Pro Ser Leu Phe Gly His Leu Arg Val
1               5                   10


<210> 10750
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -B*35:01,HLA-B*35:03,HLA-B*54:01

<400> 10750
Tyr Pro Thr His Leu Asn Asn His Met
1 5

<210> 10751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*02:01,HLA-A*02:03,HLA-A*02:04,HLA-A*30:01

<400> 10751
Tyr Gln Leu Phe Lys Pro Ser Leu Ile
1 5

<210> 10752
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10752
Tyr Arg Asp Val Met Leu Glu Asn Tyr
1 5

<210> 10753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01,HLA-A*29:02,HLA-A*30:02,HLA-B*18:01,HLA-B*35:01,
HLA-B*55:01,HLA-B*58:01,HLA-C*04:01,HLA-C*05:01

<400> 10753
Tyr Ser Asp Val Met Leu Glu Asn Tyr
1 5

<210> 10754
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table 1.2; ZNF560; ENSG00000198028;
HLA -A*01:01

<400> 10754
Tyr Ser Asp Val Met Leu Glu Asn Tyr Lys
1 5 10

<210> 10755
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CREB3L1; V414I; 0

<400> 10755
Ala Ala Asp Gly Ile Tyr Thr Ala
1 5

<210> 10756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CREB3L1; V414I; 0

<400> 10756
Ala Ala Asp Gly Ile Tyr Thr Ala Ser
1 5

<210> 10757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 10757
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1 5

<210> 10758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SF3B1; R957Q; 0

<400> 10758
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SF3B1; R957Q; 0

<400> 10759
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; SF3B1; R957Q; 0

<400> 10760
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10761
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SF3B1; R957Q; 0

<400> 10761
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10762
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:12; SF3B1; R957Q; 0

<400> 10762
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 10763
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R957Q; 0

<400> 10764
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10765
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; SF3B1; R957Q; 0

<400> 10765
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; SF3B1; R957Q; 0

<400> 10766
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SF3B1; R957Q; 0

<400> 10767
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10768
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; SF3B1; R957Q; 1

<400> 10768
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10769
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 10769
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10770
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; SF3B1; R957Q; 1

<400> 10770
Ala Ala Asp Leu Ile Ser Gln Thr Ala

1 5

<210> 10771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SF3B1; R957Q; 1

<400> 10771
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1 5 10

<210> 10772
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SF3B1; R957Q; 0

<400> 10772
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1 5 10

<210> 10773
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; SF3B1; R957Q; 1

<400> 10773
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1 5 10

<210> 10774
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 10774
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1 5 10

<210> 10775
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; SF3B1; R957Q; 1

<400> 10775
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 10776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PPP2R1A; S256F; 0

<400> 10776
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PPP2R1A; S256F; 0

<400> 10777
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PPP2R1A; S256F; 0

<400> 10778
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10779

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PPP2R1A; S256F; 0

<400> 10779
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; PPP2R1A; S256F; 0

<400> 10780
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; PPP2R1A; S256F; 1

<400> 10781
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; PPP2R1A; S256F; 1

<400> 10782
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10783
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; PPP2R1A; S256F; 0

<400> 10783
Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12A; 1

<400> 10784
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12A; 1

<400> 10785
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KRAS; G12A; 1

<400> 10786
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; KRAS; G12A; 1

<400> 10787
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; KRAS; G12A; 1

<400> 10788
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10789
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KRAS; G12A; 0

<400> 10789
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10790
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; KRAS; G12A; 1

<400> 10790
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KDR; R1032Q; 0

<400> 10791
Ala Ala Gln Asn Ile Leu Leu Ser Glu Lys
1               5                   10


<210> 10792
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KDR; R1032Q; 1

<400> 10792
Ala Ala Gln Asn Ile Leu Leu Ser Glu Lys
1               5                   10


<210> 10793
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PCBP1; L100Q; 0

<400> 10793
Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5


<210> 10794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PCBP1; L100Q; 0

<400> 10794
Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5


<210> 10795
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 10795

Ala Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 10796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PCBP1; L100Q; 0

<400> 10796
Ala Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 10797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PCBP1; L100Q; 0

<400> 10797
Ala Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 10798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PCBP1; L100Q; 0

<400> 10798
Ala Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 10799
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PCBP1; L100Q; 1

<400> 10799
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1 5 10

<210> 10800
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PCBP1; L100Q; 0

<400> 10800
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10801
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PCBP1; L100Q; 1

<400> 10801
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10802
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PCBP1; L100Q; 0

<400> 10802
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10803
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PCBP1; L100Q; 0

<400> 10803
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10

<210> 10804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PCBP1; L100Q; 0

<400> 10804
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10805
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PCBP1; L100Q; 0

<400> 10805
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10806
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PCBP1; L100Q; 0

<400> 10806
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10807
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PCBP1; L100Q; 0

<400> 10807
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10808
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PCBP1; L100Q; 0

<400> 10808
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10809
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PCBP1; L100Q; 0

<400> 10809
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 10810
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PCBP1; L100Q; 0

<400> 10810
Ala Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 10811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12C; 1

<400> 10811
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; KRAS; G12C; 1

<400> 10812
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; NRAS; G12C; 1

<400> 10813
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; NRAS; G12C; 0

<400> 10814
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10815
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CCND1; T286I; 0

<400> 10815
Ala Cys Ile Pro Thr Asp Val Arg Asp Val
1               5                   10


<210> 10816
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*44:05; CCND1; T286I; 0

<400> 10816
Ala Cys Ile Pro Thr Asp Val Arg Asp Val
1               5                   10


<210> 10817
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CREB3L1; V414I; 0

<400> 10817
Ala Asp Gly Ile Tyr Thr Ala Ser
1               5


<210> 10818
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12D; 1

<400> 10818
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; KRAS; G12D; 1

<400> 10819
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; KRAS; G12D; 1

<400> 10820
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; KRAS; G12D; 1

<400> 10821
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; KRAS; G12D; 1

<400> 10822
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10823
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; NRAS; G12D; 1

<400> 10823
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 10824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; NRAS; G12D; 0

<400> 10824
Ala Asp Gly Val Gly Lys Ser Ala Leu

1 5

<210> 10825
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; NRAS; G12D; 0

<400> 10825
Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5

<210> 10826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; NRAS; G12D; 0

<400> 10826
Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5

<210> 10827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; NRAS; G12D; 0

<400> 10827
Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5

<210> 10828
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; SF3B1; R957Q; 0

<400> 10828
Ala Asp Leu Ile Ser Gln Thr Ala
1 5

<210> 10829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; SF3B1; R957Q; 0

<400> 10829
Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10830
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SF3B1; R957Q; 0

<400> 10830
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1               5


<210> 10831
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; SF3B1; R957Q; 0

<400> 10831
Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10832
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; SF3B1; R957Q; 0

<400> 10832
Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10833

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; SF3B1; R957Q; 0

<400> 10833
Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 10834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SF3B1; R957Q; 1

<400> 10834
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 10835
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; SF3B1; R957Q; 0

<400> 10836
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10837
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; SF3B1; R957Q; 0

<400> 10837
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

<400> 10838
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; SF3B1; R957Q; 0

<400> 10839
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SF3B1; R957Q; 0

<400> 10840
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; SF3B1; R957Q; 0

<400> 10841
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; SF3B1; R957Q; 0

<400> 10842
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SF3B1; R957Q; 0

<400> 10843
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 10844
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; SF3B1; R957Q; 0

<400> 10845
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; SF3B1; R957Q; 0

<400> 10846
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SF3B1; R957Q; 0

<400> 10847
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 10848
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SF3B1; R957Q; 0

<400> 10848
Ala Asp Leu Ile Ser Gln Thr Ala Val Val
1               5                   10


<210> 10849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SF3B1; R957Q; 0

<400> 10849

Ala Asp Leu Ile Ser Gln Thr Ala Val Val
1 5 10

<210> 10850
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SF3B1; R957Q; 0

<400> 10850
Ala Asp Leu Ile Ser Gln Thr Ala Val Val Met
1 5 10

<210> 10851
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SF3B1; R957Q; 0

<400> 10851
Ala Asp Leu Ile Ser Gln Thr Ala Val Val Met
1 5 10

<210> 10852
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PTPRT; M903I; 0

<400> 10852
Ala Asp Leu Leu Gln His Ile Thr Gln Ile
1 5 10

<210> 10853
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PTPRT; M903I; 0

<400> 10853
Ala Asp Leu Leu Gln His Ile Thr Gln Ile
1 5 10

<210> 10854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TPR; S2155L; 1

<400> 10854
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TPR; S2155L; 0

<400> 10855
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TPR; S2155L; 0

<400> 10856
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10857
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TPR; S2155L; 0

<400> 10857
Ala Glu Ala Ile His Leu Pro Gln Val
1               5

<210> 10858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TPR; S2155L; 0

<400> 10858
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TPR; S2155L; 0

<400> 10859
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10860
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TPR; S2155L; 0

<400> 10860
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TPR; S2155L; 0

<400> 10861
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10862
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TPR; S2155L; 0

<400> 10862
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TPR; S2155L; 0

<400> 10863
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TPR; S2155L; 1

<400> 10864
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TPR; S2155L; 0

<400> 10865
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TPR; S2155L; 0

<400> 10866
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TPR; S2155L; 0

<400> 10867
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; TPR; S2155L; 0

<400> 10868
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; TPR; S2155L; 0

<400> 10869
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10870
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*40:01; TPR; S2155L; 0

<400> 10870
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TPR; S2155L; 0

<400> 10871
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; TPR; S2155L; 0

<400> 10872
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; TPR; S2155L; 0

<400> 10873
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; TPR; S2155L; 0

<400> 10874
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; TPR; S2155L; 0

<400> 10875
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10876
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; TPR; S2155L; 0

<400> 10876
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; TPR; S2155L; 0

<400> 10877
Ala Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 10878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; TPR; S2155L; 0

<400> 10878
Ala Glu Ala Ile His Leu Pro Gln Val

1 5

<210> 10879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TPR; S2155L; 0

<400> 10879
Ala Glu Ala Ile His Leu Pro Gln Val
1 5

<210> 10880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; TPR; S2155L; 0

<400> 10880
Ala Glu Ala Ile His Leu Pro Gln Val
1 5

<210> 10881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; TPR; S2155L; 0

<400> 10881
Ala Glu Ala Ile His Leu Pro Gln Val
1 5

<210> 10882
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TPR; S2155L; 0

<400> 10882
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1 5 10

<210> 10883
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TPR; S2155L; 0

<400> 10883
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TPR; S2155L; 0

<400> 10884
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10885
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TPR; S2155L; 0

<400> 10885
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; TPR; S2155L; 0

<400> 10886
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10887

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; TPR; S2155L; 0

<400> 10887
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10888
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; TPR; S2155L; 0

<400> 10888
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10889
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; TPR; S2155L; 0

<400> 10889
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10890
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; TPR; S2155L; 0

<400> 10890
Ala Glu Ala Ile His Leu Pro Gln Val Ala
1               5                   10


<210> 10891
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PPP2R1A; S256F; 0

<400> 10891
Ala Glu Asp Lys Phe Trp Arg Val
1               5


<210> 10892
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PPP2R1A; S256F; 1

<400> 10892
Ala Glu Asp Lys Phe Trp Arg Val Arg Tyr
1               5                   10


<210> 10893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CSMD3; R100Q; 1

<400> 10893
Ala Glu Glu Gln Asn Arg Ile Gln Ile
1               5


<210> 10894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CSMD3; R100Q; 0

<400> 10894
Ala Glu Glu Gln Asn Arg Ile Gln Ile
1               5


<210> 10895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CSMD3; R100Q; 0

<400> 10895
Ala Glu Glu Gln Asn Arg Ile Gln Ile
1               5


<210> 10896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; CSMD3; R100Q; 1

<400> 10896
Ala Glu Glu Gln Asn Arg Ile Gln Ile
1               5


<210> 10897
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CSMD3; R100Q; 1

<400> 10897
Ala Glu Glu Gln Asn Arg Ile Gln Ile
1               5


<210> 10898
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CSMD3; R100Q; 0

<400> 10898
Ala Glu Glu Gln Asn Arg Ile Gln Ile
1               5


<210> 10899
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; CSMD3; R100Q; 0

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1               5


<210> 10900
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CSMD3; R100Q; 0

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Ala Glu Glu Gln Asn Arg Ile Gln Ile Val
1               5                   10


<210> 10901
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CSMD3; R100Q; 0

<400> 10901
Ala Glu Glu Gln Asn Arg Ile Gln Ile Val
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<210> 10902
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CSMD3; R100Q; 0

<400> 10902
Ala Glu Glu Gln Asn Arg Ile Gln Ile Val
1               5                   10


<210> 10903
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CSMD3; R100Q; 1

<400> 10903

Ala Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1 5 10

<210> 10904
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CSMD3; R100Q; 0

<400> 10904
Ala Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1 5 10

<210> 10905
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CSMD3; R100Q; 0

<400> 10905
Ala Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1 5 10

<210> 10906
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; CSMD3; R100Q; 1

<400> 10906
Ala Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1 5 10

<210> 10907
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CSMD3; R100Q; 1

<400> 10907
Ala Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1 5 10

<210> 10908
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CSMD3; R100Q; 0

<400> 10908
Ala Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5                   10


<210> 10909
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; ATM; R2691C; 0

<400> 10909
Ala Glu Phe Cys Leu Ala Gly Gly Val
1               5


<210> 10910
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; ATM; R2691C; 0

<400> 10910
Ala Glu Phe Cys Leu Ala Gly Gly Val Asn Leu
1               5                   10


<210> 10911
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; ATM; R2691C; 0

<400> 10911
Ala Glu Phe Cys Leu Ala Gly Gly Val Asn Leu
1               5                   10

<210> 10912
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; ATM; R2691C; 0

<400> 10912
Ala Glu Phe Cys Leu Ala Gly Gly Val Asn Leu
1               5                   10


<210> 10913
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; TNC; L1626I; 0

<400> 10913
Ala Glu Pro Glu Val Asp Asn Ile
1               5


<210> 10914
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; TNC; L1626I; 1

<400> 10914
Ala Glu Pro Glu Val Asp Asn Ile Leu
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<210> 10915
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; TNC; L1626I; 0

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Ala Glu Pro Glu Val Asp Asn Ile Leu
1               5


<210> 10916
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; TNC; L1626I; 0

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1               5


<210> 10917
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; TNC; L1626I; 0

<400> 10917
Ala Glu Pro Glu Val Asp Asn Ile Leu
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<210> 10918
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; TNC; L1626I; 0

<400> 10918
Ala Glu Pro Glu Val Asp Asn Ile Leu Val
1               5                   10


<210> 10919
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; TNC; L1626I; 0

<400> 10919
Ala Glu Pro Glu Val Asp Asn Ile Leu Val
1               5                   10


<210> 10920
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; TNC; L1626I; 0

<400> 10920
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1               5                   10


<210> 10921
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; POLE; S297F; 0

<400> 10921
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1               5                   10


<210> 10922
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<220>
<223> Table A; HLA-B*44:02; POLE; S297F; 0

<400> 10922
Ala Glu Thr Asp Gln Ile Met Met Ile Phe
1               5                   10


<210> 10923
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:03; POLE; S297F; 0

<400> 10923
Ala Glu Thr Asp Gln Ile Met Met Ile Phe
1               5                   10


<210> 10924
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*44:05; POLE; S297F; 0

<400> 10924
Ala Glu Thr Asp Gln Ile Met Met Ile Phe
1               5                   10


<210> 10925
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; POLE; S297F; 0

<400> 10925
Ala Glu Thr Asp Gln Ile Met Met Ile Phe Tyr
1               5                   10


<210> 10926
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RAC1; P29L; 1

<400> 10926
Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 10927
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; P29L; 0

<400> 10927
Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 10928
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; RAC1; P29L; 0

<400> 10928
Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 10929
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; RAC1; P29L; 0

<400> 10929
Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 10930
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; RAC1; P29L; 0

<400> 10930
Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 10931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; RAC1; P29S; 0

<400> 10931
Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1               5


<210> 10932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; RAC1; P29S; 0

<400> 10932
Ala Phe Ser Gly Glu Tyr Ile Pro Thr

1 5

<210> 10933
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RAC1; P29S; 1

<400> 10933
Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1 5 10

<210> 10934
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; RAC1; P29S; 0

<400> 10934
Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1 5 10

<210> 10935
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; RAC1; P29S; 0

<400> 10935
Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1 5 10

<210> 10936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; CDKN2A; D108Y; 0

<400> 10936
Ala Gly Ala Arg Leu Asp Val Arg Tyr
1 5

<210> 10937
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CDKN2A; D108Y; 1

<400> 10937
Ala Gly Ala Arg Leu Asp Val Arg Tyr
1               5


<210> 10938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDKN2A; D108Y; 1

<400> 10938
Ala Gly Ala Arg Leu Asp Val Arg Tyr
1               5


<210> 10939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CDKN2A; D108Y; 0

<400> 10939
Ala Gly Ala Arg Leu Asp Val Arg Tyr
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<210> 10940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37A; 1

<400> 10940
Ala Gly Ala Thr Thr Thr Ala Pro Ser Leu
1               5                   10


<210> 10941

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; S37A; 0

<400> 10941
Ala Gly Ala Thr Thr Thr Ala Pro Ser Leu
1               5                   10


<210> 10942
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; S37A; 0

<400> 10942
Ala Gly Ala Thr Thr Thr Ala Pro Ser Leu
1               5                   10


<210> 10943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G13C; 1

<400> 10943
Ala Gly Cys Val Gly Lys Ser Ala Leu
1               5


<210> 10944
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G13C; 1

<400> 10944
Ala Gly Cys Val Gly Lys Ser Ala Leu
1               5


<210> 10945
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G13D; 1

<400> 10945
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G13D; 1

<400> 10946
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10947
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; KRAS; G13D; 1

<400> 10947
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10948
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:13; KRAS; G13D; 0

<400> 10948
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; KRAS; G13D; 0

<400> 10949
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; KRAS; G13D; 0

<400> 10950
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; KRAS; G13D; 0

<400> 10951
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; KRAS; G13D; 1

<400> 10952
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; KRAS; G13D; 1

<400> 10953
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KRAS; G13D; 0

<400> 10954
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; KRAS; G13D; 1

<400> 10955
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 10956
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; KRAS; Q61H; 0

<400> 10956
Ala Gly His Glu Glu Tyr Ser Ala
1               5


<210> 10957
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; NRAS; Q61H; 0

<400> 10957

Ala Gly His Glu Glu Tyr Ser Ala
1               5


<210> 10958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KRAS; Q61H; 1

<400> 10958
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; KRAS; Q61H; 0

<400> 10959
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; KRAS; Q61H; 0

<400> 10960
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; KRAS; Q61H; 0

<400> 10961
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5

<210> 10962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KRAS; Q61H; 0

<400> 10962
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NRAS; Q61H; 1

<400> 10963
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; NRAS; Q61H; 0

<400> 10964
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10965
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; NRAS; Q61H; 1

<400> 10965
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5

<210> 10966
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:02; NRAS; Q61H; 0

<400> 10966
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; NRAS; Q61H; 0

<400> 10967
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; NRAS; Q61H; 0

<400> 10968
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; NRAS; Q61H; 0

<400> 10969
Ala Gly His Glu Glu Tyr Ser Ala Met
1               5


<210> 10970
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; HRAS; Q61K; 0

<400> 10970
Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5


<210> 10971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NRAS; Q61K; 1

<400> 10971
Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5


<210> 10972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NRAS; Q61K; 1

<400> 10972
Ala Gly Lys Glu Glu Tyr Ser Ala Met Arg
1               5                   10


<210> 10973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTEN; R130G; 1

<400> 10973
Ala Gly Lys Gly Gly Thr Gly Val Met
1               5


<210> 10974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; PTEN; R130G; 0

<400> 10974
Ala Gly Lys Gly Gly Thr Gly Val Met
1               5


<210> 10975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTEN; R130L; 1

<400> 10975
Ala Gly Lys Gly Leu Thr Gly Val Met
1               5


<210> 10976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PTEN; R130L; 0

<400> 10976
Ala Gly Lys Gly Leu Thr Gly Val Met
1               5


<210> 10977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PTEN; R130P; 1

<400> 10977
Ala Gly Lys Gly Pro Thr Gly Val Met
1               5


<210> 10978
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*15:01; PTEN; R130P; 1

<400> 10978
Ala Gly Lys Gly Pro Thr Gly Val Met
1               5


<210> 10979
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; PTEN; R130P; 0

<400> 10979
Ala Gly Lys Gly Pro Thr Gly Val Met
1               5


<210> 10980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PTEN; R130P; 0

<400> 10980
Ala Gly Lys Gly Pro Thr Gly Val Met
1               5


<210> 10981
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PTEN; R130P; 0

<400> 10981
Ala Gly Lys Gly Pro Thr Gly Val Met Ile
1               5                   10


<210> 10982
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTEN; R130Q; 1

<400> 10982
Ala Gly Lys Gly Gln Thr Gly Val Met
1               5


<210> 10983
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; KRAS; Q61L; 0

<400> 10983
Ala Gly Leu Glu Glu Tyr Ser Ala
1               5


<210> 10984
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; NRAS; Q61L; 0

<400> 10984
Ala Gly Leu Glu Glu Tyr Ser Ala
1               5


<210> 10985
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KRAS; Q61L; 0

<400> 10985
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; KRAS; Q61L; 0

<400> 10986
Ala Gly Leu Glu Glu Tyr Ser Ala Met

1 5

<210> 10987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; KRAS; Q61L; 0

<400> 10987
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1 5

<210> 10988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; KRAS; Q61L; 0

<400> 10988
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1 5

<210> 10989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KRAS; Q61L; 0

<400> 10989
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1 5

<210> 10990
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NRAS; Q61L; 1

<400> 10990
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1 5

<210> 10991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; NRAS; Q61L; 0

<400> 10991
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; NRAS; Q61L; 1

<400> 10992
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; NRAS; Q61L; 0

<400> 10993
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; NRAS; Q61L; 0

<400> 10994
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10995

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; NRAS; Q61L; 0

<400> 10995
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NRAS; Q61L; 0

<400> 10996
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; NRAS; Q61L; 0

<400> 10997
Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5


<210> 10998
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NRAS; Q61L; 0

<400> 10998
Ala Gly Leu Glu Glu Tyr Ser Ala Met Arg
1               5                   10


<210> 10999
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; Q61R; 1

<400> 10999
Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5


<210> 11000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KRAS; Q61R; 0

<400> 11000
Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5


<210> 11001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; NRAS; Q61R; 1

<400> 11001
Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5


<210> 11002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NRAS; Q61R; 1

<400> 11002
Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5


<210> 11003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; NRAS; G13R; 1

<400> 11003
Ala Gly Arg Val Gly Lys Ser Ala Leu
1               5


<210> 11004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; NRAS; G13R; 1

<400> 11004
Ala Gly Arg Val Gly Lys Ser Ala Leu
1               5


<210> 11005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; NRAS; G13R; 0

<400> 11005
Ala Gly Arg Val Gly Lys Ser Ala Leu
1               5


<210> 11006
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12A; 1

<400> 11006
Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11007
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12A; 1

<400> 11007
Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11008
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; KRAS; G12A; 1

<400> 11008
Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11009
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; KRAS; G12A; 0

<400> 11009
Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11010
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12A; 1

<400> 11010
Ala Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 11011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; ARHGEF12; R113Q; 0

<400> 11011

Ala Gly Val Gln Thr Gly Asp Gln Ile
1               5


<210> 11012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; ARHGEF12; R113Q; 0

<400> 11012
Ala Gly Val Gln Thr Gly Asp Gln Ile
1               5


<210> 11013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; ARHGEF12; R113Q; 0

<400> 11013
Ala Gly Val Gln Thr Gly Asp Gln Ile
1               5


<210> 11014
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; ARHGEF12; R113Q; 0

<400> 11014
Ala Gly Val Gln Thr Gly Asp Gln Ile Ile Lys
1               5                   10


<210> 11015
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; ARHGEF12; R113Q; 0

<400> 11015
Ala Gly Val Gln Thr Gly Asp Gln Ile Ile Lys
1               5                   10

<210> 11016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; SIRPA; V233I; 0

<400> 11016
Ala His Ile Thr Leu Gln Gly Asp Pro Leu
1               5                   10


<210> 11017
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SIRPA; V233I; 0

<400> 11017
Ala His Ile Thr Leu Gln Gly Asp Pro Leu
1               5                   10


<210> 11018
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SIRPA; V233I; 0

<400> 11018
Ala His Ile Thr Leu Gln Gly Asp Pro Leu
1               5                   10


<210> 11019
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SIRPA; V233I; 0

<400> 11019
Ala His Ile Thr Leu Gln Gly Asp Pro Leu
1               5                   10

<210> 11020
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SIRPA; V233I; 0

<400> 11020
Ala His Ile Thr Leu Gln Gly Asp Pro Leu
1 5 10

<210> 11021
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SIRPA; V233I; 0

<400> 11021
Ala His Ile Thr Leu Gln Gly Asp Pro Leu
1 5 10

<210> 11022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; ACVR1; R206H; 0

<400> 11022
Ala His Gln Ile Thr Leu Leu Glu Cys
1 5

<210> 11023
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; GRIN2A; R1067W; 0

<400> 11023
Ala His Ser Asp Ile Ser Glu Thr Ser Asn Trp
1 5 10

<210> 11024
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CHST11; A159T; 0

<400> 11024
Ala His Val Ser Thr Asn Leu Lys Thr Leu
1               5                   10


<210> 11025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; Y163H; 0

<400> 11025
Ala Ile His Lys Gln Ser Gln His Met
1               5


<210> 11026
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TPR; S2155L; 1

<400> 11026
Ala Ile His Leu Pro Gln Val Ala Gly Val
1               5                   10


<210> 11027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TPR; S2155L; 0

<400> 11027
Ala Ile His Leu Pro Gln Val Ala Gly Val
1               5                   10


<210> 11028
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TPR; S2155L; 0

<400> 11028
Ala Ile His Leu Pro Gln Val Ala Gly Val
1               5                   10


<210> 11029
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TPR; S2155L; 0

<400> 11029
Ala Ile His Leu Pro Gln Val Ala Gly Val
1               5                   10


<210> 11030
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TPR; S2155L; 0

<400> 11030
Ala Ile His Leu Pro Gln Val Ala Gly Val
1               5                   10


<210> 11031
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TPR; S2155L; 0

<400> 11031
Ala Ile His Leu Pro Gln Val Ala Gly Val
1               5                   10


<210> 11032
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*03:01; PIK3CA; E542K; 1

<400> 11032
Ala Ile Ser Thr Arg Asp Pro Leu Ser Lys
1 5 10

<210> 11033
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; E542K; 0

<400> 11033
Ala Ile Ser Thr Arg Asp Pro Leu Ser Lys
1 5 10

<210> 11034
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; E542V; 0

<400> 11034
Ala Ile Ser Thr Arg Asp Pro Leu Ser Val
1 5 10

<210> 11035
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; AXIN1; R146Q; 1

<400> 11035
Ala Ile Tyr Gln Lys Tyr Ile Leu
1 5

<210> 11036
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; FGFR2; C382R; 0

<400> 11036
Ala Ile Tyr Arg Ile Gly Val Phe Leu Ile
1               5                   10


<210> 11037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; TP53; S127F; 0

<400> 11037
Ala Lys Ser Val Thr Cys Thr Tyr Phe
1               5


<210> 11038
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; TP53; C141Y; 0

<400> 11038
Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 11039
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; C141Y; 0

<400> 11039
Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 11040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; M1043V; 0

<400> 11040
Ala Leu Glu Tyr Phe Met Lys Gln Val

1 5

<210> 11041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PIK3CA; M1043V; 0

<400> 11041
Ala Leu Glu Tyr Phe Met Lys Gln Val
1 5

<210> 11042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; H1047L; 0

<400> 11042
Ala Leu His Gly Gly Trp Thr Thr Lys
1 5

<210> 11043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; H1047L; 1

<400> 11043
Ala Leu His Gly Gly Trp Thr Thr Lys
1 5

<210> 11044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; H1047L; 0

<400> 11044
Ala Leu His Gly Gly Trp Thr Thr Lys
1 5

<210> 11045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; H1047L; 1

<400> 11045
Ala Leu His Gly Gly Trp Thr Thr Lys
1               5


<210> 11046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; EZH2; E745K; 1

<400> 11046
Ala Leu Lys Tyr Val Gly Ile Lys Arg
1               5


<210> 11047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; EZH2; E745K; 0

<400> 11047
Ala Leu Lys Tyr Val Gly Ile Lys Arg
1               5


<210> 11048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; EZH2; E745K; 0

<400> 11048
Ala Leu Lys Tyr Val Gly Ile Lys Arg
1               5


<210> 11049

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; BAZ1A; R1480C; 0

<400> 11049
Ala Leu Asn Ile Ile Cys Glu Lys Val
1               5


<210> 11050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; BAZ1A; R1480C; 0

<400> 11050
Ala Leu Asn Ile Ile Cys Glu Lys Val
1               5


<210> 11051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; C135F; 1

<400> 11051
Ala Leu Asn Lys Met Phe Phe Gln Leu
1               5


<210> 11052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; C135F; 0

<400> 11052
Ala Leu Asn Lys Met Phe Phe Gln Leu
1               5


<210> 11053
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; C135F; 0

<400> 11053
Ala Leu Asn Lys Met Phe Phe Gln Leu
1               5


<210> 11054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; C135F; 0

<400> 11054
Ala Leu Asn Lys Met Phe Phe Gln Leu
1               5


<210> 11055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; C135F; 1

<400> 11055
Ala Leu Asn Lys Met Phe Phe Gln Leu
1               5


<210> 11056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; F134L; 1

<400> 11056
Ala Leu Asn Lys Met Leu Cys Gln Leu
1               5


<210> 11057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; F134L; 0

<400> 11057
Ala Leu Asn Lys Met Leu Cys Gln Leu
1               5


<210> 11058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; F134L; 0

<400> 11058
Ala Leu Asn Lys Met Leu Cys Gln Leu
1               5


<210> 11059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; K132N; 1

<400> 11059
Ala Leu Asn Asn Met Phe Cys Gln Leu
1               5


<210> 11060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; K132N; 0

<400> 11060
Ala Leu Asn Asn Met Phe Cys Gln Leu
1               5


<210> 11061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; K132N; 0

<400> 11061
Ala Leu Asn Asn Met Phe Cys Gln Leu
1               5


<210> 11062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; K132N; 0

<400> 11062
Ala Leu Asn Asn Met Phe Cys Gln Leu
1               5


<210> 11063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; K132N; 1

<400> 11063
Ala Leu Asn Asn Met Phe Cys Gln Leu
1               5


<210> 11064
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; K132N; 0

<400> 11064
Ala Leu Asn Asn Met Phe Cys Gln Leu
1               5


<210> 11065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; K132R; 0

<400> 11065

Ala Leu Asn Arg Met Phe Cys Gln Leu
1               5


<210> 11066
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; MTOR; S2215Y; 0

<400> 11066
Ala Asn Asp Pro Thr Tyr Leu Arg
1               5


<210> 11067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MTOR; S2215Y; 0

<400> 11067
Ala Asn Asp Pro Thr Tyr Leu Arg
1               5


<210> 11068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MTOR; S2215Y; 1

<400> 11068
Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5


<210> 11069
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MTOR; S2215Y; 0

<400> 11069
Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5

<210> 11070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; MTOR; S2215Y; 1

<400> 11070
Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5


<210> 11071
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDH11; K357T; 1

<400> 11071
Ala Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 11072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; CDH11; K357T; 0

<400> 11072
Ala Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 11073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CDH11; K357T; 0

<400> 11073
Ala Asn Val His Ile Asp Pro Thr Phe
1               5

<210> 11074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CDH11; K357T; 0

<400> 11074
Ala Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 11075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CDH11; K357T; 0

<400> 11075
Ala Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 11076
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*58:01; CDH11; K357T; 0

<400> 11076
Ala Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 11077
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; S45F; 0

<400> 11077
Ala Pro Phe Leu Ser Gly Lys Gly
1               5


<210> 11078
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; S45F; 1

<400> 11078
Ala Pro Phe Leu Ser Gly Lys Gly
1               5


<210> 11079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S45F; 0

<400> 11079
Ala Pro Phe Leu Ser Gly Lys Gly
1               5


<210> 11080
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; CTNNB1; S45F; 0

<400> 11080
Ala Pro Phe Leu Ser Gly Lys Gly
1               5


<210> 11081
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; S45F; 0

<400> 11081
Ala Pro Phe Leu Ser Gly Lys Gly
1               5


<210> 11082
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; S45F; 0

<400> 11082
Ala Pro Phe Leu Ser Gly Lys Gly
1               5


<210> 11083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; S45F; 1

<400> 11083
Ala Pro Phe Leu Ser Gly Lys Gly Asn Pro
1               5                   10


<210> 11084
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; CTNNB1; S45F; 0

<400> 11084
Ala Pro Phe Leu Ser Gly Lys Gly Asn Pro
1               5                   10


<210> 11085
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; S45F; 0

<400> 11085
Ala Pro Phe Leu Ser Gly Lys Gly Asn Pro
1               5                   10


<210> 11086
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*56:01; CTNNB1; S45F; 0

<400> 11086
Ala Pro Phe Leu Ser Gly Lys Gly Asn Pro
1               5                   10


<210> 11087
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; ABI1; K445N; 1

<400> 11087
Ala Pro Asn Asn Tyr Ile Glu Lys
1               5


<210> 11088
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; ABI1; K445N; 1

<400> 11088
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1               5


<210> 11089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ABI1; K445N; 0

<400> 11089
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1               5


<210> 11090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ABI1; K445N; 0

<400> 11090
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1               5


<210> 11091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; ABI1; K445N; 0

<400> 11091
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1               5


<210> 11092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; ABI1; K445N; 1

<400> 11092
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1               5


<210> 11093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; ABI1; K445N; 0

<400> 11093
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1               5


<210> 11094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; ABI1; K445N; 0

<400> 11094
Ala Pro Asn Asn Tyr Ile Glu Lys Val

1 5

<210> 11095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; ABI1; K445N; 1

<400> 11095
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1 5

<210> 11096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; ABI1; K445N; 0

<400> 11096
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1 5

<210> 11097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; ABI1; K445N; 0

<400> 11097
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1 5

<210> 11098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; ABI1; K445N; 0

<400> 11098
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1 5

<210> 11099
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; ABI1; K445N; 0

<400> 11099
Ala Pro Asn Asn Tyr Ile Glu Lys Val
1               5


<210> 11100
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; ABI1; K445N; 0

<400> 11100
Ala Pro Asn Asn Tyr Ile Glu Lys Val Val
1               5                   10


<210> 11101
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; ABI1; K445N; 0

<400> 11101
Ala Pro Asn Asn Tyr Ile Glu Lys Val Val
1               5                   10


<210> 11102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; ABI1; K445N; 0

<400> 11102
Ala Pro Asn Asn Tyr Ile Glu Lys Val Val
1               5                   10


<210> 11103

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; ABI1; K445N; 0

<400> 11103
Ala Pro Asn Asn Tyr Ile Glu Lys Val Val Ala
1               5                   10


<210> 11104
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; ABI1; K445N; 0

<400> 11104
Ala Pro Asn Asn Tyr Ile Glu Lys Val Val Ala
1               5                   10


<210> 11105
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; ABI1; K445N; 0

<400> 11105
Ala Pro Asn Asn Tyr Ile Glu Lys Val Val Ala
1               5                   10


<210> 11106
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; ABI1; K445N; 0

<400> 11106
Ala Pro Asn Asn Tyr Ile Glu Lys Val Val Ala
1               5                   10


<210> 11107
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; ERBB4; R711C; 1

<400> 11107
Ala Pro Asn Gln Ala Gln Leu Cys Ile Leu
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<210> 11108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CDKN2A; P48L; 1

<400> 11108
Ala Pro Asn Ser Tyr Gly Arg Arg Leu
1               5


<210> 11109
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CDKN2A; P48L; 1

<400> 11109
Ala Pro Asn Ser Tyr Gly Arg Arg Leu Ile
1               5                   10


<210> 11110
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; I195N; 0

<400> 11110
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1               5


<210> 11111
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*55:01; TP53; I195N; 0

<400> 11111
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1               5


<210> 11112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; I195T; 1

<400> 11112
Ala Pro Pro Gln His Leu Thr Arg Val
1               5


<210> 11113
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; I195T; 1

<400> 11113
Ala Pro Pro Gln His Leu Thr Arg Val
1               5


<210> 11114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; H193L; 0

<400> 11114
Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5


<210> 11115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; H193L; 0

<400> 11115
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1               5


<210> 11116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; H193L; 0

<400> 11116
Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5


<210> 11117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; H193L; 0

<400> 11117
Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5


<210> 11118
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; TP53; H193L; 0

<400> 11118
Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5


<210> 11119
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*55:02; TP53; H193L; 0

<400> 11119

Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5


<210> 11120
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; TP53; H193L; 0

<400> 11120
Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5


<210> 11121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; H193Y; 0

<400> 11121
Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5


<210> 11122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; H193Y; 0

<400> 11122
Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5


<210> 11123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; H193Y; 0

<400> 11123
Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5

<210> 11124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; TP53; H193Y; 0

<400> 11124
Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5


<210> 11125
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; TP53; H193Y; 0

<400> 11125
Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5


<210> 11126
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; H1047Q; 1

<400> 11126
Ala Gln His Gly Gly Trp Thr Thr Lys
1               5


<210> 11127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; H1047Q; 0

<400> 11127
Ala Gln His Gly Gly Trp Thr Thr Lys
1               5

<210> 11128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; H1047Q; 0

<400> 11128
Ala Gln His Gly Gly Trp Thr Thr Lys
1               5


<210> 11129
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; H1047Q; 0

<400> 11129
Ala Gln His Gly Gly Trp Thr Thr Lys
1               5


<210> 11130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KDR; R1032Q; 1

<400> 11130
Ala Gln Asn Ile Leu Leu Ser Glu Lys
1               5


<210> 11131
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KDR; R1032Q; 0

<400> 11131
Ala Gln Asn Ile Leu Leu Ser Glu Lys
1               5


<210> 11132
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KDR; R1032Q; 1

<400> 11132
Ala Gln Asn Ile Leu Leu Ser Glu Lys
1               5


<210> 11133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTEN; D92E; 0

<400> 11133
Ala Gln Tyr Pro Phe Glu Glu His
1               5


<210> 11134
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; D92E; 0

<400> 11134
Ala Gln Tyr Pro Phe Glu Glu His
1               5


<210> 11135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12R; 1

<400> 11135
Ala Arg Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11136
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; KRAS; G12R; 1

<400> 11136
Ala Arg Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; KRAS; G12R; 1

<400> 11137
Ala Arg Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PIK3CA; H1047R; 1

<400> 11138
Ala Arg His Gly Gly Trp Thr Thr Lys
1               5


<210> 11139
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CDKN2A; D108Y; 0

<400> 11139
Ala Arg Leu Asp Val Arg Tyr Ala
1               5


<210> 11140
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*27:05; CDKN2A; D108Y; 0

<400> 11140
Ala Arg Leu Asp Val Arg Tyr Ala Trp
1               5


<210> 11141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CDKN2A; D108Y; 1

<400> 11141
Ala Arg Leu Asp Val Arg Tyr Ala Trp
1               5


<210> 11142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CDKN2A; D108Y; 0

<400> 11142
Ala Arg Leu Asp Val Arg Tyr Ala Trp
1               5


<210> 11143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; BIRC6; G271R; 0

<400> 11143
Ala Arg Pro Glu Leu Arg Val Gly Pro
1               5


<210> 11144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12S; 1

<400> 11144
Ala Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; KRAS; G12S; 0

<400> 11145
Ala Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MAX; R60Q; 1

<400> 11146
Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5


<210> 11147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MAX; R60Q; 0

<400> 11147
Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5


<210> 11148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; MAX; R60Q; 1

<400> 11148
Ala Ser Gln Ala Gln Ile Leu Asp Lys

1 5

<210> 11149
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PCBP1; L100Q; 1

<400> 11149
Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 11150
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PCBP1; L100Q; 0

<400> 11150
Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 11151
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PCBP1; L100Q; 0

<400> 11151
Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 11152
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 11152
Ala Ser Arg Pro Pro Val Thr Gln
1 5

<210> 11153
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PCBP1; L100Q; 1

<400> 11153
Ala Ser Arg Pro Pro Val Thr Gln
1               5


<210> 11154
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PCBP1; L100Q; 1

<400> 11154
Ala Ser Arg Pro Pro Val Thr Gln
1               5


<210> 11155
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PCBP1; L100Q; 0

<400> 11155
Ala Ser Arg Pro Pro Val Thr Gln
1               5


<210> 11156
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PCBP1; L100Q; 0

<400> 11156
Ala Ser Arg Pro Pro Val Thr Gln
1               5


<210> 11157

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PCBP1; L100Q; 0

<400> 11157
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PCBP1; L100Q; 1

<400> 11158
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PCBP1; L100Q; 0

<400> 11159
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PCBP1; L100Q; 1

<400> 11160
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11161
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PCBP1; L100Q; 0

<400> 11161
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PCBP1; L100Q; 0

<400> 11162
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PCBP1; L100Q; 0

<400> 11163
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11164
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PCBP1; L100Q; 0

<400> 11164
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PCBP1; L100Q; 0

<400> 11165
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PCBP1; L100Q; 0

<400> 11166
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 11167
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PCBP1; L100Q; 1

<400> 11168
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PCBP1; L100Q; 0

<400> 11169
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PCBP1; L100Q; 0

<400> 11170
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PCBP1; L100Q; 0

<400> 11171
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; PCBP1; L100Q; 0

<400> 11172
Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 11173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PCBP1; L100Q; 0

<400> 11173

Ala Ser Arg Pro Pro Val Thr Gln Arg
1 5

<210> 11174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PCBP1; L100Q; 0

<400> 11174
Ala Ser Arg Pro Pro Val Thr Gln Arg
1 5

<210> 11175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; PCBP1; L100Q; 0

<400> 11175
Ala Ser Arg Pro Pro Val Thr Gln Arg
1 5

<210> 11176
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PCBP1; L100Q; 0

<400> 11176
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1 5 10

<210> 11177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; PCBP1; L100Q; 0

<400> 11177
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1 5 10

<210> 11178
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PCBP1; L100Q; 1

<400> 11178
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11179
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PCBP1; L100Q; 1

<400> 11179
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11180
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PCBP1; L100Q; 0

<400> 11180
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11181
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PCBP1; L100Q; 0

<400> 11181
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10

<210> 11182
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 11182
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11183
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PCBP1; L100Q; 1

<400> 11183
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11184
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PCBP1; L100Q; 0

<400> 11184
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11185
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PCBP1; L100Q; 0

<400> 11185
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11186
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PCBP1; L100Q; 0

<400> 11186
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11187
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PCBP1; L100Q; 0

<400> 11187
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11188
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; PCBP1; L100Q; 0

<400> 11188
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5                   10


<210> 11189
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PCBP1; L100Q; 0

<400> 11189
Ala Ser Arg Pro Pro Val Thr Gln Arg Leu Val
1               5                   10


<210> 11190
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTCF; K365T; 0

<400> 11190
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11191
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTCF; K365T; 0

<400> 11191
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11192
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTCF; K365T; 0

<400> 11192
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTCF; K365T; 0

<400> 11193
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11194
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*30:01; CTCF; K365T; 0

<400> 11194
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11195
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTCF; K365T; 1

<400> 11195
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11196
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTCF; K365T; 0

<400> 11196
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11197
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; CTCF; K365T; 0

<400> 11197
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11198
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTCF; K365T; 1

<400> 11198
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11199
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; CTCF; K365T; 0

<400> 11199
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11200
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CTCF; K365T; 1

<400> 11200
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11201
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTCF; K365T; 0

<400> 11201
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11202
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CTCF; K365T; 0

<400> 11202
Ala Ser Val Glu Val Ser Thr Leu

1 5

<210> 11203
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTCF; K365T; 0

<400> 11203
Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 11204
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTCF; K365T; 0

<400> 11204
Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 11205
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTCF; K365T; 0

<400> 11205
Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 11206
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTCF; K365T; 0

<400> 11206
Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 11207
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTCF; K365T; 0

<400> 11207
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11208
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; CTCF; K365T; 0

<400> 11208
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11209
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; CTCF; K365T; 1

<400> 11209
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11210
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CTCF; K365T; 1

<400> 11210
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11211

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTCF; K365T; 0

<400> 11211
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11212
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTCF; K365T; 0

<400> 11212
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11213
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; CTCF; K365T; 1

<400> 11213
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11214
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CTCF; K365T; 0

<400> 11214
Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 11215
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTCF; K365T; 1

<400> 11215
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTCF; K365T; 0

<400> 11216
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTCF; K365T; 1

<400> 11217
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTCF; K365T; 0

<400> 11218
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTCF; K365T; 0

<400> 11219
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTCF; K365T; 0

<400> 11220
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTCF; K365T; 0

<400> 11221
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 11222
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTCF; K365T; 0

<400> 11223
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTCF; K365T; 0

<400> 11224
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTCF; K365T; 0

<400> 11225
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTCF; K365T; 0

<400> 11226
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTCF; K365T; 0

<400> 11227

Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTCF; K365T; 0

<400> 11228
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTCF; K365T; 0

<400> 11229
Ala Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 11230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTCF; K365T; 1

<400> 11230
Ala Ser Val Glu Val Ser Thr Leu Lys Arg
1               5                   10


<210> 11231
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTCF; K365T; 0

<400> 11231
Ala Ser Val Glu Val Ser Thr Leu Lys Arg
1               5                   10

<210> 11232
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 11232
Ala Ser Val Glu Val Ser Thr Leu Lys Arg
1               5                   10


<210> 11233
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTCF; K365T; 0

<400> 11233
Ala Ser Val Glu Val Ser Thr Leu Lys Arg
1               5                   10


<210> 11234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; T41A; 1

<400> 11234
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; T41A; 0

<400> 11235
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5

<210> 11236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; T41A; 0

<400> 11236
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41A; 1

<400> 11237
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41A; 0

<400> 11238
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

<400> 11239
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11240
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; T41A; 1

<400> 11240
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; T41A; 0

<400> 11241
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

<400> 11242
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; T41A; 1

<400> 11243
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41A; 0

<400> 11244
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41A; 1

<400> 11245
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41A; 0

<400> 11246
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; T41A; 0

<400> 11247
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11248
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*27:05; CTNNB1; T41A; 1

<400> 11248
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; T41A; 1

<400> 11249
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41A; 0

<400> 11250
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 11251
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41A; 0

<400> 11251
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 11252
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41A; 1

<400> 11252
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 11253
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

<400> 11253
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 11254
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; T41A; 1

<400> 11254
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 11255
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; T41A; 1

<400> 11255
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 11256
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41A; 0

<400> 11256
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly

1 5 10

<210> 11257
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; T41A; 1

<400> 11257
Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 11258
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; T41A; 0

<400> 11258
Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 11259
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; T41A; 0

<400> 11259
Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 11260
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41A; 0

<400> 11260
Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 11261
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; T41A; 0

<400> 11261
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11262
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41A; 0

<400> 11262
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11263
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

<400> 11263
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11264
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

<400> 11264
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11265

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; T41A; 1

<400> 11265
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11266
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; T41A; 1

<400> 11266
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11267
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41A; 1

<400> 11267
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11268
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41A; 1

<400> 11268
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11269
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; T41A; 0

<400> 11269
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11270
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41A; 0

<400> 11270
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11271
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; T41A; 1

<400> 11271
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11272
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; T41A; 1

<400> 11272
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11273
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; CTNNB1; T41A; 1

<400> 11273
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11274
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41A; 1

<400> 11274
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11275
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41A; 1

<400> 11275
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11276
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CTNNB1; T41A; 1

<400> 11276
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11277
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41A; 1

<400> 11277
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CTNNB1; T41A; 0

<400> 11278
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11279
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; T41A; 0

<400> 11279
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11280
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; T41A; 0

<400> 11280
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11281
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 11281

Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11282
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; T41A; 1

<400> 11282
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11283
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41A; 0

<400> 11283
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11284
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; CTNNB1; T41A; 1

<400> 11284
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11285
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; CTNNB1; T41A; 1

<400> 11285
Ala Thr Ala Thr Ala Pro Ser Leu
1               5

<210> 11286
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CTNNB1; T41A; 1

<400> 11286
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11287
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; T41A; 0

<400> 11287
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11288
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41A; 0

<400> 11288
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11289
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CTNNB1; T41A; 1

<400> 11289
Ala Thr Ala Thr Ala Pro Ser Leu
1               5

<210> 11290
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; CTNNB1; T41A; 0

<400> 11290
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CTNNB1; T41A; 1

<400> 11291
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11292
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CTNNB1; T41A; 1

<400> 11292
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11293
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; CTNNB1; T41A; 0

<400> 11293
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11294
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; CTNNB1; T41A; 0

<400> 11294
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 11295
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; T41A; 1

<400> 11295
Ala Thr Ala Thr Ala Pro Ser Leu Ser
1               5


<210> 11296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41A; 1

<400> 11296
Ala Thr Ala Thr Ala Pro Ser Leu Ser
1               5


<210> 11297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41A; 0

<400> 11297
Ala Thr Ala Thr Ala Pro Ser Leu Ser
1               5


<210> 11298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

<400> 11298
Ala Thr Ala Thr Ala Pro Ser Leu Ser
1               5


<210> 11299
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; T41A; 1

<400> 11299
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11300
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41A; 1

<400> 11300
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11301
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

<400> 11301
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11302
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

<400> 11302
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11303
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41A; 1

<400> 11303
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11304
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; T41A; 1

<400> 11304
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11305
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41A; 0

<400> 11305
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11306
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41A; 1

<400> 11306
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11307
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41A; 0

<400> 11307
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11308
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

<400> 11308
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11309
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; T41A; 0

<400> 11309
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11310
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

<400> 11310
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys

1 5 10

<210> 11311
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; T41A; 1

<400> 11311
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1 5 10

<210> 11312
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41A; 0

<400> 11312
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1 5 10

<210> 11313
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41A; 1

<400> 11313
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1 5 10

<210> 11314
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41A; 0

<400> 11314
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1 5 10

<210> 11315
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; T41A; 0

<400> 11315
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11316
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; T41A; 1

<400> 11316
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11317
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; T41I; 1

<400> 11317
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11318
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; T41I; 0

<400> 11318
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11319

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; T41I; 0

<400> 11319
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11320
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41I; 0

<400> 11320
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11321
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; T41I; 0

<400> 11321
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11322
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; T41I; 0

<400> 11322
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11323
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; T41I; 0

<400> 11323
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11324
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41I; 1

<400> 11324
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11325
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41I; 0

<400> 11325
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11326
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 11326
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11327
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTNNB1; T41I; 0

<400> 11327
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11328
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; CTNNB1; T41I; 1

<400> 11328
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11329
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CTNNB1; T41I; 0

<400> 11329
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11330
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; T41I; 0

<400> 11330
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41I; 0

<400> 11331
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11332
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; T41I; 0

<400> 11332
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11333
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 11333
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11334
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 11334
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11335
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; T41I; 1

<400> 11335

Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11336
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; T41I; 1

<400> 11336
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11337
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41I; 0

<400> 11337
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11338
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41I; 1

<400> 11338
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11339
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; T41I; 0

<400> 11339
Ala Thr Ile Thr Ala Pro Ser Leu
1               5

<210> 11340
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; CTNNB1; T41I; 0

<400> 11340
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11341
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41I; 0

<400> 11341
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11342
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; T41I; 1

<400> 11342
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11343
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTNNB1; T41I; 1

<400> 11343
Ala Thr Ile Thr Ala Pro Ser Leu
1               5

<210> 11344
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; T41I; 0

<400> 11344
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11345
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; CTNNB1; T41I; 0

<400> 11345
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11346
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41I; 0

<400> 11346
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11347
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41I; 0

<400> 11347
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11348
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CTNNB1; T41I; 1

<400> 11348
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11349
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41I; 0

<400> 11349
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11350
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CTNNB1; T41I; 0

<400> 11350
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11351
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CTNNB1; T41I; 1

<400> 11351
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11352
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; T41I; 0

<400> 11352
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11353
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; T41I; 0

<400> 11353
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11354
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 11354
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11355
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; T41I; 1

<400> 11355
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11356
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*58:01; CTNNB1; T41I; 0

<400> 11356
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11357
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; CTNNB1; T41I; 0

<400> 11357
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11358
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; CTNNB1; T41I; 0

<400> 11358
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11359
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; CTNNB1; T41I; 1

<400> 11359
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11360
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CTNNB1; T41I; 1

<400> 11360
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; CTNNB1; T41I; 0

<400> 11361
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11362
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; T41I; 0

<400> 11362
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11363
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; CTNNB1; T41I; 1

<400> 11363
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11364
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41I; 0

<400> 11364
Ala Thr Ile Thr Ala Pro Ser Leu

1 5

<210> 11365
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CTNNB1; T41I; 0

<400> 11365
Ala Thr Ile Thr Ala Pro Ser Leu
1 5

<210> 11366
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; CTNNB1; T41I; 0

<400> 11366
Ala Thr Ile Thr Ala Pro Ser Leu
1 5

<210> 11367
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CTNNB1; T41I; 0

<400> 11367
Ala Thr Ile Thr Ala Pro Ser Leu
1 5

<210> 11368
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CTNNB1; T41I; 1

<400> 11368
Ala Thr Ile Thr Ala Pro Ser Leu
1 5

<210> 11369
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; CTNNB1; T41I; 0

<400> 11369
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11370
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; CTNNB1; T41I; 0

<400> 11370
Ala Thr Ile Thr Ala Pro Ser Leu
1               5


<210> 11371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 11371
Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5


<210> 11372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; T41I; 0

<400> 11372
Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5


<210> 11373

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41I; 0

<400> 11373
Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5


<210> 11374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 11374
Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5


<210> 11375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 11375
Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5


<210> 11376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; T41I; 1

<400> 11376
Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5


<210> 11377
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41I; 1

<400> 11377
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 11378
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41I; 0

<400> 11379
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11380
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 11380
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11381
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 11381
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11382
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; T41I; 1

<400> 11382
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11383
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; T41I; 0

<400> 11383
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 11384
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41I; 1

<400> 11384
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11385
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41I; 0

<400> 11385
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11386
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 11386
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11387
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; T41I; 0

<400> 11387
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11388
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41I; 0

<400> 11388
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11389
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; T41I; 0

<400> 11389

Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11390
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41I; 0

<400> 11390
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11391
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 11391
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11392
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 11392
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 11393
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; T41I; 0

<400> 11393
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10

<210> 11394
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; T41I; 1

<400> 11394
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1  5  10

<210> 11395
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41I; 0

<400> 11395
Ala Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1  5  10

<210> 11396
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; CDKN2A; H83Y; 0

<400> 11396
Ala Thr Leu Thr Arg Pro Val Tyr
1  5

<210> 11397
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; CDKN2A; H83Y; 0

<400> 11397
Ala Thr Leu Thr Arg Pro Val Tyr
1  5

<210> 11398
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CDKN2A; H83Y; 0

<400> 11398
Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 11399
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CDKN2A; H83Y; 0

<400> 11399
Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 11400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CDKN2A; H83Y; 0

<400> 11400
Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 11401
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CDKN2A; H83Y; 0

<400> 11401
Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 11402
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; S45F; 0

<400> 11402
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11403
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; S45F; 0

<400> 11403
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11404
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45F; 0

<400> 11404
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11405
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 11405
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11406
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTNNB1; S45F; 0

<400> 11406
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11407
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45F; 0

<400> 11407
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11408
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45F; 0

<400> 11408
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11409
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

<400> 11409
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11410
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*07:02; CTNNB1; S45F; 1

<400> 11410
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11411
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S45F; 0

<400> 11411
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11412
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S45F; 1

<400> 11412
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11413
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S45F; 0

<400> 11413
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11414
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; S45F; 0

<400> 11414
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11415
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S45F; 0

<400> 11415
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11416
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; S45F; 0

<400> 11416
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11417
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; S45F; 0

<400> 11417
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11418
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S45F; 0

<400> 11418
Ala Thr Thr Thr Ala Pro Phe Leu

1 5

<210> 11419
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; S45F; 1

<400> 11419
Ala Thr Thr Thr Ala Pro Phe Leu
1 5

<210> 11420
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45F; 0

<400> 11420
Ala Thr Thr Thr Ala Pro Phe Leu
1 5

<210> 11421
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; CTNNB1; S45F; 1

<400> 11421
Ala Thr Thr Thr Ala Pro Phe Leu
1 5

<210> 11422
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CTNNB1; S45F; 1

<400> 11422
Ala Thr Thr Thr Ala Pro Phe Leu
1 5

<210> 11423
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; S45F; 0

<400> 11423
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11424
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S45F; 0

<400> 11424
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11425
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; CTNNB1; S45F; 0

<400> 11425
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11426
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CTNNB1; S45F; 0

<400> 11426
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11427

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CTNNB1; S45F; 0

<400> 11427
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11428
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; CTNNB1; S45F; 0

<400> 11428
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11429
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; CTNNB1; S45F; 0

<400> 11429
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 11430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 11430
Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5


<210> 11431
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45F; 0

<400> 11431
Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5


<210> 11432
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

<400> 11432
Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5


<210> 11433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; S45F; 0

<400> 11433
Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5


<210> 11434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45F; 0

<400> 11434
Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5


<210> 11435
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 11435
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5                   10


<210> 11436
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45F; 1

<400> 11436
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 11437
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45F; 0

<400> 11437
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 11438
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 11438
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 11439
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45F; 0

<400> 11439
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 11440
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45F; 0

<400> 11440
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 11441
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

<400> 11441
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 11442
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; S45F; 0

<400> 11442
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 11443
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 11443

Ala Thr Thr Thr Ala Pro Pro Leu
1 5

<210> 11444
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45P; 1

<400> 11444
Ala Thr Thr Thr Ala Pro Pro Leu
1 5

<210> 11445
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; S45P; 1

<400> 11445
Ala Thr Thr Thr Ala Pro Pro Leu
1 5

<210> 11446
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S45P; 1

<400> 11446
Ala Thr Thr Thr Ala Pro Pro Leu
1 5

<210> 11447
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S45P; 1

<400> 11447
Ala Thr Thr Thr Ala Pro Pro Leu
1 5

<210> 11448
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S45P; 0

<400> 11448
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11449
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S45P; 1

<400> 11449
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11450
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S45P; 0

<400> 11450
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11451
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; S45P; 0

<400> 11451
Ala Thr Thr Thr Ala Pro Pro Leu
1               5

<210> 11452
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CTNNB1; S45P; 0

<400> 11452
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11453
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; S45P; 0

<400> 11453
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11454
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S45P; 0

<400> 11454
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11455
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45P; 0

<400> 11455
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11456
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; CTNNB1; S45P; 1

<400> 11456
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11457
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; CTNNB1; S45P; 1

<400> 11457
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11458
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CTNNB1; S45P; 1

<400> 11458
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11459
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; S45P; 0

<400> 11459
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11460
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S45P; 0

<400> 11460
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11461
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CTNNB1; S45P; 0

<400> 11461
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11462
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; CTNNB1; S45P; 0

<400> 11462
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11463
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CTNNB1; S45P; 1

<400> 11463
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11464
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*16:02; CTNNB1; S45P; 0

<400> 11464
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 11465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 11465
Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5


<210> 11466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45P; 1

<400> 11466
Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5


<210> 11467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S45P; 1

<400> 11467
Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5


<210> 11468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S45P; 0

<400> 11468
Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5


<210> 11469
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45P; 0

<400> 11469
Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5


<210> 11470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S45P; 0

<400> 11470
Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5


<210> 11471
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 11471
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly
1               5                   10


<210> 11472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45P; 1

<400> 11472
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly

1 5 10

<210> 11473
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45P; 1

<400> 11473
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1 5 10

<210> 11474
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45P; 0

<400> 11474
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1 5 10

<210> 11475
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 11475
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1 5 10

<210> 11476
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45P; 1

<400> 11476
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1 5 10

<210> 11477
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

<400> 11477
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 11478
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45P; 0

<400> 11478
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 11479
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; S45P; 0

<400> 11479
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 11480
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; V344M; 1

<400> 11480
Ala Thr Tyr Met Asn Leu Asn Ile Arg
1               5


<210> 11481

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; V344M; 1

<400> 11481
Ala Thr Tyr Met Asn Leu Asn Ile Arg
1               5


<210> 11482
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; V344M; 0

<400> 11482
Ala Thr Tyr Met Asn Leu Asn Ile Arg
1               5


<210> 11483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; V344M; 0

<400> 11483
Ala Thr Tyr Met Asn Leu Asn Ile Arg
1               5


<210> 11484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; V344M; 0

<400> 11484
Ala Thr Tyr Met Asn Leu Asn Ile Arg
1               5


<210> 11485
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; N345K; 1

<400> 11485
Ala Thr Tyr Val Lys Leu Asn Ile Arg
1               5


<210> 11486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; N345K; 1

<400> 11486
Ala Thr Tyr Val Lys Leu Asn Ile Arg
1               5


<210> 11487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; N345K; 0

<400> 11487
Ala Thr Tyr Val Lys Leu Asn Ile Arg
1               5


<210> 11488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; N345K; 0

<400> 11488
Ala Thr Tyr Val Lys Leu Asn Ile Arg
1               5


<210> 11489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KEAP1; G480W; 0

<400> 11489
Ala Val Gly Gly Phe Asp Trp Thr Asn Arg
1               5                   10


<210> 11490
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; KEAP1; G480W; 0

<400> 11490
Ala Val Gly Gly Phe Asp Trp Thr Asn Arg
1               5                   10


<210> 11491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12V; 1

<400> 11491
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12V; 1

<400> 11492
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11493
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KRAS; G12V; 1

<400> 11493
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12V; 0

<400> 11494
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; KRAS; G12V; 1

<400> 11495
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11496
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; ARID2; S297F; 0

<400> 11496
Ala Val Ile Leu Arg Asn Leu Phe Phe
1               5


<210> 11497
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; A159V; 0

<400> 11497

Ala Val Lys Tyr Leu Glu Cys Ser Val
1 5

<210> 11498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; RAC1; A159V; 0

<400> 11498
Ala Val Lys Tyr Leu Glu Cys Ser Val
1 5

<210> 11499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; A159V; 0

<400> 11499
Ala Val Lys Tyr Leu Glu Cys Ser Val
1 5

<210> 11500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; RAC1; A159V; 0

<400> 11500
Ala Val Lys Tyr Leu Glu Cys Ser Val
1 5

<210> 11501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; MTOR; E1799K; 0

<400> 11501
Ala Val Met Asn Phe Lys Ala Val Leu
1 5

<210> 11502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; MTOR; E1799K; 1

<400> 11502
Ala Val Met Asn Phe Lys Ala Val Leu
1               5


<210> 11503
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; MTOR; E1799K; 1

<400> 11503
Ala Val Met Asn Phe Lys Ala Val Leu
1               5


<210> 11504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; MTOR; E1799K; 1

<400> 11504
Ala Val Met Asn Phe Lys Ala Val Leu
1               5


<210> 11505
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MTOR; E1799K; 1

<400> 11505
Ala Val Met Asn Phe Lys Ala Val Leu His
1               5                   10

<210> 11506
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MTOR; E1799K; 0

<400> 11506
Ala Val Met Asn Phe Lys Ala Val Leu His
1               5                   10


<210> 11507
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MTOR; E1799K; 1

<400> 11507
Ala Val Met Asn Phe Lys Ala Val Leu His Tyr
1               5                   10


<210> 11508
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; MTOR; E1799K; 1

<400> 11508
Ala Val Met Asn Phe Lys Ala Val Leu His Tyr
1               5                   10


<210> 11509
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; MTOR; E1799K; 1

<400> 11509
Ala Val Met Asn Phe Lys Ala Val Leu His Tyr
1               5                   10


<210> 11510
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; ROBO2; D1014N; 0

<400> 11510
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; ROBO2; D1014N; 0

<400> 11511
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; ROBO2; D1014N; 1

<400> 11512
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; ROBO2; D1014N; 0

<400> 11513
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; ROBO2; D1014N; 0

<400> 11514
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; ROBO2; D1014N; 0

<400> 11515
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; ROBO2; D1014N; 0

<400> 11516
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; ROBO2; D1014N; 0

<400> 11517
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11518
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*58:01; ROBO2; D1014N; 0

<400> 11518
Ala Val Asn Leu Pro Asp Pro Gln Trp
1               5


<210> 11519
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; ROBO2; D1014N; 0

<400> 11519
Ala Val Asn Leu Pro Asp Pro Gln Trp Lys
1               5                   10


<210> 11520
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; ROBO2; D1014N; 1

<400> 11520
Ala Val Asn Leu Pro Asp Pro Gln Trp Lys
1               5                   10


<210> 11521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CNTNAP2; R483Q; 1

<400> 11521
Ala Val Gln Thr Asn Ser Pro Leu Gln
1               5


<210> 11522
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CNTNAP2; R483Q; 0

<400> 11522
Ala Val Gln Thr Asn Ser Pro Leu Gln Val
1               5                   10


<210> 11523
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CNTNAP2; R483Q; 0

<400> 11523
Ala Val Gln Thr Asn Ser Pro Leu Gln Val
1               5                   10


<210> 11524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CNTNAP2; R483Q; 0

<400> 11524
Ala Val Gln Thr Asn Ser Pro Leu Gln Val
1               5                   10


<210> 11525
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNTNAP2; R483Q; 1

<400> 11525
Ala Val Gln Thr Asn Ser Pro Leu Gln Val Lys
1               5                   10


<210> 11526
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CNTNAP2; R483Q; 0

<400> 11526
Ala Val Gln Thr Asn Ser Pro Leu Gln Val Lys

1 5 10

<210> 11527
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CNTNAP2; R483Q; 1

<400> 11527
Ala Val Gln Thr Asn Ser Pro Leu Gln Val Lys
1 5 10

<210> 11528
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CNTNAP2; R483Q; 0

<400> 11528
Ala Val Gln Thr Asn Ser Pro Leu Gln Val Lys
1 5 10

<210> 11529
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CNTNAP2; R483Q; 0

<400> 11529
Ala Val Gln Thr Asn Ser Pro Leu Gln Val Lys
1 5 10

<210> 11530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PTK6; H126P; 0

<400> 11530
Ala Val Arg Pro Tyr Lys Ile Trp Arg
1 5

<210> 11531
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PTK6; H126P; 0

<400> 11531
Ala Val Arg Pro Tyr Lys Ile Trp Arg Arg
1               5                   10


<210> 11532
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; EGFR; G598V; 0

<400> 11532
Ala Val Val Met Gly Glu Asn Asn Thr Leu
1               5                   10


<210> 11533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; EGFR; G598V; 0

<400> 11533
Ala Val Val Met Gly Glu Asn Asn Thr Leu
1               5                   10


<210> 11534
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; EGFR; G598V; 0

<400> 11534
Ala Val Val Met Gly Glu Asn Asn Thr Leu
1               5                   10


<210> 11535

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; H1047Y; 0

<400> 11535
Ala Tyr His Gly Gly Trp Thr Thr Lys
1               5


<210> 11536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; H1047Y; 0

<400> 11536
Ala Tyr His Gly Gly Trp Thr Thr Lys
1               5


<210> 11537
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; PIK3CA; H1047Y; 0

<400> 11537
Ala Tyr His Gly Gly Trp Thr Thr Lys Met
1               5                   10


<210> 11538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3CA; N345K; 0

<400> 11538
Cys Ala Thr Tyr Val Lys Leu Asn Ile
1               5


<210> 11539
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PIK3CA; N345K; 1

<400> 11539
Cys Ala Thr Tyr Val Lys Leu Asn Ile
1               5


<210> 11540
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTCF; K365T; 0

<400> 11540
Cys Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 11541
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTCF; K365T; 0

<400> 11541
Cys Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 11542
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTCF; K365T; 0

<400> 11542
Cys Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 11543
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; R38C; 0

<400> 11543
Cys Glu Ala Thr Leu Val Thr Ile
1               5


<210> 11544
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PIK3CA; R38C; 0

<400> 11544
Cys Glu Ala Thr Leu Val Thr Ile
1               5


<210> 11545
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; R38C; 0

<400> 11545
Cys Glu Ala Thr Leu Val Thr Ile
1               5


<210> 11546
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; R38C; 0

<400> 11546
Cys Glu Ala Thr Leu Val Thr Ile
1               5


<210> 11547
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; R38C; 0

<400> 11547
Cys Glu Ala Thr Leu Val Thr Ile
1               5


<210> 11548
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; R38C; 0

<400> 11548
Cys Glu Ala Thr Leu Val Thr Ile
1               5


<210> 11549
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; R38C; 0

<400> 11549
Cys Glu Ala Thr Leu Val Thr Ile Lys
1               5


<210> 11550
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; SIRPA; V233I; 0

<400> 11550
Cys Glu Val Ala His Ile Thr Leu
1               5


<210> 11551
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; SIRPA; V233I; 0

<400> 11551

Cys Glu Val Ala His Ile Thr Leu
1 5

<210> 11552
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; SIRPA; V233I; 0

<400> 11552
Cys Glu Val Ala His Ile Thr Leu
1 5

<210> 11553
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; SIRPA; V233I; 0

<400> 11553
Cys Glu Val Ala His Ile Thr Leu
1 5

<210> 11554
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SIRPA; V233I; 0

<400> 11554
Cys Glu Val Ala His Ile Thr Leu
1 5

<210> 11555
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; SIRPA; V233I; 0

<400> 11555
Cys Glu Val Ala His Ile Thr Leu
1 5

<210> 11556
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SIRPA; V233I; 0

<400> 11556
Cys Glu Val Ala His Ile Thr Leu
1               5


<210> 11557
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; SIRPA; V233I; 0

<400> 11557
Cys Glu Val Ala His Ile Thr Leu
1               5


<210> 11558
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S33C; 1

<400> 11558
Cys Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 11559
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12C; 1

<400> 11559
Cys Gly Val Gly Lys Ser Ala Leu
1               5

<210> 11560
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; NRAS; G12C; 1

<400> 11560
Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11561
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; NRAS; G12C; 0

<400> 11561
Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 11562
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CSMD3; R1529H; 0

<400> 11562
Cys His Asp Pro Gly Val Pro Met
1               5


<210> 11563
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; GNAS; R201H; 0

<400> 11563
Cys His Val Leu Thr Ser Gly Ile
1               5


<210> 11564
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; CCND1; T286I; 0

<400> 11564
Cys Ile Pro Thr Asp Val Arg Asp Val
1               5


<210> 11565
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; ATM; R2691C; 1

<400> 11565
Cys Leu Ala Gly Gly Val Asn Leu Pro Lys
1               5                   10


<210> 11566
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; ATM; R2691C; 0

<400> 11566
Cys Leu Ala Gly Gly Val Asn Leu Pro Lys
1               5                   10


<210> 11567
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; ATM; R2691C; 0

<400> 11567
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1               5                   10


<210> 11568
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; ATM; R2691C; 0

<400> 11568
Cys Leu Ala Gly Gly Val Asn Leu Pro Lys
1               5                   10


<210> 11569
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; TP53; Y205C; 1

<400> 11569
Cys Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 11570
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; TP53; Y205C; 0

<400> 11570
Cys Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 11571
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PIK3CA; R38H; 0

<400> 11571
Cys Leu His Glu Ala Thr Leu Val
1               5


<210> 11572
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:01; PIK3CA; R38H; 1

<400> 11572
Cys Leu His Glu Ala Thr Leu Val Thr Ile
1               5                   10


<210> 11573
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; R38H; 0

<400> 11573
Cys Leu His Glu Ala Thr Leu Val Thr Ile
1               5                   10


<210> 11574
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; R38H; 0

<400> 11574
Cys Leu His Glu Ala Thr Leu Val Thr Ile
1               5                   10


<210> 11575
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; HRAS; Q61K; 0

<400> 11575
Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Lys
1               5                   10


<210> 11576
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; Q61K; 0

<400> 11576
Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Lys
1 5 10

<210> 11577
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; KRAS; Q61L; 0

<400> 11577
Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Leu
1 5 10

<210> 11578
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; NRAS; Q61L; 0

<400> 11578
Cys Leu Leu Asp Ile Leu Asp Thr Ala Gly Leu
1 5 10

<210> 11579
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTPRC; Q895H; 1

<400> 11579
Cys Leu Met Val His Val Glu Ala Gln Tyr
1 5 10

<210> 11580
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; N387K; 0

<400> 11580
Cys Leu Trp Thr Leu Arg Lys Leu

1 5

<210> 11581
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; SF3B1; R625C; 0

<400> 11581
Cys Asn Thr Thr Ala Arg Ala Phe
1 5

<210> 11582
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; SMAD4; G352V; 0

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Cys Pro Ile Val Thr Val Asp Val
1 5

<210> 11583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SMAD4; G352V; 0

<400> 11583
Cys Pro Ile Val Thr Val Asp Val Tyr
1 5

<210> 11584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SMAD4; G352V; 0

<400> 11584
Cys Pro Ile Val Thr Val Asp Val Tyr
1 5

<210> 11585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SMAD4; G352V; 1

<400> 11585
Cys Pro Ile Val Thr Val Asp Val Tyr
1               5


<210> 11586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SMAD4; G352V; 0

<400> 11586
Cys Pro Ile Val Thr Val Asp Val Tyr
1               5


<210> 11587
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:08; SMAD4; G352V; 0

<400> 11587
Cys Pro Ile Val Thr Val Asp Val Tyr
1               5


<210> 11588
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; TP53; C141Y; 1

<400> 11588
Cys Gln Leu Ala Lys Thr Tyr Pro Val
1               5


<210> 11589

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; C141Y; 0

<400> 11589
Cys Gln Leu Ala Lys Thr Tyr Pro Val
1               5


<210> 11590
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; TP53; C141Y; 0

<400> 11590
Cys Gln Leu Ala Lys Thr Tyr Pro Val
1               5


<210> 11591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP63; R379C; 1

<400> 11591
Cys Gln Asn Thr His Gly Ile Gln Met
1               5


<210> 11592
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PPP2R1A; R183W; 1

<400> 11592
Cys Ser Asp Asp Thr Pro Met Val Arg Trp
1               5                   10


<210> 11593
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PPP2R1A; R183W; 1

<400> 11593
Cys Ser Asp Asp Thr Pro Met Val Arg Trp
1               5                   10


<210> 11594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PPP2R1A; R183W; 0

<400> 11594
Cys Ser Asp Asp Thr Pro Met Val Arg Trp
1               5                   10


<210> 11595
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PPP2R1A; R183W; 0

<400> 11595
Cys Ser Asp Asp Thr Pro Met Val Arg Trp
1               5                   10


<210> 11596
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; PPP2R1A; P179R; 1

<400> 11596
Cys Ser Asp Asp Thr Arg Met Val
1               5


<210> 11597
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; PPP2R1A; P179R; 1

<400> 11597
Cys Ser Asp Asp Thr Arg Met Val
1               5


<210> 11598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PPP2R1A; P179R; 1

<400> 11598
Cys Ser Asp Asp Thr Arg Met Val Arg
1               5


<210> 11599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PPP2R1A; P179R; 1

<400> 11599
Cys Ser Asp Asp Thr Arg Met Val Arg
1               5


<210> 11600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PPP2R1A; P179R; 1

<400> 11600
Cys Ser Asp Asp Thr Arg Met Val Arg
1               5


<210> 11601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PPP2R1A; P179R; 0

<400> 11601
Cys Ser Asp Asp Thr Arg Met Val Arg
1               5


<210> 11602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ISX; R86C; 0

<400> 11602
Cys Thr Thr Phe Thr Thr Glu Gln Leu
1               5


<210> 11603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ISX; R86C; 0

<400> 11603
Cys Thr Thr Phe Thr Thr Glu Gln Leu
1               5


<210> 11604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; ISX; R86C; 0

<400> 11604
Cys Thr Thr Phe Thr Thr Glu Gln Leu
1               5


<210> 11605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; ISX; R86C; 0

<400> 11605

Cys Thr Thr Phe Thr Thr Glu Gln Leu
1 5

<210> 11606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; ISX; R86C; 0

<400> 11606
Cys Thr Thr Phe Thr Thr Glu Gln Leu
1 5

<210> 11607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; ISX; R86C; 0

<400> 11607
Cys Thr Thr Phe Thr Thr Glu Gln Leu
1 5

<210> 11608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; M237I; 0

<400> 11608
Cys Thr Thr Ile His Tyr Asn Tyr Ile
1 5

<210> 11609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; RGS7; R44C; 1

<400> 11609
Cys Thr Val Lys Ser Phe Leu Ser Lys
1 5

<210> 11610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; RGS7; R44C; 1

<400> 11610
Cys Thr Val Lys Ser Phe Leu Ser Lys
1               5


<210> 11611
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; S127F; 1

<400> 11611
Cys Thr Tyr Phe Pro Ala Leu Asn Lys
1               5


<210> 11612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; TP53; S127F; 0

<400> 11612
Cys Thr Tyr Phe Pro Ala Leu Asn Lys
1               5


<210> 11613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; S127F; 0

<400> 11613
Cys Thr Tyr Phe Pro Ala Leu Asn Lys
1               5

<210> 11614
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; L130F; 1

<400> 11614
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 11615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; TP53; L130F; 0

<400> 11615
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 11616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; L130F; 0

<400> 11616
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 11617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; L130F; 0

<400> 11617
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 11618
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; L130F; 0

<400> 11618
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 11619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; L130F; 0

<400> 11619
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 11620
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; L130F; 1

<400> 11620
Cys Thr Tyr Ser Pro Ala Phe Asn Lys Met
1               5                   10


<210> 11621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; K132R; 1

<400> 11621
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; TP53; K132R; 0

<400> 11622
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11623
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; K132R; 0

<400> 11623
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; TP53; K132R; 0

<400> 11624
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; K132R; 0

<400> 11625
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11626
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*33:01; TP53; K132R; 0

<400> 11626
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; K132R; 0

<400> 11627
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; K132R; 0

<400> 11628
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 11629
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; RHOA; Y42C; 0

<400> 11629
Cys Val Ala Asp Ile Glu Val Asp Gly Lys
1               5                   10


<210> 11630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; RHOA; Y42C; 1

<400> 11630
Cys Val Ala Asp Ile Glu Val Asp Gly Lys
1               5                   10


<210> 11631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; RHOA; Y42C; 0

<400> 11631
Cys Val Ala Asp Ile Glu Val Asp Gly Lys
1               5                   10


<210> 11632
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RHOA; Y42C; 0

<400> 11632
Cys Val Ala Asp Ile Glu Val Asp Gly Lys
1               5                   10


<210> 11633
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RHOA; Y42C; 0

<400> 11633
Cys Val Ala Asp Ile Glu Val Asp Gly Lys
1               5                   10


<210> 11634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G13C; 0

<400> 11634
Cys Val Gly Lys Ser Ala Leu Thr Ile

1 5

<210> 11635
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; GNAS; R201C; 1

<400> 11635
Cys Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1 5 10

<210> 11636
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; GNAS; R201C; 0

<400> 11636
Cys Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1 5 10

<210> 11637
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; GNAS; R201C; 0

<400> 11637
Cys Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1 5 10

<210> 11638
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; GNAS; R201C; 0

<400> 11638
Cys Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1 5 10

<210> 11639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; FKBP9; R107H; 1

<400> 11639
Cys Val Asn Glu Arg His Phe Val Lys
1               5


<210> 11640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; FKBP9; R107H; 0

<400> 11640
Cys Val Asn Glu Arg His Phe Val Lys
1               5


<210> 11641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; FKBP9; R107H; 1

<400> 11641
Cys Val Asn Glu Arg His Phe Val Lys
1               5


<210> 11642
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; DICER1; S1344L; 0

<400> 11642
Asp Ala His Glu Gly Arg Leu Leu
1               5


<210> 11643

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; DICER1; S1344L; 1

<400> 11643
Asp Ala His Glu Gly Arg Leu Leu
1               5


<210> 11644
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; DICER1; S1344L; 1

<400> 11644
Asp Ala His Glu Gly Arg Leu Leu
1               5


<210> 11645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; DICER1; S1344L; 0

<400> 11645
Asp Ala His Glu Gly Arg Leu Leu
1               5


<210> 11646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; DICER1; S1344L; 0

<400> 11646
Asp Ala His Glu Gly Arg Leu Leu Tyr
1               5


<210> 11647
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; DICER1; S1344L; 0

<400> 11647
Asp Ala His Glu Gly Arg Leu Leu Tyr
1               5


<210> 11648
<211> 9
<212> PRT
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<220>
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<223> Table A; HLA-B*35:08; DICER1; S1344L; 0

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<220>
<223> Table A; HLA-C*08:01; DICER1; S1344L; 0

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<220>
<223> Table A; HLA-B*51:01; DICER1; S1344L; 1

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<220>
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<220>
<223> Table A; HLA-A*33:01; PIK3CA; H1047L; 0

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<220>
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<210> 11661
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<220>
<223> Table A; HLA-A*33:01; EZH2; E745K; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; EZH2; E745K; 0

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<220>
<223> Table A; HLA-A*68:01; EZH2; E745K; 0

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<220>
<223> Table A; HLA-A*33:01; PIK3CA; H1047Q; 0

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<223> Table A; HLA-B*51:01; CDKN2A; P114L; 1

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<220>
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<220>
<223> Table A; HLA-B*51:01; PIK3CA; H1047Y; 0

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<220>
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<220>
<223> Table A; HLA-A*03:01; PIK3CA; H1047Y; 1

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<220>
<223> Table A; HLA-A*33:01; PIK3CA; H1047Y; 0

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<220>
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<212> PRT
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<220>
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<220>
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<223> Table A; HLA-A*26:01; TP53; Y234C; 0

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<220>
<223> Table A; HLA-A*33:01; TP53; R213Q; 0

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<210> 11679
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<223> Table A; HLA-A*33:01; TP53; H214R; 0

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<220>
<223> Table A; HLA-B*18:01; PPP2R1A; R183W; 1

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<220>
<223> Table A; HLA-B*44:03; PPP2R1A; R183W; 1

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<220>
<223> Table A; HLA-B*44:05; PPP2R1A; R183W; 0

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<210> 11686
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<220>
<223> Table A; HLA-A*33:03; PPP2R1A; P179R; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CB; E1051K; 0

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<212> PRT
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<223> Table A; HLA-B*18:01; CNTNAP2; R483Q; 1

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<210> 11689
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; NFE2L2; T80P; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; RGS7; R44C; 1

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<210> 11691
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; RGS7; R44C; 0

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<210> 11692
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:06; RGS7; R44C; 0

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<210> 11693
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<220>
<223> Table A; HLA-B*41:02; RGS7; R44C; 0

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<210> 11694
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; RGS7; R44C; 0

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<210> 11695
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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; SF3B1; K700E; 0

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<210> 11696
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; SF3B1; K700E; 0

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<210> 11697

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; SF3B1; K700E; 0

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<210> 11698
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; SF3B1; K700E; 1

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<210> 11699
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SF3B1; K700E; 0

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<210> 11701
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; SF3B1; K700E; 1

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<210> 11702
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*41:02; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*44:02; SF3B1; K700E; 1

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<210> 11705
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<220>
<223> Table A; HLA-B*44:03; SF3B1; K700E; 1

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<220>
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; SF3B1; K700E; 1

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<220>
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<210> 11710
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<212> PRT
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<220>
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<210> 11711
<211> 8
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<223> Table A; HLA-B*18:01; PIK3CA; R88Q; 1

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<210> 11713
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<212> PRT
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<223> Table A; HLA-B*18:01; SF3B1; R625C; 0

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<210> 11714
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<212> PRT
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<223> Table A; HLA-A*02:05; SF3B1; R625C; 0

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<212> PRT
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<223> Table A; HLA-B*18:01; SF3B1; R625C; 0

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<223> Table A; HLA-B*39:06; SF3B1; R625C; 0

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<220>
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<223> Table A; HLA-B*50:01; SF3B1; R625C; 0

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<210> 11721
<211> 8
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<220>
<223> Table A; HLA-B*08:01; SF3B1; R625H; 1

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<210> 11722
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:01; SF3B1; R625H; 0

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<210> 11723
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; SF3B1; R625H; 0

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<210> 11724
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<212> PRT
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<223> Table A; HLA-B*18:01; SF3B1; R625H; 0

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<210> 11725
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<223> Table A; HLA-B*39:06; SF3B1; R625H; 0

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<210> 11726
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; SF3B1; R625H; 0

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<210> 11727
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<220>
<223> Table A; HLA-A*02:05; SF3B1; R625H; 0

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<210> 11728
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; SF3B1; R625H; 0

<400> 11728
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<210> 11729
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; SF3B1; R625H; 0

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<210> 11730
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<220>
<223> Table A; HLA-A*30:01; SF3B1; R625H; 0

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<210> 11731
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; SF3B1; R625H; 1

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<210> 11732
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<212> PRT
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<220>
<223> Table A; HLA-B*14:01; SF3B1; R625H; 0

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<210> 11733
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; SF3B1; R625H; 0

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<210> 11734
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<223> Table A; HLA-B*15:02; SF3B1; R625H; 0

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<210> 11735
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<212> PRT
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<223> Table A; HLA-B*18:01; SF3B1; R625H; 0

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<210> 11736
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<220>
<223> Table A; HLA-B*37:01; SF3B1; R625H; 0

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<210> 11737
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; R625H; 0

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<210> 11738
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; SF3B1; R625H; 0

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<210> 11739
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; SF3B1; R625H; 0

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<210> 11740
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; SF3B1; R625H; 0

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<210> 11741
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; SF3B1; R625H; 0

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<210> 11742
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; R625H; 0

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<210> 11743
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; SF3B1; R625H; 0

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<210> 11744
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; SF3B1; R625H; 0

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<210> 11745
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; SF3B1; R625H; 0

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<210> 11746
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R625H; 0

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<210> 11747
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; SF3B1; R625H; 0

<400> 11747
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<210> 11748
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SF3B1; R625H; 0

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<210> 11749
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; SF3B1; R625H; 0

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<210> 11750
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<220>
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<210> 11751

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<220>
<223> Table A; HLA-B*27:02; SF3B1; R625H; 0

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Asp Glu Tyr Val His Asn Thr Thr Ala Arg
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; PIK3CA; D939G; 0

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<210> 11753
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S33F; 0

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<210> 11754
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S33F; 0

<400> 11754
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<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

<400> 11755
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<210> 11756
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33F; 0

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<210> 11757
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

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<210> 11758
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33F; 0

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<210> 11759
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; EGFR; L861Q; 1

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<210> 11760
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; KNSTRN; S24F; 0

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<210> 11761
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; KNSTRN; S24F; 1

<400> 11761
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<210> 11762
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<212> PRT
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<220>
<223> Table A; HLA-A*29:01; KNSTRN; S24F; 0

<400> 11762
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<210> 11763
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*29:02; KNSTRN; S24F; 1

<400> 11763
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<210> 11764
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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; KNSTRN; S24F; 0

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<210> 11765
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; KNSTRN; S24F; 0

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<210> 11766
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; KNSTRN; S24F; 1

<400> 11766
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<210> 11767
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; KNSTRN; S24F; 1

<400> 11767

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<210> 11768
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; KNSTRN; S24F; 0

<400> 11768
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<210> 11769
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<220>
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<400> 11769
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<220>
<223> Table A; HLA-C*14:02; KNSTRN; S24F; 0

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<210> 11771
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<212> PRT
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<220>
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<210> 11772
<211> 10
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<220>
<223> Table A; HLA-A*33:03; KNSTRN; S24F; 0

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<210> 11773
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; NFE2L2; E82D; 0

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<210> 11774
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<220>
<223> Table A; HLA-B*35:03; TPR; S2155L; 0

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<210> 11775
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TPR; S2155L; 0

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<210> 11776
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; CREB3L1; V414I; 0

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<210> 11777
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<220>
<223> Table A; HLA-A*26:02; CREB3L1; V414I; 0

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<210> 11778
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CREB3L1; V414I; 0

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<210> 11779
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; CREB3L1; V414I; 0

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<210> 11780
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; CREB3L1; V414I; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; CREB3L1; V414I; 0

<400> 11781
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<210> 11782
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CREB3L1; V414I; 0

<400> 11782
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<210> 11783
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; I195N; 0

<400> 11783
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<210> 11784
<211> 11
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<220>
<223> Table A; HLA-A*33:03; TP53; I195N; 0

<400> 11784
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<210> 11785
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; I195T; 0

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<210> 11786
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; I195T; 0

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<210> 11787
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; TP53; I195T; 0

<400> 11787
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<210> 11788
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<220>

<223> Table A; HLA-A*33:01; TP53; L194R; 0

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<210> 11789
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; L194R; 0

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<210> 11790
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; TP53; L194R; 0

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<210> 11791
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; L194R; 1

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Asp Gly Leu Ala Pro Pro Gln His Arg Ile
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<210> 11792
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TP53; L194R; 0

<400> 11792
Asp Gly Leu Ala Pro Pro Gln His Arg Ile Arg
1               5                   10


<210> 11793
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; H193L; 0

<400> 11793
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<210> 11794
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; H193L; 0

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<210> 11795
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; H193L; 0

<400> 11795
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1               5


<210> 11796
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; H193L; 0

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1 5 10

<210> 11797
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; H193L; 0

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<210> 11798
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; H193R; 0

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Asp Gly Leu Ala Pro Pro Gln Arg Leu
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<210> 11799
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; H193R; 0

<400> 11799
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<210> 11800
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; H193R; 0

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<210> 11801
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; H193Y; 0

<400> 11801
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 11802
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*18:01; TP53; H193Y; 0

<400> 11802
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 11803
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; TP53; H193Y; 0

<400> 11803
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<210> 11804
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; TP53; H193Y; 0

<400> 11804
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 11805

<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; H193Y; 0

<400> 11805
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 11806
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; H193Y; 0

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1               5                   10


<210> 11807
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; PTPRT; E324K; 1

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1               5


<210> 11808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PTPRT; E324K; 1

<400> 11808
Asp Gly Pro Ile Ile Leu Lys Lys Val
1               5


<210> 11809
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; EP300; A1629V; 0

<400> 11809
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1               5


<210> 11810
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; EP300; A1629V; 1

<400> 11810
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1               5


<210> 11811
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; KRAS; G12D; 1

<400> 11811
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<210> 11812
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:01; KRAS; G12D; 1

<400> 11812
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1               5


<210> 11813
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; KRAS; G12D; 1

<400> 11813
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1               5


<210> 11814
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; NRAS; G12D; 1

<400> 11814
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1               5


<210> 11815
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; NRAS; G12D; 1

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1               5


<210> 11816
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:01; NRAS; G12D; 0

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1               5


<210> 11817
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; NRAS; G12D; 0

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1               5


<210> 11818
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; NRAS; G12D; 0

<400> 11818
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1               5


<210> 11819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; NRAS; G12D; 0

<400> 11819
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1               5


<210> 11820
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; KRAS; G12D; 1

<400> 11820
Asp Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 11821
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; NRAS; G12D; 0

<400> 11821

Asp Gly Val Gly Lys Ser Ala Leu Thr Ile
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<210> 11822
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CNTNAP2; E149K; 1

<400> 11822
Asp Gly Val Val Arg His Lys Leu
1 5

<210> 11823
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; CNTNAP2; E149K; 0

<400> 11823
Asp Gly Val Val Arg His Lys Leu
1 5

<210> 11824
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TGFBR2; R528C; 0

<400> 11824
Asp His Asp Pro Glu Ala Cys Leu
1 5

<210> 11825
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; TGFBR2; R528C; 0

<400> 11825
Asp His Asp Pro Glu Ala Cys Leu
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<210> 11826
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; TGFBR2; R528C; 0

<400> 11826
Asp His Asp Pro Glu Ala Cys Leu
1               5


<210> 11827
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; TGFBR2; R528C; 0

<400> 11827
Asp His Asp Pro Glu Ala Cys Leu
1               5


<210> 11828
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TGFBR2; R528C; 0

<400> 11828
Asp His Asp Pro Glu Ala Cys Leu
1               5


<210> 11829
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SMAD4; R361H; 0

<400> 11829
Asp His Phe Cys Leu Gly Gln Leu
1               5

<210> 11830
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PLCG1; R1275Q; 0

<400> 11830
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1               5                   10


<210> 11831
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; NFE2L2; R34G; 0

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1               5                   10


<210> 11832
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; NFE2L2; R34G; 0

<400> 11832
Asp Ile Asp Leu Gly Val Ser Gly Glu Val Phe
1               5                   10


<210> 11833
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<212> PRT
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<220>
<223> Table A; HLA-B*35:12; NFE2L2; R34G; 0

<400> 11833
Asp Ile Asp Leu Gly Val Ser Gly Glu Val Phe
1               5                   10


<210> 11834
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; NFE2L2; R34G; 0

<400> 11834
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1               5                   10


<210> 11835
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; NFE2L2; R34G; 0

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1               5                   10


<210> 11836
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*35:08; NFE2L2; R34Q; 0

<400> 11836
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1               5                   10


<210> 11837
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; NFE2L2; R34Q; 0

<400> 11837
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1               5                   10


<210> 11838
<211> 8
<212> PRT
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<223> Table A; HLA-A*33:01; NFE2L2; D29G; 0

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<210> 11839
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<212> PRT
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<223> Table A; HLA-A*33:03; NFE2L2; D29G; 0

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<210> 11840
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<212> PRT
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<223> Table A; HLA-A*68:01; NFE2L2; D29G; 0

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<210> 11841
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<212> PRT
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<223> Table A; HLA-A*26:03; NFE2L2; D29H; 0

<400> 11841
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<210> 11842
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<212> PRT
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<223> Table A; HLA-A*33:01; NFE2L2; D29H; 0

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<210> 11843
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<212> PRT
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<223> Table A; HLA-A*33:03; NFE2L2; D29H; 0

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<210> 11844
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<212> PRT
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<223> Table A; HLA-A*68:01; NFE2L2; D29H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; NFE2L2; D29H; 0

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1               5


<210> 11846
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<212> PRT
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<223> Table A; HLA-B*48:01; NFE2L2; D29H; 0

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<210> 11847
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<220>
<223> Table A; HLA-A*33:03; NRAS; Q61H; 0

<400> 11847
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1               5                   10


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<220>
<223> Table A; HLA-A*26:01; KRAS; Q61H; 1

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<220>
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<220>
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<223> Table A; HLA-A*29:01; KRAS; Q61H; 0

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<223> Table A; HLA-A*29:02; KRAS; Q61H; 1

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<220>
<223> Table A; HLA-A*33:01; KRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*08:01; KRAS; Q61H; 1

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<220>
<223> Table A; HLA-B*15:01; KRAS; Q61H; 1

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<220>
<223> Table A; HLA-B*15:02; KRAS; Q61H; 0

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<223> Table A; HLA-B*18:01; KRAS; Q61H; 1

<400> 11858
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<210> 11859

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<223> Table A; HLA-B*27:02; KRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*35:01; KRAS; Q61H; 1

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<220>
<223> Table A; HLA-B*35:08; KRAS; Q61H; 0

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<210> 11862
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<220>
<223> Table A; HLA-C*08:01; KRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*25:01; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*26:02; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*26:03; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*29:01; NRAS; Q61H; 0

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<223> Table A; HLA-A*29:02; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*30:02; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*33:01; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*68:01; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*08:01; NRAS; Q61H; 1

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<220>
<223> Table A; HLA-B*15:01; NRAS; Q61H; 1

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<210> 11874
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<220>
<223> Table A; HLA-B*15:02; NRAS; Q61H; 0

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1               5                   10


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<220>
<223> Table A; HLA-B*18:01; NRAS; Q61H; 1

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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*35:01; NRAS; Q61H; 1

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<220>
<223> Table A; HLA-B*35:08; NRAS; Q61H; 0

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1 5 10

<210> 11879
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<220>
<223> Table A; HLA-C*08:01; NRAS; Q61H; 0

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<210> 11880
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<220>
<223> Table A; HLA-A*26:01; HRAS; Q61K; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*26:02; HRAS; Q61K; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*15:01; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*15:02; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*27:02; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*35:01; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*35:08; HRAS; Q61K; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; NRAS; Q61K; 1

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<212> PRT
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<223> Table A; HLA-A*26:02; NRAS; Q61K; 0

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<223> Table A; HLA-B*15:01; NRAS; Q61K; 1

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<223> Table A; HLA-B*15:02; NRAS; Q61K; 0

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<223> Table A; HLA-B*27:02; NRAS; Q61K; 0

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<223> Table A; HLA-B*35:01; NRAS; Q61K; 1

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1               5                   10


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<223> Table A; HLA-B*35:08; NRAS; Q61K; 0

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1               5                   10


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<223> Table A; HLA-C*08:03; NRAS; Q61K; 0

<400> 11896
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1               5                   10


<210> 11897
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<223> Table A; HLA-A*25:01; KRAS; Q61L; 0

<400> 11897
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 11898
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<223> Table A; HLA-A*26:01; KRAS; Q61L; 0

<400> 11898
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1               5                   10


<210> 11899
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<212> PRT
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<220>
<223> Table A; HLA-A*26:02; KRAS; Q61L; 0

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<210> 11900
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; KRAS; Q61L; 0

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<210> 11901
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<212> PRT
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<220>
<223> Table A; HLA-A*29:01; KRAS; Q61L; 0

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1               5                   10


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<223> Table A; HLA-A*29:02; KRAS; Q61L; 0

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1               5                   10


<210> 11903
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<223> Table A; HLA-A*30:02; KRAS; Q61L; 0

<400> 11903
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


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<212> PRT
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<223> Table A; HLA-A*33:01; KRAS; Q61L; 0

<400> 11904
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<210> 11905
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<212> PRT
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<223> Table A; HLA-B*15:01; KRAS; Q61L; 0

<400> 11905
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1 5 10

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<223> Table A; HLA-B*15:02; KRAS; Q61L; 0

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1 5 10

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<223> Table A; HLA-B*27:02; KRAS; Q61L; 0

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Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1 5 10

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<223> Table A; HLA-B*35:01; KRAS; Q61L; 0

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1 5 10

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<223> Table A; HLA-B*35:08; KRAS; Q61L; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*25:01; NRAS; Q61L; 1

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1               5                   10


<210> 11911
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<220>
<223> Table A; HLA-A*26:01; NRAS; Q61L; 1

<400> 11911
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1               5                   10


<210> 11912
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<212> PRT
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<220>
<223> Table A; HLA-A*26:02; NRAS; Q61L; 0

<400> 11912
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1               5                   10


<210> 11913

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<220>
<223> Table A; HLA-A*26:03; NRAS; Q61L; 0

<400> 11913
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1               5                   10


<210> 11914
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<220>
<223> Table A; HLA-A*29:01; NRAS; Q61L; 0

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1               5                   10


<210> 11915
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<220>
<223> Table A; HLA-A*29:02; NRAS; Q61L; 1

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1               5                   10


<210> 11916
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<220>
<223> Table A; HLA-A*30:02; NRAS; Q61L; 0

<400> 11916
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1               5                   10


<210> 11917
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; NRAS; Q61L; 0

<400> 11917
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 11918
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<220>
<223> Table A; HLA-A*68:01; NRAS; Q61L; 1

<400> 11918
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 11919
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<220>
<223> Table A; HLA-B*15:01; NRAS; Q61L; 1

<400> 11919
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 11920
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<220>
<223> Table A; HLA-B*15:02; NRAS; Q61L; 0

<400> 11920
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 11921
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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61L; 0

<400> 11921
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1               5                   10


<210> 11922
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<220>
<223> Table A; HLA-B*35:01; NRAS; Q61L; 1

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1               5                   10


<210> 11923
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<212> PRT
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<220>
<223> Table A; HLA-B*35:08; NRAS; Q61L; 0

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1               5                   10


<210> 11924
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*25:01; KRAS; Q61R; 0

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1               5                   10


<210> 11925
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; KRAS; Q61R; 0

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<210> 11926
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<220>
<223> Table A; HLA-A*26:02; KRAS; Q61R; 0

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<210> 11927
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<220>
<223> Table A; HLA-B*15:01; KRAS; Q61R; 0

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1               5                   10


<210> 11928
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; KRAS; Q61R; 0

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1               5                   10


<210> 11929
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<220>
<223> Table A; HLA-B*18:01; KRAS; Q61R; 0

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1               5                   10


<210> 11930
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; KRAS; Q61R; 0

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1               5                   10


<210> 11931
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<212> PRT
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<223> Table A; HLA-B*35:01; KRAS; Q61R; 0

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<210> 11932
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<223> Table A; HLA-B*35:08; KRAS; Q61R; 0

<400> 11932
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1               5                   10


<210> 11933
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; KRAS; Q61R; 0

<400> 11933
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<210> 11934
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; NRAS; Q61R; 1

<400> 11934
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<210> 11935
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; NRAS; Q61R; 1

<400> 11935
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
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<210> 11936
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<212> PRT
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<220>
<223> Table A; HLA-A*26:02; NRAS; Q61R; 0

<400> 11936
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<210> 11937
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; NRAS; Q61R; 1

<400> 11937
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<210> 11938
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; NRAS; Q61R; 1

<400> 11938
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<210> 11939
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<220>
<223> Table A; HLA-B*15:01; NRAS; Q61R; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; NRAS; Q61R; 0

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<223> Table A; HLA-B*18:01; NRAS; Q61R; 1

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<210> 11942
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61R; 0

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<210> 11943
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-B*35:08; NRAS; Q61R; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; NRAS; Q61R; 1

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<210> 11946
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; GRIN2A; R1067W; 0

<400> 11946
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<210> 11947
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; STAG1; A116T; 0

<400> 11947
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<210> 11948
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PTEN; S170N; 0

<400> 11948
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1               5                   10


<210> 11949
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PIK3CA; E726K; 1

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Asp Lys Thr Gln Lys Val Gln Met
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<210> 11950
<211> 8
<212> PRT
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<220>

<223> Table A; HLA-B*14:02; PIK3CA; E726K; 1

<400> 11950
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1               5


<210> 11951
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CCND1; T286I; 0

<400> 11951
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<210> 11952
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CCND1; T286I; 0

<400> 11952
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1               5                   10


<210> 11953
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CCND1; T286I; 0

<400> 11953
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CCND1; T286I; 0

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<220>
<223> Table A; HLA-B*27:02; CCND1; T286I; 0

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<210> 11956
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NFE2L2; R34G; 1

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1               5


<210> 11957
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; NFE2L2; R34G; 0

<400> 11957
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1               5


<210> 11958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; NFE2L2; R34G; 0

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Asp Leu Gly Val Ser Gly Glu Val Phe

1 5

<210> 11959
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; NFE2L2; R34G; 0

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Asp Leu Gly Val Ser Gly Glu Val Phe
1 5

<210> 11960
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NFE2L2; R34Q; 0

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Asp Leu Gly Val Ser Gln Glu Val
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<210> 11961
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; NFE2L2; R34Q; 0

<400> 11961
Asp Leu Gly Val Ser Gln Glu Val
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<210> 11962
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; NFE2L2; R34Q; 0

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<210> 11963
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; NFE2L2; R34Q; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3R1; L573P; 0

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1               5


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<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; PIK3R1; L573P; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; PIK3R1; L573P; 0

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<210> 11967

<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SF3B1; R957Q; 0

<400> 11967
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<210> 11968
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

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<211> 8
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<220>
<223> Table A; HLA-B*08:01; SF3B1; R957Q; 1

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1               5


<210> 11970
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

<400> 11970
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1               5


<210> 11971
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SF3B1; R957Q; 0

<400> 11971
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1               5


<210> 11972
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SF3B1; R957Q; 0

<400> 11972
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1               5


<210> 11973
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; R957Q; 0

<400> 11973
Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 11974
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 11974
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1               5


<210> 11975
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; SF3B1; R957Q; 1

<400> 11975
Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 11976
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 11976
Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 11977
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; SF3B1; R957Q; 1

<400> 11977
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11978
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; SF3B1; R957Q; 0

<400> 11978
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11979
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; SF3B1; R957Q; 0

<400> 11979
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<210> 11980
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 11980
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<210> 11981
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; SF3B1; R957Q; 0

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<210> 11982
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SF3B1; R957Q; 0

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1               5


<210> 11983
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<212> PRT
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<220>
<223> Table A; HLA-A*26:02; SF3B1; R957Q; 0

<400> 11983

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1               5


<210> 11984
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; SF3B1; R957Q; 0

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1               5


<210> 11985
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; SF3B1; R957Q; 0

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1               5


<210> 11986
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

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<210> 11987
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

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<210> 11988
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; SF3B1; R957Q; 1

<400> 11988
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11989
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

<400> 11989
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1               5


<210> 11990
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; SF3B1; R957Q; 0

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1               5


<210> 11991
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; SF3B1; R957Q; 0

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1               5

<210> 11992
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<220>
<223> Table A; HLA-B*39:01; SF3B1; R957Q; 0

<400> 11992
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11993
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; R957Q; 0

<400> 11993
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11994
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 11994
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11995
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; SF3B1; R957Q; 1

<400> 11995
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11996
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 11996
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 11997
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SF3B1; R957Q; 0

<400> 11997
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 11998
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; SF3B1; R957Q; 0

<400> 11998
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 11999
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; SF3B1; R957Q; 0

<400> 11999
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12000
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

<400> 12000
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12001
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 12001
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12002
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; SF3B1; R957Q; 1

<400> 12002
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12003
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SF3B1; R957Q; 1

<400> 12003
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12004
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<220>

<223> Table A; HLA-B*15:02; SF3B1; R957Q; 0

<400> 12004
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12005
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; SF3B1; R957Q; 1

<400> 12005
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12006
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SF3B1; R957Q; 0

<400> 12006
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12007
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SF3B1; R957Q; 0

<400> 12007
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12008
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 12008
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12009
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 12009
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12010
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; SF3B1; R957Q; 0

<400> 12010
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 12011
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SF3B1; R957Q; 0

<400> 12011
Asp Leu Ile Ser Gln Thr Ala Val Val Met Lys
1               5                   10


<210> 12012
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; SF3B1; R957Q; 1

<400> 12012
Asp Leu Ile Ser Gln Thr Ala Val Val Met Lys

1 5 10

<210> 12013
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; SF3B1; R957Q; 0

<400> 12013
Asp Leu Ile Ser Gln Thr Ala Val Val Met Lys
1 5 10

<210> 12014
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

<400> 12014
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1 5 10

<210> 12015
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 12015
Asp Leu Ile Ser Gln Thr Ala Val Val Met Lys
1 5 10

<210> 12016
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; SF3B1; R957Q; 0

<400> 12016
Asp Leu Ile Ser Gln Thr Ala Val Val Met Lys
1 5 10

<210> 12017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PTPRT; M903I; 1

<400> 12017
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12018
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PTPRT; M903I; 0

<400> 12018
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12019
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PTPRT; M903I; 0

<400> 12019
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12020
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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; PTPRT; M903I; 0

<400> 12020
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12021

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; PTPRT; M903I; 0

<400> 12021
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12022
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; PTPRT; M903I; 0

<400> 12022
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PTPRT; M903I; 1

<400> 12023
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PTPRT; M903I; 0

<400> 12024
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12025
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRT; M903I; 0

<400> 12025
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PTPRT; M903I; 1

<400> 12026
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; PTPRT; M903I; 0

<400> 12027
Asp Leu Leu Gln His Ile Thr Gln Ile
1               5


<210> 12028
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; GNAS; R201H; 1

<400> 12028
Asp Leu Leu Arg Cys His Val Leu
1               5


<210> 12029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; EP300; A1629V; 0

<400> 12029
Asp Leu Met Asp Gly Arg Asp Val Phe
1               5


<210> 12030
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; EP300; A1629V; 0

<400> 12030
Asp Leu Met Asp Gly Arg Asp Val Phe
1               5


<210> 12031
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; EP300; A1629V; 0

<400> 12031
Asp Leu Met Asp Gly Arg Asp Val Phe Leu
1               5                   10


<210> 12032
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; EP300; A1629V; 0

<400> 12032
Asp Leu Met Asp Gly Arg Asp Val Phe Leu
1               5                   10


<210> 12033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; R93Q; 0

<400> 12033
Asp Leu Gln Leu Phe Gln Pro Phe Leu
1               5


<210> 12034
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3CA; R93Q; 0

<400> 12034
Asp Leu Gln Leu Phe Gln Pro Phe Leu Lys
1               5                   10


<210> 12035
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; R93Q; 0

<400> 12035
Asp Leu Gln Leu Phe Gln Pro Phe Leu Lys
1               5                   10


<210> 12036
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRB; R529Q; 0

<400> 12036
Asp Leu Val Pro Gly Gln Lys Tyr
1               5


<210> 12037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; R93W; 0

<400> 12037

Asp Leu Trp Leu Phe Gln Pro Phe Leu
1               5


<210> 12038
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; G245D; 1

<400> 12038
Asp Met Asn Arg Arg Pro Ile Leu
1               5


<210> 12039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; SF3B1; R625H; 0

<400> 12039
Asp Asn Met Asp Glu Tyr Val His Asn
1               5


<210> 12040
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3CA; C378R; 0

<400> 12040
Asp Asn Val Asn Thr Gln Arg Val Pro Arg
1               5                   10


<210> 12041
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3CA; C378R; 0

<400> 12041
Asp Asn Val Asn Thr Gln Arg Val Pro Arg
1               5                   10

<210> 12042
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; C378R; 0

<400> 12042
Asp Asn Val Asn Thr Gln Arg Val Pro Arg
1               5                   10


<210> 12043
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; C378R; 0

<400> 12043
Asp Asn Val Asn Thr Gln Arg Val Pro Arg
1               5                   10


<210> 12044
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3CA; C378R; 0

<400> 12044
Asp Asn Val Asn Thr Gln Arg Val Pro Arg
1               5                   10


<210> 12045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CDKN2A; H83Y; 0

<400> 12045
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10

<210> 12046
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CDKN2A; H83Y; 0

<400> 12046
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12047
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; CDKN2A; H83Y; 0

<400> 12047
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12048
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CDKN2A; H83Y; 0

<400> 12048
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12049
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CDKN2A; H83Y; 0

<400> 12049
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12050
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; CDKN2A; H83Y; 0

<400> 12050
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12051
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDKN2A; H83Y; 0

<400> 12051
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12052
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CDKN2A; H83Y; 0

<400> 12052
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CDKN2A; H83Y; 0

<400> 12053
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12054
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CDKN2A; H83Y; 0

<400> 12054
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 12055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; ABI1; K445N; 1

<400> 12055
Asp Pro Ala Trp Ala Pro Asn Asn Tyr
1               5


<210> 12056
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; ABI1; K445N; 1

<400> 12056
Asp Pro Ala Trp Ala Pro Asn Asn Tyr Ile
1               5                   10


<210> 12057
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PTPRK; E358K; 1

<400> 12057
Asp Pro Asp Thr Lys Tyr Glu Ile
1               5


<210> 12058
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:02; PTPRK; E358K; 0

<400> 12058
Asp Pro Asp Thr Lys Tyr Glu Ile
1               5


<210> 12059
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PTPRK; E358K; 0

<400> 12059
Asp Pro Asp Thr Lys Tyr Glu Ile
1               5


<210> 12060
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CREB3L1; V414I; 0

<400> 12060
Asp Pro Leu Ala Ala Asp Gly Ile
1               5


<210> 12061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CREB3L1; V414I; 0

<400> 12061
Asp Pro Leu Ala Ala Asp Gly Ile Tyr
1               5


<210> 12062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CREB3L1; V414I; 0

<400> 12062
Asp Pro Leu Ala Ala Asp Gly Ile Tyr
1               5


<210> 12063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CREB3L1; V414I; 0

<400> 12063
Asp Pro Leu Ala Ala Asp Gly Ile Tyr
1               5


<210> 12064
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CREB3L1; V414I; 0

<400> 12064
Asp Pro Leu Ala Ala Asp Gly Ile Tyr
1               5


<210> 12065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CREB3L1; V414I; 0

<400> 12065
Asp Pro Leu Ala Ala Asp Gly Ile Tyr
1               5


<210> 12066
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CREB3L1; V414I; 0

<400> 12066
Asp Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala

1 5 10

<210> 12067
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CREB3L1; V414I; 0

<400> 12067
Asp Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1 5 10

<210> 12068
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CREB3L1; V414I; 0

<400> 12068
Asp Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1 5 10

<210> 12069
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CREB3L1; V414I; 0

<400> 12069
Asp Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1 5 10

<210> 12070
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CREB3L1; V414I; 0

<400> 12070
Asp Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1 5 10

<210> 12071
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CREB3L1; V414I; 0

<400> 12071
Asp Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5                   10


<210> 12072
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CREB3L1; V414I; 0

<400> 12072
Asp Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5                   10


<210> 12073
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; PIK3CA; E545A; 0

<400> 12073
Asp Pro Leu Ser Glu Ile Thr Ala
1               5


<210> 12074
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PIK3CA; E545A; 0

<400> 12074
Asp Pro Leu Ser Glu Ile Thr Ala
1               5


<210> 12075

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PIK3CA; E545A; 0

<400> 12075
Asp Pro Leu Ser Glu Ile Thr Ala
1               5


<210> 12076
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PIK3CA; E545A; 0

<400> 12076
Asp Pro Leu Ser Glu Ile Thr Ala
1               5


<210> 12077
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; E545D; 0

<400> 12077
Asp Pro Leu Ser Glu Ile Thr Asp Gln Glu Lys
1               5                   10


<210> 12078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PIK3CA; Q546K; 1

<400> 12078
Asp Pro Leu Ser Glu Ile Thr Glu Lys
1               5


<210> 12079
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3CA; Q546R; 0

<400> 12079
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 12080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; Q546R; 0

<400> 12080
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 12081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; Q546R; 0

<400> 12081
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 12082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; Q546R; 0

<400> 12082
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 12083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PIK3CA; Q546R; 1

<400> 12083
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 12084
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; E545G; 0

<400> 12084
Asp Pro Leu Ser Glu Ile Thr Gly Gln Glu Lys
1               5                   10


<210> 12085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PIK3CA; E542V; 0

<400> 12085
Asp Pro Leu Ser Val Ile Thr Glu Gln
1               5


<210> 12086
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; E542V; 0

<400> 12086
Asp Pro Leu Ser Val Ile Thr Glu Gln Glu Lys
1               5                   10


<210> 12087
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDH1; D254Y; 1

<400> 12087
Asp Pro Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5                   10


<210> 12088
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CDH1; D254Y; 0

<400> 12088
Asp Pro Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5                   10


<210> 12089
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; MAPK1; E322K; 0

<400> 12089
Asp Pro Ser Asp Lys Pro Ile Ala Glu Ala
1               5                   10


<210> 12090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SMAD4; R361H; 0

<400> 12090
Asp Pro Ser Gly Gly Asp His Phe Cys Leu
1               5                   10


<210> 12091
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; ARHGEF12; R113Q; 1

<400> 12091

Asp Gln Ile Ile Lys Val Asn Gly
1               5


<210> 12092
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; POLE; S297F; 0

<400> 12092
Asp Gln Ile Met Met Ile Phe Tyr
1               5


<210> 12093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; SMARCA4; G1232S; 0

<400> 12093
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; SMARCA4; G1232S; 0

<400> 12094
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; SMARCA4; G1232S; 0

<400> 12095
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5

<210> 12096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; SMARCA4; G1232S; 1

<400> 12096
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SMARCA4; G1232S; 0

<400> 12097
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; SMARCA4; G1232S; 0

<400> 12098
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; SMARCA4; G1232S; 0

<400> 12099
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5

<210> 12100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SMARCA4; G1232S; 0

<400> 12100
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SMARCA4; G1232S; 0

<400> 12101
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SMARCA4; G1232S; 0

<400> 12102
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; SMARCA4; G1232S; 0

<400> 12103
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12104
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; SMARCA4; G1232S; 0

<400> 12104
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMARCA4; G1232S; 0

<400> 12105
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; SMARCA4; G1232S; 0

<400> 12106
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; SMARCA4; G1232S; 0

<400> 12107
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SMARCA4; G1232S; 0

<400> 12108
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; SMARCA4; G1232S; 0

<400> 12109
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SMARCA4; G1232S; 0

<400> 12110
Asp Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 12111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; NT5C2; R8Q; 0

<400> 12111
Asp Gln Leu Gln Asn Ala Ala Asp Met
1               5


<210> 12112
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*14:02; ARID1A; G2087R; 0

<400> 12112
Asp Arg Leu Leu His Trp Ala Val
1               5


<210> 12113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; R213Q; 0

<400> 12113
Asp Arg Asn Thr Phe Gln His Ser Val
1               5


<210> 12114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; TP53; R213Q; 0

<400> 12114
Asp Arg Asn Thr Phe Gln His Ser Val
1               5


<210> 12115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; TP53; R213Q; 0

<400> 12115
Asp Arg Asn Thr Phe Gln His Ser Val
1               5


<210> 12116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; R213Q; 0

<400> 12116
Asp Arg Asn Thr Phe Gln His Ser Val
1               5


<210> 12117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; R213Q; 0

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<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*39:06; TP53; R213Q; 0

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1               5


<210> 12119
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<223> Table A; HLA-C*06:02; TP53; R213Q; 1

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1               5


<210> 12120
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<223> Table A; HLA-B*14:02; TP53; S215G; 0

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1 5

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<223> Table A; HLA-B*14:01; TP53; V216M; 0

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<223> Table A; HLA-B*14:02; TP53; V216M; 0

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<223> Table A; HLA-B*14:01; TP53; H214R; 0

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<223> Table A; HLA-B*14:02; TP53; H214R; 0

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<223> Table A; HLA-A*33:01; TP53; L194R; 0

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<220>
<223> Table A; HLA-A*33:03; TP53; L194R; 0

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<223> Table A; HLA-A*68:01; TP53; L194R; 0

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<220>
<223> Table A; HLA-A*33:01; TP53; H193R; 0

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<220>
<223> Table A; HLA-A*68:01; TP53; H193R; 0

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<220>
<223> Table A; HLA-A*01:01; TP53; H193Y; 1

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<220>
<223> Table A; HLA-A*26:01; TP53; H193Y; 0

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<220>
<223> Table A; HLA-C*03:02; TP53; H193Y; 0

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<210> 12133
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

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<210> 12136
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37A; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37C; 0

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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37C; 0

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<210> 12142
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37F; 1

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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37F; 0

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<223> Table A; HLA-A*33:03; CTNNB1; S37F; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37F; 1

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<210> 12146
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37F; 1

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<210> 12148
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37F; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37F; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37F; 1

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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37F; 0

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<223> Table A; HLA-B*08:01; CTNNB1; S37F; 1

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37P; 0

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<210> 12158
<211> 8

<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37P; 1

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<210> 12159
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37P; 0

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<210> 12160
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

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<210> 12161
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37P; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

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<210> 12163
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37P; 1

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<210> 12164
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

<400> 12165
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<210> 12166
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<223> Table A; HLA-A*33:01; BCORL1; K1207N; 0

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<210> 12167
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<220>
<223> Table A; HLA-B*51:01; PIK3R1; N564D; 0

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Asp Ser Ile Lys Pro Asp Leu Ile
1               5


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<220>
<223> Table A; HLA-A*68:01; PIK3R1; N564D; 0

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<210> 12169
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; PIK3R1; N564D; 0

<400> 12169
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<210> 12170
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; PIK3R1; N564D; 0

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<210> 12171
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; PIK3R1; N564D; 0

<400> 12171
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<220>
<223> Table A; HLA-A*31:01; PIK3R1; N564D; 0

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<220>
<223> Table A; HLA-A*33:01; PIK3R1; N564D; 0

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<223> Table A; HLA-A*33:03; PIK3R1; N564D; 0

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<223> Table A; HLA-A*68:01; PIK3R1; N564D; 0

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<220>
<223> Table A; HLA-A*68:02; PIK3R1; N564D; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; PIK3R1; N564D; 0

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<210> 12178
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; ARHGAP5; V474A; 0

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<220>
<223> Table A; HLA-A*33:03; ARHGAP5; V474A; 0

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<210> 12180
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; ARHGAP5; V474A; 0

<400> 12180
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<220>
<223> Table A; HLA-A*33:01; PLCG1; R1275Q; 0

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<220>
<223> Table A; HLA-A*33:03; PLCG1; R1275Q; 0

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<220>
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<210> 12184
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; G266E; 0

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<210> 12185
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; TP53; G266E; 0

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<220>
<223> Table A; HLA-A*33:01; TP53; G266E; 0

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<210> 12187
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G266E; 0

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<220>
<223> Table A; HLA-A*68:01; TP53; G266E; 0

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<210> 12189
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<220>
<223> Table A; HLA-A*68:02; TP53; G266E; 0

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<220>
<223> Table A; HLA-A*33:03; TP53; G266R; 0

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<210> 12191
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; TP53; G266R; 0

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<210> 12192
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<220>
<223> Table A; HLA-A*26:03; TP53; G266R; 0

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<210> 12193
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<220>
<223> Table A; HLA-A*33:01; TP53; G266R; 0

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<210> 12194
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<220>
<223> Table A; HLA-A*33:03; TP53; G266R; 0

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<210> 12195
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<220>
<223> Table A; HLA-A*68:01; TP53; G266R; 0

<400> 12195
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<210> 12196
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; TP53; G266V; 0

<400> 12196
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1               5


<210> 12197
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; G266V; 0

<400> 12197
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<210> 12198
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; TP53; G266V; 0

<400> 12198
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<210> 12199
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; G266V; 0

<400> 12199

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1               5


<210> 12200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TP53; G266V; 0

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1               5


<210> 12201
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; G266V; 0

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1               5


<210> 12202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G266V; 0

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Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5


<210> 12203
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; G266V; 0

<400> 12203
Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5

<210> 12204
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G266V; 0

<400> 12204
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<210> 12205
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<220>
<223> Table A; HLA-A*26:03; TP53; G262V; 0

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<210> 12206
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<220>
<223> Table A; HLA-A*33:01; TP53; G262V; 0

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<210> 12207
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<220>
<223> Table A; HLA-A*33:03; TP53; G262V; 0

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1               5

<210> 12208
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<220>
<223> Table A; HLA-A*68:01; TP53; G262V; 0

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<210> 12209
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; TP53; V157F; 1

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<210> 12210
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; TP53; V157F; 0

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1               5                   10


<210> 12211
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; TP53; V157F; 0

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<210> 12212
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<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-A*26:02; TP53; V157F; 0

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<210> 12213
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<210> 12214
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<223> Table A; HLA-A*26:03; TP53; P151S; 0

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<210> 12217
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<210> 12219
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<223> Table A; HLA-A*68:01; TP53; P151S; 0

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<223> Table A; HLA-B*08:01; CTNNB1; G34V; 1

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<223> Table A; HLA-B*14:02; CTNNB1; G34V; 0

<400> 12225
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34V; 0

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<210> 12227
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

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<210> 12228
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; CTNNB1; G34V; 1

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<223> Table A; HLA-B*54:01; CTNNB1; G34V; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

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<220>
<223> Table A; HLA-A*26:01; CTNNB1; G34V; 0

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<223> Table A; HLA-B*08:01; CTNNB1; G34V; 1

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<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34V; 0

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

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<210> 12236
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<223> Table A; HLA-A*01:01; KRAS; Q61H; 1

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<220>
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<223> Table A; HLA-B*35:01; KRAS; Q61H; 1

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<223> Table A; HLA-B*39:01; KRAS; Q61H; 0

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<223> Table A; HLA-A*01:01; NRAS; Q61H; 1

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<210> 12241
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<223> Table A; HLA-B*39:01; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*25:01; KRAS; Q61H; 1

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<223> Table A; HLA-A*26:01; KRAS; Q61H; 1

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<210> 12246
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<220>
<223> Table A; HLA-A*26:02; KRAS; Q61H; 0

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<210> 12247
<211> 11
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<220>
<223> Table A; HLA-A*26:03; KRAS; Q61H; 0

<400> 12247
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<210> 12248
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<223> Table A; HLA-A*25:01; NRAS; Q61H; 0

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<223> Table A; HLA-A*26:02; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*26:03; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*25:01; HRAS; Q61K; 0

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<210> 12253
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<220>
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<220>
<223> Table A; HLA-A*26:02; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-A*26:01; NRAS; Q61K; 1

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<210> 12257
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<220>
<223> Table A; HLA-A*26:02; NRAS; Q61K; 0

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<223> Table A; HLA-A*26:01; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*35:01; KRAS; Q61L; 0

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<210> 12260
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; KRAS; Q61L; 0

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<210> 12261
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<223> Table A; HLA-A*26:01; NRAS; Q61L; 1

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<210> 12262
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<223> Table A; HLA-B*35:01; NRAS; Q61L; 1

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<210> 12263
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<223> Table A; HLA-B*39:01; NRAS; Q61L; 0

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<223> Table A; HLA-A*68:01; KRAS; Q61L; 0

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<223> Table A; HLA-A*68:02; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*68:01; NRAS; Q61L; 1

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<210> 12267
<211> 10
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<220>
<223> Table A; HLA-A*68:02; NRAS; Q61L; 0

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<223> Table A; HLA-A*26:02; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*26:03; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*68:01; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*25:01; NRAS; Q61L; 1

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<210> 12274
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<223> Table A; HLA-A*26:01; NRAS; Q61L; 1

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<220>
<223> Table A; HLA-A*26:02; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*26:03; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*68:01; NRAS; Q61L; 1

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<220>
<223> Table A; HLA-A*68:02; NRAS; Q61L; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; KRAS; Q61R; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; NRAS; Q61R; 1

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; NRAS; Q61R; 1

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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; KRAS; Q61R; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; KRAS; Q61R; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; KRAS; Q61R; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-A*26:01; NRAS; Q61R; 1

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<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*26:02; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-A*25:01; ARHGEF12; R705H; 0

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<210> 12289
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<220>
<223> Table A; HLA-A*68:01; ARHGEF12; R705H; 0

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<210> 12290
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<220>
<223> Table A; HLA-A*68:02; ARHGEF12; R705H; 0

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1               5                   10


<210> 12291

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<220>
<223> Table A; HLA-A*68:02; PPP2R1A; R183W; 0

<400> 12291
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<210> 12292
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; PPP2R1A; R183W; 0

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1               5


<210> 12293
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PPP2R1A; R183W; 0

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1               5


<210> 12294
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; PTK6; H126P; 1

<400> 12294
Asp Thr Gln Ala Val Arg Pro Tyr
1               5


<210> 12295
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PTK6; H126P; 0

<400> 12295
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<210> 12296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; KRAS; G13D; 1

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1               5


<210> 12297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; FAT1; D3120N; 0

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1               5


<210> 12298
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; FAT1; D3120N; 0

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1               5


<210> 12299
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; FAT1; D3120N; 0

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1               5


<210> 12300
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; FAT1; D3120N; 0

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1               5


<210> 12301
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; FAT1; D3120N; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; FAT1; D3120N; 1

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<210> 12303
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; FAT1; D3120N; 0

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<210> 12304
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; PTPRD; S431L; 0

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<210> 12305
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; PTPRD; S431L; 1

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1               5


<210> 12306
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; PTPRD; S431L; 0

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1               5


<210> 12307
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; PPP2R1A; R28C; 0

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1 5

<210> 12308
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PPP2R1A; R28C; 1

<400> 12308
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1 5

<210> 12309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PPP2R1A; R28C; 1

<400> 12309
Asp Val Gln Leu Cys Leu Asn Ser Ile
1 5

<210> 12310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; FGFR2; S252W; 1

<400> 12310
Asp Val Val Glu Arg Trp Pro His Arg
1 5

<210> 12311
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; GRIN2A; S1425L; 0

<400> 12311
Asp Val Tyr Ile Leu Glu His Val
1 5

<210> 12312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; GRIN2A; S1425L; 0

<400> 12312
Asp Val Tyr Ile Leu Glu His Val Met
1               5


<210> 12313
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; GRIN2A; S1425L; 0

<400> 12313
Asp Val Tyr Ile Leu Glu His Val Met
1               5


<210> 12314
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; GRIN2A; S1425L; 0

<400> 12314
Asp Val Tyr Ile Leu Glu His Val Met
1               5


<210> 12315
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; SMAD4; G352V; 0

<400> 12315
Asp Val Tyr Val Asp Pro Ser Gly Gly Asp Arg
1               5                   10

<210> 12316
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SMAD4; G352V; 0

<400> 12316
Asp Val Tyr Val Asp Pro Ser Gly Gly Asp Arg
1               5                   10


<210> 12317
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<220>
<223> Table A; HLA-A*33:03; CTCF; K365T; 0

<400> 12317
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1               5


<210> 12318
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<220>
<223> Table A; HLA-B*27:02; CTCF; K365T; 0

<400> 12318
Asp Tyr Ala Ser Val Glu Val Ser Thr
1               5


<210> 12319
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; CTCF; K365T; 0

<400> 12319
Asp Tyr Ala Ser Val Glu Val Ser Thr
1               5


<210> 12320
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTCF; K365T; 0

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<210> 12321
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTCF; K365T; 0

<400> 12321
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12322
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*24:02; CTCF; K365T; 1

<400> 12322
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12323
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CTCF; K365T; 0

<400> 12323
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12324
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTCF; K365T; 0

<400> 12324
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12325
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 12325
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12326
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTCF; K365T; 0

<400> 12326
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTCF; K365T; 0

<400> 12327
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12328
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<212> PRT
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<223> Table A; HLA-B*39:01; CTCF; K365T; 0

<400> 12328
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
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<210> 12329
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CTCF; K365T; 0

<400> 12329
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
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<210> 12330
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTCF; K365T; 0

<400> 12330
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5                   10


<210> 12331
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTCF; K365T; 0

<400> 12331
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu Lys
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<210> 12332
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTCF; K365T; 0

<400> 12332
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1               5                   10


<210> 12333
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 12333
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu Lys
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<210> 12334
<211> 11
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<220>
<223> Table A; HLA-A*68:02; CTCF; K365T; 0

<400> 12334
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu Lys
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<210> 12335
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<220>
<223> Table A; HLA-B*27:02; CTCF; K365T; 0

<400> 12335
Asp Tyr Ala Ser Val Glu Val Ser Thr Leu Lys
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<210> 12336
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S33Y; 0

<400> 12336
Asp Tyr Gly Ile His Ser Gly Ala

1 5

<210> 12337
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:01; CTNNB1; S33Y; 0

<400> 12337
Asp Tyr Gly Ile His Ser Gly Ala
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<210> 12338
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; CTNNB1; S33Y; 0

<400> 12338
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1 5

<210> 12339
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 12339
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1 5

<210> 12340
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

<400> 12340
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1 5

<210> 12341
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S33Y; 0

<400> 12341
Asp Tyr Gly Ile His Ser Gly Ala Thr
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<210> 12342
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S33Y; 1

<400> 12342
Asp Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 12343
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 12343
Asp Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 12344
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

<400> 12344
Asp Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 12345

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; FGFR2; C382R; 0

<400> 12345
Asp Tyr Leu Glu Ile Ala Ile Tyr Arg
1               5


<210> 12346
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; FGFR2; C382R; 0

<400> 12346
Asp Tyr Leu Glu Ile Ala Ile Tyr Arg
1               5


<210> 12347
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; FGFR2; C382R; 0

<400> 12347
Asp Tyr Leu Glu Ile Ala Ile Tyr Arg Ile
1               5                   10


<210> 12348
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; RGPD3; N756D; 0

<400> 12348
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr
1               5


<210> 12349
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; RGPD3; N756D; 0

<400> 12349
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr
1               5


<210> 12350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; RGPD3; N756D; 0

<400> 12350
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr
1               5


<210> 12351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; RGPD3; N756D; 1

<400> 12351
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr
1               5


<210> 12352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; RGPD3; N756D; 0

<400> 12352
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr
1               5


<210> 12353
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; RGPD3; N756D; 0

<400> 12353
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr Lys
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<210> 12354
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; RGPD3; N756D; 0

<400> 12354
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr Lys
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<210> 12355
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; RGPD3; N756D; 0

<400> 12355
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr Lys
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<210> 12356
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; RGPD3; N756D; 0

<400> 12356
Asp Tyr Ser Glu Gly Gly Pro Leu Tyr Lys Asn
1               5                   10


<210> 12357
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CDH11; K357T; 0

<400> 12357
Glu Ala Ala Asn Val His Ile Asp Pro Thr
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<210> 12358
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CDH11; K357T; 0

<400> 12358
Glu Ala Ala Asn Val His Ile Asp Pro Thr Phe
1               5                   10


<210> 12359
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDH11; K357T; 1

<400> 12359
Glu Ala Ala Asn Val His Ile Asp Pro Thr Phe
1               5                   10


<210> 12360
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CDH11; K357T; 0

<400> 12360
Glu Ala Ala Asn Val His Ile Asp Pro Thr Phe
1               5                   10


<210> 12361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; MB21D2; Q311E; 0

<400> 12361

Glu Ala Cys Lys Ala Ile Ile Ile
1 5

<210> 12362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; MB21D2; Q311E; 0

<400> 12362
Glu Ala Cys Lys Ala Ile Ile Ile Lys
1 5

<210> 12363
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; MB21D2; Q311E; 0

<400> 12363
Glu Ala Cys Lys Ala Ile Ile Ile Lys Leu
1 5 10

<210> 12364
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; MB21D2; Q311E; 0

<400> 12364
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1 5 10

<210> 12365
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; ARHGAP5; V474A; 0

<400> 12365
Glu Ala Asp Ser Lys Glu Ala Tyr Gly Arg
1 5 10

<210> 12366
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; ARHGAP5; V474A; 0

<400> 12366
Glu Ala Asp Ser Lys Glu Ala Tyr Gly Arg
1               5                   10


<210> 12367
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; TNC; L1626I; 0

<400> 12367
Glu Ala Glu Pro Glu Val Asp Asn Ile Leu
1               5                   10


<210> 12368
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TNC; L1626I; 0

<400> 12368
Glu Ala Glu Pro Glu Val Asp Asn Ile Leu
1               5                   10


<210> 12369
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<220>
<223> Table A; HLA-B*35:12; TNC; L1626I; 0

<400> 12369
Glu Ala Glu Pro Glu Val Asp Asn Ile Leu
1               5                   10

<210> 12370
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; MAP2K1; K57N; 0

<400> 12370
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 12371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; MAP2K1; K57N; 0

<400> 12371
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 12372
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; MAP2K1; K57N; 0

<400> 12372
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 12373
<211> 9
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; MAP2K1; K57N; 0

<400> 12373
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 12374
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; MAP2K1; K57N; 0

<400> 12374
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 12375
<211> 9
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<220>
<223> Table A; HLA-B*27:02; MAP2K1; K57N; 0

<400> 12375
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 12376
<211> 9
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; MAP2K1; K57N; 0

<400> 12376
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 12377
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<220>
<223> Table A; HLA-A*33:03; MAP2K1; K57N; 0

<400> 12377
Glu Ala Phe Leu Thr Gln Asn Gln Lys Val
1               5                   10


<210> 12378
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; MAP2K1; K57N; 0

<400> 12378
Glu Ala Phe Leu Thr Gln Asn Gln Lys Val
1               5                   10


<210> 12379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; MAP2K1; K57N; 0

<400> 12379
Glu Ala Phe Leu Thr Gln Asn Gln Lys Val
1               5                   10


<210> 12380
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; MAP2K1; K57N; 0

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Glu Ala Phe Leu Thr Gln Asn Gln Lys Val
1               5                   10


<210> 12381
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CHST11; A159T; 1

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Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 12382
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*48:01; CHST11; A159T; 0

<400> 12382
Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 12383
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CHST11; A159T; 1

<400> 12383
Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 12384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CHST11; A159T; 0

<400> 12384
Glu Ala His Val Ser Thr Asn Leu Lys
1               5


<210> 12385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CHST11; A159T; 0

<400> 12385
Glu Ala His Val Ser Thr Asn Leu Lys
1               5


<210> 12386
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TPR; S2155L; 0

<400> 12386
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12387
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TPR; S2155L; 0

<400> 12387
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12388
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TPR; S2155L; 0

<400> 12388
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12389
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; TPR; S2155L; 0

<400> 12389
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12390
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*26:03; TPR; S2155L; 0

<400> 12390
Glu Ala Ile His Leu Pro Gln Val

1 5

<210> 12391
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; TPR; S2155L; 0

<400> 12391
Glu Ala Ile His Leu Pro Gln Val
1 5

<210> 12392
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TPR; S2155L; 0

<400> 12392
Glu Ala Ile His Leu Pro Gln Val
1 5

<210> 12393
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TPR; S2155L; 0

<400> 12393
Glu Ala Ile His Leu Pro Gln Val
1 5

<210> 12394
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TPR; S2155L; 0

<400> 12394
Glu Ala Ile His Leu Pro Gln Val
1 5

<210> 12395
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TPR; S2155L; 0

<400> 12395
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12396
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TPR; S2155L; 0

<400> 12396
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12397
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TPR; S2155L; 0

<400> 12397
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12398
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TPR; S2155L; 0

<400> 12398
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12399

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; TPR; S2155L; 0

<400> 12399
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TPR; S2155L; 0

<400> 12400
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12401
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TPR; S2155L; 0

<400> 12401
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12402
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; TPR; S2155L; 0

<400> 12402
Glu Ala Ile His Leu Pro Gln Val
1               5


<210> 12403
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<223> Table A; HLA-B*56:01; TPR; S2155L; 0

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<212> PRT
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<223> Table A; HLA-B*58:01; TPR; S2155L; 0

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<210> 12406
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<212> PRT
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<223> Table A; HLA-C*03:02; TPR; S2155L; 0

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Glu Ala Ile His Leu Pro Gln Val
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<210> 12407
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<212> PRT
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<223> Table A; HLA-A*68:01; TPR; S2155L; 0

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Glu Ala Ile His Leu Pro Gln Val Ala
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<210> 12408
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<212> PRT
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<223> Table A; HLA-A*68:02; TPR; S2155L; 0

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Glu Ala Ile His Leu Pro Gln Val Ala
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; TPR; S2155L; 0

<400> 12409
Glu Ala Ile His Leu Pro Gln Val Ala
1               5


<210> 12410
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; TPR; S2155L; 0

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<210> 12411
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<223> Table A; HLA-B*55:02; TPR; S2155L; 0

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Glu Ala Ile His Leu Pro Gln Val Ala
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<210> 12412
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TPR; S2155L; 0

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<223> Table A; HLA-A*68:01; TPR; S2155L; 0

<400> 12413
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1               5                   10


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<223> Table A; HLA-A*68:02; TPR; S2155L; 0

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<210> 12415
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<223> Table A; HLA-B*54:01; TPR; S2155L; 0

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1 5 10

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1 5 10

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1 5 10

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<223> Table A; HLA-A*33:03; BCOR; N1425S; 0

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1 5

<210> 12419
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<223> Table A; HLA-A*68:02; CNTNAP2; R483Q; 0

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<223> Table A; HLA-A*68:01; CNTNAP2; R483Q; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*68:02; CNTNAP2; R483Q; 0

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<223> Table A; HLA-A*33:03; ARHGAP5; V474A; 0

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<210> 12423
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<223> Table A; HLA-A*33:03; ZNF429; L520R; 0

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<223> Table A; HLA-B*15:02; TP53; Y205C; 0

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<220>
<223> Table A; HLA-A*33:03; TP53; Y205C; 0

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<220>
<223> Table A; HLA-B*08:01; PIK3CA; E39K; 1

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Glu Cys Leu Arg Lys Ala Thr Leu
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<210> 12427
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; MAP2K1; P124S; 0

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<210> 12428
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; MAP2K1; P124S; 1

<400> 12428
Glu Cys Asn Ser Ser Tyr Ile Val Gly Phe
1               5                   10


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<220>
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<220>
<223> Table A; HLA-A*33:03; MAP2K1; P124S; 0

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<220>
<223> Table A; HLA-A*68:01; MAP2K1; P124S; 1

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<220>
<223> Table A; HLA-A*31:01; RAC1; A159V; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; RAC1; A159V; 0

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<220>
<223> Table A; HLA-A*33:03; RAC1; A159V; 0

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<220>
<223> Table A; HLA-A*68:01; RAC1; A159V; 0

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<220>

<223> Table A; HLA-A*68:02; RAC1; A159V; 0

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<220>
<223> Table A; HLA-A*26:03; TP53; G266E; 0

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<220>
<223> Table A; HLA-A*33:01; TP53; G266E; 0

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<220>
<223> Table A; HLA-A*33:03; TP53; G266E; 0

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<220>
<223> Table A; HLA-A*68:01; TP53; G266E; 0

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<220>
<223> Table A; HLA-B*27:02; TP53; G266E; 0

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<220>
<223> Table A; HLA-A*26:03; TP53; G266R; 0

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<223> Table A; HLA-A*33:01; TP53; G266R; 0

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<223> Table A; HLA-A*33:03; TP53; G266R; 0

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<223> Table A; HLA-A*68:01; TP53; G266R; 0

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<223> Table A; HLA-B*27:02; TP53; G266R; 0

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<223> Table A; HLA-A*26:03; TP53; G266R; 0

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<223> Table A; HLA-A*33:01; TP53; G266R; 0

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<220>
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<213> Homo sapiens

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<223> Table A; HLA-A*68:01; TP53; G266V; 0

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<220>
<223> Table A; HLA-B*27:02; TP53; G266V; 0

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<220>
<223> Table A; HLA-B*37:01; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*38:01; TP53; G262V; 0

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<210> 12461
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<220>
<223> Table A; HLA-B*40:02; TP53; G262V; 0

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<210> 12462
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<220>
<223> Table A; HLA-B*41:02; TP53; G262V; 0

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<210> 12463
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<220>
<223> Table A; HLA-B*44:05; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*48:01; TP53; G262V; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; TP53; G262V; 0

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<220>
<223> Table A; HLA-A*33:01; TP53; G262V; 0

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<220>
<223> Table A; HLA-A*33:03; TP53; G262V; 0

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<220>
<223> Table A; HLA-A*68:01; TP53; G262V; 0

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<220>
<223> Table A; HLA-A*68:02; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*27:02; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*44:05; FAT1; D3120N; 0

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Glu Asp Val Asn Asn Asn Ala Pro Glu Phe
1               5                   10


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<220>
<223> Table A; HLA-A*33:01; ERBB2; V842I; 0

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<220>
<223> Table A; HLA-A*33:03; ERBB2; V842I; 0

<400> 12473
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<220>
<223> Table A; HLA-A*26:01; RGPD3; N756D; 0

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<210> 12475
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<220>
<223> Table A; HLA-B*35:01; RGPD3; N756D; 1

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<220>
<223> Table A; HLA-B*35:08; RGPD3; N756D; 0

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<220>
<223> Table A; HLA-C*08:03; RGPD3; N756D; 0

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<220>
<223> Table A; HLA-A*11:01; RGPD3; N756D; 1

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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; RGPD3; N756D; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; RGPD3; N756D; 0

<400> 12480
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<210> 12481
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; RGPD3; N756D; 0

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<210> 12482
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; RGPD3; N756D; 0

<400> 12482
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; RGPD3; N756D; 0

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<220>
<223> Table A; HLA-C*08:03; RGPD3; N756D; 0

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<210> 12485
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CCND1; T286I; 0

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<210> 12486
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; K111E; 0

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1               5


<210> 12487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; K111E; 0

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1               5


<210> 12488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; K111E; 1

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1               5


<210> 12489
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; K111E; 1

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1               5


<210> 12490
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<212> PRT
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<220>

<223> Table A; HLA-B*44:05; PIK3CA; K111E; 0

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1               5


<210> 12491
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<220>
<223> Table A; HLA-B*49:01; PIK3CA; K111E; 0

<400> 12491
Glu Glu Glu Ile Leu Asn Arg Glu Ile
1               5


<210> 12492
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PIK3CA; K111E; 1

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Glu Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
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<210> 12493
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<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; K111E; 1

<400> 12493
Glu Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
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<210> 12494
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; K111E; 1

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<210> 12495
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; K111E; 0

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Glu Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12496
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CCND1; T286I; 1

<400> 12496
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<210> 12497
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CCND1; T286I; 0

<400> 12497
Glu Glu Glu Val Asp Leu Ala Cys Ile
1               5


<210> 12498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CCND1; T286I; 0

<400> 12498
Glu Glu Glu Val Asp Leu Ala Cys Ile

1 5

<210> 12499
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3CA; R88Q; 0

<400> 12499
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1 5 10

<210> 12500
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PIK3CA; R88Q; 1

<400> 12500
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1 5 10

<210> 12501
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; R88Q; 0

<400> 12501
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1 5 10

<210> 12502
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; R88Q; 1

<400> 12502
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1 5 10

<210> 12503
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; R88Q; 1

<400> 12503
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5                   10


<210> 12504
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; R88Q; 0

<400> 12504
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5                   10


<210> 12505
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; R88Q; 1

<400> 12505
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5                   10


<210> 12506
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PTEN; D92E; 0

<400> 12506
Glu Glu His Asn Pro Pro Gln Leu
1               5


<210> 12507

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PTEN; D92E; 0

<400> 12507
Glu Glu His Asn Pro Pro Gln Leu
1               5


<210> 12508
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PTEN; D92E; 0

<400> 12508
Glu Glu His Asn Pro Pro Gln Leu
1               5


<210> 12509
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PTEN; D92E; 0

<400> 12509
Glu Glu His Asn Pro Pro Gln Leu
1               5


<210> 12510
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PTEN; D92E; 0

<400> 12510
Glu Glu His Asn Pro Pro Gln Leu
1               5


<210> 12511
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PTEN; D92E; 0

<400> 12511
Glu Glu His Asn Pro Pro Gln Leu Glu Leu
1               5                   10


<210> 12512
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PTEN; D92E; 0

<400> 12512
Glu Glu His Asn Pro Pro Gln Leu Glu Leu
1               5                   10


<210> 12513
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; PIK3CA; C420R; 0

<400> 12513
Glu Glu His Arg Pro Leu Ala Trp
1               5


<210> 12514
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; C420R; 1

<400> 12514
Glu Glu His Arg Pro Leu Ala Trp
1               5


<210> 12515
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; K111E; 0

<400> 12515
Glu Glu Ile Leu Asn Arg Glu Ile
1               5


<210> 12516
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; K111E; 0

<400> 12516
Glu Glu Ile Leu Asn Arg Glu Ile
1               5


<210> 12517
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; K111E; 0

<400> 12517
Glu Glu Ile Leu Asn Arg Glu Ile
1               5


<210> 12518
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; K111E; 0

<400> 12518
Glu Glu Ile Leu Asn Arg Glu Ile
1               5


<210> 12519
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; PIK3CA; K111E; 0

<400> 12519
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12520
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; PIK3CA; K111E; 0

<400> 12520
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12521
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; K111E; 0

<400> 12521
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1               5                   10


<210> 12522
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PIK3CA; K111E; 1

<400> 12522
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12523
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<212> PRT
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<220>
<223> Table A; HLA-B*37:01; PIK3CA; K111E; 0

<400> 12523

Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1 5 10

<210> 12524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PIK3CA; K111E; 1

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Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1 5 10

<210> 12525
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; K111E; 0

<400> 12525
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1 5 10

<210> 12526
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; K111E; 0

<400> 12526
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1 5 10

<210> 12527
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; K111E; 1

<400> 12527
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1 5 10

<210> 12528
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; K111E; 1

<400> 12528
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; K111E; 0

<400> 12529
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12530
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; PIK3CA; K111E; 0

<400> 12530
Glu Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SPOP; E50K; 0

<400> 12531
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1               5

<210> 12532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; PIK3CA; K111N; 0

<400> 12532
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1               5


<210> 12533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; K111N; 0

<400> 12533
Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5


<210> 12534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; K111N; 0

<400> 12534
Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5


<210> 12535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; K111N; 0

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1               5


<210> 12536
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; K111N; 0

<400> 12536
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1               5


<210> 12537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; K111N; 0

<400> 12537
Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5


<210> 12538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; K111N; 0

<400> 12538
Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5


<210> 12539
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PIK3CA; K111N; 0

<400> 12539
Glu Glu Asn Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12540
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<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; K111N; 0

<400> 12540
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1               5                   10


<210> 12541
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; K111N; 0

<400> 12541
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1               5                   10


<210> 12542
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; K111N; 0

<400> 12542
Glu Glu Asn Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; NFE2L2; T80P; 0

<400> 12543
Glu Glu Pro Gly Glu Phe Leu Pro Ile
1               5


<210> 12544
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*49:01; NFE2L2; T80P; 0

<400> 12544
Glu Glu Pro Gly Glu Phe Leu Pro Ile
1               5


<210> 12545
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CSMD3; R100Q; 0

<400> 12545
Glu Glu Gln Asn Arg Ile Gln Ile
1               5


<210> 12546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CSMD3; R100Q; 0

<400> 12546
Glu Glu Gln Asn Arg Ile Gln Ile Val
1               5


<210> 12547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CSMD3; R100Q; 0

<400> 12547
Glu Glu Gln Asn Arg Ile Gln Ile Val
1               5


<210> 12548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CSMD3; R100Q; 0

<400> 12548
Glu Glu Gln Asn Arg Ile Gln Ile Val
1               5


<210> 12549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CSMD3; R100Q; 0

<400> 12549
Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5                   10


<210> 12550
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; CSMD3; R100Q; 1

<400> 12550
Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5                   10


<210> 12551
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CSMD3; R100Q; 1

<400> 12551
Glu Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5                   10


<210> 12552
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CSMD3; R100Q; 0

<400> 12552
Glu Glu Gln Asn Arg Ile Gln Ile Val Phe

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<210> 12553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; NFE2L2; E82D; 0

<400> 12553
Glu Glu Thr Gly Asp Phe Leu Pro Ile
1 5

<210> 12554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; NFE2L2; E82D; 0

<400> 12554
Glu Glu Thr Gly Asp Phe Leu Pro Ile
1 5

<210> 12555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SPOP; M117V; 0

<400> 12555
Glu Glu Thr Lys Ala Val Glu Ser Gln Arg
1 5 10

<210> 12556
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CCND1; T286I; 0

<400> 12556
Glu Glu Val Asp Leu Ala Cys Ile
1 5

<210> 12557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; CCND1; T286I; 0

<400> 12557
Glu Glu Val Asp Leu Ala Cys Ile Pro
1               5


<210> 12558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CCND1; T286I; 0

<400> 12558
Glu Glu Val Asp Leu Ala Cys Ile Pro
1               5


<210> 12559
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; R88Q; 0

<400> 12559
Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 12560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; PIK3CA; R88Q; 1

<400> 12560
Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 12561

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; PIK3CA; R88Q; 0

<400> 12561
Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 12562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; FAM135B; S11L; 0

<400> 12562
Glu Phe Leu Val Glu Leu His Lys Phe
1               5


<210> 12563
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; CSMD3; S300F; 0

<400> 12563
Glu Gly Phe Glu Pro Pro Thr Ile
1               5


<210> 12564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; Y205C; 1

<400> 12564
Glu Gly Asn Leu Arg Val Glu Cys Leu
1               5


<210> 12565
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; TP53; Y205C; 0

<400> 12565
Glu Gly Asn Leu Arg Val Glu Cys Leu
1               5


<210> 12566
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; TP53; Y205C; 0

<400> 12566
Glu Gly Asn Leu Arg Val Glu Cys Leu
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<210> 12567
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; PTPRD; R561Q; 0

<400> 12567
Glu His Gly Glu Glu Gln Gln Ile Thr Ile
1               5                   10


<210> 12568
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; PTPRD; R561Q; 0

<400> 12568
Glu His Gly Glu Glu Gln Gln Ile Thr Ile
1               5                   10


<210> 12569
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; DDIT3; R147H; 0

<400> 12569
Glu His Leu Thr Arg Glu Val Glu Ala
1               5


<210> 12570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PTEN; D92E; 0

<400> 12570
Glu His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 12571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PTEN; D92E; 0

<400> 12571
Glu His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 12572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PTEN; D92E; 0

<400> 12572
Glu His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 12573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; PTEN; D92E; 0

<400> 12573
Glu His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 12574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PTEN; D92E; 0

<400> 12574
Glu His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 12575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PTEN; D92E; 0

<400> 12575
Glu His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 12576
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; D92E; 0

<400> 12576
Glu His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 12577
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PTEN; D92E; 0

<400> 12577

Glu His Asn Pro Pro Gln Leu Glu Leu Ile
1 5 10

<210> 12578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CNTNAP2; R283H; 0

<400> 12578
Glu His Gln Gly Arg Ser Ile Asn Leu
1 5

<210> 12579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CNTNAP2; R283H; 0

<400> 12579
Glu His Gln Gly Arg Ser Ile Asn Leu
1 5

<210> 12580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CNTNAP2; R283H; 0

<400> 12580
Glu His Gln Gly Arg Ser Ile Asn Leu
1 5

<210> 12581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; FGFR2; C382R; 0

<400> 12581
Glu Ile Ala Ile Tyr Arg Ile Gly Val
1 5

<210> 12582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; DDIT3; R147H; 0

<400> 12582
Glu Ile Glu His Leu Thr Arg Glu Val
1               5


<210> 12583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; G34E; 0

<400> 12583
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 12584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34E; 0

<400> 12584
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 12585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; G34E; 0

<400> 12585
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5

<210> 12586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; G34E; 1

<400> 12586
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 12587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; G34E; 0

<400> 12587
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 12588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

<400> 12588
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 12589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34E; 0

<400> 12589
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 12590
<211> 10

<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-A*02:03; CTNNB1; G34E; 0

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<210> 12591
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34E; 0

<400> 12591
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1               5                   10


<210> 12592
<211> 10
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34E; 0

<400> 12592
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12593
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CTNNB1; G34E; 0

<400> 12593
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12594
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; G34E; 0

<400> 12594
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 12595
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; CTNNB1; G34E; 0

<400> 12595
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12596
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; G34E; 0

<400> 12596
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12597
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34E; 0

<400> 12597
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12598
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<213> Homo sapiens

<220>

<223> Table A; HLA-A*68:01; CTNNB1; G34E; 0

<400> 12598
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12599
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34E; 0

<400> 12599
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 12600
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34E; 0

<400> 12600
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12601
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34E; 0

<400> 12601
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1               5                   10


<210> 12602
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; G34E; 0

<400> 12602
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12603
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; G34E; 0

<400> 12603
Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12604
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; CDH1; D254Y; 0

<400> 12604
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<210> 12605
<211> 8
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<220>
<223> Table A; HLA-B*35:01; CDH1; D254Y; 1

<400> 12605
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<210> 12606
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CDH1; D254Y; 0

<400> 12606
Glu Ile Leu Ile Thr Val Thr Tyr

1 5

<210> 12607
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; K335I; 0

<400> 12607
Glu Ile Leu Leu Trp Thr Thr Ser Arg
1 5

<210> 12608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; K335I; 1

<400> 12608
Glu Ile Leu Leu Trp Thr Thr Ser Arg
1 5

<210> 12609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTNNB1; K335I; 0

<400> 12609
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1 5

<210> 12610
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; K335I; 0

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1 5

<210> 12611
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; K335I; 1

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Glu Ile Leu Leu Trp Thr Thr Ser Arg
1               5


<210> 12612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; K335I; 0

<400> 12612
Glu Ile Leu Leu Trp Thr Thr Ser Arg
1               5


<210> 12613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; K335I; 0

<400> 12613
Glu Ile Leu Leu Trp Thr Thr Ser Arg Val
1               5                   10


<210> 12614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; PIK3CA; K111E; 0

<400> 12614
Glu Ile Leu Asn Arg Glu Ile Gly Phe
1               5


<210> 12615

<211> 9
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<220>
<223> Table A; HLA-A*25:01; PIK3CA; K111E; 0

<400> 12615
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1               5


<210> 12616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; PIK3CA; K111E; 0

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1               5


<210> 12617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; PIK3CA; K111E; 0

<400> 12617
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1               5


<210> 12618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3CA; K111E; 0

<400> 12618
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1               5


<210> 12619
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PIK3CA; K111E; 1

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1               5


<210> 12620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PIK3CA; K111E; 0

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1               5


<210> 12621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; FAM135B; S11L; 0

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1               5


<210> 12622
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; FAM135B; S11L; 0

<400> 12622
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1               5


<210> 12623
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3CA; Q546P; 0

<400> 12623
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1               5                   10


<210> 12624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; MAX; R60Q; 0

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1               5


<210> 12625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; R337L; 1

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1               5


<210> 12626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; R337L; 0

<400> 12626
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1               5


<210> 12627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; R337L; 0

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Glu Leu Phe Glu Met Phe Arg Glu Leu
1               5


<210> 12628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; R337L; 0

<400> 12628
Glu Leu Phe Glu Met Phe Arg Glu Leu
1               5


<210> 12629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; R337L; 0

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1               5


<210> 12630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; STAG2; R370Q; 0

<400> 12630
Glu Leu Phe Thr Ser Gln Phe Lys Asp Arg
1               5                   10


<210> 12631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; STAG2; R370Q; 0

<400> 12631

Glu Leu Phe Thr Ser Gln Phe Lys Asp Arg
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<210> 12632
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; STAG2; R370Q; 0

<400> 12632
Glu Leu Phe Thr Ser Gln Phe Lys Asp Arg Ile
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<210> 12633
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CHD4; R975H; 0

<400> 12633
Glu Leu Ile Val His Val Glu Leu
1 5

<210> 12634
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CHD4; R975H; 0

<400> 12634
Glu Leu Ile Val His Val Glu Leu
1 5

<210> 12635
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CHD4; R975H; 0

<400> 12635
Glu Leu Ile Val His Val Glu Leu
1 5

<210> 12636
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CHD4; R975H; 0

<400> 12636
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12637
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CHD4; R975H; 0

<400> 12637
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12638
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CHD4; R975H; 1

<400> 12638
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12639
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CHD4; R975H; 1

<400> 12639
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1               5

<210> 12640
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:01; CHD4; R975H; 0

<400> 12640
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1               5


<210> 12641
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; CHD4; R975H; 0

<400> 12641
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<210> 12642
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; CHD4; R975H; 0

<400> 12642
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1               5


<210> 12643
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; CHD4; R975H; 1

<400> 12643
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1               5


<210> 12644
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CHD4; R975H; 0

<400> 12644
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CHD4; R975H; 0

<400> 12645
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12646
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CHD4; R975H; 1

<400> 12646
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12647
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CHD4; R975H; 0

<400> 12647
Glu Leu Ile Val His Val Glu Leu
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<210> 12648
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*41:02; CHD4; R975H; 0

<400> 12648
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12649
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CHD4; R975H; 0

<400> 12649
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12650
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CHD4; R975H; 0

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Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12651
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CHD4; R975H; 0

<400> 12651
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12652
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*08:03; CHD4; R975H; 0

<400> 12652
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12653
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; CHD4; R975H; 0

<400> 12653
Glu Leu Ile Val His Val Glu Leu
1               5


<210> 12654
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RUNX1T1; D198N; 0

<400> 12654
Glu Leu Leu Leu Asn Val Asn Glu Asn Gly Lys
1               5                   10


<210> 12655
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; PIK3CA; K111N; 0

<400> 12655
Glu Asn Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 12656
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; BCORL1; K1207N; 1

<400> 12656
Glu Asn Lys Ala Lys Ser Ser Phe
1               5


<210> 12657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; BCORL1; K1207N; 0

<400> 12657
Glu Asn Lys Ala Lys Ser Ser Phe Arg
1               5


<210> 12658
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; PIK3R1; K567E; 0

<400> 12658
Glu Pro Asp Leu Ile Gln Leu Arg
1               5


<210> 12659
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*35:02; TNC; L1626I; 0

<400> 12659
Glu Pro Glu Val Asp Asn Ile Leu
1               5


<210> 12660
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; TNC; L1626I; 0

<400> 12660
Glu Pro Glu Val Asp Asn Ile Leu

1 5

<210> 12661
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; NFE2L2; T80P; 0

<400> 12661
Glu Pro Gly Glu Phe Leu Pro Ile Gln Pro Ala
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<210> 12662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; MTOR; A2056V; 0

<400> 12662
Glu Pro Leu His Val Met Met Glu Arg
1 5

<210> 12663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MTOR; A2056V; 0

<400> 12663
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1 5

<210> 12664
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; MTOR; A2056V; 0

<400> 12664
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1 5

<210> 12665
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CNTNAP2; G362E; 0

<400> 12665
Glu Pro Ser Asn Val Glu Asn Leu Ser Phe
1               5                   10


<210> 12666
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CNTNAP2; G362E; 1

<400> 12666
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1               5                   10


<210> 12667
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CNTNAP2; G362E; 0

<400> 12667
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1               5                   10


<210> 12668
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CNTNAP2; G362E; 0

<400> 12668
Glu Pro Ser Asn Val Glu Asn Leu Ser Phe
1               5                   10


<210> 12669

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CNTNAP2; G362E; 0

<400> 12669
Glu Pro Ser Asn Val Glu Asn Leu Ser Phe
1               5                   10


<210> 12670
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CNTNAP2; G362E; 0

<400> 12670
Glu Pro Ser Asn Val Glu Asn Leu Ser Phe
1               5                   10


<210> 12671
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; PIK3CA; K111E; 0

<400> 12671
Glu Pro Val Gly Asn Arg Glu Glu Glu Ile Leu
1               5                   10


<210> 12672
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PIK3CA; K111E; 0

<400> 12672
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1               5                   10


<210> 12673
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PIK3CA; K111E; 0

<400> 12673
Glu Pro Val Gly Asn Arg Glu Glu Glu Ile Leu
1               5                   10


<210> 12674
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; PIK3CA; K111N; 1

<400> 12674
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1               5                   10


<210> 12675
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; PIK3CA; K111N; 0

<400> 12675
Glu Pro Val Gly Asn Arg Glu Glu Asn Ile Leu
1               5                   10


<210> 12676
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PIK3CA; K111N; 0

<400> 12676
Glu Pro Val Gly Asn Arg Glu Glu Asn Ile Leu
1               5                   10


<210> 12677
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PIK3CA; K111N; 0

<400> 12677
Glu Pro Val Gly Asn Arg Glu Glu Asn Ile Leu
1               5                   10


<210> 12678
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CNTNAP2; T373M; 0

<400> 12678
Glu Pro Tyr Met Val Pro Val Phe
1               5


<210> 12679
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CNTNAP2; T373M; 1

<400> 12679
Glu Pro Tyr Met Val Pro Val Phe
1               5


<210> 12680
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CNTNAP2; T373M; 1

<400> 12680
Glu Pro Tyr Met Val Pro Val Phe
1               5


<210> 12681
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CNTNAP2; T373M; 0

<400> 12681
Glu Pro Tyr Met Val Pro Val Phe
1               5


<210> 12682
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CNTNAP2; T373M; 0

<400> 12682
Glu Pro Tyr Met Val Pro Val Phe
1               5


<210> 12683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CNTNAP2; T373M; 0

<400> 12683
Glu Pro Tyr Met Val Pro Val Phe Phe
1               5


<210> 12684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CNTNAP2; T373M; 1

<400> 12684
Glu Pro Tyr Met Val Pro Val Phe Phe
1               5


<210> 12685
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CNTNAP2; T373M; 0

<400> 12685

Glu Pro Tyr Met Val Pro Val Phe Phe
1               5


<210> 12686
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CSMD3; R100Q; 0

<400> 12686
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5


<210> 12687
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*32:01; CSMD3; R100Q; 0

<400> 12687
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5


<210> 12688
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:01; CSMD3; R100Q; 0

<400> 12688
Glu Gln Asn Arg Ile Gln Ile Val Phe
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<210> 12689
<211> 9
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<220>
<223> Table A; HLA-B*13:02; CSMD3; R100Q; 0

<400> 12689
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5

<210> 12690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CSMD3; R100Q; 1

<400> 12690
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5


<210> 12691
<211> 9
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<220>
<223> Table A; HLA-B*15:02; CSMD3; R100Q; 0

<400> 12691
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5


<210> 12692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CSMD3; R100Q; 0

<400> 12692
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5


<210> 12693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CSMD3; R100Q; 0

<400> 12693
Glu Gln Asn Arg Ile Gln Ile Val Phe
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<210> 12694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CSMD3; R100Q; 0

<400> 12694
Glu Gln Asn Arg Ile Gln Ile Val Phe
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<210> 12695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; CSMD3; R100Q; 1

<400> 12695
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5


<210> 12696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CSMD3; R100Q; 1

<400> 12696
Glu Gln Asn Arg Ile Gln Ile Val Phe
1               5


<210> 12697
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CSMD3; R100Q; 0

<400> 12697
Glu Gln Asn Arg Ile Gln Ile Val Phe
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<210> 12698
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CSMD3; R100Q; 0

<400> 12698
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1               5


<210> 12699
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; CSMD3; R100Q; 0

<400> 12699
Glu Gln Asn Arg Ile Gln Ile Val Phe
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<210> 12700
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SF3B1; K700E; 0

<400> 12700
Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 12701
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; K700E; 0

<400> 12701
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1               5


<210> 12702
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SF3B1; K700E; 0

<400> 12702
Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 12703
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; SF3B1; K700E; 0

<400> 12703
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala
1               5                   10


<210> 12704
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; K700E; 0

<400> 12704
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala
1               5                   10


<210> 12705
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*25:01; SF3B1; K700E; 0

<400> 12705
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5                   10


<210> 12706
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*26:02; SF3B1; K700E; 0

<400> 12706
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5                   10


<210> 12707
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; K700E; 0

<400> 12707
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5                   10


<210> 12708
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SF3B1; K700E; 1

<400> 12708
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1               5                   10


<210> 12709
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; SF3B1; K700E; 0

<400> 12709
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5                   10


<210> 12710
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SF3B1; K700E; 0

<400> 12710
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1 5 10

<210> 12711
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SF3B1; K700E; 0

<400> 12711
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1 5 10

<210> 12712
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; SF3B1; K700E; 0

<400> 12712
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1 5 10

<210> 12713
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

<400> 12713
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1 5 10

<210> 12714
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SF3B1; K700E; 0

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Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu

1 5 10

<210> 12715
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; NFE2L2; E79Q; 0

<400> 12715
Glu Gln Thr Gly Glu Phe Leu Pro Ile
1 5

<210> 12716
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; NFE2L2; E79Q; 0

<400> 12716
Glu Gln Thr Gly Glu Phe Leu Pro Ile
1 5

<210> 12717
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; NFE2L2; E79Q; 0

<400> 12717
Glu Gln Thr Gly Glu Phe Leu Pro Ile
1 5

<210> 12718
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; NFE2L2; E79Q; 0

<400> 12718
Glu Gln Thr Gly Glu Phe Leu Pro Ile
1 5

<210> 12719
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; PDE4DIP; C1297R; 0

<400> 12719
Glu Arg Glu Glu His Asn Ser Leu
1               5


<210> 12720
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G266E; 0

<400> 12720
Glu Arg Asn Ser Phe Glu Val Arg
1               5


<210> 12721
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; G266E; 0

<400> 12721
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 12722
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; TP53; G266E; 0

<400> 12722
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 12723

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; G266E; 0

<400> 12723
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 12724
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; TP53; G266E; 0

<400> 12724
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 12725
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; TP53; G266E; 0

<400> 12725
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 12726
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; TP53; G266E; 0

<400> 12726
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 12727
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; TP53; G266E; 0

<400> 12727
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 12728
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; ARID1A; G2087R; 0

<400> 12728
Glu Ser Ile Cys Leu Pro Val Leu Asp Arg
1               5                   10


<210> 12729
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SPOP; R121Q; 0

<400> 12729
Glu Ser Gln Gln Ala Tyr Arg Phe Val
1               5


<210> 12730
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; STAG1; A116T; 0

<400> 12730
Glu Ser Tyr Lys Gln Asp Arg Asp Ile Thr Leu
1               5                   10


<210> 12731
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; POLE; S297F; 1

<400> 12731
Glu Thr Asp Gln Ile Met Met Ile Phe Tyr
1               5                   10


<210> 12732
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; NFE2L2; E82D; 0

<400> 12732
Glu Thr Gly Asp Phe Leu Pro Ile Gln Pro
1               5                   10


<210> 12733
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; NFE2L2; E82D; 0

<400> 12733
Glu Thr Gly Asp Phe Leu Pro Ile Gln Pro Ala
1               5                   10


<210> 12734
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SPOP; R121Q; 0

<400> 12734
Glu Thr Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5                   10


<210> 12735
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; SPOP; M117V; 0

<400> 12735
Glu Thr Lys Ala Val Glu Ser Gln Arg
1               5


<210> 12736
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; SPOP; M117V; 0

<400> 12736
Glu Thr Lys Ala Val Glu Ser Gln Arg
1               5


<210> 12737
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; SPOP; M117V; 0

<400> 12737
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1               5


<210> 12738
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SPOP; M117V; 0

<400> 12738
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1               5


<210> 12739
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SPOP; M117V; 0

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Glu Thr Lys Ala Val Glu Ser Gln Arg
1 5

<210> 12740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; SPOP; M117V; 0

<400> 12740
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<210> 12741
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SPOP; M117V; 0

<400> 12741
Glu Thr Lys Ala Val Glu Ser Gln Arg Ala Tyr
1 5 10

<210> 12742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; R88Q; 0

<400> 12742
Glu Thr Arg Gln Leu Cys Asp Leu Arg
1 5

<210> 12743
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; GRIN2A; R1067W; 0

<400> 12743
Glu Thr Ser Asn Trp Ala Thr Cys His Arg
1 5 10

<210> 12744
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; KRAS; A146T; 0

<400> 12744
Glu Thr Ser Thr Lys Thr Arg Gln Gly Val
1               5                   10


<210> 12745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; SIRPA; V233I; 0

<400> 12745
Glu Val Ala His Ile Thr Leu Gln Gly
1               5


<210> 12746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SIRPA; V233I; 0

<400> 12746
Glu Val Ala His Ile Thr Leu Gln Gly
1               5


<210> 12747
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNND1; A781T; 0

<400> 12747
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5

<210> 12748
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNND1; A781T; 0

<400> 12748
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5


<210> 12749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CTNND1; A781T; 0

<400> 12749
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5


<210> 12750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNND1; A781T; 0

<400> 12750
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5


<210> 12751
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:03; CTNND1; A781T; 0

<400> 12751
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5


<210> 12752
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 12752
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1               5


<210> 12753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 12753
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1               5


<210> 12754
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNND1; A781T; 0

<400> 12754
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5


<210> 12755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNND1; A781T; 0

<400> 12755
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5


<210> 12756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNND1; A781T; 0

<400> 12756
Glu Val Ile Thr Glu Asn Leu Glu Ala
1               5


<210> 12757
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNND1; A781T; 0

<400> 12757
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12758
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNND1; A781T; 0

<400> 12758
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12759
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNND1; A781T; 0

<400> 12759
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12760
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<220>

<223> Table A; HLA-A*25:01; CTNND1; A781T; 0

<400> 12760
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12761
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNND1; A781T; 0

<400> 12761
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12762
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; CTNND1; A781T; 0

<400> 12762
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12763
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*26:03; CTNND1; A781T; 0

<400> 12763
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12764
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNND1; A781T; 0

<400> 12764
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12765
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 12765
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12766
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 12766
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12767
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; CTNND1; A781T; 0

<400> 12767
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5                   10


<210> 12768
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNND1; A781T; 0

<400> 12768
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala

1 5 10

<210> 12769
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNND1; A781T; 0

<400> 12769
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
1 5 10

<210> 12770
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNND1; A781T; 0

<400> 12770
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1 5 10

<210> 12771
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNND1; A781T; 0

<400> 12771
Glu Val Ile Thr Glu Asn Leu Glu Ala Ala Lys
1 5 10

<210> 12772
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNND1; A781T; 0

<400> 12772
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1 5 10

<210> 12773
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNND1; A781T; 0

<400> 12773
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1               5                   10


<210> 12774
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNND1; A781T; 0

<400> 12774
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1               5                   10


<210> 12775
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNND1; A781T; 0

<400> 12775
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1               5                   10


<210> 12776
<211> 11
<212> PRT
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<210> 12777

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<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

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1               5                   10


<210> 12778
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<223> Table A; HLA-B*27:02; CTNND1; A781T; 0

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1               5                   10


<210> 12779
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<223> Table A; HLA-A*68:02; MTOR; A2056V; 0

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1               5


<210> 12780
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<212> PRT
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<223> Table A; HLA-B*13:02; MTOR; A2056V; 0

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1               5


<210> 12781
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; MTOR; A2056V; 0

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1               5


<210> 12782
<211> 8
<212> PRT
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<223> Table A; HLA-B*51:01; MTOR; A2056V; 1

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1               5


<210> 12783
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; MTOR; A2056V; 0

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1               5


<210> 12784
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<212> PRT
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<223> Table A; HLA-A*26:01; MTOR; A2056V; 0

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<210> 12785
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<223> Table A; HLA-A*26:02; MTOR; A2056V; 0

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<223> Table A; HLA-A*26:03; MTOR; A2056V; 0

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<210> 12787
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<223> Table A; HLA-A*33:01; MTOR; A2056V; 0

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<210> 12788
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<223> Table A; HLA-A*33:03; MTOR; A2056V; 0

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<223> Table A; HLA-A*68:02; MTOR; A2056V; 0

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<223> Table A; HLA-B*15:02; MTOR; A2056V; 0

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<223> Table A; HLA-B*35:01; MTOR; A2056V; 1

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<212> PRT
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<223> Table A; HLA-B*35:03; MTOR; A2056V; 0

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<223> Table A; HLA-B*54:01; MTOR; A2056V; 0

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<223> Table A; HLA-C*08:01; MTOR; A2056V; 0

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<220>
<223> Table A; HLA-A*26:02; MTOR; A2056V; 0

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<223> Table A; HLA-A*33:03; MTOR; A2056V; 0

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<223> Table A; HLA-A*68:01; MTOR; A2056V; 0

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<220>
<223> Table A; HLA-A*68:02; MTOR; A2056V; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; SF3B1; K700E; 0

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<210> 12801
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SF3B1; K700E; 0

<400> 12801
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<210> 12802
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<220>
<223> Table A; HLA-A*26:02; SF3B1; K700E; 0

<400> 12802
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<210> 12803
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<220>
<223> Table A; HLA-A*26:03; SF3B1; K700E; 0

<400> 12803
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<210> 12804
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-A*33:03; SF3B1; K700E; 0

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<210> 12806
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; SF3B1; K700E; 1

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<210> 12807
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; SF3B1; K700E; 1

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<210> 12808
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<212> PRT
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<220>
<223> Table A; HLA-B*14:01; SF3B1; K700E; 0

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<210> 12809
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<212> PRT
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<223> Table A; HLA-B*14:02; SF3B1; K700E; 0

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<210> 12810
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<212> PRT
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<223> Table A; HLA-B*15:01; SF3B1; K700E; 1

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<210> 12811
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; SF3B1; K700E; 0

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1               5


<210> 12812
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<212> PRT
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<223> Table A; HLA-B*40:02; SF3B1; K700E; 0

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1               5


<210> 12813
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

<400> 12813
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1               5


<210> 12814
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<223> Table A; HLA-C*08:01; SF3B1; K700E; 0

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1               5


<210> 12815
<211> 8
<212> PRT
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<223> Table A; HLA-C*12:03; SF3B1; K700E; 1

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1               5


<210> 12816
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SF3B1; K700E; 0

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1               5


<210> 12817
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; K700E; 0

<400> 12817
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1               5


<210> 12818
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; K700E; 0

<400> 12818
Glu Val Arg Thr Ile Ser Ala Leu Ala Ile
1               5                   10


<210> 12819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTCF; K365T; 0

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1               5


<210> 12820
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTCF; K365T; 0

<400> 12820
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<210> 12821
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RHOA; Y42C; 0

<400> 12821
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1               5                   10


<210> 12822
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; NRAS; G13R; 0

<400> 12822
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1 5 10

<210> 12823
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; NRAS; G13R; 0

<400> 12823
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1 5 10

<210> 12824
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; NRAS; G13R; 0

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1 5 10

<210> 12825
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; KRAS; G12R; 0

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1 5 10

<210> 12826
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; KRAS; G12S; 0

<400> 12826
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1 5 10

<210> 12827
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; H214R; 0

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1               5                   10


<210> 12828
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:03; SF3B1; R625C; 0

<400> 12828
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<210> 12829
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; SF3B1; R625C; 0

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<210> 12830
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SF3B1; R625C; 0

<400> 12830
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<210> 12831

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SF3B1; R625C; 0

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<210> 12832
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; SF3B1; R625C; 0

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<210> 12833
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; SF3B1; R625C; 0

<400> 12833
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<210> 12834
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SF3B1; R625H; 0

<400> 12834
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<210> 12835
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; SF3B1; R625H; 0

<400> 12835
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<210> 12836
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*25:01; SF3B1; R625H; 0

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<210> 12837
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SF3B1; R625H; 0

<400> 12837
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<210> 12838
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:03; SF3B1; R625H; 0

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<210> 12839
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; SF3B1; R625H; 0

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<210> 12840
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; SF3B1; R625H; 0

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<210> 12841
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<212> PRT
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<223> Table A; HLA-A*33:01; SF3B1; R625H; 0

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<210> 12842
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; SF3B1; R625H; 0

<400> 12842
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<210> 12843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; R625H; 0

<400> 12843
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<210> 12844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R625H; 0

<400> 12844
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<210> 12845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SF3B1; R625H; 0

<400> 12845
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<210> 12846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SF3B1; R625H; 0

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<210> 12847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R625H; 0

<400> 12847

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<210> 12848
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; SF3B1; R625H; 0

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<210> 12849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R625H; 0

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1 5 10

<210> 12850
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; SF3B1; R625H; 0

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1 5 10

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<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; SF3B1; R625H; 1

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Glu Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1 5 10

<210> 12852
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; SF3B1; R625H; 0

<400> 12852
Glu Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 12853
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SF3B1; R625H; 0

<400> 12853
Glu Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 12854
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TPR; S2155L; 0

<400> 12854
Phe Ala Glu Ala Ile His Leu Pro Gln Val
1               5                   10


<210> 12855
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TPR; S2155L; 0

<400> 12855
Phe Ala Glu Ala Ile His Leu Pro Gln Val
1               5                   10

<210> 12856
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TPR; S2155L; 0

<400> 12856
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1 5 10

<210> 12857
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; TPR; S2155L; 0

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1 5 10

<210> 12858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; ATM; R2691C; 0

<400> 12858
Phe Cys Leu Ala Gly Gly Val Asn Leu
1 5

<210> 12859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; ATM; R2691C; 1

<400> 12859
Phe Cys Leu Ala Gly Gly Val Asn Leu
1 5

<210> 12860
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; ATM; R2691C; 0

<400> 12860
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1               5


<210> 12861
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; S241F; 0

<400> 12861
Phe Cys Met Gly Gly Met Asn Arg
1               5


<210> 12862
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; S241F; 0

<400> 12862
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1               5


<210> 12863
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; C141Y; 0

<400> 12863
Phe Cys Gln Leu Ala Lys Thr Tyr
1               5


<210> 12864
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; TP53; C141Y; 0

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1               5


<210> 12865
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KEAP1; G480W; 1

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1               5                   10


<210> 12866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PTEN; D92E; 1

<400> 12866
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1               5


<210> 12867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PTEN; D92E; 0

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1               5


<210> 12868
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*30:01; PTEN; D92E; 0

<400> 12868
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1               5


<210> 12869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; PTEN; D92E; 0

<400> 12869
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1               5


<210> 12870
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PTEN; D92E; 0

<400> 12870
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1               5


<210> 12871
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*40:01; PTEN; D92E; 0

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<223> Table A; HLA-B*40:02; PTEN; D92E; 0

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<210> 12875
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<223> Table A; HLA-B*44:05; PTEN; D92E; 0

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<223> Table A; HLA-B*49:01; PTEN; D92E; 0

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<223> Table A; HLA-A*68:02; RHOA; Y42C; 0

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<212> PRT
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<223> Table A; HLA-B*40:02; RHOA; Y42C; 0

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<223> Table A; HLA-B*40:02; TP53; R273H; 0

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<223> Table A; HLA-B*50:01; TP53; R273H; 0

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<210> 12884
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<220>
<223> Table A; HLA-A*02:03; MTOR; A2056V; 0

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<223> Table A; HLA-A*30:01; MTOR; A2056V; 0

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<223> Table A; HLA-A*68:02; MTOR; A2056V; 0

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<223> Table A; HLA-B*40:01; MTOR; A2056V; 1

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<213> Homo sapiens

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<223> Table A; HLA-B*44:03; MTOR; A2056V; 1

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<220>
<223> Table A; HLA-B*40:02; TP53; R273L; 0

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<220>
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<220>
<223> Table A; HLA-B*40:02; TP53; R273S; 0

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<220>
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<223> Table A; HLA-B*49:01; TP53; R273S; 0

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<223> Table A; HLA-C*04:01; PIK3CA; R88Q; 1

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<220>
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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; PIK3CA; R88Q; 1

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<223> Table A; HLA-C*14:02; PIK3CA; R88Q; 1

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<212> PRT
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<220>
<223> Table A; HLA-C*14:03; PIK3CA; R88Q; 0

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<212> PRT
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<223> Table A; HLA-C*04:01; PIK3CA; R88Q; 1

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1               5


<210> 12914
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; ARID2; S297F; 0

<400> 12914
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<210> 12915
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<220>
<223> Table A; HLA-B*38:01; ARID2; S297F; 0

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<210> 12916
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<220>
<223> Table A; HLA-B*39:01; ARID2; S297F; 0

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<210> 12917
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<220>
<223> Table A; HLA-B*48:01; ARID2; S297F; 0

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<210> 12918
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<220>
<223> Table A; HLA-C*01:02; ARID2; S297F; 0

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<210> 12919
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<220>
<223> Table A; HLA-C*04:01; ARID2; S297F; 1

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<220>
<223> Table A; HLA-C*05:01; ARID2; S297F; 1

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<210> 12921
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<223> Table A; HLA-C*08:02; ARID2; S297F; 1

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<210> 12922
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<223> Table A; HLA-C*14:02; ARID2; S297F; 0

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<223> Table A; HLA-C*01:02; ARID2; S297F; 0

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<210> 12924
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<220>
<223> Table A; HLA-C*03:04; ARID2; S297F; 1

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<223> Table A; HLA-C*14:02; ARID2; S297F; 0

<400> 12925
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<210> 12926
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<223> Table A; HLA-C*14:02; RSPO2; R64Q; 0

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<210> 12927
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<223> Table A; HLA-C*14:02; KDR; S1100F; 0

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<223> Table A; HLA-C*14:02; RSPO2; R64Q; 0

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<210> 12929
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<223> Table A; HLA-B*39:06; CTNNB1; S37F; 0

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<210> 12930
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<223> Table A; HLA-A*02:01; CTNNB1; S37F; 1

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<223> Table A; HLA-A*68:01; CTNNB1; S37F; 1

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<212> PRT
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<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

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<212> PRT
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<223> Table A; HLA-B*15:10; CTNNB1; S37F; 0

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<212> PRT
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<223> Table A; HLA-B*35:03; CTNNB1; S37F; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37F; 0

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<223> Table A; HLA-B*40:02; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-C*03:04; CTNNB1; S37F; 1

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<210> 12939

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-A*02:05; MYCN; P44L; 0

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<223> Table A; HLA-B*35:02; MYCN; P44L; 0

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<210> 12942
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<220>
<223> Table A; HLA-B*35:03; MYCN; P44L; 0

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<210> 12943
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; MYCN; P44L; 0

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<210> 12944
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<220>
<223> Table A; HLA-B*38:01; MYCN; P44L; 0

<400> 12944
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<210> 12945
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<220>
<223> Table A; HLA-B*39:01; MYCN; P44L; 0

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<210> 12946
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; MYCN; P44L; 0

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<210> 12947
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<220>
<223> Table A; HLA-C*03:03; MYCN; P44L; 1

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<210> 12948
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<220>
<223> Table A; HLA-C*03:04; MYCN; P44L; 1

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<223> Table A; HLA-C*07:04; MYCN; P44L; 0

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<210> 12950
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<220>
<223> Table A; HLA-C*08:01; MYCN; P44L; 0

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<210> 12951
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33F; 0

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<210> 12952
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33F; 0

<400> 12952
Phe Gly Ile His Ser Gly Ala Thr Thr
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<210> 12953
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<220>
<223> Table A; HLA-B*15:10; CTNNB1; S33F; 0

<400> 12953
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<210> 12954
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; CTNNB1; S33F; 0

<400> 12954
Phe Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 12955
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33F; 0

<400> 12955

Phe Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 12956
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33F; 0

<400> 12956
Phe Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 12957
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<212> PRT
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<220>
<223> Table A; HLA-C*03:04; CTNNB1; S33F; 1

<400> 12957
Phe Gly Ile His Ser Gly Ala Thr Thr
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<210> 12958
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S33F; 1

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<210> 12959
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

<400> 12959
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<210> 12960
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33F; 0

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<210> 12961
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33F; 1

<400> 12961
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1               5                   10


<210> 12962
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S33F; 0

<400> 12962
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1               5                   10


<210> 12963
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33F; 0

<400> 12963
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1               5                   10

<210> 12964
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S33F; 1

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<210> 12965
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S33F; 1

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<210> 12966
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<223> Table A; HLA-B*15:01; CTNNB1; S33F; 1

<400> 12966
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1               5                   10


<210> 12967
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; S33F; 0

<400> 12967
Phe Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12968
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

<400> 12968
Phe Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12969
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S33F; 0

<400> 12969
Phe Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33F; 0

<400> 12970
Phe Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 12971
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; EGFR; L861Q; 1

<400> 12971
Phe Gly Leu Ala Lys Gln Leu Gly Ala
1               5


<210> 12972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; EGFR; L861Q; 0

<400> 12972
Phe Gly Leu Ala Lys Gln Leu Gly Ala
1               5


<210> 12973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; EGFR; L861Q; 0

<400> 12973
Phe Gly Leu Ala Lys Gln Leu Gly Ala
1               5


<210> 12974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; BRAF; K601E; 0

<400> 12974
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1               5


<210> 12975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; BRAF; K601E; 1

<400> 12975
Phe Gly Leu Ala Thr Val Glu Ser Arg Trp
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<210> 12976
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:03; EGFR; L858R; 0

<400> 12976
Phe Gly Arg Ala Lys Leu Leu Gly Ala
1               5


<210> 12977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TRRAP; S722F; 0

<400> 12977
Phe Gly Ser Val Phe Leu Phe Ala Ala
1               5


<210> 12978
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; KNSTRN; S24F; 0

<400> 12978
Phe His Pro Leu Pro Pro Ser Tyr
1               5


<210> 12979
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; A146T; 0

<400> 12979
Phe Ile Glu Thr Ser Thr Lys Thr Arg
1               5


<210> 12980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; A146T; 0

<400> 12980
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1               5


<210> 12981
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TRRAP; S722F; 1

<400> 12981
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met
1               5                   10


<210> 12982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TRRAP; S722F; 0

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1               5                   10


<210> 12983
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TRRAP; S722F; 0

<400> 12983
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met
1               5                   10


<210> 12984
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TRRAP; S722F; 0

<400> 12984
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met

1 5 10

<210> 12985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TRRAP; S722F; 0

<400> 12985
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met
1 5 10

<210> 12986
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TRRAP; S722F; 0

<400> 12986
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met
1 5 10

<210> 12987
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; TRRAP; S722F; 0

<400> 12987
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met
1 5 10

<210> 12988
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; TRRAP; S722F; 0

<400> 12988
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met
1 5 10

<210> 12989
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; TRRAP; S722F; 0

<400> 12989
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met
1               5                   10


<210> 12990
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TRRAP; S722F; 1

<400> 12990
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1               5                   10


<210> 12991
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; TRRAP; S722F; 0

<400> 12991
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1               5                   10


<210> 12992
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TRRAP; S722F; 0

<400> 12992
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met Leu
1               5                   10


<210> 12993

<211> 11
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<220>
<223> Table A; HLA-A*02:05; TRRAP; S722F; 0

<400> 12993
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<210> 12994
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; TRRAP; S722F; 0

<400> 12994
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met Leu
1               5                   10


<210> 12995
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; TRRAP; S722F; 0

<400> 12995
Phe Leu Phe Ala Ala Glu Asn Glu Gln Met Leu
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<210> 12996
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; RAC1; P29L; 0

<400> 12996
Phe Leu Gly Glu Tyr Ile Pro Thr
1               5


<210> 12997
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RAC1; P29L; 1

<400> 12997
Phe Leu Gly Glu Tyr Ile Pro Thr Val
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<210> 12998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; P29L; 0

<400> 12998
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 12999
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; RAC1; P29L; 0

<400> 12999
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; RAC1; P29L; 0

<400> 13000
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; RAC1; P29L; 0

<400> 13001
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13002
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; RAC1; P29L; 0

<400> 13002
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; RAC1; P29L; 0

<400> 13003
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13004
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; RAC1; P29L; 0

<400> 13004
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 13005
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; RAC1; P29L; 1

<400> 13006
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; RAC1; P29L; 0

<400> 13007
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; RAC1; P29L; 0

<400> 13008
Phe Leu Gly Glu Tyr Ile Pro Thr Val
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<210> 13009
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; RAC1; P29L; 0

<400> 13009

Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; RAC1; P29L; 0

<400> 13010
Phe Leu Gly Glu Tyr Ile Pro Thr Val
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<210> 13011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; RAC1; P29L; 0

<400> 13011
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13012
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; RAC1; P29L; 0

<400> 13012
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; RAC1; P29L; 1

<400> 13013
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5

<210> 13014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; RAC1; P29L; 0

<400> 13014
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1               5


<210> 13015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; RAC1; P29L; 0

<400> 13015
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13016
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; RAC1; P29L; 0

<400> 13016
Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13017
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RAC1; P29L; 1

<400> 13017
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1               5                   10

<210> 13018
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; P29L; 0

<400> 13018
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13019
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; RAC1; P29L; 0

<400> 13019
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13020
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; RAC1; P29L; 0

<400> 13020
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13021
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; RAC1; P29L; 0

<400> 13021
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13022
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; RAC1; P29L; 1

<400> 13022
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13023
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; P29L; 1

<400> 13023
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13024
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; RAC1; P29L; 0

<400> 13024
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13025
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RAC1; P29L; 0

<400> 13025
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13026
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RAC1; P29L; 1

<400> 13026
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; RAC1; P29L; 0

<400> 13027
Phe Leu Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PIK3CA; G106V; 1

<400> 13028
Phe Leu Lys Val Ile Glu Pro Val Val
1               5


<210> 13029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; G106V; 0

<400> 13029
Phe Leu Lys Val Ile Glu Pro Val Val
1               5


<210> 13030
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:04; PIK3CA; G106V; 0

<400> 13030
Phe Leu Lys Val Ile Glu Pro Val Val
1               5


<210> 13031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; G106V; 0

<400> 13031
Phe Leu Lys Val Ile Glu Pro Val Val
1               5


<210> 13032
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3CA; G106V; 0

<400> 13032
Phe Leu Lys Val Ile Glu Pro Val Val Asn Arg
1               5                   10


<210> 13033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; R110L; 1

<400> 13033
Phe Leu Leu Gly Phe Leu His Ser Gly
1               5


<210> 13034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; R110L; 0

<400> 13034
Phe Leu Leu Gly Phe Leu His Ser Gly
1               5


<210> 13035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; R110L; 0

<400> 13035
Phe Leu Leu Gly Phe Leu His Ser Gly Thr Ala
1               5                   10


<210> 13036
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; MAP2K1; K57N; 0

<400> 13036
Phe Leu Thr Gln Asn Gln Lys Val
1               5


<210> 13037
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; MAP2K1; K57N; 0

<400> 13037
Phe Leu Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5                   10


<210> 13038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PIK3CA; M1043I; 1

<400> 13038
Phe Met Lys Gln Ile Asn Asp Ala His

1 5

<210> 13039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; H1047L; 0

<400> 13039
Phe Met Lys Gln Met Asn Asp Ala Leu
1 5

<210> 13040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; H1047L; 0

<400> 13040
Phe Met Lys Gln Met Asn Asp Ala Leu
1 5

<210> 13041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PIK3CA; H1047L; 1

<400> 13041
Phe Met Lys Gln Met Asn Asp Ala Leu
1 5

<210> 13042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; PIK3CA; H1047L; 0

<400> 13042
Phe Met Lys Gln Met Asn Asp Ala Leu
1 5

<210> 13043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PIK3CA; H1047L; 0

<400> 13043
Phe Met Lys Gln Met Asn Asp Ala Leu
1               5


<210> 13044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; H1047R; 1

<400> 13044
Phe Met Lys Gln Met Asn Asp Ala Arg
1               5


<210> 13045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; H1047R; 0

<400> 13045
Phe Met Lys Gln Met Asn Asp Ala Arg
1               5


<210> 13046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; PIK3CA; H1047Y; 0

<400> 13046
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13047

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; PIK3CA; H1047Y; 0

<400> 13047
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; PIK3CA; H1047Y; 0

<400> 13048
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PIK3CA; H1047Y; 1

<400> 13049
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PIK3CA; H1047Y; 0

<400> 13050
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13051
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; PIK3CA; H1047Y; 0

<400> 13051
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; PIK3CA; H1047Y; 0

<400> 13052
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; PIK3CA; H1047Y; 0

<400> 13053
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 13054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PIK3CA; M1043V; 1

<400> 13054
Phe Met Lys Gln Val Asn Asp Ala His
1               5


<210> 13055
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; S127F; 1

<400> 13055
Phe Pro Ala Leu Asn Lys Met Phe
1               5


<210> 13056
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; S127F; 0

<400> 13056
Phe Pro Ala Leu Asn Lys Met Phe
1               5


<210> 13057
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; S127F; 0

<400> 13057
Phe Pro Ala Leu Asn Lys Met Phe
1               5


<210> 13058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; S127F; 0

<400> 13058
Phe Pro Ala Leu Asn Lys Met Phe Cys
1               5


<210> 13059
<211> 11
<212> PRT
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<223> Table A; HLA-B*07:02; MECOM; R750Q; 1

<400> 13059
Phe Pro Arg Ser Ala Asn Leu Thr Gln His Leu
1               5                   10


<210> 13060
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; MECOM; R750Q; 0

<400> 13060
Phe Pro Arg Ser Ala Asn Leu Thr Gln His Leu
1               5                   10


<210> 13061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; R213Q; 0

<400> 13061
Phe Gln His Ser Val Val Val Pro
1               5


<210> 13062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; TP53; R213Q; 0

<400> 13062
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; R213Q; 0

<400> 13063

Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13064
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; TP53; R213Q; 0

<400> 13064
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13065
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; TP53; R213Q; 1

<400> 13065
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13066
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; R213Q; 0

<400> 13066
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13067
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; TP53; R213Q; 0

<400> 13067
Phe Gln His Ser Val Val Val Pro Tyr
1               5

<210> 13068
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; TP53; R213Q; 0

<400> 13068
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13069
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; R213Q; 0

<400> 13069
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13070
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; TP53; R213Q; 0

<400> 13070
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 13071
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*46:01; TP53; R213Q; 0

<400> 13071
Phe Gln His Ser Val Val Val Pro Tyr
1               5

<210> 13072
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<212> PRT
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<220>
<223> Table A; HLA-C*02:02; TP53; R213Q; 0

<400> 13072
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1               5


<210> 13073
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<212> PRT
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<223> Table A; HLA-C*14:02; TP53; R213Q; 0

<400> 13073
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1               5


<210> 13074
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; TP53; R213Q; 0

<400> 13074
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1               5


<210> 13075
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; TP53; C135F; 1

<400> 13075
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<210> 13076
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; TP53; C135F; 0

<400> 13076
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<210> 13077
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; TP53; C135F; 0

<400> 13077
Phe Gln Leu Ala Lys Thr Cys Pro Val
1               5


<210> 13078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; C135F; 0

<400> 13078
Phe Gln Leu Ala Lys Thr Cys Pro Val
1               5


<210> 13079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CSMD3; R2601Q; 0

<400> 13079
Phe Gln Leu Val Gly Lys Ser Ser Ala
1               5


<210> 13080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; POLE; P286R; 1

<400> 13080
Phe Arg Asp Ala Glu Thr Asp Gln Ile
1               5


<210> 13081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; TP53; S215G; 0

<400> 13081
Phe Arg His Gly Val Val Val Pro Tyr
1               5


<210> 13082
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; S215G; 0

<400> 13082
Phe Arg His Gly Val Val Val Pro Tyr
1               5


<210> 13083
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*06:02; TP53; S215G; 1

<400> 13083
Phe Arg His Gly Val Val Val Pro Tyr
1               5


<210> 13084
<211> 9
<212> PRT
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<220>

<223> Table A; HLA-C*07:02; TP53; S215G; 1

<400> 13084
Phe Arg His Gly Val Val Val Pro Tyr
1               5


<210> 13085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; V216M; 0

<400> 13085
Phe Arg His Ser Met Val Val Pro Tyr
1               5


<210> 13086
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*07:02; TP53; V216M; 1

<400> 13086
Phe Arg His Ser Met Val Val Pro Tyr
1               5


<210> 13087
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*07:02; TP53; H214R; 1

<400> 13087
Phe Arg Arg Ser Val Val Val Pro Tyr
1               5


<210> 13088
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; RAC1; P29S; 1

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Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13089
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; RAC1; P29S; 0

<400> 13089
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13090
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; RAC1; P29S; 0

<400> 13090
Phe Ser Gly Glu Tyr Ile Pro Thr Val
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<210> 13091
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; RAC1; P29S; 0

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Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13092
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; RAC1; P29S; 0

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Phe Ser Gly Glu Tyr Ile Pro Thr Val

1 5

<210> 13093
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; RAC1; P29S; 0

<400> 13093
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1 5

<210> 13094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; RAC1; P29S; 0

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1 5

<210> 13095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; RAC1; P29S; 1

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<210> 13096
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; RAC1; P29S; 0

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<210> 13097
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; RAC1; P29S; 1

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1               5


<210> 13098
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; RAC1; P29S; 0

<400> 13098
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<210> 13099
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:02; RAC1; P29S; 0

<400> 13099
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13100
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; RAC1; P29S; 0

<400> 13100
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1               5


<210> 13101

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; RAC1; P29S; 0

<400> 13101
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13102
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; RAC1; P29S; 0

<400> 13102
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13103
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; RAC1; P29S; 0

<400> 13103
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13104
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; RAC1; P29S; 0

<400> 13104
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13105
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; RAC1; P29S; 1

<400> 13105
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13106
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; RAC1; P29S; 0

<400> 13106
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13107
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; RAC1; P29S; 0

<400> 13107
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13108
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*02:02; RAC1; P29S; 1

<400> 13108
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<210> 13109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; RAC1; P29S; 0

<400> 13109
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; RAC1; P29S; 1

<400> 13110
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13111
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*15:02; RAC1; P29S; 1

<400> 13111
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13112
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*16:01; RAC1; P29S; 1

<400> 13112
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13113
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*16:02; RAC1; P29S; 0

<400> 13113
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13114
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*16:04; RAC1; P29S; 0

<400> 13114
Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 13115
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; P29S; 0

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Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13116
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; RAC1; P29S; 0

<400> 13116
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13117
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; RAC1; P29S; 0

<400> 13117

Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1 5 10

<210> 13118
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; RAC1; P29S; 1

<400> 13118
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1 5 10

<210> 13119
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; RAC1; P29S; 0

<400> 13119
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1 5 10

<210> 13120
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; P29S; 1

<400> 13120
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1 5 10

<210> 13121
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RAC1; P29S; 0

<400> 13121
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1 5 10

<210> 13122
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RAC1; P29S; 1

<400> 13122
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13123
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; RAC1; P29S; 0

<400> 13123
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13124
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; RAC1; P29S; 0

<400> 13124
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13125
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; RAC1; P29S; 0

<400> 13125
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10

<210> 13126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; RAC1; P29S; 1

<400> 13126
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13127
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; RAC1; P29S; 0

<400> 13127
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; RAC1; P29S; 1

<400> 13128
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13129
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; RAC1; P29S; 0

<400> 13129
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13130
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; RAC1; P29S; 1

<400> 13130
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; RAC1; P29S; 1

<400> 13131
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13132
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; RAC1; P29S; 0

<400> 13132
Phe Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5                   10


<210> 13133
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; PTPRB; R529Q; 1

<400> 13133
Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1               5                   10


<210> 13134
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; PTPRB; R529Q; 0

<400> 13134
Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1               5                   10


<210> 13135
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<220>
<223> Table A; HLA-A*29:02; PTPRB; R529Q; 0

<400> 13135
Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1               5                   10


<210> 13136
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; PTPRB; R529Q; 0

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Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1               5                   10


<210> 13137
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; PTPRB; R529Q; 0

<400> 13137
Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1               5                   10


<210> 13138
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<220>

<223> Table A; HLA-B*58:01; PTPRB; R529Q; 0

<400> 13138
Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1               5                   10


<210> 13139
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; PTPRB; R529Q; 0

<400> 13139
Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1               5                   10


<210> 13140
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; STAG2; R370Q; 0

<400> 13140
Phe Thr Ser Gln Phe Lys Asp Arg Ile
1               5


<210> 13141
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; STAG2; R370Q; 0

<400> 13141
Phe Thr Ser Gln Phe Lys Asp Arg Ile Val
1               5                   10


<210> 13142
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; STAG2; R370Q; 0

<400> 13142
Phe Thr Ser Gln Phe Lys Asp Arg Ile Val
1               5                   10


<210> 13143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SPOP; F133L; 0

<400> 13143
Phe Val Gln Gly Lys Asp Trp Gly Leu
1               5


<210> 13144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SPOP; F133L; 0

<400> 13144
Phe Val Gln Gly Lys Asp Trp Gly Leu
1               5


<210> 13145
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; SPOP; F133L; 0

<400> 13145
Phe Val Gln Gly Lys Asp Trp Gly Leu
1               5


<210> 13146
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; SPOP; F133L; 0

<400> 13146
Phe Val Gln Gly Lys Asp Trp Gly Leu

1 5

<210> 13147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SPOP; F133V; 0

<400> 13147
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1 5

<210> 13148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SPOP; F133V; 0

<400> 13148
Phe Val Gln Gly Lys Asp Trp Gly Val
1 5

<210> 13149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; SPOP; F133V; 0

<400> 13149
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1 5

<210> 13150
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; SPOP; F133V; 0

<400> 13150
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1 5

<210> 13151
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; DCAF12L2; R378H; 0

<400> 13151
Phe Tyr Asp Ile His Ala Gln Lys
1               5


<210> 13152
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; DCAF12L2; R378H; 1

<400> 13152
Phe Tyr Asp Ile His Ala Gln Lys
1               5


<210> 13153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; DCAF12L2; R378H; 0

<400> 13153
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; DCAF12L2; R378H; 0

<400> 13154
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13155

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; DCAF12L2; R378H; 0

<400> 13155
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; DCAF12L2; R378H; 0

<400> 13156
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; DCAF12L2; R378H; 1

<400> 13157
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; DCAF12L2; R378H; 0

<400> 13158
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13159
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; DCAF12L2; R378H; 1

<400> 13159
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; DCAF12L2; R378H; 0

<400> 13160
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; DCAF12L2; R378H; 0

<400> 13161
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; DCAF12L2; R378H; 0

<400> 13162
Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 13163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; MYCN; P44L; 0

<400> 13163
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13164
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; MYCN; P44L; 0

<400> 13164
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13165
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; MYCN; P44L; 1

<400> 13165
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13166
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; MYCN; P44L; 0

<400> 13166
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13167
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; MYCN; P44L; 0

<400> 13167
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13168
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; MYCN; P44L; 1

<400> 13168
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13169
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; MYCN; P44L; 1

<400> 13169
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13170
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; MYCN; P44L; 0

<400> 13170
Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5                   10


<210> 13171
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; MYCN; P44L; 0

<400> 13171

Phe Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1 5 10

<210> 13172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; POLE; S297F; 0

<400> 13172
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1 5

<210> 13173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; POLE; S297F; 0

<400> 13173
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1 5

<210> 13174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; POLE; S297F; 0

<400> 13174
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1 5

<210> 13175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; POLE; S297F; 0

<400> 13175
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1 5

<210> 13176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; POLE; S297F; 0

<400> 13176
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5


<210> 13177
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; POLE; S297F; 0

<400> 13177
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5


<210> 13178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; POLE; S297F; 0

<400> 13178
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5


<210> 13179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; POLE; S297F; 0

<400> 13179
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5

<210> 13180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; POLE; S297F; 0

<400> 13180
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5


<210> 13181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; POLE; S297F; 0

<400> 13181
Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5


<210> 13182
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; POLE; S297F; 0

<400> 13182
Phe Tyr Met Ile Asp Gly Gln Gly Tyr Leu Ile
1               5                   10


<210> 13183
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; POLE; S297F; 0

<400> 13183
Phe Tyr Met Ile Asp Gly Gln Gly Tyr Leu Ile
1               5                   10


<210> 13184
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KRAS; G12A; 0

<400> 13184
Gly Ala Ala Gly Val Gly Lys Ser Ala
1               5


<210> 13185
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; KRAS; G12A; 0

<400> 13185
Gly Ala Ala Gly Val Gly Lys Ser Ala
1               5


<210> 13186
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*03:04; KRAS; G12A; 1

<400> 13186
Gly Ala Ala Gly Val Gly Lys Ser Ala
1               5


<210> 13187
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; KRAS; G12A; 1

<400> 13187
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13188
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KRAS; G12A; 1

<400> 13188
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13189
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; KRAS; G12A; 1

<400> 13189
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13190
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; KRAS; G12A; 0

<400> 13190
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13191
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; KRAS; G12A; 0

<400> 13191
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13192
<211> 10
<212> PRT
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<220>

<223> Table A; HLA-C*01:02; KRAS; G12A; 1

<400> 13192
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13193
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*03:03; KRAS; G12A; 1

<400> 13193
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13194
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; KRAS; G12A; 1

<400> 13194
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13195
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; KRAS; G12C; 1

<400> 13195
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13196
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12C; 0

<400> 13196
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13197
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; KRAS; G12C; 1

<400> 13197
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13198
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; NRAS; G12C; 1

<400> 13198
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13199
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NRAS; G12C; 0

<400> 13199
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NRAS; G12C; 0

<400> 13200
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu

1 5 10

<210> 13201
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; NRAS; G12C; 1

<400> 13201
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13202
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; KRAS; G12D; 0

<400> 13202
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13203
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12D; 1

<400> 13203
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13204
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; KRAS; G12D; 0

<400> 13204
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; KRAS; G12D; 0

<400> 13205
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13206
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; KRAS; G12D; 0

<400> 13206
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13207
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; KRAS; G12D; 1

<400> 13207
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13208
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; KRAS; G12D; 1

<400> 13208
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13209

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; KRAS; G12D; 0

<400> 13209
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13210
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; KRAS; G12D; 1

<400> 13210
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13211
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12D; 0

<400> 13211
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13212
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; KRAS; G12D; 1

<400> 13212
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13213
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; KRAS; G12D; 1

<400> 13213
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13214
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; KRAS; G12D; 1

<400> 13214
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; KRAS; G12D; 1

<400> 13215
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13216
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KRAS; G12D; 0

<400> 13216
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; KRAS; G12D; 1

<400> 13217
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13218
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NRAS; G12D; 0

<400> 13218
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13219
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; NRAS; G12D; 0

<400> 13219
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; NRAS; G12D; 1

<400> 13220
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13221
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; NRAS; G12D; 0

<400> 13221
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13222
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NRAS; G12D; 1

<400> 13222
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13223
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; NRAS; G12D; 0

<400> 13223
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13224
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; NRAS; G12D; 0

<400> 13224
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; NRAS; G12D; 0

<400> 13225

Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13226
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; NRAS; G12D; 0

<400> 13226
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13227
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; NRAS; G12D; 0

<400> 13227
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13228
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; NRAS; G12D; 0

<400> 13228
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13229
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; NRAS; G12D; 1

<400> 13229
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 13230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; NRAS; G12D; 0

<400> 13230
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13231
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NRAS; G12D; 0

<400> 13231
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13232
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; NRAS; G12D; 0

<400> 13232
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13233
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; NRAS; G12D; 0

<400> 13233
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10

<210> 13234
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; NRAS; G12D; 1

<400> 13234
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13235
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; NRAS; G12D; 1

<400> 13235
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13236
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; NRAS; G12D; 0

<400> 13236
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13237
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; NRAS; G12D; 0

<400> 13237
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13238
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G13D; 1

<400> 13238
Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13239
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G13D; 0

<400> 13239
Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13240
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; KRAS; G13D; 1

<400> 13240
Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13241
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; KRAS; G12R; 1

<400> 13241
Gly Ala Arg Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13242
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12R; 1

<400> 13242
Gly Ala Arg Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13243
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CDKN2A; D108Y; 1

<400> 13243
Gly Ala Arg Leu Asp Val Arg Tyr
1               5


<210> 13244
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CDKN2A; D108Y; 0

<400> 13244
Gly Ala Arg Leu Asp Val Arg Tyr
1               5


<210> 13245
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CDKN2A; D108Y; 0

<400> 13245
Gly Ala Arg Leu Asp Val Arg Tyr Ala Trp
1               5                   10


<210> 13246
<211> 11
<212> PRT
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<223> Table A; HLA-C*16:01; DNAJB1; E18K; 0

<400> 13246
Gly Ala Ser Asp Lys Glu Ile Lys Arg Ala Tyr
1               5                   10


<210> 13247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; KRAS; G12S; 1

<400> 13247
Gly Ala Ser Gly Val Gly Lys Ser Ala
1               5


<210> 13248
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12S; 1

<400> 13248
Gly Ala Ser Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 13249
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*40:01; KRAS; G12S; 1

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<210> 13251
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<223> Table A; HLA-B*48:01; KRAS; G12S; 0

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<210> 13254
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<210> 13255
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<212> PRT
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<212> PRT
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<210> 13257
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<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

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<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

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<223> Table A; HLA-A*68:02; CTNNB1; T41A; 0

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<210> 13261
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<220>
<223> Table A; HLA-B*07:02; CTNNB1; T41A; 1

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<220>
<223> Table A; HLA-B*13:01; CTNNB1; T41A; 0

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<211> 9
<212> PRT
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<223> Table A; HLA-B*13:02; CTNNB1; T41A; 1

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<210> 13264
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<223> Table A; HLA-B*15:01; CTNNB1; T41A; 1

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<223> Table A; HLA-B*35:01; CTNNB1; T41A; 1

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<223> Table A; HLA-B*35:02; CTNNB1; T41A; 1

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<223> Table A; HLA-B*35:03; CTNNB1; T41A; 1

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<210> 13271
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<212> PRT
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<220>
<223> Table A; HLA-B*35:12; CTNNB1; T41A; 0

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<210> 13272
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<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41A; 1

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<210> 13273
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41A; 1

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<210> 13274
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<220>
<223> Table A; HLA-B*40:01; CTNNB1; T41A; 1

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<210> 13275
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41A; 1

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<212> PRT
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<223> Table A; HLA-B*44:05; CTNNB1; T41A; 0

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<212> PRT
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<210> 13283
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<220>
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<212> PRT
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<210> 13289
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<212> PRT
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<220>
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<220>
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<210> 13292
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<212> PRT
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<220>
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<220>
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<223> Table A; HLA-A*02:04; CTNNB1; T41I; 0

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<223> Table A; HLA-A*02:05; CTNNB1; T41I; 0

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<210> 13297
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; T41I; 0

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<210> 13298
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41I; 0

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<210> 13299
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; CTNNB1; T41I; 1

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<223> Table A; HLA-B*13:02; CTNNB1; T41I; 0

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<210> 13301
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41I; 1

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<210> 13302
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<212> PRT
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<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41I; 0

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<210> 13303
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<212> PRT
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<223> Table A; HLA-B*35:01; CTNNB1; T41I; 1

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<210> 13304
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<223> Table A; HLA-B*35:02; CTNNB1; T41I; 0

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<210> 13305
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<223> Table A; HLA-B*35:03; CTNNB1; T41I; 0

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<210> 13306
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<210> 13307
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<223> Table A; HLA-B*40:01; CTNNB1; T41I; 1

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<210> 13308
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<223> Table A; HLA-B*40:02; CTNNB1; T41I; 0

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<212> PRT
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<223> Table A; HLA-B*44:05; CTNNB1; T41I; 0

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<210> 13311
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<212> PRT
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<223> Table A; HLA-B*46:01; CTNNB1; T41I; 0

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<210> 13312
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<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

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<210> 13313
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<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41I; 0

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<210> 13314
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<212> PRT
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<220>
<223> Table A; HLA-C*03:03; CTNNB1; T41I; 1

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<210> 13315
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<212> PRT
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<220>
<223> Table A; HLA-C*03:04; CTNNB1; T41I; 1

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<210> 13316
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; T41I; 0

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<210> 13317

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<210> 13318
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<220>
<223> Table A; HLA-C*16:01; CTNNB1; T41I; 1

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<212> PRT
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<223> Table A; HLA-C*17:01; CTNNB1; T41I; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; S45F; 1

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<223> Table A; HLA-A*02:04; CTNNB1; S45F; 0

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<210> 13323
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<223> Table A; HLA-A*02:05; CTNNB1; S45F; 0

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<210> 13324
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S45F; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

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<210> 13326
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45F; 0

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<210> 13327
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S45F; 0

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<220>
<223> Table A; HLA-B*15:10; CTNNB1; S45F; 0

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<212> PRT
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<223> Table A; HLA-B*27:05; CTNNB1; S45F; 0

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<212> PRT
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<223> Table A; HLA-B*35:01; CTNNB1; S45F; 1

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<210> 13332
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<212> PRT
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<223> Table A; HLA-B*35:03; CTNNB1; S45F; 0

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<223> Table A; HLA-B*38:01; CTNNB1; S45F; 0

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<210> 13334
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<212> PRT
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<223> Table A; HLA-B*39:01; CTNNB1; S45F; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; CTNNB1; S45F; 1

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<210> 13336
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; S45F; 0

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<210> 13337
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CTNNB1; S45F; 0

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<210> 13338
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S45F; 0

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<210> 13339
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S45F; 0

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<210> 13340
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45F; 0

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<210> 13341
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<212> PRT
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<220>
<223> Table A; HLA-C*03:03; CTNNB1; S45F; 1

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<210> 13342
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<212> PRT
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<220>
<223> Table A; HLA-C*03:04; CTNNB1; S45F; 1

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<210> 13343
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<212> PRT
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<223> Table A; HLA-C*08:01; CTNNB1; S45F; 0

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<210> 13344
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<223> Table A; HLA-C*08:03; CTNNB1; S45F; 0

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<210> 13345
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<210> 13346
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<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-C*16:02; CTNNB1; S45F; 0

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<210> 13347
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<212> PRT
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<220>
<223> Table A; HLA-C*17:01; CTNNB1; S45F; 0

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<210> 13348
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S45P; 0

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Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13349
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<212> PRT
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<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

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<212> PRT
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<223> Table A; HLA-A*30:01; CTNNB1; S45P; 1

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<210> 13351
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<223> Table A; HLA-A*31:01; CTNNB1; S45P; 1

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Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13352
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

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Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13353
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45P; 0

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Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13354
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<223> Table A; HLA-B*07:02; CTNNB1; S45P; 1

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Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13355
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S45P; 1

<400> 13355
Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13356
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; S45P; 1

<400> 13356
Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13357
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<220>
<223> Table A; HLA-B*15:10; CTNNB1; S45P; 0

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Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13358
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<220>
<223> Table A; HLA-B*35:01; CTNNB1; S45P; 1

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<223> Table A; HLA-B*35:02; CTNNB1; S45P; 0

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<223> Table A; HLA-B*35:03; CTNNB1; S45P; 1

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<212> PRT
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<223> Table A; HLA-B*35:12; CTNNB1; S45P; 0

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<223> Table A; HLA-B*40:01; CTNNB1; S45P; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CTNNB1; S45P; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S45P; 0

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<223> Table A; HLA-B*58:01; CTNNB1; S45P; 0

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<210> 13369
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<212> PRT
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<220>
<223> Table A; HLA-C*03:03; CTNNB1; S45P; 1

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Gly Ala Thr Thr Thr Ala Pro Pro Leu
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<210> 13370
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<220>
<223> Table A; HLA-C*03:04; CTNNB1; S45P; 1

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<210> 13371

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; S45P; 0

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<210> 13372
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S45P; 0

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<210> 13373
<211> 9
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<220>
<223> Table A; HLA-C*17:01; CTNNB1; S45P; 0

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<210> 13374
<211> 9
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<220>
<223> Table A; HLA-A*02:05; KRAS; G12V; 1

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<210> 13375
<211> 9
<212> PRT

<213> Homo sapiens

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<223> Table A; HLA-B*54:01; KRAS; G12V; 0

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<210> 13376
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; KRAS; G12V; 1

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<210> 13377
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*03:04; KRAS; G12V; 1

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<210> 13378
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; KRAS; G12V; 1

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<210> 13379
<211> 10
<212> PRT
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<223> Table A; HLA-B*07:02; KRAS; G12V; 1

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<210> 13380
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; KRAS; G12V; 1

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<210> 13381
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<220>
<223> Table A; HLA-B*40:01; KRAS; G12V; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; KRAS; G12V; 1

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<210> 13383
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; KRAS; G12V; 0

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<210> 13384
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<212> PRT
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<220>
<223> Table A; HLA-C*03:03; KRAS; G12V; 1

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<210> 13385
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<212> PRT
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<220>
<223> Table A; HLA-C*03:04; KRAS; G12V; 1

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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; KRAS; G12V; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; IDH1; R132C; 1

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<210> 13388
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<212> PRT
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<223> Table A; HLA-B*13:02; KRAS; G13C; 0

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<210> 13389
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; BRAF; V600E; 1

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<210> 13390
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; BRAF; V600E; 1

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<210> 13391
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; NFE2L2; E82D; 0

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<210> 13392
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; NFE2L2; E82D; 0

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<210> 13393
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; NFE2L2; E82D; 0

<400> 13393
Gly Asp Phe Leu Pro Ile Gln Pro
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<210> 13394
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; NFE2L2; E82D; 0

<400> 13394
Gly Asp Phe Leu Pro Ile Gln Pro Ala
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<210> 13395
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; NFE2L2; E82D; 0

<400> 13395
Gly Asp Phe Leu Pro Ile Gln Pro Ala
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<210> 13396
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; NFE2L2; E82D; 0

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Gly Asp Phe Leu Pro Ile Gln Pro Ala
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<210> 13397
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; NFE2L2; E82D; 0

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Gly Asp Phe Leu Pro Ile Gln Pro Ala
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<210> 13398
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; PTPRT; E324K; 1

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<210> 13399
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; PTPRT; E324K; 1

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<210> 13400
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<212> PRT
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<223> Table A; HLA-B*27:02; PTPRT; E324K; 0

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<210> 13401
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<223> Table A; HLA-B*37:01; TP53; G245D; 0

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<210> 13402
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; TP53; G245D; 0

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<210> 13403
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; ARHGEF12; R705H; 0

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<210> 13404
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; KRAS; G13D; 1

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<210> 13405
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; KRAS; G13D; 0

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Gly Asp Val Gly Lys Ser Ala Leu
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<210> 13406
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; KRAS; G13D; 0

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Gly Asp Val Gly Lys Ser Ala Leu
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<210> 13407
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; KRAS; G13D; 0

<400> 13407
Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 13408
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<212> PRT
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<220>

<223> Table A; HLA-C*08:03; KRAS; G13D; 0

<400> 13408
Gly Asp Val Gly Lys Ser Ala Leu Thr
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<210> 13409
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; KRAS; G13D; 1

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Gly Asp Val Gly Lys Ser Ala Leu Thr Ile
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; KRAS; G13D; 0

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<210> 13411
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; PTPRD; R561Q; 0

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<210> 13412
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; NFE2L2; D77G; 0

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<210> 13413
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; NFE2L2; D77G; 0

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Gly Glu Glu Thr Gly Glu Phe Leu
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; NFE2L2; D77G; 0

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<210> 13415
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<220>
<223> Table A; HLA-B*40:02; NFE2L2; D77G; 0

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Gly Glu Glu Thr Gly Glu Phe Leu Pro Ile
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<210> 13416
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; NFE2L2; D77G; 0

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<210> 13417
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<220>
<223> Table A; HLA-B*49:01; NFE2L2; D77G; 0

<400> 13417
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<210> 13418
<211> 9
<212> PRT
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<223> Table A; HLA-B*13:01; PTPRD; R561Q; 0

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<212> PRT
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<223> Table A; HLA-B*40:01; PTPRD; R561Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PTPRD; R561Q; 0

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<210> 13421
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; PTPRD; R561Q; 0

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<210> 13422
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PTPRD; R561Q; 0

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<210> 13423
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PTPRD; R561Q; 0

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<210> 13424
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; PTPRD; R561Q; 0

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<210> 13425

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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; PTPRD; R561Q; 0

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<210> 13426
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PTPRD; R561Q; 0

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1               5                   10


<210> 13427
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PTPRD; R561Q; 0

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<210> 13428
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<212> PRT
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<223> Table A; HLA-B*49:01; PTPRD; R561Q; 0

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<210> 13429
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTCF; R377H; 0

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<210> 13430
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CTCF; R377H; 0

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<210> 13431
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTCF; R377H; 0

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<210> 13432
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; CTCF; R377H; 1

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<210> 13433
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; CTCF; R377H; 0

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<210> 13434
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<212> PRT
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<223> Table A; HLA-B*15:10; CTCF; R377H; 0

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<210> 13435
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; CTCF; R377H; 1

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Gly Glu His Pro Phe Gln Cys Ser Leu
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<210> 13436
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<212> PRT
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<220>
<223> Table A; HLA-B*37:01; CTCF; R377H; 0

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<210> 13437
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; CTCF; R377H; 1

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<220>
<223> Table A; HLA-B*40:02; CTCF; R377H; 0

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<210> 13439
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; CTCF; R377H; 0

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<210> 13440
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<212> PRT
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<210> 13447
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<223> Table A; HLA-B*40:02; TPR; S2155L; 0

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<223> Table A; HLA-C*14:02; TPR; S2155L; 0

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<223> Table A; HLA-C*14:03; TPR; S2155L; 0

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<223> Table A; HLA-B*15:10; TP53; R248L; 0

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<223> Table A; HLA-B*41:02; TP53; R248L; 0

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<223> Table A; HLA-A*02:06; TP53; R248Q; 0

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<210> 13483
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<223> Table A; HLA-B*44:05; TP53; R249S; 0

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<223> Table A; HLA-A*02:03; CTNNB1; S37A; 0

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<220>
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<212> PRT
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<220>
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<220>
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<223> Table A; HLA-B*15:01; CTNNB1; S37A; 1

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37A; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37F; 0

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<210> 13527
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<212> PRT
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<220>
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37F; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

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<223> Table A; HLA-C*08:03; CTNNB1; S37F; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37F; 0

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<223> Table A; HLA-A*02:06; CTNNB1; S37F; 0

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Gly Ile His Phe Gly Ala Thr Thr Thr Ala
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<210> 13536
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; S37F; 0

<400> 13536
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13537
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37F; 0

<400> 13537
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13538
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37F; 1

<400> 13538
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13539
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S37F; 1

<400> 13539
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13540
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37F; 0

<400> 13540
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

<400> 13541
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13542
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37F; 0

<400> 13542
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13543
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; S37F; 0

<400> 13543
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13544
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

<400> 13544
Gly Ile His Pro Gly Ala Thr Thr
1               5


<210> 13545
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37P; 0

<400> 13545
Gly Ile His Pro Gly Ala Thr Thr Thr
1               5


<210> 13546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S37P; 1

<400> 13546
Gly Ile His Pro Gly Ala Thr Thr Thr
1               5


<210> 13547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

<400> 13547
Gly Ile His Pro Gly Ala Thr Thr Thr
1               5


<210> 13548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

<400> 13548
Gly Ile His Pro Gly Ala Thr Thr Thr
1               5


<210> 13549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37P; 0

<400> 13549

Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1 5 10

<210> 13550
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37P; 0

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Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1 5 10

<210> 13551
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; S37P; 0

<400> 13551
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1 5 10

<210> 13552
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37P; 0

<400> 13552
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1 5 10

<210> 13553
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; S37P; 1

<400> 13553
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1 5 10

<210> 13554
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37P; 0

<400> 13554
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S37P; 1

<400> 13555
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13556
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37P; 0

<400> 13556
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; S37P; 0

<400> 13557
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10

<210> 13558
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; S37P; 0

<400> 13558
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

<400> 13559
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13560
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37P; 0

<400> 13560
Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 13561
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

<400> 13561
Gly Ile His Pro Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 13562
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; T41A; 0

<400> 13562
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 13563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41A; 1

<400> 13563
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 13564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41A; 1

<400> 13564
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 13565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; T41A; 0

<400> 13565
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 13566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 13566
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 13567
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41A; 0

<400> 13567
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 13568
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; T41A; 1

<400> 13568
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13569
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; T41A; 0

<400> 13569
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13570
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<220>

<223> Table A; HLA-A*02:05; CTNNB1; T41A; 0

<400> 13570
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13571
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; T41A; 0

<400> 13571
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13572
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; T41A; 0

<400> 13572
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13573
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

<400> 13573
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13574
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41A; 1

<400> 13574
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13575
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41A; 1

<400> 13575
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13576
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41A; 1

<400> 13576
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13577
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; T41A; 0

<400> 13577
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 13578
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 13578
Gly Ile His Ser Gly Ala Thr Ala Thr Ala

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<210> 13579
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; T41A; 0

<400> 13579
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1 5 10

<210> 13580
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; T41A; 0

<400> 13580
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1 5 10

<210> 13581
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; T41A; 0

<400> 13581
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1 5 10

<210> 13582
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41A; 1

<400> 13582
Gly Ile His Ser Gly Ala Thr Ala Thr Ala Pro
1 5 10

<210> 13583
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41I; 0

<400> 13583
Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 13584
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41I; 1

<400> 13584
Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 13585
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 13585
Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 13586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41I; 1

<400> 13586
Gly Ile His Ser Gly Ala Thr Ile Thr
1               5


<210> 13587

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 13587
Gly Ile His Ser Gly Ala Thr Ile Thr
1               5


<210> 13588
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41I; 0

<400> 13588
Gly Ile His Ser Gly Ala Thr Ile Thr
1               5


<210> 13589
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; T41I; 1

<400> 13589
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13590
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; T41I; 0

<400> 13590
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13591
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41I; 0

<400> 13591
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13592
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; T41I; 0

<400> 13592
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; T41I; 0

<400> 13593
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41I; 1

<400> 13594
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13595
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41I; 0

<400> 13595
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13596
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41I; 0

<400> 13596
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13597
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41I; 1

<400> 13597
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13598
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41I; 0

<400> 13598
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13599
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41I; 0

<400> 13599
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 13600
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13601
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; T41I; 0

<400> 13601
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13602
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; T41I; 0

<400> 13602
Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 13603
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; T41I; 0

<400> 13603

Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1 5 10

<210> 13604
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 13604
Gly Ile His Ser Gly Ala Thr Ile Thr Ala Pro
1 5 10

<210> 13605
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP63; E609K; 1

<400> 13605
Gly Ile Leu Asp His Arg Gln Leu His Lys
1 5 10

<210> 13606
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; A146T; 0

<400> 13606
Gly Ile Pro Phe Ile Glu Thr Ser Thr Lys
1 5 10

<210> 13607
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; A146T; 0

<400> 13607
Gly Ile Pro Phe Ile Glu Thr Ser Thr Lys
1 5 10

<210> 13608
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CREB3L1; V414I; 0

<400> 13608
Gly Ile Tyr Thr Ala Ser Gln Met
1               5


<210> 13609
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CREB3L1; V414I; 0

<400> 13609
Gly Ile Tyr Thr Ala Ser Gln Met
1               5


<210> 13610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CREB3L1; V414I; 0

<400> 13610
Gly Ile Tyr Thr Ala Ser Gln Met Pro
1               5


<210> 13611
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CREB3L1; V414I; 1

<400> 13611
Gly Ile Tyr Thr Ala Ser Gln Met Pro Ser Arg
1               5                   10

<210> 13612
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CREB3L1; V414I; 0

<400> 13612
Gly Ile Tyr Thr Ala Ser Gln Met Pro Ser Arg
1               5                   10


<210> 13613
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CREB3L1; V414I; 0

<400> 13613
Gly Ile Tyr Thr Ala Ser Gln Met Pro Ser Arg
1               5                   10


<210> 13614
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; R130G; 0

<400> 13614
Gly Lys Gly Gly Thr Gly Val Met
1               5


<210> 13615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; R130G; 0

<400> 13615
Gly Lys Gly Gly Thr Gly Val Met Ile
1               5


<210> 13616
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; R130L; 0

<400> 13616
Gly Lys Gly Leu Thr Gly Val Met
1               5


<210> 13617
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; PTEN; R130P; 0

<400> 13617
Gly Lys Gly Pro Thr Gly Val Met
1               5


<210> 13618
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; PTEN; R130P; 0

<400> 13618
Gly Lys Gly Pro Thr Gly Val Met
1               5


<210> 13619
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; R130P; 0

<400> 13619
Gly Lys Gly Pro Thr Gly Val Met
1               5


<210> 13620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; PTEN; R130P; 0

<400> 13620
Gly Lys Gly Pro Thr Gly Val Met Ile
1               5


<210> 13621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; R130P; 0

<400> 13621
Gly Lys Gly Pro Thr Gly Val Met Ile
1               5


<210> 13622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; PTEN; R130P; 0

<400> 13622
Gly Lys Gly Pro Thr Gly Val Met Ile
1               5


<210> 13623
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PTEN; R130Q; 0

<400> 13623
Gly Lys Gly Gln Thr Gly Val Met
1               5


<210> 13624
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*48:01; PTEN; R130Q; 0

<400> 13624
Gly Lys Gly Gln Thr Gly Val Met Ile
1               5


<210> 13625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; IDH2; R172K; 0

<400> 13625
Gly Lys His Ala His Gly Asp Gln Tyr
1               5


<210> 13626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; CNBD1; L396P; 0

<400> 13626
Gly Lys Pro Lys Glu Lys Glu Ser Phe
1               5


<210> 13627
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; PTPRB; D1560N; 0

<400> 13627
Gly Lys Arg Asn Pro Thr Gln Gln Lys Phe
1               5                   10


<210> 13628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SPOP; E50K; 1

<400> 13628
Gly Lys Val Ile Lys Ser Ser Thr Phe
1               5


<210> 13629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SPOP; E50K; 0

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<223> Table A; HLA-B*48:01; SPOP; E50K; 0

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<223> Table A; HLA-B*15:03; EGFR; A289T; 0

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<223> Table A; HLA-B*27:02; TP53; I195N; 0

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<223> Table A; HLA-A*02:01; TP53; I195N; 1

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<220>
<223> Table A; HLA-A*68:02; TP53; I195N; 0

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<220>
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<223> Table A; HLA-A*02:03; TP53; I195T; 0

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<220>
<223> Table A; HLA-A*02:05; TP53; I195T; 0

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<220>
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<220>
<223> Table A; HLA-B*48:01; TP53; I195T; 0

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<220>
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<220>
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<220>
<223> Table A; HLA-A*26:03; TP53; I195T; 0

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<220>
<223> Table A; HLA-A*31:01; TP53; I195T; 0

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<220>
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<220>
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<220>
<223> Table A; HLA-A*02:05; TP53; L194R; 0

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<223> Table A; HLA-A*02:06; TP53; L194R; 0

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<223> Table A; HLA-A*02:07; TP53; L194R; 0

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<223> Table A; HLA-A*02:08; TP53; L194R; 0

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<210> 13672
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<220>
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<223> Table A; HLA-B*15:01; TP53; L194R; 1

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<223> Table A; HLA-B*38:01; TP53; L194R; 0

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<223> Table A; HLA-B*48:01; TP53; L194R; 0

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<223> Table A; HLA-A*31:01; TP53; L194R; 0

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<223> Table A; HLA-A*02:04; TP53; L194R; 0

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<223> Table A; HLA-C*17:01; TP53; H193L; 0

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<210> 13682
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<223> Table A; HLA-A*02:01; TP53; H193L; 1

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<223> Table A; HLA-A*02:03; TP53; H193L; 0

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1 5

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1 5

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1 5

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<223> Table A; HLA-A*02:03; TP53; H193L; 0

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<223> Table A; HLA-A*02:04; TP53; H193L; 0

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<223> Table A; HLA-A*02:07; TP53; H193L; 0

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<223> Table A; HLA-A*68:02; TP53; H193L; 0

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<210> 13697
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<223> Table A; HLA-B*39:01; TP53; H193R; 0

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<223> Table A; HLA-C*17:01; TP53; H193R; 0

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<220>
<223> Table A; HLA-A*02:01; TP53; H193R; 1

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<220>
<223> Table A; HLA-A*02:03; TP53; H193R; 0

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<220>
<223> Table A; HLA-A*02:04; TP53; H193R; 0

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<220>
<223> Table A; HLA-B*13:02; TP53; H193R; 0

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<220>
<223> Table A; HLA-B*15:10; TP53; H193R; 0

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<223> Table A; HLA-B*48:01; TP53; H193R; 0

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<210> 13705
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<223> Table A; HLA-A*31:01; TP53; H193R; 0

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<220>
<223> Table A; HLA-A*02:01; TP53; H193R; 1

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<220>
<223> Table A; HLA-A*02:03; TP53; H193R; 0

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<220>
<223> Table A; HLA-A*02:04; TP53; H193R; 0

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<210> 13710
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TP53; H193Y; 0

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<210> 13711
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<212> PRT
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<220>
<223> Table A; HLA-C*17:01; TP53; H193Y; 0

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<223> Table A; HLA-A*02:01; TP53; H193Y; 1

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<223> Table A; HLA-A*02:03; TP53; H193Y; 0

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<223> Table A; HLA-A*02:04; TP53; H193Y; 0

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<223> Table A; HLA-A*02:06; TP53; H193Y; 0

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<220>
<223> Table A; HLA-B*38:01; TP53; H193Y; 0

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<210> 13721
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1 5 10

<210> 13722
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<212> PRT
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1 5 10

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<223> Table A; HLA-A*02:07; TP53; H193Y; 0

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<223> Table A; HLA-A*68:02; TP53; H193Y; 0

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<223> Table A; HLA-B*13:01; BRAF; K601E; 0

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<223> Table A; HLA-B*15:13; BRAF; K601E; 0

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<223> Table A; HLA-B*44:03; BRAF; K601E; 1

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<223> Table A; HLA-B*57:01; BRAF; K601E; 1

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<223> Table A; HLA-B*58:01; BRAF; K601E; 0

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<223> Table A; HLA-A*02:01; NFE2L2; D29G; 1

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<223> Table A; HLA-A*02:03; NFE2L2; D29G; 0

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<223> Table A; HLA-B*13:02; NFE2L2; D29G; 0

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<212> PRT
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<223> Table A; HLA-A*29:02; IDH1; R132L; 1

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<223> Table A; HLA-A*30:02; IDH1; R132L; 0

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<210> 13737
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<212> PRT
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<223> Table A; HLA-B*15:01; IDH1; R132L; 1

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<210> 13738
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<212> PRT
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<223> Table A; HLA-B*15:02; IDH1; R132L; 0

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<223> Table A; HLA-B*15:03; IDH1; R132L; 0

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<223> Table A; HLA-A*02:03; PIK3CA; E453K; 0

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<220>
<223> Table A; HLA-A*02:01; PIK3CA; E453K; 1

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<210> 13742
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<220>
<223> Table A; HLA-A*02:03; PIK3CA; E453K; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; PIK3CA; E453K; 0

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<220>
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<220>
<223> Table A; HLA-A*02:01; PIK3CA; E453Q; 1

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<220>
<223> Table A; HLA-A*02:03; PIK3CA; E453Q; 0

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<220>
<223> Table A; HLA-A*02:04; PIK3CA; E453Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; PIK3CA; E453Q; 0

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<220>
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<220>
<223> Table A; HLA-A*02:01; PTEN; R130L; 1

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<223> Table A; HLA-A*02:06; PTEN; R130L; 0

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<220>
<223> Table A; HLA-B*13:02; PTEN; R130L; 1

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<213> Homo sapiens

<220>
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<220>
<223> Table A; HLA-A*02:03; SF3B1; K700E; 0

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<223> Table A; HLA-A*02:04; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-A*02:05; SF3B1; K700E; 0

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<210> 13758
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-A*02:07; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-A*02:08; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*13:01; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*13:02; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*15:01; SF3B1; K700E; 1

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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

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<223> Table A; HLA-B*50:01; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*27:02; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

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<210> 13768
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-A*02:01; MTOR; A2056V; 1

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<220>
<223> Table A; HLA-A*02:03; MTOR; A2056V; 0

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<220>
<223> Table A; HLA-A*02:04; MTOR; A2056V; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*02:07; MTOR; A2056V; 0

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<223> Table A; HLA-B*08:01; TP53; R248L; 1

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<220>
<223> Table A; HLA-A*02:03; TP53; R248L; 0

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<220>
<223> Table A; HLA-B*08:01; TP53; R248Q; 1

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<210> 13776
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; TP53; R248Q; 0

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<210> 13777
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; TP53; R248Q; 0

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<212> PRT
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<223> Table A; HLA-A*02:03; TP53; R248Q; 0

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<223> Table A; HLA-A*02:03; TP53; R248Q; 0

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<223> Table A; HLA-B*13:02; TP53; R248Q; 1

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<223> Table A; HLA-A*02:03; TP53; R249S; 0

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<223> Table A; HLA-B*13:02; TP53; R249S; 1

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<223> Table A; HLA-B*27:02; PTPRT; E324K; 0

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<220>
<223> Table A; HLA-B*35:01; PTPRT; E324K; 1

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<223> Table A; HLA-B*39:06; PTEN; R130P; 0

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<223> Table A; HLA-B*54:01; PTEN; R130P; 0

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<220>
<223> Table A; HLA-B*55:01; PTEN; R130P; 0

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<210> 13789
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<223> Table A; HLA-B*55:02; PTEN; R130P; 0

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<210> 13790
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<223> Table A; HLA-B*56:01; PTEN; R130P; 0

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<223> Table A; HLA-B*35:01; PTEN; R130P; 1

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<223> Table A; HLA-A*30:01; BRAF; G466V; 0

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<223> Table A; HLA-B*13:02; BRAF; G466V; 0

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<223> Table A; HLA-B*15:01; BRAF; G466V; 1

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<223> Table A; HLA-B*15:02; BRAF; G466V; 0

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<223> Table A; HLA-B*15:03; BRAF; G466V; 0

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<223> Table A; HLA-B*46:01; BRAF; G466V; 0

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<220>
<223> Table A; HLA-B*48:01; BRAF; G466V; 0

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<220>
<223> Table A; HLA-C*08:01; BRAF; G466V; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; BRAF; G466V; 0

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<220>
<223> Table A; HLA-B*13:02; PTEN; R130Q; 1

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<220>
<223> Table A; HLA-B*39:06; PTEN; R130Q; 0

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<210> 13804
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<220>
<223> Table A; HLA-B*48:01; PTEN; R130Q; 0

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<210> 13805
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<220>
<223> Table A; HLA-A*02:05; PTEN; R130Q; 1

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<210> 13806
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<220>
<223> Table A; HLA-A*02:06; PTEN; R130Q; 0

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<213> Homo sapiens

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<223> Table A; HLA-A*02:08; PTEN; R130Q; 0

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<220>
<223> Table A; HLA-B*15:01; PTEN; R130Q; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; PTEN; R130Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; PTEN; R130Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; PTEN; R130Q; 1

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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; PTEN; R130Q; 1

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<210> 13814
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; PTEN; R130Q; 1

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<210> 13815
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; PTEN; R130Q; 0

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<210> 13816
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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; EGFR; L858R; 1

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<210> 13817
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<212> PRT
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<220>
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1               5                   10


<210> 13818
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<212> PRT
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<223> Table A; HLA-B*39:06; EP300; A1629V; 0

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<210> 13819
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<223> Table A; HLA-B*27:05; KRAS; Q61R; 0

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<223> Table A; HLA-B*27:05; NRAS; Q61R; 1

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<210> 13821
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<220>
<223> Table A; HLA-B*27:05; TP53; V272M; 0

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<210> 13822
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<220>
<223> Table A; HLA-C*06:02; TP53; V272M; 1

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<223> Table A; HLA-B*27:05; TP53; R273C; 1

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Gly Arg Asn Ser Phe Glu Val Cys Val
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<223> Table A; HLA-B*39:01; TP53; R273C; 0

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Gly Arg Asn Ser Phe Glu Val Cys Val
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<223> Table A; HLA-B*39:06; TP53; R273C; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; R273H; 1

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<210> 13827
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<220>
<223> Table A; HLA-B*39:06; TP53; R273H; 0

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<210> 13828
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<212> PRT
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<220>
<223> Table A; HLA-C*06:02; TP53; R273H; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; R273L; 0

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<210> 13830
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<212> PRT
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<220>
<223> Table A; HLA-C*06:02; TP53; R273L; 1

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<223> Table A; HLA-B*27:02; TP53; C275Y; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; C275Y; 0

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<220>
<223> Table A; HLA-C*07:01; TP53; C275Y; 1

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<220>
<223> Table A; HLA-B*13:02; TP53; R273S; 0

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<220>
<223> Table A; HLA-B*27:02; TP53; R273S; 0

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<210> 13836
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<220>
<223> Table A; HLA-B*27:05; TP53; R273S; 0

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<210> 13837
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; TP53; R273S; 0

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<210> 13838
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<220>
<223> Table A; HLA-B*39:01; TP53; R273S; 0

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<210> 13839
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; TP53; R273S; 0

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<210> 13840
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<223> Table A; HLA-B*48:01; TP53; R273S; 0

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<210> 13841
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<212> PRT
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<220>
<223> Table A; HLA-C*06:02; TP53; R273S; 0

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<210> 13842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; TP53; R273S; 0

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Gly Arg Asn Ser Phe Glu Val Ser Val
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<210> 13843
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*16:04; TP53; R273S; 0

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<210> 13844
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; E271K; 0

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<210> 13845
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*06:02; TP53; E271K; 1

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<210> 13846
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<220>
<223> Table A; HLA-B*27:05; CDKN2A; P48L; 0

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Gly Arg Arg Leu Ile Gln Val Met
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<210> 13847
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; CDKN2A; P48L; 0

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<210> 13848
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:01; NRAS; G13R; 0

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Gly Arg Val Gly Lys Ser Ala Leu

1 5

<210> 13849
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; NRAS; G13R; 0

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<210> 13850
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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; NRAS; G13R; 0

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<220>
<223> Table A; HLA-B*27:05; NRAS; G13R; 0

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<210> 13852
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; NRAS; G13R; 0

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<210> 13853
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<220>
<223> Table A; HLA-B*27:05; NRAS; G13R; 0

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<210> 13854
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; BRAF; G469V; 1

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<210> 13855
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; BRAF; G469V; 0

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<210> 13856
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:02; BRAF; G469V; 0

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<210> 13857

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; BRAF; G469V; 0

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<210> 13858
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; BRAF; G469V; 1

<400> 13858
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<210> 13859
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; BRAF; G469V; 0

<400> 13859
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1               5


<210> 13860
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; BRAF; G469V; 0

<400> 13860
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<210> 13861
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; BRAF; G469V; 1

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<210> 13862
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<220>
<223> Table A; HLA-A*03:01; BRAF; G469V; 1

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<210> 13863
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; BRAF; G469V; 0

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<210> 13864
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; BRAF; G469V; 1

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<210> 13865
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; BRAF; G469V; 0

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<210> 13866
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:02; IDH1; R132S; 0

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<210> 13867
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; IDH1; R132S; 0

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<210> 13868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; IDH1; R132S; 1

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<210> 13869
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; IDH1; R132S; 0

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<210> 13870
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; IDH1; R132S; 0

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<210> 13871
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; IDH1; R132S; 0

<400> 13871
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<210> 13872
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; IDH1; R132S; 0

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<210> 13873
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; BCORL1; K1207N; 1

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<210> 13874
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<220>
<223> Table A; HLA-B*58:01; BCORL1; K1207N; 0

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1 5 10

<210> 13875
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; TP53; G245S; 0

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<210> 13876
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<212> PRT
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<220>
<223> Table A; HLA-C*16:01; TP53; G245S; 1

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Gly Ser Met Asn Arg Arg Pro Ile Leu
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<210> 13877
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; FBXW7; R479Q; 0

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Gly Ser Gln Asp Ala Thr Leu Arg Val
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<210> 13878
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<212> PRT
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<223> Table A; HLA-C*15:02; FBXW7; R479Q; 0

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<210> 13879
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; FBXW7; R479Q; 0

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<210> 13880
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; FBXW7; R479Q; 0

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Gly Ser Gln Asp Ala Thr Leu Arg Val Trp
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<210> 13881
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; TRRAP; S722F; 0

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<210> 13882
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:02; BRAF; G466V; 0

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<210> 13883
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<212> PRT
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<220>
<223> Table A; HLA-A*30:04; BRAF; G466V; 0

<400> 13883
Gly Ser Val Ser Phe Gly Thr Val Tyr
1               5


<210> 13884
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; BRAF; G466V; 1

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Gly Ser Val Ser Phe Gly Thr Val Tyr
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<210> 13885
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; BRAF; G466V; 0

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<210> 13886
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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; BRAF; G466V; 0

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Gly Ser Val Ser Phe Gly Thr Val Tyr
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<210> 13887
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; BRAF; G466V; 0

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Gly Ser Val Ser Phe Gly Thr Val Tyr
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<210> 13888
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; BRAF; G466V; 0

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<210> 13889
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; BRAF; G466V; 1

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Gly Ser Val Ser Phe Gly Thr Val Tyr Lys
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<210> 13890
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<220>
<223> Table A; HLA-A*03:02; BRAF; G466V; 0

<400> 13890
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<210> 13891
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<220>
<223> Table A; HLA-A*11:01; BRAF; G466V; 1

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Gly Ser Val Ser Phe Gly Thr Val Tyr Lys
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<210> 13892
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; FBXW7; R689W; 0

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Gly Ser Trp Asn Gly Thr Glu Glu Thr Lys
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<210> 13893
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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; TP53; R110L; 0

<400> 13893
Gly Ser Tyr Gly Phe Leu Leu Gly Phe
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<210> 13894
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<212> PRT
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<223> Table A; HLA-B*57:01; TP53; R110L; 0

<400> 13894
Gly Ser Tyr Gly Phe Leu Leu Gly Phe
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<210> 13895
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; TP53; R110L; 0

<400> 13895
Gly Ser Tyr Gly Phe Leu Leu Gly Phe Leu
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<210> 13896
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP53; R110L; 1

<400> 13896
Gly Ser Tyr Gly Phe Leu Leu Gly Phe Leu
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<210> 13897
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<220>
<223> Table A; HLA-B*57:01; KAT6B; R1254H; 0

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Gly Thr Lys His Gly Leu Ser Lys Trp
1               5


<210> 13898
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; LIFR; E319K; 1

<400> 13898
Gly Thr Asn Val Val Phe Thr Thr Lys
1               5


<210> 13899
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; LIFR; E319K; 0

<400> 13899
Gly Thr Asn Val Val Phe Thr Thr Lys
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<210> 13900
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; LIFR; E319K; 0

<400> 13900
Gly Thr Asn Val Val Phe Thr Thr Lys
1               5


<210> 13901
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; LIFR; E319K; 0

<400> 13901
Gly Thr Asn Val Val Phe Thr Thr Lys
1               5


<210> 13902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; LIFR; E319K; 0

<400> 13902
Gly Thr Asn Val Val Phe Thr Thr Lys

1 5

<210> 13903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; LIFR; E319K; 0

<400> 13903
Gly Thr Asn Val Val Phe Thr Thr Lys
1 5

<210> 13904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; ARHGEF12; R705H; 1

<400> 13904
Gly Thr Pro His Thr Leu Asn Thr Val
1 5

<210> 13905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ARHGEF12; R705H; 0

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1 5

<210> 13906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ARHGEF12; R705H; 0

<400> 13906
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1 5

<210> 13907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ARHGEF12; R705H; 0

<400> 13907
Gly Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 13908
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; ARHGEF12; R705H; 0

<400> 13908
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1               5


<210> 13909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; ARHGEF12; R705H; 0

<400> 13909
Gly Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 13910
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; ARHGEF12; R705H; 0

<400> 13910
Gly Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 13911

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; ARHGEF12; R705H; 0

<400> 13911
Gly Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 13912
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SMARCA4; E920K; 0

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Gly Thr Pro Leu Gln Asn Lys Leu Pro Lys
1               5                   10


<210> 13913
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; FAM135B; S11L; 1

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Gly Thr Val Glu Phe Leu Val Glu Leu
1               5


<210> 13914
<211> 9
<212> PRT
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<223> Table A; HLA-A*02:03; FAM135B; S11L; 0

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<210> 13915
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<213> Homo sapiens

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<223> Table A; HLA-A*02:04; FAM135B; S11L; 0

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<223> Table A; HLA-A*02:05; FAM135B; S11L; 0

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<223> Table A; HLA-A*02:06; FAM135B; S11L; 0

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<210> 13918
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<223> Table A; HLA-A*02:08; FAM135B; S11L; 0

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<210> 13919
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<223> Table A; HLA-A*68:02; FAM135B; S11L; 0

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<223> Table A; HLA-B*50:01; FAM135B; S11L; 0

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<210> 13921
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<220>
<223> Table A; HLA-C*15:02; FAM135B; S11L; 0

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<223> Table A; HLA-A*03:01; KEAP1; R470C; 1

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<220>
<223> Table A; HLA-A*29:02; KEAP1; R470C; 0

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Gly Val Ala Val Leu Asn Cys Leu Leu Tyr
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<223> Table A; HLA-B*13:02; PABPC1; R518C; 0

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1               5


<210> 13925
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<220>
<223> Table A; HLA-B*13:02; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*15:01; KEAP1; D422N; 0

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1               5                   10


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<220>
<223> Table A; HLA-B*27:02; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*26:01; KEAP1; D422N; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; KEAP1; D422N; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; KEAP1; D422N; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*27:05; KEAP1; D422N; 0

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<220>
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<220>
<223> Table A; HLA-A*11:01; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*15:01; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*50:01; KEAP1; D422N; 0

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<210> 13938
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; KEAP1; D422N; 1

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<220>
<223> Table A; HLA-A*02:03; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*02:04; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*02:05; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*02:06; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*02:07; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*02:08; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*03:01; KEAP1; D422N; 1

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<220>
<223> Table A; HLA-A*03:02; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*11:01; KEAP1; D422N; 0

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<210> 13948
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<220>

<223> Table A; HLA-A*26:01; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*26:03; KEAP1; D422N; 0

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<223> Table A; HLA-A*29:02; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*30:01; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*31:01; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-A*68:02; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*13:02; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*15:01; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*40:02; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*50:01; KEAP1; D422N; 0

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1 5 10

<210> 13958
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; KDR; S1100F; 0

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<210> 13959
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; TP53; G245V; 1

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<210> 13960
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<220>
<223> Table A; HLA-A*03:02; FAS; E261K; 0

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Gly Val Asn Glu Ala Lys Ile Asp Lys
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<210> 13961
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<220>
<223> Table A; HLA-A*11:01; FAS; E261K; 1

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<210> 13962
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; FAS; E261K; 0

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<210> 13963
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; FAS; E261K; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; FAS; E261K; 0

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<210> 13965

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<220>
<223> Table A; HLA-B*13:01; FAS; E261K; 0

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<220>
<223> Table A; HLA-B*50:01; FAS; E261K; 0

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<220>
<223> Table A; HLA-A*03:01; ARHGEF12; R113Q; 1

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<220>
<223> Table A; HLA-A*03:02; ARHGEF12; R113Q; 0

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<213> Homo sapiens

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<223> Table A; HLA-A*11:01; ARHGEF12; R113Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; ARHGEF12; R113Q; 0

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<220>
<223> Table A; HLA-A*02:01; ARHGEF12; R113Q; 1

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<220>
<223> Table A; HLA-A*02:04; ARHGEF12; R113Q; 0

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<220>
<223> Table A; HLA-A*02:05; ARHGEF12; R113Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; ARHGEF12; R113Q; 0

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<220>
<223> Table A; HLA-A*02:08; ARHGEF12; R113Q; 0

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<210> 13976
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<223> Table A; HLA-A*11:01; ARHGEF12; R113Q; 0

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<210> 13977
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<220>
<223> Table A; HLA-A*68:02; ARHGEF12; R113Q; 0

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<210> 13978
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; ARHGEF12; R113Q; 0

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Gly Val Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5                   10


<210> 13979
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<220>
<223> Table A; HLA-A*29:02; NFE2L2; R34G; 0

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Gly Val Ser Gly Glu Val Phe Asp Phe
1               5


<210> 13980
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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; NFE2L2; R34G; 0

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<210> 13981
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; NFE2L2; R34G; 1

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Gly Val Ser Gly Glu Val Phe Asp Phe
1               5


<210> 13982
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<220>
<223> Table A; HLA-B*27:02; NFE2L2; R34G; 0

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Gly Val Ser Gly Glu Val Phe Asp Phe
1               5


<210> 13983
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; NFE2L2; R34G; 0

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Gly Val Ser Gly Glu Val Phe Asp Phe
1               5


<210> 13984
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<220>
<223> Table A; HLA-C*08:03; NFE2L2; R34G; 0

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Gly Val Ser Gly Glu Val Phe Asp Phe Ser
1               5                   10


<210> 13985
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; NFE2L2; R34Q; 1

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Gly Val Ser Gln Glu Val Phe Asp Phe
1               5

<210> 13986
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; NFE2L2; R34Q; 0

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Gly Val Ser Gln Glu Val Phe Asp Phe
1               5


<210> 13987
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; PTEN; S170N; 0

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1               5


<210> 13988
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; GLI1; R637Q; 0

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Gly Tyr Asn Pro Asn Ala Gly Val Thr Gln Arg
1               5                   10


<210> 13989
<211> 11
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<220>
<223> Table A; HLA-A*31:01; GLI1; R637Q; 0

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1               5                   10

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<220>
<223> Table A; HLA-A*33:01; GLI1; R637Q; 0

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Gly Tyr Asn Pro Asn Ala Gly Val Thr Gln Arg
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; GLI1; R637Q; 0

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1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; GLI1; R637Q; 0

<400> 13992
Gly Tyr Asn Pro Asn Ala Gly Val Thr Gln Arg
1               5                   10


<210> 13993
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; A1CF; E34K; 0

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Gly Tyr Ser Leu Val Gln Lys Asn Gly Gln Arg
1               5                   10


<210> 13994
<211> 11

<212> PRT
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<220>
<223> Table A; HLA-A*23:01; SMAD4; R361C; 0

<400> 13994
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 13995
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*24:02; SMAD4; R361C; 1

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Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 13996
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; SMAD4; R361C; 0

<400> 13996
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 13997
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SMAD4; R361C; 1

<400> 13997
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 13998
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SMAD4; R361C; 0

<400> 13998
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 13999
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; SMAD4; R361C; 0

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Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 14000
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SMAD4; R361C; 0

<400> 14000
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 14001
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; SMAD4; R361C; 0

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1               5                   10


<210> 14002
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<212> PRT
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<220>

<223> Table A; HLA-B*48:01; SMAD4; R361C; 0

<400> 14002
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 14003
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; SMAD4; R361H; 0

<400> 14003
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 14004
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; SMAD4; R361H; 1

<400> 14004
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 14005
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; SMAD4; R361H; 0

<400> 14005
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1               5                   10


<210> 14006
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; SMAD4; R361H; 0

<400> 14006
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 14007
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMAD4; R361H; 0

<400> 14007
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 14008
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SMAD4; R361H; 0

<400> 14008
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 14009
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S37A; 0

<400> 14009
His Ala Gly Ala Thr Thr Thr Ala
1               5


<210> 14010
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37A; 0

<400> 14010
His Ala Gly Ala Thr Thr Thr Ala

1 5

<210> 14011
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37A; 0

<400> 14011
His Ala Gly Ala Thr Thr Thr Ala
1 5

<210> 14012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTNNB1; S37A; 1

<400> 14012
His Ala Gly Ala Thr Thr Thr Ala Pro
1 5

<210> 14013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S37A; 0

<400> 14013
His Ala Gly Ala Thr Thr Thr Ala Pro
1 5

<210> 14014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

<400> 14014
His Ala Gly Ala Thr Thr Thr Ala Pro
1 5

<210> 14015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37A; 0

<400> 14015
His Ala Gly Ala Thr Thr Thr Ala Pro
1               5


<210> 14016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

<400> 14016
His Ala Gly Ala Thr Thr Thr Ala Pro Ser
1               5                   10


<210> 14017
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTNNB1; S37A; 1

<400> 14017
His Ala Gly Ala Thr Thr Thr Ala Pro Ser Leu
1               5                   10


<210> 14018
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S37A; 0

<400> 14018
His Ala Gly Ala Thr Thr Thr Ala Pro Ser Leu
1               5                   10


<210> 14019

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; DCAF12L2; R378H; 0

<400> 14019
His Ala Gln Lys Phe Leu Glu Glu Arg
1               5


<210> 14020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; DCAF12L2; R378H; 0

<400> 14020
His Ala Gln Lys Phe Leu Glu Glu Arg
1               5


<210> 14021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; DCAF12L2; R378H; 0

<400> 14021
His Ala Gln Lys Phe Leu Glu Glu Arg
1               5


<210> 14022
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; PIK3CA; R38H; 0

<400> 14022
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14023
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; R38H; 0

<400> 14023
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14024
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PIK3CA; R38H; 0

<400> 14024
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14025
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PIK3CA; R38H; 1

<400> 14025
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14026
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; PIK3CA; R38H; 0

<400> 14026
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14027
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PIK3CA; R38H; 0

<400> 14027
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14028
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PIK3CA; R38H; 0

<400> 14028
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14029
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PIK3CA; R38H; 1

<400> 14029
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14030
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; R38H; 0

<400> 14030
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14031
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; PIK3CA; R38H; 0

<400> 14031
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14032
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; R38H; 0

<400> 14032
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14033
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; R38H; 0

<400> 14033
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14034
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; R38H; 0

<400> 14034
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 14035
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3CA; R38H; 0

<400> 14035

His Glu Ala Thr Leu Val Thr Ile
1 5

<210> 14036
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PIK3CA; R38H; 1

<400> 14036
His Glu Ala Thr Leu Val Thr Ile
1 5

<210> 14037
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PIK3CA; R38H; 0

<400> 14037
His Glu Ala Thr Leu Val Thr Ile
1 5

<210> 14038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; R38H; 0

<400> 14038
His Glu Ala Thr Leu Val Thr Ile Lys
1 5

<210> 14039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; R38H; 0

<400> 14039
His Glu Ala Thr Leu Val Thr Ile Lys
1 5

<210> 14040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PIK3CA; R38H; 1

<400> 14040
His Glu Ala Thr Leu Val Thr Ile Lys
1               5


<210> 14041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; R38H; 0

<400> 14041
His Glu Ala Thr Leu Val Thr Ile Lys
1               5


<210> 14042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; R38H; 0

<400> 14042
His Glu Ala Thr Leu Val Thr Ile Lys
1               5


<210> 14043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; R38H; 0

<400> 14043
His Glu Ala Thr Leu Val Thr Ile Lys
1               5

<210> 14044
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; MAP2K1; P124S; 0

<400> 14044
His Glu Cys Asn Ser Ser Tyr Ile
1               5


<210> 14045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; BCORL1; K1207N; 0

<400> 14045
His Glu Glu Gly Ser Leu Glu Asn Lys Ala
1               5                   10


<210> 14046
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; BCORL1; K1207N; 0

<400> 14046
His Glu Glu Gly Ser Leu Glu Asn Lys Ala
1               5                   10


<210> 14047
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37F; 0

<400> 14047
His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 14048
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

<400> 14048
His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 14049
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37F; 0

<400> 14049
His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 14050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; FKBP9; R107H; 1

<400> 14050
His Phe Val Lys Ile Pro Pro Lys
1               5


<210> 14051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; FKBP9; R107H; 0

<400> 14051
His Phe Val Lys Ile Pro Pro Lys Leu
1               5


<210> 14052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; FKBP9; R107H; 1

<400> 14052
His Phe Val Lys Ile Pro Pro Lys Leu
1               5


<210> 14053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; FKBP9; R107H; 0

<400> 14053
His Phe Val Lys Ile Pro Pro Lys Leu
1               5


<210> 14054
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; FKBP9; R107H; 1

<400> 14054
His Phe Val Lys Ile Pro Pro Lys Leu Ala Tyr
1               5                   10


<210> 14055
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

<400> 14055
His Gly Leu Val Asp Glu Gln Gln Glu Val
1               5                   10


<210> 14056
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*08:03; SF3B1; K700E; 0

<400> 14056
His Gly Leu Val Asp Glu Gln Gln Glu Val
1               5                   10


<210> 14057
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; K700E; 0

<400> 14057
His Gly Leu Val Asp Glu Gln Gln Glu Val Arg
1               5                   10


<210> 14058
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SF3B1; K700E; 0

<400> 14058
His Gly Leu Val Asp Glu Gln Gln Glu Val Arg
1               5                   10


<210> 14059
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; IDH1; R132H; 1

<400> 14059
His His Ala Tyr Gly Asp Gln Tyr
1               5


<210> 14060
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; IDH1; R132H; 1

<400> 14060
His His Ala Tyr Gly Asp Gln Tyr
1               5


<210> 14061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PREX2; E553K; 0

<400> 14061
His His Val Leu Glu Lys Ser Lys Phe
1               5


<210> 14062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SIRPA; V233I; 0

<400> 14062
His Ile Thr Leu Gln Gly Asp Pro Leu
1               5


<210> 14063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SIRPA; V233I; 0

<400> 14063
His Ile Thr Leu Gln Gly Asp Pro Leu
1               5


<210> 14064
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SIRPA; V233I; 0

<400> 14064
His Ile Thr Leu Gln Gly Asp Pro Leu

1 5

<210> 14065
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; SIRPA; V233I; 0

<400> 14065
His Ile Thr Leu Gln Gly Asp Pro Leu
1 5

<210> 14066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; TP63; E609K; 0

<400> 14066
His Lys Phe Ser Ser Pro Ser His Leu
1 5

<210> 14067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; PTPRK; E358K; 0

<400> 14067
His Leu Asp Pro Asp Thr Lys Tyr
1 5

<210> 14068
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; PTPRK; E358K; 0

<400> 14068
His Leu Asp Pro Asp Thr Lys Tyr
1 5

<210> 14069
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PTPRK; E358K; 1

<400> 14069
His Leu Asp Pro Asp Thr Lys Tyr Glu Ile
1               5                   10


<210> 14070
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PTPRK; E358K; 0

<400> 14070
His Leu Asp Pro Asp Thr Lys Tyr Glu Ile
1               5                   10


<210> 14071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PTPRK; E358K; 0

<400> 14071
His Leu Asp Pro Asp Thr Lys Tyr Glu Ile
1               5                   10


<210> 14072
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PTPRK; E358K; 0

<400> 14072
His Leu Asp Pro Asp Thr Lys Tyr Glu Ile
1               5                   10


<210> 14073

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; PTPRK; E358K; 0

<400> 14073
His Leu Asp Pro Asp Thr Lys Tyr Glu Ile
1               5                   10


<210> 14074
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; PTPRK; E358K; 0

<400> 14074
His Leu Asp Pro Asp Thr Lys Tyr Glu Ile
1               5                   10


<210> 14075
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PTPRK; E358K; 0

<400> 14075
His Leu Asp Pro Asp Thr Lys Tyr Glu Ile
1               5                   10


<210> 14076
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; NFE2L2; D29H; 1

<400> 14076
His Leu Gly Val Ser Arg Glu Val
1               5


<210> 14077
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; NFE2L2; D29H; 0

<400> 14077
His Leu Gly Val Ser Arg Glu Val
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<210> 14078
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; NFE2L2; D29H; 1

<400> 14078
His Leu Gly Val Ser Arg Glu Val
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<210> 14079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NFE2L2; D29H; 0

<400> 14079
His Leu Gly Val Ser Arg Glu Val
1               5


<210> 14080
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; NFE2L2; D29H; 0

<400> 14080
His Leu Gly Val Ser Arg Glu Val
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<210> 14081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NFE2L2; D29H; 0

<400> 14081
His Leu Gly Val Ser Arg Glu Val Phe
1               5


<210> 14082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; NFE2L2; D29H; 0

<400> 14082
His Leu Gly Val Ser Arg Glu Val Phe
1               5


<210> 14083
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TPR; S2155L; 0

<400> 14083
His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14084
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TPR; S2155L; 0

<400> 14084
His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14085
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TPR; S2155L; 0

<400> 14085
His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TPR; S2155L; 0

<400> 14086
His Leu Pro Gln Val Ala Gly Val Pro
1               5


<210> 14087
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; TPR; S2155L; 0

<400> 14087
His Leu Pro Gln Val Ala Gly Val Pro Arg
1               5                   10


<210> 14088
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; TPR; S2155L; 0

<400> 14088
His Leu Pro Gln Val Ala Gly Val Pro Arg
1               5                   10


<210> 14089
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TPR; S2155L; 0

<400> 14089

His Leu Pro Gln Val Ala Gly Val Pro Arg
1 5 10

<210> 14090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TPR; S2155L; 0

<400> 14090
His Leu Pro Gln Val Ala Gly Val Pro Arg
1 5 10

<210> 14091
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TPR; S2155L; 0

<400> 14091
His Leu Pro Gln Val Ala Gly Val Pro Arg
1 5 10

<210> 14092
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TPR; S2155L; 0

<400> 14092
His Leu Pro Gln Val Ala Gly Val Pro Arg
1 5 10

<210> 14093
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TPR; S2155L; 0

<400> 14093
His Leu Pro Gln Val Ala Gly Val Pro Arg
1 5 10

<210> 14094
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; TPR; S2155L; 0

<400> 14094
His Leu Pro Gln Val Ala Gly Val Pro Arg
1               5                   10


<210> 14095
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TPR; S2155L; 0

<400> 14095
His Leu Pro Gln Val Ala Gly Val Pro Arg Phe
1               5                   10


<210> 14096
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; V173M; 0

<400> 14096
His Met Thr Glu Val Met Arg Arg
1               5


<210> 14097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; R175G; 1

<400> 14097
His Met Thr Glu Val Val Arg Gly Cys
1               5

<210> 14098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; R175G; 0

<400> 14098
His Met Thr Glu Val Val Arg Gly Cys
1               5


<210> 14099
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; TP53; R175H; 0

<400> 14099
His Met Thr Glu Val Val Arg His
1               5


<210> 14100
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; TP53; R175H; 0

<400> 14100
His Met Thr Glu Val Val Arg His
1               5


<210> 14101
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; TP53; R175H; 1

<400> 14101
His Met Thr Glu Val Val Arg His
1               5


<210> 14102
<211> 8

<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*48:01; TP53; R175H; 0

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<210> 14103
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<212> PRT
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<223> Table A; HLA-C*08:03; TP53; R175H; 0

<400> 14103
His Met Thr Glu Val Val Arg His
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<210> 14104
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<213> Homo sapiens

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<223> Table A; HLA-A*02:01; TP53; R175H; 1

<400> 14104
His Met Thr Glu Val Val Arg His Cys
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<210> 14105
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; C176F; 0

<400> 14105
His Met Thr Glu Val Val Arg Arg Phe
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<210> 14106
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<220>
<223> Table A; HLA-A*03:01; TP53; C176F; 1

<400> 14106
His Met Thr Glu Val Val Arg Arg Phe
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<210> 14107
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; C176F; 0

<400> 14107
His Met Thr Glu Val Val Arg Arg Phe
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<210> 14108
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; TP53; C176F; 1

<400> 14108
His Met Thr Glu Val Val Arg Arg Phe
1               5


<210> 14109
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; C176F; 1

<400> 14109
His Met Thr Glu Val Val Arg Arg Phe
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<210> 14110
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<212> PRT
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<223> Table A; HLA-A*03:01; TP53; C176Y; 1

<400> 14110
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 14111
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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; TP53; C176Y; 0

<400> 14111
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 14112
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<220>
<223> Table A; HLA-A*30:04; TP53; C176Y; 0

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1               5


<210> 14113
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<220>
<223> Table A; HLA-B*15:02; TP53; C176Y; 0

<400> 14113
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 14114
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; TP53; C176Y; 1

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His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 14115
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<212> PRT
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<223> Table A; HLA-B*44:03; TP53; C176Y; 1

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His Met Thr Glu Val Val Arg Arg Tyr
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<210> 14116
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; TP53; C176Y; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*16:01; TP53; C176Y; 0

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His Met Thr Glu Val Val Arg Arg Tyr
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<210> 14118
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; VHL; L89H; 0

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His Asn Phe Asp Gly Glu Pro Gln Pro Tyr

1 5 10

<210> 14119
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; VHL; L89H; 1

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1 5 10

<210> 14120
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<212> PRT
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<220>
<223> Table A; HLA-C*16:01; SF3B1; R625H; 0

<400> 14120
His Asn Thr Thr Ala Arg Ala Phe
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<210> 14121
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTCF; R377H; 1

<400> 14121
His Pro Phe Gln Cys Ser Leu Cys Ser Tyr
1 5 10

<210> 14122
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S37P; 0

<400> 14122
His Pro Gly Ala Thr Thr Thr Ala
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37P; 0

<400> 14123
His Pro Gly Ala Thr Thr Thr Ala
1               5


<210> 14124
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37P; 0

<400> 14124
His Pro Gly Ala Thr Thr Thr Ala
1               5


<210> 14125
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<220>
<223> Table A; HLA-B*55:01; CTNNB1; S37P; 0

<400> 14125
His Pro Gly Ala Thr Thr Thr Ala
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<210> 14126
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<212> PRT
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<220>
<223> Table A; HLA-B*55:02; CTNNB1; S37P; 0

<400> 14126
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<212> PRT
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<220>
<223> Table A; HLA-B*56:01; CTNNB1; S37P; 0

<400> 14127
His Pro Gly Ala Thr Thr Thr Ala
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37P; 0

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<210> 14129
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<220>
<223> Table A; HLA-B*55:01; CTNNB1; S37P; 0

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<220>
<223> Table A; HLA-B*55:02; CTNNB1; S37P; 0

<400> 14130
His Pro Gly Ala Thr Thr Thr Ala Pro
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<210> 14131
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; S37P; 1

<400> 14131
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<210> 14132
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; CTNNB1; S37P; 0

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<210> 14133
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<220>
<223> Table A; HLA-B*35:03; CTNNB1; S37P; 0

<400> 14133
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37P; 0

<400> 14134
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<220>
<223> Table A; HLA-B*55:02; CTNNB1; S37P; 0

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<210> 14136
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; CNTNAP2; R283H; 0

<400> 14136
His Gln Gly Arg Ser Ile Asn Leu
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<210> 14137
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<212> PRT
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<220>
<223> Table A; HLA-B*15:10; CNTNAP2; R283H; 0

<400> 14137
His Gln Gly Arg Ser Ile Asn Leu
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<210> 14138
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CNTNAP2; R283H; 0

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<210> 14139
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; ACVR1; R206H; 0

<400> 14139
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<210> 14140
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; ACVR1; R206H; 0

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<210> 14141
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; ACVR1; R206H; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; ACVR1; R206H; 0

<400> 14142
His Gln Ile Thr Leu Leu Glu Cys Val
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; ACVR1; R206H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; ACVR1; R206H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; ACVR1; R206H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; KDR; R1032Q; 0

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His Arg Asp Leu Ala Ala Gln Asn Ile
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<220>
<223> Table A; HLA-B*58:01; GRIN2A; R1067W; 0

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<210> 14148
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 14149
His Ser Gly Ala Thr Ala Thr Ala Pro
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41I; 0

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<220>
<223> Table A; HLA-B*54:01; CTNNB1; T41I; 0

<400> 14151
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<210> 14152
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<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41I; 0

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<210> 14153
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41I; 0

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 14154
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32H; 1

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<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32H; 0

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<210> 14159
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32H; 0

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<210> 14160
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32H; 0

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<210> 14161
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32H; 0

<400> 14161
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CNTNAP2; R283H; 0

<400> 14162
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<210> 14163
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CNTNAP2; R283H; 0

<400> 14163
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<210> 14164
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<220>

<223> Table A; HLA-A*68:02; CTCF; R377H; 0

<400> 14164
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<210> 14165
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; FBXW7; R505G; 0

<400> 14165
His Val Ala Ala Val Gly Cys Val Gln Tyr
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<212> PRT
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<220>
<223> Table A; HLA-A*26:02; FBXW7; R505G; 0

<400> 14166
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<220>
<223> Table A; HLA-A*26:03; FBXW7; R505G; 0

<400> 14167
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<212> PRT
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<220>
<223> Table A; HLA-A*29:01; FBXW7; R505G; 0

<400> 14168
His Val Ala Ala Val Gly Cys Val Gln Tyr
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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; FBXW7; R505G; 0

<400> 14169
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<212> PRT
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<220>
<223> Table A; HLA-A*30:04; FBXW7; R505G; 0

<400> 14170
His Val Ala Ala Val Gly Cys Val Gln Tyr
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<210> 14171
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; FBXW7; R505G; 0

<400> 14171
His Val Ala Ala Val Gly Cys Val Gln Tyr
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<220>
<223> Table A; HLA-B*15:01; FBXW7; R505G; 1

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His Val Ala Ala Val Gly Cys Val Gln Tyr

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<220>
<223> Table A; HLA-B*15:02; FBXW7; R505G; 0

<400> 14173
His Val Ala Ala Val Gly Cys Val Gln Tyr
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<210> 14174
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; FBXW7; R505G; 1

<400> 14174
His Val Ala Ala Val Gly Cys Val Gln Tyr
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<220>
<223> Table A; HLA-B*35:08; FBXW7; R505G; 0

<400> 14175
His Val Ala Ala Val Gly Cys Val Gln Tyr
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<210> 14176
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<220>
<223> Table A; HLA-A*03:01; CHD4; R975H; 1

<400> 14176
His Val Glu Leu Ser Pro Met Gln Lys
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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CHD4; R975H; 0

<400> 14177
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CHD4; R975H; 1

<400> 14178
His Val Glu Leu Ser Pro Met Gln Lys
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<210> 14179
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CHD4; R975H; 0

<400> 14179
His Val Glu Leu Ser Pro Met Gln Lys
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CHD4; R975H; 1

<400> 14180
His Val Glu Leu Ser Pro Met Gln Lys Lys
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<210> 14181

<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CHD4; R975H; 0

<400> 14181
His Val Glu Leu Ser Pro Met Gln Lys Lys
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<210> 14182
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CHD4; R975H; 1

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His Val Glu Leu Ser Pro Met Gln Lys Lys
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<210> 14183
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; EGFR; L858R; 1

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His Val Lys Ile Thr Asp Phe Gly Arg
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<210> 14184
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; PREX2; E553K; 0

<400> 14184
His Val Leu Glu Lys Ser Lys Phe
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<210> 14185
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PREX2; E553K; 1

<400> 14185
His Val Leu Glu Lys Ser Lys Phe Lys
1               5


<210> 14186
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; PREX2; E553K; 0

<400> 14186
His Val Leu Glu Lys Ser Lys Phe Lys
1               5


<210> 14187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; GNAS; R201H; 0

<400> 14187
His Val Leu Thr Ser Gly Ile Phe
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<210> 14188
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; GNAS; R201H; 0

<400> 14188
His Val Leu Thr Ser Gly Ile Phe Glu Thr
1               5                   10


<210> 14189
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; GNAS; R201H; 0

<400> 14189
His Val Leu Thr Ser Gly Ile Phe Glu Thr
1               5                   10


<210> 14190
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; GNAS; R201H; 1

<400> 14190
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 14191
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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; GNAS; R201H; 0

<400> 14191
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
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<210> 14192
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<220>
<223> Table A; HLA-A*11:01; GNAS; R201H; 1

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<210> 14193
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; GNAS; R201H; 0

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1               5                   10


<210> 14194
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<220>
<223> Table A; HLA-A*68:01; GNAS; R201H; 0

<400> 14194
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 14195
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; GNAS; R201H; 0

<400> 14195
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1               5                   10


<210> 14196
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; GNAS; R201H; 0

<400> 14196
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 14197
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; MTOR; A2056V; 1

<400> 14197

His Val Met Met Glu Arg Gly Pro Gln Thr Leu
1               5                   10


<210> 14198
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CHST11; A159T; 0

<400> 14198
His Val Ser Thr Asn Leu Lys Thr Leu
1               5


<210> 14199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CHST11; A159T; 0

<400> 14199
His Val Ser Thr Asn Leu Lys Thr Leu
1               5


<210> 14200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CHST11; A159T; 0

<400> 14200
His Val Ser Thr Asn Leu Lys Thr Leu
1               5


<210> 14201
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CHST11; A159T; 0

<400> 14201
His Val Ser Thr Asn Leu Lys Thr Leu
1               5

<210> 14202
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CHST11; A159T; 0

<400> 14202
His Val Ser Thr Asn Leu Lys Thr Leu
1               5


<210> 14203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CHST11; A159T; 0

<400> 14203
His Val Ser Thr Asn Leu Lys Thr Leu
1               5


<210> 14204
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CHST11; A159T; 0

<400> 14204
His Val Ser Thr Asn Leu Lys Thr Leu
1               5


<210> 14205
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; CHST11; A159T; 0

<400> 14205
His Val Ser Thr Asn Leu Lys Thr Leu
1               5

<210> 14206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTNNB1; D32Y; 0

<400> 14206
His Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 14207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; CTNNB1; D32Y; 1

<400> 14207
His Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 14208
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*29:01; CTNNB1; D32Y; 0

<400> 14208
His Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 14209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32Y; 1

<400> 14209
His Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 14210
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; S241F; 0

<400> 14210
His Tyr Asn Tyr Met Cys Asn Ser Phe
1               5


<210> 14211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; S241F; 1

<400> 14211
His Tyr Asn Tyr Met Cys Asn Ser Phe
1               5


<210> 14212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; S241F; 0

<400> 14212
His Tyr Asn Tyr Met Cys Asn Ser Phe
1               5


<210> 14213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; S241F; 0

<400> 14213
His Tyr Asn Tyr Met Cys Asn Ser Phe
1               5


<210> 14214
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; PIK3CA; Y1021C; 1

<400> 14214
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<210> 14215
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<212> PRT
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<220>
<223> Table A; HLA-C*16:01; PIK3CA; Y1021C; 0

<400> 14215
Ile Ala Cys Ile Arg Lys Thr Leu
1               5


<210> 14216
<211> 9
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<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; FGFR2; C382R; 0

<400> 14216
Ile Ala Ile Tyr Arg Ile Gly Val Phe
1               5


<210> 14217
<211> 9
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<220>
<223> Table A; HLA-B*57:01; ARID2; S297F; 1

<400> 14217
Ile Ala Val Ile Leu Arg Asn Leu Phe
1               5


<210> 14218
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*57:01; ARID2; S297F; 1

<400> 14218
Ile Ala Val Ile Leu Arg Asn Leu Phe Phe
1               5                   10


<210> 14219
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<220>
<223> Table A; HLA-C*08:02; SIRPA; V233I; 0

<400> 14219
Ile Cys Glu Val Ala His Ile Thr Leu
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<210> 14220
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; ARID1A; G2087R; 0

<400> 14220
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1               5


<210> 14221
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; NFE2L2; R34G; 0

<400> 14221
Ile Asp Leu Gly Val Ser Gly Glu Val
1               5


<210> 14222
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; NFE2L2; R34G; 0

<400> 14222
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1               5


<210> 14223
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<220>
<223> Table A; HLA-A*68:02; NFE2L2; R34G; 0

<400> 14223
Ile Asp Leu Gly Val Ser Gly Glu Val
1               5


<210> 14224
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NFE2L2; R34G; 0

<400> 14224
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1               5


<210> 14225
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*37:01; NFE2L2; R34G; 0

<400> 14225
Ile Asp Leu Gly Val Ser Gly Glu Val
1               5


<210> 14226
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; NFE2L2; R34G; 0

<400> 14226
Ile Asp Leu Gly Val Ser Gly Glu Val

1 5

<210> 14227
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<220>
<223> Table A; HLA-B*40:02; NFE2L2; R34G; 0

<400> 14227
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1 5

<210> 14228
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<220>
<223> Table A; HLA-B*41:02; NFE2L2; R34G; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; NFE2L2; R34G; 0

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<210> 14230
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; NFE2L2; R34G; 0

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<210> 14231
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; NFE2L2; R34G; 0

<400> 14231
Ile Asp Leu Gly Val Ser Gly Glu Val
1               5


<210> 14232
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; NFE2L2; R34G; 0

<400> 14232
Ile Asp Leu Gly Val Ser Gly Glu Val Phe
1               5                   10


<210> 14233
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<220>
<223> Table A; HLA-B*15:01; NFE2L2; R34G; 1

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1               5                   10


<210> 14234
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; NFE2L2; R34G; 0

<400> 14234
Ile Asp Leu Gly Val Ser Gly Glu Val Phe
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<210> 14235

<211> 10
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NFE2L2; R34G; 0

<400> 14235
Ile Asp Leu Gly Val Ser Gly Glu Val Phe
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<210> 14236
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; NFE2L2; R34G; 0

<400> 14236
Ile Asp Leu Gly Val Ser Gly Glu Val Phe
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<210> 14237
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; NFE2L2; R34G; 0

<400> 14237
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<210> 14238
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; NFE2L2; R34G; 0

<400> 14238
Ile Asp Leu Gly Val Ser Gly Glu Val Phe
1               5                   10


<210> 14239
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; NFE2L2; R34Q; 1

<400> 14239
Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 14240
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NFE2L2; R34Q; 0

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Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 14241
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; NFE2L2; R34Q; 0

<400> 14241
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<220>
<223> Table A; HLA-A*68:02; NFE2L2; R34Q; 0

<400> 14242
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; NFE2L2; R34Q; 0

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<223> Table A; HLA-B*15:10; NFE2L2; R34Q; 0

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<210> 14245
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; NFE2L2; R34Q; 0

<400> 14245
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; NFE2L2; R34Q; 0

<400> 14246
Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 14247
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<212> PRT
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<220>
<223> Table A; HLA-B*37:01; NFE2L2; R34Q; 0

<400> 14247
Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 14248
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; NFE2L2; R34Q; 0

<400> 14248
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1               5


<210> 14249
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; NFE2L2; R34Q; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; NFE2L2; R34Q; 1

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1               5


<210> 14251
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; NFE2L2; R34Q; 0

<400> 14251

Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 14252
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; NFE2L2; R34Q; 0

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1               5


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<220>
<223> Table A; HLA-B*44:05; NFE2L2; R34Q; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NFE2L2; R34Q; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; NFE2L2; R34Q; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; NFE2L2; R34Q; 1

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Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; NFE2L2; R34Q; 0

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Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 14258
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; NFE2L2; R34Q; 0

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1               5


<210> 14259
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<220>
<223> Table A; HLA-C*16:04; NFE2L2; R34Q; 0

<400> 14259
Ile Asp Leu Gly Val Ser Gln Glu Val
1               5

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<220>
<223> Table A; HLA-B*27:02; NFE2L2; R34Q; 0

<400> 14260
Ile Asp Leu Gly Val Ser Gln Glu Val Phe
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<210> 14261
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<220>
<223> Table A; HLA-B*40:02; NFE2L2; R34Q; 0

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<220>
<223> Table A; HLA-B*44:05; NFE2L2; R34Q; 0

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1               5                   10


<210> 14263
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CSMD3; S300F; 0

<400> 14263
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1               5


<210> 14264
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CSMD3; S300F; 0

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1               5


<210> 14265
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CSMD3; S300F; 0

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1               5


<210> 14266
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CSMD3; S300F; 0

<400> 14266
Ile Glu Gly Phe Glu Pro Pro Thr Ile
1               5


<210> 14267
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; DDIT3; R147H; 0

<400> 14267
Ile Glu His Leu Thr Arg Glu Val
1               5


<210> 14268
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; DDIT3; R147H; 0

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<210> 14269
<211> 8
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<220>
<223> Table A; HLA-B*49:01; DDIT3; R147H; 0

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<220>
<223> Table A; HLA-B*50:01; DDIT3; R147H; 0

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<210> 14271
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; DDIT3; R147H; 0

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<210> 14272
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<220>

<223> Table A; HLA-B*40:02; CNTNAP2; R283H; 0

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<210> 14273
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; CNTNAP2; R283H; 0

<400> 14273
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1               5


<210> 14274
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<220>
<223> Table A; HLA-B*49:01; CNTNAP2; R283H; 0

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1               5


<210> 14275
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; CNTNAP2; R283H; 0

<400> 14275
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1               5                   10


<210> 14276
<211> 10
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<220>
<223> Table A; HLA-B*40:02; CNTNAP2; R283H; 0

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1               5                   10


<210> 14277
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<220>
<223> Table A; HLA-B*41:02; CNTNAP2; R283H; 0

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1               5                   10


<210> 14278
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<220>
<223> Table A; HLA-B*44:05; CNTNAP2; R283H; 0

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Ile Glu His Gln Gly Arg Ser Ile Asn Leu
1               5                   10


<210> 14279
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; PIK3R1; K567E; 1

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Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 14280
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3R1; K567E; 0

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Ile Glu Pro Asp Leu Ile Gln Leu

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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; PIK3R1; K567E; 0

<400> 14281
Ile Glu Pro Asp Leu Ile Gln Leu
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<210> 14282
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; PIK3R1; K567E; 0

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Ile Glu Pro Asp Leu Ile Gln Leu
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<210> 14283
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; PIK3R1; K567E; 0

<400> 14283
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1 5

<210> 14284
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; PIK3R1; K567E; 0

<400> 14284
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1 5

<210> 14285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3R1; K567E; 0

<400> 14285
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5


<210> 14286
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3R1; K567E; 0

<400> 14286
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5


<210> 14287
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3R1; K567E; 0

<400> 14287
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5


<210> 14288
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3R1; K567E; 1

<400> 14288
Ile Glu Pro Asp Leu Ile Gln Leu Arg Lys
1               5                   10


<210> 14289

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3R1; K567E; 0

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Ile Glu Pro Asp Leu Ile Gln Leu Arg Lys
1               5                   10


<210> 14290
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; R108H; 0

<400> 14290
Ile Glu Pro Val Gly Asn His Glu Glu Lys Ile
1               5                   10


<210> 14291
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; KDR; S1100F; 0

<400> 14291
Ile Phe Phe Leu Gly Ala Ser Pro Tyr
1               5


<210> 14292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; POLE; S297F; 0

<400> 14292
Ile Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5                   10


<210> 14293
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; POLE; S297F; 0

<400> 14293
Ile Phe Tyr Met Ile Asp Gly Gln Gly Tyr
1               5                   10


<210> 14294
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; BRAF; V600E; 1

<400> 14294
Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1               5                   10


<210> 14295
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PTPRT; E324K; 1

<400> 14295
Ile Gly Asp Gly Pro Ile Ile Leu Lys Lys
1               5                   10


<210> 14296
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PTPRT; E324K; 0

<400> 14296
Ile Gly Asp Gly Pro Ile Ile Leu Lys Lys
1               5                   10


<210> 14297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; NFE2L2; D29G; 0

<400> 14297
Ile Gly Leu Gly Val Ser Arg Glu Val
1               5


<210> 14298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NFE2L2; D29G; 0

<400> 14298
Ile Gly Leu Gly Val Ser Arg Glu Val
1               5


<210> 14299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; NFE2L2; D29G; 0

<400> 14299
Ile Gly Leu Gly Val Ser Arg Glu Val
1               5


<210> 14300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; NFE2L2; D29G; 0

<400> 14300
Ile Gly Leu Gly Val Ser Arg Glu Val
1               5


<210> 14301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; NFE2L2; D29G; 0

<400> 14301
Ile Gly Leu Gly Val Ser Arg Glu Val
1               5


<210> 14302
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; NFE2L2; D29G; 0

<400> 14302
Ile Gly Leu Gly Val Ser Arg Glu Val Phe
1               5                   10


<210> 14303
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; NFE2L2; D29G; 0

<400> 14303
Ile Gly Leu Gly Val Ser Arg Glu Val Phe
1               5                   10


<210> 14304
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; NFE2L2; D29G; 0

<400> 14304
Ile Gly Leu Gly Val Ser Arg Glu Val Phe
1               5                   10


<210> 14305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; BRAF; G469V; 0

<400> 14305

Ile Gly Ser Gly Ser Phe Val Thr Val
1               5


<210> 14306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; BRAF; G469V; 1

<400> 14306
Ile Gly Ser Gly Ser Phe Val Thr Val
1               5


<210> 14307
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; KEAP1; D422N; 0

<400> 14307
Ile Gly Val Gly Val Ile Asn Gly His Ile Tyr
1               5                   10


<210> 14308
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; KEAP1; D422N; 0

<400> 14308
Ile Gly Val Gly Val Ile Asn Gly His Ile Tyr
1               5                   10


<210> 14309
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; KEAP1; D422N; 0

<400> 14309
Ile Gly Val Gly Val Ile Asn Gly His Ile Tyr
1               5                   10

<210> 14310
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37A; 0

<400> 14310
Ile His Ala Gly Ala Thr Thr Thr
1               5


<210> 14311
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37A; 0

<400> 14311
Ile His Ala Gly Ala Thr Thr Thr
1               5


<210> 14312
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37A; 0

<400> 14312
Ile His Ala Gly Ala Thr Thr Thr
1               5


<210> 14313
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37A; 0

<400> 14313
Ile His Ala Gly Ala Thr Thr Thr
1               5

<210> 14314
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

<400> 14314
Ile His Ala Gly Ala Thr Thr Thr
1               5


<210> 14315
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37A; 0

<400> 14315
Ile His Ala Gly Ala Thr Thr Thr Ala
1               5


<210> 14316
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37A; 0

<400> 14316
Ile His Ala Gly Ala Thr Thr Thr Ala
1               5


<210> 14317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37A; 0

<400> 14317
Ile His Ala Gly Ala Thr Thr Thr Ala
1               5


<210> 14318
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37A; 0

<400> 14318
Ile His Ala Gly Ala Thr Thr Thr Ala
1               5


<210> 14319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37A; 0

<400> 14319
Ile His Ala Gly Ala Thr Thr Thr Ala
1               5


<210> 14320
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

<400> 14320
Ile His Ala Gly Ala Thr Thr Thr Ala
1               5


<210> 14321
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37A; 0

<400> 14321
Ile His Ala Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 14322
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37A; 0

<400> 14322
Ile His Ala Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 14323
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37A; 0

<400> 14323
Ile His Ala Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 14324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37C; 0

<400> 14324
Ile His Cys Gly Ala Thr Thr Thr Ala
1               5


<210> 14325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37C; 0

<400> 14325
Ile His Cys Gly Ala Thr Thr Thr Ala
1               5


<210> 14326
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*39:06; CTNNB1; S37C; 0

<400> 14326
Ile His Cys Gly Ala Thr Thr Thr Ala
1               5


<210> 14327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PTEN; R130L; 0

<400> 14327
Ile His Cys Lys Ala Gly Lys Gly Leu
1               5


<210> 14328
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; ROBO2; D1014N; 0

<400> 14328
Ile His Glu Leu Ala Val Asn Leu
1               5


<210> 14329
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; ROBO2; D1014N; 0

<400> 14329
Ile His Glu Leu Ala Val Asn Leu
1               5


<210> 14330
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37F; 0

<400> 14330
Ile His Phe Gly Ala Thr Thr Thr
1               5


<210> 14331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; S37F; 1

<400> 14331
Ile His Phe Gly Ala Thr Thr Thr
1               5


<210> 14332
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37F; 0

<400> 14332
Ile His Phe Gly Ala Thr Thr Thr
1               5


<210> 14333
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37F; 0

<400> 14333
Ile His Phe Gly Ala Thr Thr Thr
1               5


<210> 14334
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

<400> 14334
Ile His Phe Gly Ala Thr Thr Thr

1 5

<210> 14335
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37F; 0

<400> 14335
Ile His Phe Gly Ala Thr Thr Thr
1 5

<210> 14336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37F; 0

<400> 14336
Ile His Phe Gly Ala Thr Thr Thr Ala
1 5

<210> 14337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37F; 0

<400> 14337
Ile His Phe Gly Ala Thr Thr Thr Ala
1 5

<210> 14338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37F; 1

<400> 14338
Ile His Phe Gly Ala Thr Thr Thr Ala
1 5

<210> 14339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37F; 0

<400> 14339
Ile His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 14340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37F; 0

<400> 14340
Ile His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 14341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37F; 0

<400> 14341
Ile His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 14342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37F; 0

<400> 14342
Ile His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 14343

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37F; 0

<400> 14343
Ile His Phe Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 14344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37F; 0

<400> 14344
Ile His Phe Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 14345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; NFE2L2; D29H; 0

<400> 14345
Ile His Leu Gly Val Ser Arg Glu Val
1               5


<210> 14346
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; NFE2L2; D29H; 0

<400> 14346
Ile His Leu Gly Val Ser Arg Glu Val
1               5


<210> 14347
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TPR; S2155L; 0

<400> 14347
Ile His Leu Pro Gln Val Ala Gly
1               5


<210> 14348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TPR; S2155L; 1

<400> 14348
Ile His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TPR; S2155L; 0

<400> 14349
Ile His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TPR; S2155L; 0

<400> 14350
Ile His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TPR; S2155L; 0

<400> 14351
Ile His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TPR; S2155L; 0

<400> 14352
Ile His Leu Pro Gln Val Ala Gly Val
1               5


<210> 14353
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TPR; S2155L; 0

<400> 14353
Ile His Leu Pro Gln Val Ala Gly Val Pro Arg
1               5                   10


<210> 14354
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TPR; S2155L; 0

<400> 14354
Ile His Leu Pro Gln Val Ala Gly Val Pro Arg
1               5                   10


<210> 14355
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; TPR; S2155L; 0

<400> 14355
Ile His Leu Pro Gln Val Ala Gly Val Pro Arg
1               5                   10


<210> 14356
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37P; 0

<400> 14356
Ile His Pro Gly Ala Thr Thr Thr
1               5


<210> 14357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37P; 0

<400> 14357
Ile His Pro Gly Ala Thr Thr Thr Ala
1               5


<210> 14358
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37P; 0

<400> 14358
Ile His Pro Gly Ala Thr Thr Thr Ala
1               5


<210> 14359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37P; 0

<400> 14359

Ile His Pro Gly Ala Thr Thr Thr Ala
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<210> 14360
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37P; 0

<400> 14360
Ile His Pro Gly Ala Thr Thr Thr Ala
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<210> 14361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41A; 0

<400> 14361
Ile His Ser Gly Ala Thr Ala Thr
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<210> 14362
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41A; 1

<400> 14362
Ile His Ser Gly Ala Thr Ala Thr
1 5

<210> 14363
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41A; 0

<400> 14363
Ile His Ser Gly Ala Thr Ala Thr
1 5

<210> 14364
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41A; 0

<400> 14364
Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 14365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41A; 0

<400> 14365
Ile His Ser Gly Ala Thr Ala Thr Ala
1               5


<210> 14366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41A; 1

<400> 14366
Ile His Ser Gly Ala Thr Ala Thr Ala
1               5


<210> 14367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41A; 1

<400> 14367
Ile His Ser Gly Ala Thr Ala Thr Ala
1               5

<210> 14368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41A; 0

<400> 14368
Ile His Ser Gly Ala Thr Ala Thr Ala
1               5


<210> 14369
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41A; 0

<400> 14369
Ile His Ser Gly Ala Thr Ala Thr Ala Pro
1               5                   10


<210> 14370
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41A; 1

<400> 14370
Ile His Ser Gly Ala Thr Ala Thr Ala Pro
1               5                   10


<210> 14371
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41A; 1

<400> 14371
Ile His Ser Gly Ala Thr Ala Thr Ala Pro
1               5                   10


<210> 14372
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41I; 0

<400> 14372
Ile His Ser Gly Ala Thr Ile Thr
1               5


<210> 14373
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41I; 0

<400> 14373
Ile His Ser Gly Ala Thr Ile Thr
1               5


<210> 14374
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41I; 0

<400> 14374
Ile His Ser Gly Ala Thr Ile Thr
1               5


<210> 14375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41I; 0

<400> 14375
Ile His Ser Gly Ala Thr Ile Thr Ala
1               5


<210> 14376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41I; 0

<400> 14376
Ile His Ser Gly Ala Thr Ile Thr Ala
1               5


<210> 14377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41I; 0

<400> 14377
Ile His Ser Gly Ala Thr Ile Thr Ala
1               5


<210> 14378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41I; 0

<400> 14378
Ile His Ser Gly Ala Thr Ile Thr Ala
1               5


<210> 14379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41I; 0

<400> 14379
Ile His Ser Gly Ala Thr Ile Thr Ala
1               5


<210> 14380
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*55:02; CTNNB1; T41I; 0

<400> 14380
Ile His Ser Gly Ala Thr Ile Thr Ala
1               5


<210> 14381
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41I; 0

<400> 14381
Ile His Ser Gly Ala Thr Ile Thr Ala Pro
1               5                   10


<210> 14382
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41I; 0

<400> 14382
Ile His Ser Gly Ala Thr Ile Thr Ala Pro
1               5                   10


<210> 14383
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41I; 0

<400> 14383
Ile His Ser Gly Ala Thr Ile Thr Ala Pro
1               5                   10


<210> 14384
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S45F; 0

<400> 14384
Ile His Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5                   10


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<223> Table A; HLA-B*38:01; CTNNB1; S45F; 0

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1               5                   10


<210> 14386
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<220>
<223> Table A; HLA-A*02:05; CSMD3; R100Q; 0

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1               5


<210> 14387
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<220>
<223> Table A; HLA-B*13:02; CSMD3; R100Q; 0

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<223> Table A; HLA-B*50:01; CSMD3; R100Q; 0

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<223> Table A; HLA-A*02:04; PTPRT; E324K; 0

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1 5 10

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<220>
<223> Table A; HLA-A*03:01; PTPRT; E324K; 1

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<223> Table A; HLA-A*03:02; PTPRT; E324K; 0

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<223> Table A; HLA-A*11:01; PTPRT; E324K; 1

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<220>
<223> Table A; HLA-B*27:02; PTPRT; E324K; 0

<400> 14393
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<210> 14394
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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; IDH1; R132G; 0

<400> 14394
Ile Ile Ile Gly Gly His Ala Tyr
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<210> 14395
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; IDH1; R132G; 1

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<220>
<223> Table A; HLA-B*46:01; IDH1; R132G; 0

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Ile Ile Ile Gly Gly His Ala Tyr
1               5


<210> 14397

<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*30:02; IDH1; R132S; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; IDH1; R132S; 1

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Ile Ile Ile Gly Ser His Ala Tyr
1               5


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<220>
<223> Table A; HLA-B*46:01; IDH1; R132S; 0

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<220>
<223> Table A; HLA-A*31:01; CHD4; R1338I; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CHD4; R1338I; 1

<400> 14401
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<220>
<223> Table A; HLA-B*15:02; CHD4; R1338I; 0

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Ile Ile Arg Lys Gln Val Asn Tyr
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<220>
<223> Table A; HLA-B*57:01; CHD4; R1338I; 0

<400> 14403
Ile Ile Arg Lys Gln Val Asn Tyr
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<220>
<223> Table A; HLA-B*15:03; PTPRT; M903I; 0

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<210> 14405
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; PIK3CA; N345K; 1

<400> 14405
Ile Leu Cys Ala Thr Tyr Val Lys Leu
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<220>
<223> Table A; HLA-A*02:04; PIK3CA; N345K; 0

<400> 14406
Ile Leu Cys Ala Thr Tyr Val Lys Leu
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<210> 14407
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PIK3CA; N345K; 0

<400> 14407
Ile Leu Cys Ala Thr Tyr Val Lys Leu
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<210> 14408
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP63; E609K; 1

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<210> 14409
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; KRAS; Q61H; 1

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KRAS; Q61H; 1

<400> 14410
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; KRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*29:01; KRAS; Q61H; 0

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<220>
<223> Table A; HLA-A*29:02; KRAS; Q61H; 1

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1 5 10

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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; KRAS; Q61H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; KRAS; Q61H; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KRAS; Q61H; 1

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1 5 10

<210> 14417
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<220>
<223> Table A; HLA-B*15:02; KRAS; Q61H; 0

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1 5 10

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<212> PRT
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<220>
<223> Table A; HLA-B*15:13; KRAS; Q61H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; KRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*35:01; KRAS; Q61H; 1

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<210> 14421
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<212> PRT
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<220>
<223> Table A; HLA-B*35:08; KRAS; Q61H; 0

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<210> 14422
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; KRAS; Q61H; 0

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<210> 14423
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<212> PRT
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<220>
<223> Table A; HLA-B*46:01; KRAS; Q61H; 0

<400> 14423
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<210> 14424
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; KRAS; Q61H; 0

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<210> 14425
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<220>
<223> Table A; HLA-C*03:02; KRAS; Q61H; 0

<400> 14425
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<210> 14426
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<212> PRT
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<220>
<223> Table A; HLA-C*05:01; KRAS; Q61H; 1

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<210> 14427
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; KRAS; Q61H; 0

<400> 14427
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<210> 14428
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; KRAS; Q61H; 1

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<210> 14429
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<223> Table A; HLA-A*01:01; NRAS; Q61H; 1

<400> 14429
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<210> 14430
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<223> Table A; HLA-A*02:01; NRAS; Q61H; 1

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<210> 14431
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<223> Table A; HLA-A*02:07; NRAS; Q61H; 0

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<210> 14432
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<220>
<223> Table A; HLA-A*29:01; NRAS; Q61H; 0

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<210> 14433
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<220>
<223> Table A; HLA-A*29:02; NRAS; Q61H; 0

<400> 14433
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<223> Table A; HLA-A*30:02; NRAS; Q61H; 0

<400> 14434
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
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<210> 14435
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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; NRAS; Q61H; 0

<400> 14435
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
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<210> 14436
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; NRAS; Q61H; 1

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<210> 14437
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<220>
<223> Table A; HLA-B*15:02; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*15:03; NRAS; Q61H; 0

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<210> 14439
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<220>
<223> Table A; HLA-B*15:13; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*35:01; NRAS; Q61H; 1

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<220>
<223> Table A; HLA-B*35:08; NRAS; Q61H; 0

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<223> Table A; HLA-B*39:01; NRAS; Q61H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*46:01; NRAS; Q61H; 0

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<220>
<223> Table A; HLA-B*48:01; NRAS; Q61H; 0

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<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; NRAS; Q61H; 0

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<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*03:02; NRAS; Q61H; 0

<400> 14447
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<212> PRT
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<220>
<223> Table A; HLA-C*05:01; NRAS; Q61H; 1

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<223> Table A; HLA-C*08:01; NRAS; Q61H; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; NRAS; Q61H; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; KRAS; Q61H; 0

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Ile Leu Asp Thr Ala Gly His Glu Glu Tyr Ser
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<220>
<223> Table A; HLA-C*08:03; NRAS; Q61H; 0

<400> 14452
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr Ser
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; HRAS; Q61K; 1

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<220>
<223> Table A; HLA-A*02:07; HRAS; Q61K; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; HRAS; Q61K; 0

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<223> Table A; HLA-A*29:02; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-A*30:02; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*13:01; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*15:01; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*15:02; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*15:13; HRAS; Q61K; 0

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1               5                   10


<210> 14462
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<220>
<223> Table A; HLA-B*27:02; HRAS; Q61K; 0

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<220>
<223> Table A; HLA-B*35:01; HRAS; Q61K; 0

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<210> 14464
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<220>
<223> Table A; HLA-B*35:08; HRAS; Q61K; 0

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1               5                   10


<210> 14465
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<220>
<223> Table A; HLA-B*39:01; HRAS; Q61K; 0

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<210> 14466
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<220>
<223> Table A; HLA-B*46:01; HRAS; Q61K; 0

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1               5                   10


<210> 14467
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<220>
<223> Table A; HLA-B*58:01; HRAS; Q61K; 0

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Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
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<210> 14468
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; HRAS; Q61K; 0

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<210> 14469
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; HRAS; Q61K; 0

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1 5 10

<210> 14470
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<220>
<223> Table A; HLA-C*08:02; HRAS; Q61K; 0

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1 5 10

<210> 14471
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; NRAS; Q61K; 1

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<210> 14472
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; NRAS; Q61K; 1

<400> 14472
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 14473
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; NRAS; Q61K; 0

<400> 14473
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 14474
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<212> PRT
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<220>
<223> Table A; HLA-A*29:01; NRAS; Q61K; 0

<400> 14474
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; NRAS; Q61K; 1

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Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10

<210> 14476
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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; NRAS; Q61K; 1

<400> 14476
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
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<210> 14477
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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; NRAS; Q61K; 0

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Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 14478
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; NRAS; Q61K; 1

<400> 14478
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 14479
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<212> PRT
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<223> Table A; HLA-B*58:01; NRAS; Q61K; 0

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<223> Table A; HLA-C*03:02; NRAS; Q61K; 0

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<223> Table A; HLA-C*08:01; NRAS; Q61K; 0

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<223> Table A; HLA-C*08:02; NRAS; Q61K; 1

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<223> Table A; HLA-A*01:01; KRAS; Q61L; 1

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<223> Table A; HLA-A*02:01; KRAS; Q61L; 1

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<223> Table A; HLA-A*29:01; KRAS; Q61L; 0

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<223> Table A; HLA-A*29:02; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*15:01; KRAS; Q61L; 0

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<223> Table A; HLA-B*35:01; KRAS; Q61L; 0

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<223> Table A; HLA-B*39:01; KRAS; Q61L; 0

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<223> Table A; HLA-B*46:01; KRAS; Q61L; 0

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<223> Table A; HLA-B*58:01; KRAS; Q61L; 0

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<223> Table A; HLA-C*03:02; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*02:01; NRAS; Q61L; 1

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<220>
<223> Table A; HLA-A*02:07; NRAS; Q61L; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-A*29:02; NRAS; Q61L; 1

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<223> Table A; HLA-A*30:02; NRAS; Q61L; 0

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<223> Table A; HLA-B*13:01; NRAS; Q61L; 0

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<223> Table A; HLA-B*15:01; NRAS; Q61L; 1

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<223> Table A; HLA-B*15:02; NRAS; Q61L; 0

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<223> Table A; HLA-B*35:08; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*46:01; NRAS; Q61L; 0

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<223> Table A; HLA-B*58:01; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-C*03:02; NRAS; Q61L; 0

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1 5 10

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<223> Table A; HLA-A*01:01; KRAS; Q61R; 1

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<223> Table A; HLA-A*02:01; KRAS; Q61R; 1

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<223> Table A; HLA-A*02:07; KRAS; Q61R; 0

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<223> Table A; HLA-A*29:01; KRAS; Q61R; 0

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<223> Table A; HLA-A*29:02; KRAS; Q61R; 0

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<223> Table A; HLA-A*30:02; KRAS; Q61R; 0

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<223> Table A; HLA-B*13:01; KRAS; Q61R; 0

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<223> Table A; HLA-B*15:01; KRAS; Q61R; 0

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<223> Table A; HLA-B*15:02; KRAS; Q61R; 0

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<223> Table A; HLA-B*15:03; KRAS; Q61R; 0

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<223> Table A; HLA-B*15:13; KRAS; Q61R; 0

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<223> Table A; HLA-B*27:02; KRAS; Q61R; 0

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<223> Table A; HLA-B*35:01; KRAS; Q61R; 0

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<223> Table A; HLA-B*35:08; KRAS; Q61R; 0

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<223> Table A; HLA-B*39:01; KRAS; Q61R; 0

<400> 14537
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<223> Table A; HLA-B*46:01; KRAS; Q61R; 0

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<223> Table A; HLA-B*57:01; KRAS; Q61R; 0

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<223> Table A; HLA-B*58:01; KRAS; Q61R; 0

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<223> Table A; HLA-C*03:02; KRAS; Q61R; 0

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<223> Table A; HLA-C*08:01; KRAS; Q61R; 0

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<223> Table A; HLA-C*08:02; KRAS; Q61R; 0

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<220>
<223> Table A; HLA-A*01:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-A*02:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-A*02:07; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-A*03:02; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-A*29:01; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-A*29:02; NRAS; Q61R; 1

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<223> Table A; HLA-A*30:02; NRAS; Q61R; 1

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<223> Table A; HLA-B*15:01; NRAS; Q61R; 1

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<223> Table A; HLA-B*15:02; NRAS; Q61R; 0

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<223> Table A; HLA-B*15:03; NRAS; Q61R; 0

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<220>
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<220>
<223> Table A; HLA-B*18:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-B*35:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-B*35:08; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-B*39:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-B*46:01; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-B*57:01; NRAS; Q61R; 1

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<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-C*03:02; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-C*08:01; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-C*08:02; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-A*02:03; CREBBP; P2094L; 0

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<220>
<223> Table A; HLA-A*02:04; CREBBP; P2094L; 0

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1               5


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<220>
<223> Table A; HLA-B*15:01; CREBBP; P2094L; 1

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1               5


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<220>
<223> Table A; HLA-B*46:01; CREBBP; P2094L; 0

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1               5


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<220>
<223> Table A; HLA-A*02:03; CREBBP; P2094L; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*31:01; CTNNB1; K335I; 1

<400> 14572
Ile Leu Leu Trp Thr Thr Ser Arg
1               5


<210> 14573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; K335I; 1

<400> 14573
Ile Leu Leu Trp Thr Thr Ser Arg Val
1               5


<210> 14574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; K335I; 0

<400> 14574
Ile Leu Leu Trp Thr Thr Ser Arg Val
1               5


<210> 14575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; K335I; 0

<400> 14575

Ile Leu Leu Trp Thr Thr Ser Arg Val
1 5

<210> 14576
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; K335I; 0

<400> 14576
Ile Leu Leu Trp Thr Thr Ser Arg Val
1 5

<210> 14577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; K335I; 1

<400> 14577
Ile Leu Leu Trp Thr Thr Ser Arg Val
1 5

<210> 14578
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; K335I; 0

<400> 14578
Ile Leu Leu Trp Thr Thr Ser Arg Val Leu
1 5 10

<210> 14579
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; K335I; 0

<400> 14579
Ile Leu Leu Trp Thr Thr Ser Arg Val Leu
1 5 10

<210> 14580
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; K335I; 1

<400> 14580
Ile Leu Leu Trp Thr Thr Ser Arg Val Leu
1               5                   10


<210> 14581
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; K335I; 1

<400> 14581
Ile Leu Leu Trp Thr Thr Ser Arg Val Leu Lys
1               5                   10


<210> 14582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; G118D; 0

<400> 14582
Ile Leu Asn Arg Glu Ile Asp Phe Ala
1               5


<210> 14583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; NFE2L2; D29G; 1

<400> 14583
Ile Leu Trp Arg Gln Asp Ile Gly Leu
1               5

<210> 14584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; NFE2L2; D29G; 0

<400> 14584
Ile Leu Trp Arg Gln Asp Ile Gly Leu
1               5


<210> 14585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; NFE2L2; D29G; 0

<400> 14585
Ile Leu Trp Arg Gln Asp Ile Gly Leu
1               5


<210> 14586
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; NFE2L2; D29G; 0

<400> 14586
Ile Leu Trp Arg Gln Asp Ile Gly Leu Gly Val
1               5                   10


<210> 14587
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; NFE2L2; D29G; 0

<400> 14587
Ile Leu Trp Arg Gln Asp Ile Gly Leu Gly Val
1               5                   10


<210> 14588
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; NFE2L2; D29H; 1

<400> 14588
Ile Leu Trp Arg Gln Asp Ile His Leu
1               5


<210> 14589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; NFE2L2; D29H; 0

<400> 14589
Ile Leu Trp Arg Gln Asp Ile His Leu
1               5


<210> 14590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; NFE2L2; D29H; 0

<400> 14590
Ile Leu Trp Arg Gln Asp Ile His Leu
1               5


<210> 14591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; K335I; 0

<400> 14591
Ile Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 14592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; K335I; 0

<400> 14592
Ile Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 14593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; K335I; 0

<400> 14593
Ile Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 14594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; CTNNB1; K335I; 1

<400> 14594
Ile Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 14595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; K335I; 0

<400> 14595
Ile Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 14596
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*48:01; CTNND1; A781T; 0

<400> 14596
Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5


<210> 14597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; CTNND1; A781T; 0

<400> 14597
Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5


<210> 14598
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KEAP1; D422N; 1

<400> 14598
Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 14599
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; KEAP1; D422N; 0

<400> 14599
Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 14600
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KEAP1; D422N; 0

<400> 14600
Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 14601
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KEAP1; D422N; 0

<400> 14601
Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 14602
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KEAP1; D422N; 0

<400> 14602
Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 14603
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CHST11; A159T; 0

<400> 14603
Ile Pro Ala Asn Glu Ala His Val Ser Thr
1               5                   10


<210> 14604
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CHST11; A159T; 0

<400> 14604
Ile Pro Ala Asn Glu Ala His Val Ser Thr

1 5 10

<210> 14605
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; KRAS; A146T; 0

<400> 14605
Ile Pro Phe Ile Glu Thr Ser Thr
1 5

<210> 14606
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KRAS; A146T; 0

<400> 14606
Ile Pro Phe Ile Glu Thr Ser Thr
1 5

<210> 14607
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; KRAS; A146T; 0

<400> 14607
Ile Pro Phe Ile Glu Thr Ser Thr
1 5

<210> 14608
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; KRAS; A146T; 0

<400> 14608
Ile Pro Phe Ile Glu Thr Ser Thr
1 5

<210> 14609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; A146T; 0

<400> 14609
Ile Pro Phe Ile Glu Thr Ser Thr Lys
1               5


<210> 14610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; KRAS; A146T; 1

<400> 14610
Ile Pro Phe Ile Glu Thr Ser Thr Lys
1               5


<210> 14611
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KRAS; A146T; 0

<400> 14611
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr
1               5                   10


<210> 14612
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; KRAS; A146T; 0

<400> 14612
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr
1               5                   10


<210> 14613

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; KRAS; A146T; 0

<400> 14613
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr
1               5                   10


<210> 14614
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; A146T; 0

<400> 14614
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr Arg
1               5                   10


<210> 14615
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; A146T; 0

<400> 14615
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr Arg
1               5                   10


<210> 14616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RGS7; R44C; 1

<400> 14616
Ile Pro Ile Cys Thr Val Lys Ser Phe
1               5


<210> 14617
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; EGFR; R108K; 0

<400> 14617
Ile Pro Leu Glu Asn Leu Gln Ile Ile Lys
1               5                   10


<210> 14618
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; EGFR; R108K; 0

<400> 14618
Ile Pro Leu Glu Asn Leu Gln Ile Ile Lys Gly
1               5                   10


<210> 14619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; SFRP4; R232Q; 1

<400> 14619
Ile Pro Gln Thr Gln Val Pro Leu Ile
1               5


<210> 14620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SFRP4; R232Q; 0

<400> 14620
Ile Pro Gln Thr Gln Val Pro Leu Ile
1               5


<210> 14621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; SFRP4; R232Q; 0

<400> 14621
Ile Pro Gln Thr Gln Val Pro Leu Ile
1               5


<210> 14622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; SFRP4; R232Q; 0

<400> 14622
Ile Pro Gln Thr Gln Val Pro Leu Ile
1               5


<210> 14623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; SFRP4; R232Q; 0

<400> 14623
Ile Pro Gln Thr Gln Val Pro Leu Ile
1               5


<210> 14624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CCND1; T286I; 1

<400> 14624
Ile Pro Thr Asp Val Arg Asp Val
1               5


<210> 14625
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CCND1; T286I; 1

<400> 14625
Ile Pro Thr Asp Val Arg Asp Val
1               5


<210> 14626
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CCND1; T286I; 0

<400> 14626
Ile Pro Thr Asp Val Arg Asp Val
1               5


<210> 14627
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; CCND1; T286I; 0

<400> 14627
Ile Pro Thr Asp Val Arg Asp Val
1               5


<210> 14628
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CCND1; T286I; 0

<400> 14628
Ile Pro Thr Asp Val Arg Asp Val
1               5


<210> 14629
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CCND1; T286I; 0

<400> 14629

Ile Pro Thr Asp Val Arg Asp Val
1               5


<210> 14630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CCND1; T286I; 0

<400> 14630
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CCND1; T286I; 0

<400> 14631
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14632
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CCND1; T286I; 0

<400> 14632
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14633
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CCND1; T286I; 1

<400> 14633
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10

<210> 14634
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CCND1; T286I; 1

<400> 14634
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; CCND1; T286I; 0

<400> 14635
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14636
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CCND1; T286I; 0

<400> 14636
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14637
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CCND1; T286I; 0

<400> 14637
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10

<210> 14638
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CCND1; T286I; 0

<400> 14638
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CCND1; T286I; 0

<400> 14639
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14640
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CCND1; T286I; 0

<400> 14640
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14641
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CCND1; T286I; 1

<400> 14641
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14642
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CCND1; T286I; 0

<400> 14642
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14643
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CCND1; T286I; 0

<400> 14643
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14644
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CCND1; T286I; 0

<400> 14644
Ile Pro Thr Asp Val Arg Asp Val Asp Ile
1               5                   10


<210> 14645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CHD4; R1162W; 0

<400> 14645
Ile Gln Ala Phe Ser Arg Ala His Trp
1               5


<210> 14646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; SMARCA4; G1232S; 1

<400> 14646
Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5


<210> 14647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SMARCA4; G1232S; 0

<400> 14647
Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5


<210> 14648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SMARCA4; G1232S; 0

<400> 14648
Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5


<210> 14649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; SMARCA4; G1232S; 0

<400> 14649
Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5


<210> 14650
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*68:01; SMARCA4; G1232S; 0

<400> 14650
Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5


<210> 14651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SMARCA4; G1232S; 0

<400> 14651
Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5


<210> 14652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SMARCA4; G1232S; 0

<400> 14652
Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5


<210> 14653
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SMARCA4; G1232S; 0

<400> 14653
Ile Gln Ala Ser Met Phe Asp Gln Lys Ser
1               5                   10


<210> 14654
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; FAM135B; S11L; 0

<400> 14654
Ile Gln Gly Thr Val Glu Phe Leu
1               5


<210> 14655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; FAM135B; S11L; 0

<400> 14655
Ile Gln Gly Thr Val Glu Phe Leu Val
1               5


<210> 14656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; XPO1; R749Q; 0

<400> 14656
Ile Arg Ser Met Gln Thr Val Lys Arg
1               5


<210> 14657
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; SF3B1; R957Q; 1

<400> 14657
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14658
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SF3B1; R957Q; 1

<400> 14658
Ile Ser Gln Thr Ala Val Val Met

1 5

<210> 14659
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SF3B1; R957Q; 0

<400> 14659
Ile Ser Gln Thr Ala Val Val Met
1 5

<210> 14660
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SF3B1; R957Q; 1

<400> 14660
Ile Ser Gln Thr Ala Val Val Met
1 5

<210> 14661
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SF3B1; R957Q; 0

<400> 14661
Ile Ser Gln Thr Ala Val Val Met
1 5

<210> 14662
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SF3B1; R957Q; 0

<400> 14662
Ile Ser Gln Thr Ala Val Val Met
1 5

<210> 14663
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; SF3B1; R957Q; 0

<400> 14663
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14664
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SF3B1; R957Q; 0

<400> 14664
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14665
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; SF3B1; R957Q; 1

<400> 14665
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14666
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; SF3B1; R957Q; 0

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Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14667

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SF3B1; R957Q; 0

<400> 14667
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14668
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; SF3B1; R957Q; 1

<400> 14668
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14669
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; SF3B1; R957Q; 0

<400> 14669
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14670
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; SF3B1; R957Q; 0

<400> 14670
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14671
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; SF3B1; R957Q; 1

<400> 14671
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 14672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; SF3B1; R957Q; 1

<400> 14672
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SF3B1; R957Q; 0

<400> 14673
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14674
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; SF3B1; R957Q; 1

<400> 14674
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; SF3B1; R957Q; 0

<400> 14675
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14676
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; SF3B1; R957Q; 0

<400> 14676
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

<400> 14677
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SF3B1; R957Q; 0

<400> 14678
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; SF3B1; R957Q; 1

<400> 14679
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 14680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PIK3CA; E542V; 0

<400> 14680
Ile Ser Thr Arg Asp Pro Leu Ser Val
1               5


<210> 14681
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; PIK3CA; E542V; 0

<400> 14681
Ile Ser Thr Arg Asp Pro Leu Ser Val
1               5


<210> 14682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; PIK3CA; E542V; 0

<400> 14682
Ile Ser Thr Arg Asp Pro Leu Ser Val
1               5


<210> 14683
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; EP300; D1399N; 1

<400> 14683

Ile Ser Tyr Leu Asn Ser Val His Phe
1               5


<210> 14684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; EP300; D1399N; 1

<400> 14684
Ile Ser Tyr Leu Asn Ser Val His Phe
1               5


<210> 14685
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; EP300; D1399N; 0

<400> 14685
Ile Ser Tyr Leu Asn Ser Val His Phe
1               5


<210> 14686
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; EP300; D1399N; 1

<400> 14686
Ile Ser Tyr Leu Asn Ser Val His Phe Phe
1               5                   10


<210> 14687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; P29L; 0

<400> 14687
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5

<210> 14688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; RAC1; P29L; 0

<400> 14688
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; RAC1; P29L; 0

<400> 14689
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 14690
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14691
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; RAC1; P29L; 0

<400> 14691
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5

<210> 14692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; RAC1; P29L; 0

<400> 14692
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; RAC1; P29L; 0

<400> 14693
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; RAC1; P29L; 0

<400> 14694
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; RAC1; P29L; 1

<400> 14695
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14696
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; RAC1; P29L; 1

<400> 14696
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; RAC1; P29L; 0

<400> 14697
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; RAC1; P29L; 0

<400> 14698
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; RAC1; P29L; 0

<400> 14699
Ile Ser Tyr Thr Thr Asn Ala Phe Leu
1               5


<210> 14700
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 14700
Ile Ser Tyr Thr Thr Asn Ala Phe Leu Gly
1               5                   10


<210> 14701
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29S; 0

<400> 14701
Ile Ser Tyr Thr Thr Asn Ala Phe Ser Gly
1               5                   10


<210> 14702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; T41I; 1

<400> 14702
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; T41I; 0

<400> 14703
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14704
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:08; CTNNB1; T41I; 0

<400> 14704
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41I; 1

<400> 14705
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41I; 0

<400> 14706
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 14707
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; T41I; 0

<400> 14708
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; T41I; 0

<400> 14709
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41I; 0

<400> 14710
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; T41I; 0

<400> 14711
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41I; 0

<400> 14712
Ile Thr Ala Pro Ser Leu Ser Gly Lys

1 5

<210> 14713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 14713
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1 5

<210> 14714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 14714
Ile Thr Ala Pro Ser Leu Ser Gly Lys
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<210> 14715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; T41I; 1

<400> 14715
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1 5

<210> 14716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; T41I; 0

<400> 14716
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1 5

<210> 14717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; T41I; 1

<400> 14717
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14718
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41I; 0

<400> 14718
Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 14719
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41I; 0

<400> 14719
Ile Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 14720
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41I; 1

<400> 14720
Ile Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 14721

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 14721
Ile Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 14722
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; T41I; 0

<400> 14722
Ile Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 14723
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; T41I; 1

<400> 14723
Ile Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 14724
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 14724
Ile Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 14725
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 14725
Ile Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 14726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PIK3CA; E545A; 0

<400> 14726
Ile Thr Ala Gln Glu Lys Asp Phe Leu
1               5


<210> 14727
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E545A; 0

<400> 14727
Ile Thr Ala Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14728
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; EGFR; L861Q; 0

<400> 14728
Ile Thr Asp Phe Gly Leu Ala Lys Gln Leu
1               5                   10


<210> 14729
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; EGFR; L858R; 1

<400> 14729
Ile Thr Asp Phe Gly Arg Ala Lys
1               5


<210> 14730
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; EGFR; L858R; 1

<400> 14730
Ile Thr Asp Phe Gly Arg Ala Lys
1               5


<210> 14731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; EGFR; L858R; 1

<400> 14731
Ile Thr Asp Phe Gly Arg Ala Lys Leu
1               5


<210> 14732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; EGFR; L858R; 1

<400> 14732
Ile Thr Asp Phe Gly Arg Ala Lys Leu
1               5


<210> 14733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; EGFR; L858R; 1

<400> 14733
Ile Thr Asp Phe Gly Arg Ala Lys Leu
1               5


<210> 14734
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; PIK3CA; E545D; 1

<400> 14734
Ile Thr Asp Gln Glu Lys Asp Phe
1               5


<210> 14735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; PIK3CA; E545D; 1

<400> 14735
Ile Thr Asp Gln Glu Lys Asp Phe Leu
1               5


<210> 14736
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:02; PIK3CA; E545D; 0

<400> 14736
Ile Thr Asp Gln Glu Lys Asp Phe Leu
1               5


<210> 14737
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E545D; 0

<400> 14737

Ile Thr Asp Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14738
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; ARHGAP5; V474A; 1

<400> 14738
Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 14739
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; ARHGAP5; V474A; 1

<400> 14739
Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 14740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; ARHGAP5; V474A; 0

<400> 14740
Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 14741
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; ARHGAP5; V474A; 0

<400> 14741
Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10

<210> 14742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; ARHGAP5; V474A; 0

<400> 14742
Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 14743
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; Q546K; 0

<400> 14743
Ile Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14744
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNND1; A781T; 0

<400> 14744
Ile Thr Glu Asn Leu Glu Ala Ala Lys
1               5


<210> 14745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNND1; A781T; 0

<400> 14745
Ile Thr Glu Asn Leu Glu Ala Ala Lys
1               5

<210> 14746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNND1; A781T; 0

<400> 14746
Ile Thr Glu Asn Leu Glu Ala Ala Lys
1               5


<210> 14747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNND1; A781T; 0

<400> 14747
Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 14748
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNND1; A781T; 0

<400> 14748
Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 14749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 14749
Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 14750
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 14750
Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 14751
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNND1; A781T; 0

<400> 14751
Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 14752
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; Q546P; 1

<400> 14752
Ile Thr Glu Pro Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14753
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; Q546R; 1

<400> 14753
Ile Thr Glu Arg Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14754
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E545G; 0

<400> 14754
Ile Thr Gly Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14755
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E545K; 1

<400> 14755
Ile Thr Lys Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; TP53; G262V; 0

<400> 14756
Ile Thr Leu Glu Asp Ser Ser Val
1               5


<210> 14757
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; G262V; 0

<400> 14757
Ile Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5                   10


<210> 14758
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:05; TP53; G262V; 0

<400> 14758
Ile Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5                   10


<210> 14759
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; TP53; G262V; 0

<400> 14759
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1               5                   10


<210> 14760
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; G262V; 0

<400> 14760
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1               5                   10


<210> 14761
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<220>
<223> Table A; HLA-A*02:05; TP53; G262V; 0

<400> 14761
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1               5                   10


<210> 14762
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<220>
<223> Table A; HLA-A*02:06; TP53; G262V; 0

<400> 14762
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1               5                   10


<210> 14763
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<220>
<223> Table A; HLA-A*02:08; TP53; G262V; 0

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1               5                   10


<210> 14764
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<220>
<223> Table A; HLA-A*68:02; TP53; G262V; 0

<400> 14764
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1               5                   10


<210> 14765
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<220>
<223> Table A; HLA-B*38:01; TP53; G262V; 0

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1               5                   10


<210> 14766
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; STAG1; A116T; 0

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Ile Thr Leu Leu Asp Leu Ile Asn Phe

1 5

<210> 14767
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; STAG1; A116T; 0

<400> 14767
Ile Thr Leu Leu Asp Leu Ile Asn Phe
1 5

<210> 14768
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<220>
<223> Table A; HLA-B*57:01; STAG1; A116T; 0

<400> 14768
Ile Thr Leu Leu Asp Leu Ile Asn Phe Phe
1 5 10

<210> 14769
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; SIRPA; V233I; 0

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Ile Thr Leu Gln Gly Asp Pro Leu Arg
1 5

<210> 14770
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CHD4; R975H; 0

<400> 14770
Ile Val His Val Glu Leu Ser Pro Met
1 5

<210> 14771
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; CHD4; R975H; 0

<400> 14771
Ile Val His Val Glu Leu Ser Pro Met
1               5


<210> 14772
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; CHD4; R975H; 1

<400> 14772
Ile Val His Val Glu Leu Ser Pro Met
1               5


<210> 14773
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; CHD4; R975H; 0

<400> 14773
Ile Val His Val Glu Leu Ser Pro Met
1               5


<210> 14774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CHD4; R975H; 0

<400> 14774
Ile Val His Val Glu Leu Ser Pro Met
1               5


<210> 14775

<211> 9
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<220>
<223> Table A; HLA-C*02:02; CHD4; R975H; 1

<400> 14775
Ile Val His Val Glu Leu Ser Pro Met
1               5


<210> 14776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CHD4; R975H; 0

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1               5


<210> 14777
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CHD4; R975H; 1

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1               5                   10


<210> 14778
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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CHD4; R975H; 0

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<210> 14779
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CHD4; R975H; 1

<400> 14779
Ile Val His Val Glu Leu Ser Pro Met Gln Lys
1               5                   10


<210> 14780
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CHD4; R975H; 0

<400> 14780
Ile Val His Val Glu Leu Ser Pro Met Gln Lys
1               5                   10


<210> 14781
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CHD4; R975H; 0

<400> 14781
Ile Val His Val Glu Leu Ser Pro Met Gln Lys
1               5                   10


<210> 14782
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; BCOR; N1425S; 0

<400> 14782
Ile Val Ser Lys Asn Ala Gly Glu Thr Leu
1               5                   10


<210> 14783
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<220>
<223> Table A; HLA-A*02:08; BCOR; N1425S; 0

<400> 14783
Ile Val Ser Lys Asn Ala Gly Glu Thr Leu
1               5                   10


<210> 14784
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<220>
<223> Table A; HLA-B*13:01; BCOR; N1425S; 0

<400> 14784
Ile Val Ser Lys Asn Ala Gly Glu Thr Leu
1               5                   10


<210> 14785
<211> 10
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; BCOR; N1425S; 1

<400> 14785
Ile Val Ser Lys Asn Ala Gly Glu Thr Leu
1               5                   10


<210> 14786
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<220>
<223> Table A; HLA-B*38:01; BCOR; N1425S; 1

<400> 14786
Ile Val Ser Lys Asn Ala Gly Glu Thr Leu
1               5                   10


<210> 14787
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<220>
<223> Table A; HLA-B*39:01; BCOR; N1425S; 0

<400> 14787
Ile Val Ser Lys Asn Ala Gly Glu Thr Leu
1               5                   10


<210> 14788
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; BCOR; N1425S; 0

<400> 14788
Ile Val Ser Lys Asn Ala Gly Glu Thr Leu Leu
1               5                   10


<210> 14789
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; BMP5; R208Q; 0

<400> 14789
Ile Tyr Lys Asp Arg Ser Asn Asn Gln Phe
1               5                   10


<210> 14790
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<220>
<223> Table A; HLA-A*24:02; BMP5; R208Q; 1

<400> 14790
Ile Tyr Lys Asp Arg Ser Asn Asn Gln Phe
1               5                   10


<210> 14791
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*14:02; BMP5; R208Q; 0

<400> 14791

Ile Tyr Lys Asp Arg Ser Asn Asn Gln Phe
1               5                   10


<210> 14792
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*14:03; BMP5; R208Q; 0

<400> 14792
Ile Tyr Lys Asp Arg Ser Asn Asn Gln Phe
1               5                   10


<210> 14793
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*01:02; PREX2; H1404Y; 0

<400> 14793
Ile Tyr Pro Val Leu Phe Ala Gln Ala Leu
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<210> 14794
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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; PREX2; H1404Y; 0

<400> 14794
Ile Tyr Pro Val Leu Phe Ala Gln Ala Leu
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<210> 14795
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<220>
<223> Table A; HLA-A*24:02; FGFR2; C382R; 1

<400> 14795
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1               5

<210> 14796
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CREB3L1; V414I; 0

<400> 14796
Ile Tyr Thr Ala Ser Gln Met Pro Ser Arg
1               5                   10


<210> 14797
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; CREB3L1; V414I; 0

<400> 14797
Ile Tyr Thr Ala Ser Gln Met Pro Ser Arg
1               5                   10


<210> 14798
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; PTEN; R130L; 0

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<220>
<223> Table A; HLA-A*02:06; PTEN; R130L; 0

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1               5

<210> 14800
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<220>
<223> Table A; HLA-A*02:08; PTEN; R130L; 0

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Lys Ala Gly Lys Gly Leu Thr Gly Val
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<210> 14801
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; PTEN; R130Q; 0

<400> 14801
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<210> 14802
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; PIK3CA; E542K; 1

<400> 14802
Lys Ala Ile Ser Thr Arg Asp Pro Leu Ser Lys
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<210> 14803
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; E542K; 0

<400> 14803
Lys Ala Ile Ser Thr Arg Asp Pro Leu Ser Lys
1               5                   10


<210> 14804
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; SPOP; R121Q; 0

<400> 14804
Lys Ala Met Glu Ser Gln Gln Ala Tyr
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<210> 14805
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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; SPOP; R121Q; 0

<400> 14805
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<210> 14806
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; SPOP; R121Q; 0

<400> 14806
Lys Ala Met Glu Ser Gln Gln Ala Tyr
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<210> 14807
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*32:01; SPOP; R121Q; 0

<400> 14807
Lys Ala Met Glu Ser Gln Gln Ala Tyr
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<210> 14808
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SPOP; R121Q; 1

<400> 14808
Lys Ala Met Glu Ser Gln Gln Ala Tyr
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<210> 14809
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; SPOP; R121Q; 0

<400> 14809
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<210> 14810
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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; SPOP; R121Q; 0

<400> 14810
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<210> 14811
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:13; SPOP; R121Q; 0

<400> 14811
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<210> 14812
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*35:01; SPOP; R121Q; 1

<400> 14812
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5


<210> 14813
<211> 9
<212> PRT
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<223> Table A; HLA-B*35:08; SPOP; R121Q; 0

<400> 14813
Lys Ala Met Glu Ser Gln Gln Ala Tyr
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<210> 14814
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*46:01; SPOP; R121Q; 0

<400> 14814
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<210> 14815
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; SPOP; R121Q; 0

<400> 14815
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5


<210> 14816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SPOP; R121Q; 0

<400> 14816
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5


<210> 14817
<211> 9
<212> PRT
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<223> Table A; HLA-C*02:02; SPOP; R121Q; 0

<400> 14817
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5


<210> 14818
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*03:02; SPOP; R121Q; 0

<400> 14818
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5


<210> 14819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; SPOP; R121Q; 0

<400> 14819
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5


<210> 14820
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*16:01; SPOP; R121Q; 0

<400> 14820
Lys Ala Met Glu Ser Gln Gln Ala Tyr

1 5

<210> 14821
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*16:02; SPOP; R121Q; 0

<400> 14821
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1 5

<210> 14822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; SPOP; R121Q; 0

<400> 14822
Lys Ala Met Glu Ser Gln Gln Ala Tyr
1 5

<210> 14823
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SPOP; R121Q; 1

<400> 14823
Lys Ala Met Glu Ser Gln Gln Ala Tyr Arg
1 5 10

<210> 14824
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; SPOP; R121Q; 0

<400> 14824
Lys Ala Met Glu Ser Gln Gln Ala Tyr Arg
1 5 10

<210> 14825
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SPOP; R121Q; 0

<400> 14825
Lys Ala Met Glu Ser Gln Gln Ala Tyr Arg
1               5                   10


<210> 14826
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SPOP; R121Q; 0

<400> 14826
Lys Ala Met Glu Ser Gln Gln Ala Tyr Arg
1               5                   10


<210> 14827
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; SPOP; R121Q; 0

<400> 14827
Lys Ala Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5                   10


<210> 14828
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MAX; R60Q; 1

<400> 14828
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5                   10


<210> 14829

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MAX; R60Q; 0

<400> 14829
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5                   10


<210> 14830
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; MAX; R60Q; 1

<400> 14830
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5                   10


<210> 14831
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; MAX; R60Q; 0

<400> 14831
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5                   10


<210> 14832
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; MAX; R60Q; 0

<400> 14832
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5                   10


<210> 14833
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; MAX; R60Q; 0

<400> 14833
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5                   10


<210> 14834
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; E39K; 0

<400> 14834
Lys Ala Thr Leu Val Thr Ile Lys
1               5


<210> 14835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; E39K; 1

<400> 14835
Lys Ala Thr Leu Val Thr Ile Lys His
1               5


<210> 14836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; E39K; 0

<400> 14836
Lys Ala Thr Leu Val Thr Ile Lys His
1               5


<210> 14837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; E39K; 1

<400> 14837
Lys Ala Thr Leu Val Thr Ile Lys His
1               5


<210> 14838
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PIK3CA; E39K; 1

<400> 14838
Lys Ala Thr Leu Val Thr Ile Lys His
1               5


<210> 14839
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; PIK3CA; E39K; 0

<400> 14839
Lys Ala Thr Leu Val Thr Ile Lys His
1               5


<210> 14840
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:02; SPOP; M117V; 0

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1               5


<210> 14841
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; SPOP; M117V; 0

<400> 14841
Lys Ala Val Glu Ser Gln Arg Ala Tyr
1               5


<210> 14842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; SPOP; M117V; 0

<400> 14842
Lys Ala Val Glu Ser Gln Arg Ala Tyr
1               5


<210> 14843
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SPOP; M117V; 1

<400> 14843
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1               5


<210> 14844
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SPOP; M117V; 0

<400> 14844
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<210> 14845
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; SPOP; M117V; 0

<400> 14845

Lys Ala Val Glu Ser Gln Arg Ala Tyr
1 5

<210> 14846
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*46:01; SPOP; M117V; 0

<400> 14846
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1 5

<210> 14847
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; SPOP; M117V; 0

<400> 14847
Lys Ala Val Glu Ser Gln Arg Ala Tyr
1 5

<210> 14848
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; SPOP; M117V; 0

<400> 14848
Lys Ala Val Glu Ser Gln Arg Ala Tyr
1 5

<210> 14849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; SPOP; M117V; 0

<400> 14849
Lys Ala Val Glu Ser Gln Arg Ala Tyr
1 5

<210> 14850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; SPOP; M117V; 0

<400> 14850
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1               5


<210> 14851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; SPOP; M117V; 0

<400> 14851
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1               5


<210> 14852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; SPOP; M117V; 0

<400> 14852
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1               5


<210> 14853
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-C*16:04; SPOP; M117V; 0

<400> 14853
Lys Ala Val Glu Ser Gln Arg Ala Tyr
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<210> 14854
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<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-A*03:01; ESR1; E247K; 1

<400> 14854
Lys Cys Tyr Lys Val Gly Met Met Lys
1               5


<210> 14855
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<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*37:01; PIK3CA; E726K; 0

<400> 14855
Lys Asp Lys Thr Gln Lys Val Gln Met
1               5


<210> 14856
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; E726K; 0

<400> 14856
Lys Asp Lys Thr Gln Lys Val Gln Met
1               5


<210> 14857
<211> 9
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<223> Table A; HLA-A*02:01; PIK3CA; E453K; 1

<400> 14857
Lys Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 14858
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; PIK3CA; E453K; 0

<400> 14858
Lys Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 14859
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<212> PRT
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<223> Table A; HLA-B*37:01; PIK3CA; E453K; 0

<400> 14859
Lys Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 14860
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; E453K; 0

<400> 14860
Lys Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 14861
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; PIK3CA; E453K; 0

<400> 14861
Lys Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 14862
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; PIK3CA; E453K; 0

<400> 14862
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1               5


<210> 14863
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; E453K; 0

<400> 14863
Lys Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 14864
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<220>
<223> Table A; HLA-B*40:01; CREB3L1; V414I; 0

<400> 14864
Lys Glu Asp Pro Leu Ala Ala Asp Gly Ile
1               5                   10


<210> 14865
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CREB3L1; V414I; 0

<400> 14865
Lys Glu Asp Pro Leu Ala Ala Asp Gly Ile
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<210> 14866
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<223> Table A; HLA-B*44:05; CREB3L1; V414I; 0

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Lys Glu Asp Pro Leu Ala Ala Asp Gly Ile
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<210> 14867
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<220>
<223> Table A; HLA-B*49:01; CREB3L1; V414I; 0

<400> 14867
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1               5                   10


<210> 14868
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<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; C420R; 1

<400> 14868
Lys Glu Glu His Arg Pro Leu Ala Trp
1               5


<210> 14869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; C420R; 1

<400> 14869
Lys Glu Glu His Arg Pro Leu Ala Trp
1               5


<210> 14870
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; FGFR2; Y375C; 0

<400> 14870
Lys Glu Ile Thr Ala Ser Pro Asp Cys
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<210> 14871
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; FGFR2; Y375C; 1

<400> 14871
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1               5                   10


<210> 14872
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; FGFR2; Y375C; 0

<400> 14872
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1               5                   10


<210> 14873
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; FGFR2; Y375C; 0

<400> 14873
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<210> 14874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; PIK3CA; E81K; 0

<400> 14874
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1 5

<210> 14875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; PIK3CA; E81K; 0

<400> 14875
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<210> 14876
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; PREX2; E553K; 0

<400> 14876
Lys Phe Lys Asp Glu Pro Leu Leu Phe
1 5

<210> 14877
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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; PREX2; E553K; 0

<400> 14877
Lys Phe Lys Asp Glu Pro Leu Leu Phe
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<212> PRT
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<220>
<223> Table A; HLA-A*24:02; PREX2; E553K; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; PREX2; E553K; 0

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<210> 14880
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; PREX2; E553K; 0

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<210> 14881
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; PREX2; E553K; 0

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<210> 14882
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PREX2; E553K; 0

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1               5


<210> 14883

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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; PREX2; E553K; 0

<400> 14883
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<210> 14884
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<220>
<223> Table A; HLA-A*31:01; PREX2; E553K; 0

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<210> 14885
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<220>
<223> Table A; HLA-A*23:01; PREX2; E553K; 0

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<210> 14886
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<220>
<223> Table A; HLA-C*14:02; TP63; E609K; 0

<400> 14886
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<210> 14887
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP63; E609K; 0

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<210> 14888
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<223> Table A; HLA-A*24:02; TP63; E609K; 1

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<210> 14889
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP63; E609K; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; TP63; E609K; 0

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1               5


<210> 14891
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; TP63; E609K; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; TP63; E609K; 0

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1               5


<210> 14893
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP63; E609K; 1

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1               5                   10


<210> 14894
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP63; E609K; 0

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1               5                   10


<210> 14895
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; PTEN; R130G; 1

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<210> 14896
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<220>
<223> Table A; HLA-A*31:01; PTEN; S170N; 0

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<210> 14897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PTEN; S170N; 0

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<210> 14898
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PTEN; S170N; 0

<400> 14898
Lys Gly Val Thr Ile Pro Asn Gln Arg
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<210> 14899
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; HIST1H3B; E74K; 0

<400> 14899

Lys Ile Ala Gln Asp Phe Lys Thr Asp Leu
1 5 10

<210> 14900
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; HIST1H3B; E74K; 0

<400> 14900
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<210> 14901
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; HIST1H3B; E74K; 0

<400> 14901
Lys Ile Ala Gln Asp Phe Lys Thr Asp Leu
1 5 10

<210> 14902
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; HIST1H3B; E74K; 1

<400> 14902
Lys Ile Ala Gln Asp Phe Lys Thr Asp Leu
1 5 10

<210> 14903
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; HIST1H3B; E74K; 0

<400> 14903
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1 5 10

<210> 14904
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; HIST1H3B; E74K; 0

<400> 14904
Lys Ile Ala Gln Asp Phe Lys Thr Asp Leu
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; BRAF; V600E; 1

<400> 14905
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
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<210> 14906
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; BRAF; V600E; 1

<400> 14906
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1               5                   10


<210> 14907
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; BRAF; V600E; 1

<400> 14907
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1               5                   10

<210> 14908
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; BRAF; V600E; 1

<400> 14908
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1               5                   10


<210> 14909
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; BRAF; V600E; 1

<400> 14909
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1               5                   10


<210> 14910
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CHD4; R1338I; 1

<400> 14910
Lys Ile Ile Arg Lys Gln Val Asn Tyr
1               5


<210> 14911
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CHD4; R1338I; 1

<400> 14911
Lys Ile Ile Arg Lys Gln Val Asn Tyr
1               5


<210> 14912
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; CHD4; R1338I; 0

<400> 14912
Lys Ile Ile Arg Lys Gln Val Asn Tyr
1               5


<210> 14913
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; EGFR; L858R; 1

<400> 14913
Lys Ile Thr Asp Phe Gly Arg Ala Lys
1               5


<210> 14914
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; EGFR; L858R; 0

<400> 14914
Lys Ile Thr Asp Phe Gly Arg Ala Lys
1               5


<210> 14915
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; EGFR; L858R; 1

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<210> 14916
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E542K; 1

<400> 14916
Lys Ile Thr Glu Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 14917
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; PREX2; H1404Y; 0

<400> 14917
Lys Ile Tyr Pro Val Leu Phe Ala Gln Ala
1               5                   10


<210> 14918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PREX2; H1404Y; 0

<400> 14918
Lys Ile Tyr Pro Val Leu Phe Ala Gln Ala
1               5                   10


<210> 14919
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; PREX2; H1404Y; 0

<400> 14919
Lys Ile Tyr Pro Val Leu Phe Ala Gln Ala
1               5                   10


<210> 14920
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:04; PREX2; H1404Y; 0

<400> 14920
Lys Ile Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5                   10


<210> 14921
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PREX2; H1404Y; 0

<400> 14921
Lys Ile Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5                   10


<210> 14922
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PREX2; H1404Y; 0

<400> 14922
Lys Ile Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5                   10


<210> 14923
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; AXIN1; R146Q; 1

<400> 14923
Lys Leu Ala Arg Ala Ile Tyr Gln Lys
1               5


<210> 14924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; STAG2; R370Q; 0

<400> 14924
Lys Leu Glu Leu Phe Thr Ser Gln Phe
1               5


<210> 14925
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; STAG2; R370Q; 0

<400> 14925
Lys Leu Glu Leu Phe Thr Ser Gln Phe
1               5


<210> 14926
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; STAG2; R370Q; 0

<400> 14926
Lys Leu Glu Leu Phe Thr Ser Gln Phe
1               5


<210> 14927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; STAG2; R370Q; 0

<400> 14927
Lys Leu Glu Leu Phe Thr Ser Gln Phe
1               5


<210> 14928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; XPO1; E571K; 0

<400> 14928
Lys Leu Phe Lys Phe Met His Glu Thr

1 5

<210> 14929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PRDM16; E237K; 0

<400> 14929
Lys Leu Phe Gln Ser Lys Leu Asp Leu
1 5

<210> 14930
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; HIST1H3B; E74K; 1

<400> 14930
Lys Leu Pro Phe Gln Arg Leu Val Arg Lys
1 5 10

<210> 14931
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SMARCA4; E920K; 0

<400> 14931
Lys Leu Pro Lys Leu Trp Ala Leu
1 5

<210> 14932
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SMARCA4; E920K; 0

<400> 14932
Lys Leu Pro Lys Leu Trp Ala Leu
1 5

<210> 14933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SMARCA4; E920K; 0

<400> 14933
Lys Leu Pro Lys Leu Trp Ala Leu Leu
1               5


<210> 14934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SMARCA4; E920K; 0

<400> 14934
Lys Leu Pro Lys Leu Trp Ala Leu Leu
1               5


<210> 14935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CNTNAP2; E149K; 0

<400> 14935
Lys Leu Gln His Pro Ile Ile Ala Arg
1               5


<210> 14936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNTNAP2; E149K; 1

<400> 14936
Lys Leu Gln His Pro Ile Ile Ala Arg
1               5


<210> 14937

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CNTNAP2; E149K; 0

<400> 14937
Lys Leu Gln His Pro Ile Ile Ala Arg
1               5


<210> 14938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CNTNAP2; E149K; 1

<400> 14938
Lys Leu Gln His Pro Ile Ile Ala Arg
1               5


<210> 14939
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CNTNAP2; E149K; 0

<400> 14939
Lys Leu Gln His Pro Ile Ile Ala Arg
1               5


<210> 14940
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CNTNAP2; E149K; 0

<400> 14940
Lys Leu Gln His Pro Ile Ile Ala Arg
1               5


<210> 14941
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNTNAP2; E149K; 1

<400> 14941
Lys Leu Gln His Pro Ile Ile Ala Arg Tyr
1               5                   10


<210> 14942
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; N387K; 1

<400> 14942
Lys Leu Ser Asp Ala Ala Thr Lys
1               5


<210> 14943
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CTNNB1; N387K; 0

<400> 14943
Lys Leu Ser Asp Ala Ala Thr Lys
1               5


<210> 14944
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; N387K; 1

<400> 14944
Lys Leu Ser Asp Ala Ala Thr Lys
1               5


<210> 14945
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; N387K; 0

<400> 14945
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1               5


<210> 14946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; N387K; 1

<400> 14946
Lys Leu Ser Asp Ala Ala Thr Lys Gln
1               5


<210> 14947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TRRAP; S722F; 0

<400> 14947
Lys Leu Val Phe Gly Ser Val Phe Leu
1               5


<210> 14948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; TRRAP; S722F; 0

<400> 14948
Lys Leu Val Phe Gly Ser Val Phe Leu
1               5


<210> 14949
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TRRAP; S722F; 0

<400> 14949
Lys Leu Val Phe Gly Ser Val Phe Leu Phe
1               5                   10


<210> 14950
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; KRAS; G12A; 1

<400> 14950
Lys Leu Val Val Val Gly Ala Ala Gly Val
1               5                   10


<210> 14951
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<220>
<223> Table A; HLA-A*02:03; KRAS; G12A; 0

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1               5                   10


<210> 14952
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<220>
<223> Table A; HLA-A*02:04; KRAS; G12A; 0

<400> 14952
Lys Leu Val Val Val Gly Ala Ala Gly Val
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<210> 14953
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<220>
<223> Table A; HLA-A*02:08; KRAS; G12A; 0

<400> 14953

Lys Leu Val Val Val Gly Ala Ala Gly Val
1               5                   10


<210> 14954
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<220>
<223> Table A; HLA-A*02:01; KRAS; G12C; 1

<400> 14954
Lys Leu Val Val Val Gly Ala Cys Gly Val
1               5                   10


<210> 14955
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<220>
<223> Table A; HLA-A*02:01; NRAS; G12C; 1

<400> 14955
Lys Leu Val Val Val Gly Ala Cys Gly Val
1               5                   10


<210> 14956
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; KRAS; G12D; 1

<400> 14956
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 14957
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; KRAS; G12D; 0

<400> 14957
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10

<210> 14958
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; KRAS; G12D; 1

<400> 14958
Lys Leu Val Val Val Gly Ala Asp Gly Val
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<210> 14959
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<220>
<223> Table A; HLA-A*02:08; KRAS; G12D; 0

<400> 14959
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 14960
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<220>
<223> Table A; HLA-B*13:02; KRAS; G12D; 1

<400> 14960
Lys Leu Val Val Val Gly Ala Asp Gly Val
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<210> 14961
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; NRAS; G12D; 1

<400> 14961
Lys Leu Val Val Val Gly Ala Asp Gly Val
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<210> 14962
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; NRAS; G12D; 0

<400> 14962
Lys Leu Val Val Val Gly Ala Asp Gly Val
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<210> 14963
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; NRAS; G12D; 0

<400> 14963
Lys Leu Val Val Val Gly Ala Asp Gly Val
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<210> 14964
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NRAS; G12D; 0

<400> 14964
Lys Leu Val Val Val Gly Ala Asp Gly Val
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<210> 14965
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; NRAS; G12D; 0

<400> 14965
Lys Leu Val Val Val Gly Ala Asp Gly Val
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<210> 14966
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NRAS; G12D; 0

<400> 14966
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<210> 14967
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G13C; 0

<400> 14967
Lys Leu Val Val Val Gly Ala Gly Cys
1               5


<210> 14968
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G13D; 0

<400> 14968
Lys Leu Val Val Val Gly Ala Gly Asp Val Gly
1               5                   10


<210> 14969
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NRAS; G13R; 0

<400> 14969
Lys Leu Val Val Val Gly Ala Gly Arg
1               5


<210> 14970
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NRAS; G13R; 0

<400> 14970
Lys Leu Val Val Val Gly Ala Gly Arg
1               5


<210> 14971
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; KRAS; G12R; 0

<400> 14971
Lys Leu Val Val Val Gly Ala Arg Gly Val
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<210> 14972
<211> 10
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<220>
<223> Table A; HLA-A*02:04; KRAS; G12R; 0

<400> 14972
Lys Leu Val Val Val Gly Ala Arg Gly Val
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<210> 14973
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<220>
<223> Table A; HLA-A*02:01; KRAS; G12S; 1

<400> 14973
Lys Leu Val Val Val Gly Ala Ser Gly Val
1               5                   10


<210> 14974
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<220>

<223> Table A; HLA-A*02:03; KRAS; G12S; 0

<400> 14974
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<210> 14975
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<220>
<223> Table A; HLA-A*02:08; KRAS; G12S; 0

<400> 14975
Lys Leu Val Val Val Gly Ala Ser Gly Val
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<210> 14976
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KRAS; G12V; 0

<400> 14976
Lys Leu Val Val Val Gly Ala Val
1               5


<210> 14977
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; KRAS; G12V; 1

<400> 14977
Lys Leu Val Val Val Gly Ala Val
1               5


<210> 14978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KRAS; G12V; 1

<400> 14978
Lys Leu Val Val Val Gly Ala Val Gly Val
1               5                   10


<210> 14979
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; KRAS; G12V; 0

<400> 14979
Lys Leu Val Val Val Gly Ala Val Gly Val
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<210> 14980
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; KRAS; G12V; 0

<400> 14980
Lys Leu Val Val Val Gly Ala Val Gly Val
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<210> 14981
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; KRAS; G12V; 1

<400> 14981
Lys Leu Val Val Val Gly Ala Val Gly Val
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<210> 14982
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; KRAS; G12V; 0

<400> 14982
Lys Leu Val Val Val Gly Ala Val Gly Val

1 5 10

<210> 14983
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; KRAS; G12V; 0

<400> 14983
Lys Leu Val Val Val Gly Ala Val Gly Val
1 5 10

<210> 14984
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; KRAS; G12V; 1

<400> 14984
Lys Leu Val Val Val Gly Ala Val Gly Val
1 5 10

<210> 14985
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CNBD1; L396P; 1

<400> 14985
Lys Leu Val Tyr Met Gly Lys Pro Lys
1 5

<210> 14986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SMARCA4; E920K; 0

<400> 14986
Lys Leu Trp Ala Leu Leu Asn Phe Leu
1 5

<210> 14987
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; SMARCA4; E920K; 0

<400> 14987
Lys Leu Trp Ala Leu Leu Asn Phe Leu
1               5


<210> 14988
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<212> PRT
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<220>
<223> Table A; HLA-C*15:02; RGS7; R44C; 0

<400> 14988
Lys Asn Gly Ile Pro Ile Cys Thr Val
1               5


<210> 14989
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; MAPK1; E322K; 1

<400> 14989
Lys Pro Ile Ala Glu Ala Pro Phe Lys Phe
1               5                   10


<210> 14990
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; MAPK1; E322K; 1

<400> 14990
Lys Pro Ile Ala Glu Ala Pro Phe Lys Phe
1               5                   10


<210> 14991

<211> 9
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<220>
<223> Table A; HLA-B*54:01; BAZ1A; R1480C; 0

<400> 14991
Lys Pro Ile Ala Leu Asn Ile Ile Cys
1               5


<210> 14992
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; IDH1; R132C; 0

<400> 14992
Lys Pro Ile Ile Ile Gly Cys His Ala
1               5


<210> 14993
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; IDH1; R132C; 0

<400> 14993
Lys Pro Ile Ile Ile Gly Cys His Ala
1               5


<210> 14994
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; IDH1; R132G; 0

<400> 14994
Lys Pro Ile Ile Ile Gly Gly His Ala Tyr
1               5                   10


<210> 14995
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; IDH1; R132G; 1

<400> 14995
Lys Pro Ile Ile Ile Gly Gly His Ala Tyr
1               5                   10


<210> 14996
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:08; IDH1; R132G; 0

<400> 14996
Lys Pro Ile Ile Ile Gly Gly His Ala Tyr
1               5                   10


<210> 14997
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; IDH1; R132H; 0

<400> 14997
Lys Pro Ile Ile Ile Gly His His Ala
1               5


<210> 14998
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<212> PRT
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<220>
<223> Table A; HLA-B*55:02; IDH1; R132H; 0

<400> 14998
Lys Pro Ile Ile Ile Gly His His Ala
1               5


<210> 14999
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<212> PRT
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<220>
<223> Table A; HLA-B*56:01; IDH1; R132H; 0

<400> 14999
Lys Pro Ile Ile Ile Gly His His Ala
1               5


<210> 15000
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; IDH1; R132L; 0

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Lys Pro Ile Ile Ile Gly Leu His Ala
1               5


<210> 15001
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; IDH1; R132S; 0

<400> 15001
Lys Pro Ile Ile Ile Gly Ser His Ala
1               5


<210> 15002
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<212> PRT
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<220>
<223> Table A; HLA-B*55:01; IDH1; R132S; 0

<400> 15002
Lys Pro Ile Ile Ile Gly Ser His Ala
1               5


<210> 15003
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<212> PRT
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<220>
<223> Table A; HLA-B*55:02; IDH1; R132S; 0

<400> 15003
Lys Pro Ile Ile Ile Gly Ser His Ala
1               5


<210> 15004
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; IDH1; R132S; 0

<400> 15004
Lys Pro Ile Ile Ile Gly Ser His Ala
1               5


<210> 15005
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; IDH1; R132S; 0

<400> 15005
Lys Pro Ile Ile Ile Gly Ser His Ala Tyr
1               5                   10


<210> 15006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; IDH2; R172K; 0

<400> 15006
Lys Pro Ile Thr Ile Gly Lys His Ala
1               5


<210> 15007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; IDH2; R172K; 0

<400> 15007

Lys Pro Ile Thr Ile Gly Lys His Ala
1 5

<210> 15008
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*55:02; IDH2; R172K; 0

<400> 15008
Lys Pro Ile Thr Ile Gly Lys His Ala
1 5

<210> 15009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; IDH2; R172K; 0

<400> 15009
Lys Pro Ile Thr Ile Gly Lys His Ala
1 5

<210> 15010
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CNBD1; L396P; 1

<400> 15010
Lys Pro Lys Glu Lys Glu Ser Phe
1 5

<210> 15011
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CNBD1; L396P; 1

<400> 15011
Lys Pro Lys Glu Lys Glu Ser Phe
1 5

<210> 15012
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; SALL4; A368T; 1

<400> 15012
Lys Pro Pro Asn Ile Ser Thr Val
1               5


<210> 15013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; FKBP9; R161Q; 1

<400> 15013
Lys Pro Pro Ser Cys Pro Gln Thr Ile
1               5


<210> 15014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; FKBP9; R161Q; 1

<400> 15014
Lys Pro Pro Ser Cys Pro Gln Thr Ile
1               5


<210> 15015
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*13:01; STAG1; A116T; 0

<400> 15015
Lys Gln Asp Arg Asp Ile Thr Leu
1               5

<210> 15016
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; STAG1; A116T; 0

<400> 15016
Lys Gln Asp Arg Asp Ile Thr Leu
1               5


<210> 15017
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; STAG1; A116T; 0

<400> 15017
Lys Gln Asp Arg Asp Ile Thr Leu
1               5


<210> 15018
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*05:01; STAG1; A116T; 1

<400> 15018
Lys Gln Asp Arg Asp Ile Thr Leu
1               5


<210> 15019
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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; STAG1; A116T; 0

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Lys Gln Asp Arg Asp Ile Thr Leu
1               5


<210> 15020
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; STAG1; A116T; 0

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Lys Gln Asp Arg Asp Ile Thr Leu
1               5


<210> 15021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; STAG1; A116T; 0

<400> 15021
Lys Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 15022
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; STAG1; A116T; 0

<400> 15022
Lys Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 15023
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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; STAG1; A116T; 0

<400> 15023
Lys Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 15024
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; STAG1; A116T; 0

<400> 15024
Lys Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 15025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; STAG1; A116T; 0

<400> 15025
Lys Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 15026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; STAG1; A116T; 1

<400> 15026
Lys Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 15027
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; STAG1; A116T; 0

<400> 15027
Lys Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 15028
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*57:01; PIK3CA; M1043I; 1

<400> 15028
Lys Gln Ile Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 15029
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; EGFR; L861Q; 0

<400> 15029
Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1               5                   10


<210> 15030
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; EGFR; L861Q; 0

<400> 15030
Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1               5                   10


<210> 15031
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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; EGFR; L861Q; 0

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Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1               5                   10


<210> 15032
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; EGFR; L861Q; 1

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1 5 10

<210> 15033
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; EGFR; L861Q; 0

<400> 15033
Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1 5 10

<210> 15034
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; EGFR; L861Q; 0

<400> 15034
Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1 5 10

<210> 15035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; H1047L; 1

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Lys Gln Met Asn Asp Ala Leu His Gly Gly Trp
1 5 10

<210> 15036
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PIK3CA; H1047Q; 0

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Lys Gln Met Asn Asp Ala Gln His Gly Gly Trp

1 5 10

<210> 15037
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; XPO1; R749Q; 0

<400> 15037
Lys Gln Pro Leu Ile Arg Ser Met Gln Thr Val
1 5 10

<210> 15038
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; MSN; E573K; 0

<400> 15038
Lys Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5 10

<210> 15039
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; MSN; E573K; 0

<400> 15039
Lys Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5 10

<210> 15040
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; V173L; 0

<400> 15040
Lys Gln Ser Gln His Met Thr Glu Val Leu Arg
1 5 10

<210> 15041
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; V173M; 0

<400> 15041
Lys Gln Ser Gln His Met Thr Glu Val Met
1               5                   10


<210> 15042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PTPRB; D1560N; 0

<400> 15042
Lys Arg Asn Pro Thr Gln Gln Lys Phe
1               5


<210> 15043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PTPRB; D1560N; 0

<400> 15043
Lys Arg Asn Pro Thr Gln Gln Lys Phe
1               5


<210> 15044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; PTPRB; D1560N; 1

<400> 15044
Lys Arg Asn Pro Thr Gln Gln Lys Phe
1               5


<210> 15045

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:01; PTPRB; D1560N; 1

<400> 15045
Lys Arg Asn Pro Thr Gln Gln Lys Phe
1               5


<210> 15046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; PTPRB; D1560N; 0

<400> 15046
Lys Arg Asn Pro Thr Gln Gln Lys Phe
1               5


<210> 15047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PTEN; G165R; 0

<400> 15047
Lys Arg Val Thr Ile Pro Ser Gln Arg
1               5


<210> 15048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PTEN; G165R; 0

<400> 15048
Lys Arg Val Thr Ile Pro Ser Gln Arg
1               5


<210> 15049
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PTEN; G165R; 0

<400> 15049
Lys Arg Val Thr Ile Pro Ser Gln Arg
1               5


<210> 15050
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PREX2; E553K; 0

<400> 15050
Lys Ser Lys Phe Lys Asp Glu Pro Leu Leu Phe
1               5                   10


<210> 15051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CREBBP; P2094L; 0

<400> 15051
Lys Ser Asn Leu Gln Leu Met Ala Ala
1               5


<210> 15052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CREBBP; P2094L; 0

<400> 15052
Lys Ser Asn Leu Gln Leu Met Ala Ala
1               5


<210> 15053
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; S127F; 0

<400> 15053
Lys Ser Val Thr Cys Thr Tyr Phe
1               5


<210> 15054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CB; E1051K; 0

<400> 15054
Lys Ser Trp Thr Thr Lys Val Asn Trp
1               5


<210> 15055
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CHD4; R975H; 0

<400> 15055
Lys Thr Glu Leu Ile Val His Val Glu Leu
1               5                   10


<210> 15056
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CHD4; R975H; 1

<400> 15056
Lys Thr Glu Leu Ile Val His Val Glu Leu
1               5                   10


<210> 15057
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CHD4; R975H; 0

<400> 15057
Lys Thr Glu Leu Ile Val His Val Glu Leu
1               5                   10


<210> 15058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PTPRT; E548K; 0

<400> 15058
Lys Thr His His Leu Phe Val Gly Leu
1               5


<210> 15059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PTPRT; E548K; 0

<400> 15059
Lys Thr His His Leu Phe Val Gly Leu
1               5


<210> 15060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; PTPRT; E548K; 0

<400> 15060
Lys Thr His His Leu Phe Val Gly Leu
1               5


<210> 15061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CB; R321Q; 0

<400> 15061

Lys Thr Gln Ile Ile Ser His Val Trp
1               5


<210> 15062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PIK3CB; R321Q; 0

<400> 15062
Lys Thr Gln Ile Ile Ser His Val Trp
1               5


<210> 15063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; PIK3CA; E726K; 0

<400> 15063
Lys Thr Gln Lys Val Gln Met Lys Phe
1               5


<210> 15064
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; PIK3CA; E726K; 1

<400> 15064
Lys Thr Gln Lys Val Gln Met Lys Phe
1               5


<210> 15065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E726K; 1

<400> 15065
Lys Thr Gln Lys Val Gln Met Lys Phe
1               5

<210> 15066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PIK3CA; E726K; 0

<400> 15066
Lys Thr Gln Lys Val Gln Met Lys Phe
1               5


<210> 15067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; XPO1; E571K; 1

<400> 15067
Lys Thr Val Val Asn Lys Leu Phe Lys
1               5


<210> 15068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; XPO1; E571K; 0

<400> 15068
Lys Thr Val Val Asn Lys Leu Phe Lys
1               5


<210> 15069
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; XPO1; E571K; 0

<400> 15069
Lys Thr Val Val Asn Lys Leu Phe Lys Phe
1               5                   10

<210> 15070
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; C141Y; 0

<400> 15070
Lys Thr Tyr Pro Val Gln Leu Trp
1               5


<210> 15071
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; C141Y; 0

<400> 15071
Lys Thr Tyr Pro Val Gln Leu Trp
1               5


<210> 15072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; C141Y; 1

<400> 15072
Lys Thr Tyr Pro Val Gln Leu Trp Val
1               5


<210> 15073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; C141Y; 0

<400> 15073
Lys Thr Tyr Pro Val Gln Leu Trp Val
1               5


<210> 15074
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; C141Y; 0

<400> 15074
Lys Thr Tyr Pro Val Gln Leu Trp Val
1               5


<210> 15075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; C141Y; 0

<400> 15075
Lys Thr Tyr Pro Val Gln Leu Trp Val
1               5


<210> 15076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; C141Y; 0

<400> 15076
Lys Thr Tyr Pro Val Gln Leu Trp Val
1               5


<210> 15077
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TP53; R110L; 0

<400> 15077
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu
1               5                   10


<210> 15078
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; R110L; 1

<400> 15078
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu
1               5                   10


<210> 15079
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; R110L; 0

<400> 15079
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 15080
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TP53; R110L; 0

<400> 15080
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 15081
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; R110L; 1

<400> 15081
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 15082
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*31:01; TP53; R110L; 0

<400> 15082
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 15083
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; R110L; 0

<400> 15083
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 15084
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; R110L; 0

<400> 15084
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 15085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; PIK3CA; R108H; 0

<400> 15085
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; R108H; 1

<400> 15086
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; R108H; 0

<400> 15087
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15088
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; R108H; 1

<400> 15088
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; PIK3CA; R108H; 1

<400> 15089
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3CA; R108H; 0

<400> 15090
Lys Val Ile Glu Pro Val Gly Asn His

1 5

<210> 15091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; R108H; 0

<400> 15091
Lys Val Ile Glu Pro Val Gly Asn His
1 5

<210> 15092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; PIK3CA; R108H; 0

<400> 15092
Lys Val Ile Glu Pro Val Gly Asn His
1 5

<210> 15093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; R108H; 0

<400> 15093
Lys Val Ile Glu Pro Val Gly Asn His
1 5

<210> 15094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PIK3CA; R108H; 1

<400> 15094
Lys Val Ile Glu Pro Val Gly Asn His
1 5

<210> 15095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PIK3CA; R108H; 0

<400> 15095
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; R108H; 1

<400> 15096
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PIK3CA; R108H; 0

<400> 15097
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 15098
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PIK3CA; R108H; 0

<400> 15098
Lys Val Ile Glu Pro Val Gly Asn His Glu
1               5                   10


<210> 15099

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PIK3CA; R108H; 0

<400> 15099
Lys Val Ile Glu Pro Val Gly Asn His Glu
1               5                   10


<210> 15100
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; R108H; 1

<400> 15100
Lys Val Ile Glu Pro Val Gly Asn His Glu
1               5                   10


<210> 15101
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; R108H; 0

<400> 15101
Lys Val Ile Glu Pro Val Gly Asn His Glu
1               5                   10


<210> 15102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PIK3CA; G106V; 1

<400> 15102
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15103
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; G106V; 0

<400> 15103
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PIK3CA; G106V; 0

<400> 15104
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PIK3CA; G106V; 0

<400> 15105
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PIK3CA; G106V; 0

<400> 15106
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; PIK3CA; G106V; 0

<400> 15107
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; G106V; 1

<400> 15108
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; G106V; 0

<400> 15109
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; G106V; 0

<400> 15110
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; PIK3CA; G106V; 0

<400> 15111
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15112
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3CA; G106V; 0

<400> 15112
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; G106V; 0

<400> 15113
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; G106V; 0

<400> 15114
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3CA; G106V; 0

<400> 15115

Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; G106V; 0

<400> 15116
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; G106V; 0

<400> 15117
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3CA; G106V; 0

<400> 15118
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PIK3CA; G106V; 0

<400> 15119
Lys Val Ile Glu Pro Val Val Asn Arg
1               5

<210> 15120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; G106V; 0

<400> 15120
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PIK3CA; G106V; 0

<400> 15121
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3CA; G106V; 0

<400> 15122
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; G106V; 0

<400> 15123
Lys Val Ile Glu Pro Val Val Asn Arg
1               5

<210> 15124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PIK3CA; G106V; 0

<400> 15124
Lys Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 15125
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; SPOP; E50K; 0

<400> 15125
Lys Val Ile Lys Ser Ser Thr Phe
1               5


<210> 15126
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SPOP; E50K; 1

<400> 15126
Lys Val Ile Lys Ser Ser Thr Phe
1               5


<210> 15127
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SPOP; E50K; 0

<400> 15127
Lys Val Ile Lys Ser Ser Thr Phe
1               5


<210> 15128
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SMARCA4; G1232S; 0

<400> 15128
Lys Val Ile Gln Ala Ser Met Phe
1               5


<210> 15129
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; SMARCA4; G1232S; 0

<400> 15129
Lys Val Ile Gln Ala Ser Met Phe
1               5


<210> 15130
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SMARCA4; G1232S; 0

<400> 15130
Lys Val Ile Gln Ala Ser Met Phe
1               5


<210> 15131
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; SMARCA4; G1232S; 1

<400> 15131
Lys Val Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5                   10


<210> 15132
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SMARCA4; G1232S; 0

<400> 15132
Lys Val Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5                   10


<210> 15133
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SMARCA4; G1232S; 0

<400> 15133
Lys Val Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5                   10


<210> 15134
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SMARCA4; G1232S; 0

<400> 15134
Lys Val Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5                   10


<210> 15135
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; EZH2; M667T; 1

<400> 15135
Lys Val Tyr Asp Lys Tyr Thr Cys Ser Phe
1               5                   10


<210> 15136
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*23:01; ZNRF3; R207W; 0

<400> 15136
Lys Tyr Ile Asp Gly Glu Glu Leu Trp
1               5


<210> 15137
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; RAC1; A159V; 0

<400> 15137
Lys Tyr Leu Glu Cys Ser Val Leu
1               5


<210> 15138
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; RAC1; A159V; 0

<400> 15138
Lys Tyr Leu Glu Cys Ser Val Leu
1               5


<210> 15139
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; RAC1; A159V; 0

<400> 15139
Lys Tyr Leu Glu Cys Ser Val Leu
1               5


<210> 15140
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; RAC1; A159V; 0

<400> 15140
Lys Tyr Leu Glu Cys Ser Val Leu
1               5


<210> 15141
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; RAC1; A159V; 0

<400> 15141
Lys Tyr Leu Glu Cys Ser Val Leu
1               5


<210> 15142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; RAC1; A159V; 0

<400> 15142
Lys Tyr Leu Glu Cys Ser Val Leu Thr
1               5


<210> 15143
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; RAC1; A159V; 0

<400> 15143
Lys Tyr Leu Glu Cys Ser Val Leu Thr Gln Arg
1               5                   10


<210> 15144
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; RAC1; A159V; 0

<400> 15144
Lys Tyr Leu Glu Cys Ser Val Leu Thr Gln Arg

1 5 10

<210> 15145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; EGFR; A289V; 1

<400> 15145
Lys Tyr Ser Phe Gly Val Thr Cys Val
1 5

<210> 15146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; ATM; R337C; 0

<400> 15146
Lys Tyr Ser Ser Gly Phe Cys Asn Ile
1 5

<210> 15147
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<212> PRT
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<220>
<223> Table A; HLA-A*24:02; ATM; R337C; 1

<400> 15147
Lys Tyr Ser Ser Gly Phe Cys Asn Ile
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<210> 15148
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*14:02; EZH2; E745K; 0

<400> 15148
Lys Tyr Val Gly Ile Lys Arg Glu Met
1 5

<210> 15149
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CREB3L1; V414I; 1

<400> 15149
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15150
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CREB3L1; V414I; 0

<400> 15150
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CREB3L1; V414I; 0

<400> 15151
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CREB3L1; V414I; 0

<400> 15152
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15153

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CREB3L1; V414I; 0

<400> 15153
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CREB3L1; V414I; 0

<400> 15154
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CREB3L1; V414I; 0

<400> 15155
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CREB3L1; V414I; 0

<400> 15156
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15157
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CREB3L1; V414I; 0

<400> 15157
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CREB3L1; V414I; 0

<400> 15158
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CREB3L1; V414I; 0

<400> 15159
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CREB3L1; V414I; 0

<400> 15160
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CREB3L1; V414I; 0

<400> 15161
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15162
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CREB3L1; V414I; 0

<400> 15162
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CREB3L1; V414I; 0

<400> 15163
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15164
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*55:02; CREB3L1; V414I; 0

<400> 15164
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


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<212> PRT
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<220>
<223> Table A; HLA-B*56:01; CREB3L1; V414I; 0

<400> 15165
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15166
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CREB3L1; V414I; 0

<400> 15166
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; CREB3L1; V414I; 0

<400> 15167
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; CREB3L1; V414I; 0

<400> 15168
Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5


<210> 15169
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; KDR; R1032Q; 0

<400> 15169

Leu Ala Ala Gln Asn Ile Leu Leu
1 5

<210> 15170
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KDR; R1032Q; 0

<400> 15170
Leu Ala Ala Gln Asn Ile Leu Leu Ser Glu Lys
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<210> 15171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CCND1; T286I; 0

<400> 15171
Leu Ala Cys Ile Pro Thr Asp Val Arg
1 5

<210> 15172
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CCND1; T286I; 0

<400> 15172
Leu Ala Cys Ile Pro Thr Asp Val Arg
1 5

<210> 15173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CCND1; T286I; 1

<400> 15173
Leu Ala Cys Ile Pro Thr Asp Val Arg
1 5

<210> 15174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; C141Y; 0

<400> 15174
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 15175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; C141Y; 0

<400> 15175
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 15176
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*02:02; TP53; C141Y; 0

<400> 15176
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 15177
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; C141Y; 0

<400> 15177
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5

<210> 15178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; TP53; C141Y; 0

<400> 15178
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 15179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; TP53; C141Y; 0

<400> 15179
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 15180
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; TP53; C141Y; 0

<400> 15180
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 15181
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; C141Y; 0

<400> 15181
Leu Ala Lys Thr Tyr Pro Val Gln Leu Trp
1               5                   10


<210> 15182
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; MTOR; S2215Y; 0

<400> 15182
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15183
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*02:02; MTOR; S2215Y; 1

<400> 15183
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15184
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<220>
<223> Table A; HLA-C*03:03; MTOR; S2215Y; 1

<400> 15184
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15185
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*03:04; MTOR; S2215Y; 1

<400> 15185
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15186
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; MTOR; S2215Y; 1

<400> 15186
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; MTOR; S2215Y; 0

<400> 15187
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15188
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; MTOR; S2215Y; 0

<400> 15188
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15189
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:02; MTOR; S2215Y; 1

<400> 15189
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15190
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*12:03; MTOR; S2215Y; 1

<400> 15190
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15191
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; MTOR; S2215Y; 0

<400> 15191
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15192
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; MTOR; S2215Y; 1

<400> 15192
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; MTOR; S2215Y; 0

<400> 15193
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; MTOR; S2215Y; 0

<400> 15194
Leu Ala Asn Asp Pro Thr Tyr Leu Arg
1               5


<210> 15195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; MTOR; S2215Y; 0

<400> 15195
Leu Ala Asn Asp Pro Thr Tyr Leu Arg
1               5


<210> 15196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MTOR; S2215Y; 0

<400> 15196
Leu Ala Asn Asp Pro Thr Tyr Leu Arg
1               5


<210> 15197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; MTOR; S2215Y; 0

<400> 15197
Leu Ala Asn Asp Pro Thr Tyr Leu Arg
1               5


<210> 15198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; MTOR; S2215Y; 0

<400> 15198
Leu Ala Asn Asp Pro Thr Tyr Leu Arg

1 5

<210> 15199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; MTOR; S2215Y; 0

<400> 15199
Leu Ala Asn Asp Pro Thr Tyr Leu Arg
1 5

<210> 15200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MTOR; S2215Y; 1

<400> 15200
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1 5 10

<210> 15201
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MTOR; S2215Y; 0

<400> 15201
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1 5 10

<210> 15202
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; MTOR; S2215Y; 1

<400> 15202
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1 5 10

<210> 15203
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MTOR; S2215Y; 0

<400> 15203
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5                   10


<210> 15204
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; MTOR; S2215Y; 0

<400> 15204
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5                   10


<210> 15205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; MTOR; S2215Y; 0

<400> 15205
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5                   10


<210> 15206
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; MTOR; S2215Y; 0

<400> 15206
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5                   10


<210> 15207

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; I195N; 0

<400> 15207
Leu Ala Pro Pro Gln His Leu Asn Arg
1               5


<210> 15208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; I195N; 0

<400> 15208
Leu Ala Pro Pro Gln His Leu Asn Arg
1               5


<210> 15209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; I195N; 0

<400> 15209
Leu Ala Pro Pro Gln His Leu Asn Arg
1               5


<210> 15210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; I195T; 0

<400> 15210
Leu Ala Pro Pro Gln His Leu Thr Arg
1               5


<210> 15211
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; I195T; 1

<400> 15211
Leu Ala Pro Pro Gln His Leu Thr Arg
1               5


<210> 15212
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; I195T; 0

<400> 15212
Leu Ala Pro Pro Gln His Leu Thr Arg Val
1               5                   10


<210> 15213
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; H193L; 0

<400> 15213
Leu Ala Pro Pro Gln Leu Leu Ile
1               5


<210> 15214
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; H193L; 0

<400> 15214
Leu Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5                   10


<210> 15215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; H193L; 0

<400> 15215
Leu Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5                   10


<210> 15216
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; H193R; 0

<400> 15216
Leu Ala Pro Pro Gln Arg Leu Ile
1               5


<210> 15217
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; H193Y; 0

<400> 15217
Leu Ala Pro Pro Gln Tyr Leu Ile
1               5


<210> 15218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; H193Y; 0

<400> 15218
Leu Ala Pro Pro Gln Tyr Leu Ile Arg
1               5


<210> 15219
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; H193Y; 0

<400> 15219
Leu Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5                   10


<210> 15220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; H193Y; 0

<400> 15220
Leu Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5                   10


<210> 15221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; AXIN1; R146Q; 0

<400> 15221
Leu Ala Arg Ala Ile Tyr Gln Lys Tyr
1               5


<210> 15222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; AXIN1; R146Q; 0

<400> 15222
Leu Ala Arg Ala Ile Tyr Gln Lys Tyr
1               5


<210> 15223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; AXIN1; R146Q; 0

<400> 15223

Leu Ala Arg Ala Ile Tyr Gln Lys Tyr
1               5


<210> 15224
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; BRAF; K601E; 1

<400> 15224
Leu Ala Thr Val Glu Ser Arg Trp
1               5


<210> 15225
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; BRAF; K601E; 0

<400> 15225
Leu Ala Thr Val Glu Ser Arg Trp
1               5


<210> 15226
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; ROBO2; D1014N; 1

<400> 15226
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<210> 15227
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<220>
<223> Table A; HLA-B*57:01; ROBO2; D1014N; 0

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<220>
<223> Table A; HLA-B*58:01; ROBO2; D1014N; 0

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<210> 15229
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33C; 1

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Leu Asp Cys Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15230
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<223> Table A; HLA-C*08:02; NFE2L2; T80P; 0

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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33F; 1

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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S33F; 1

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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S33F; 1

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<220>
<223> Table A; HLA-B*27:05; CTNNB1; S33F; 1

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<220>
<223> Table A; HLA-B*40:02; CTNNB1; S33F; 0

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<210> 15236
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

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<210> 15237
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33F; 0

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<210> 15238
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33F; 0

<400> 15238
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<210> 15239
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S33F; 0

<400> 15239
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<210> 15240
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33F; 0

<400> 15240
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<210> 15241
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33F; 0

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<210> 15242
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S33F; 0

<400> 15242
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<210> 15243
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; S33F; 0

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<223> Table A; HLA-B*40:06; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

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<210> 15246
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S33F; 0

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<210> 15247
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33F; 0

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<210> 15248
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33F; 1

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-B*40:02; CTNNB1; S33F; 0

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<210> 15251
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*07:04; CTNNB1; S33F; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33F; 0

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<210> 15254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; ARHGEF12; R705H; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; ARHGEF12; R705H; 0

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<210> 15256
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; ARHGEF12; R705H; 0

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<210> 15257
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; HRAS; Q61K; 0

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<210> 15258
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61K; 0

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<210> 15259
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; KRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*40:02; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*44:05; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*27:02; KRAS; Q61R; 0

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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61R; 0

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<210> 15264
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<212> PRT
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<220>
<223> Table A; HLA-B*37:01; CTNNB1; G34E; 0

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<210> 15265
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34E; 1

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<210> 15266
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34E; 0

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<210> 15267
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34E; 0

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<210> 15268
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34E; 0

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<210> 15269
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34E; 0

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<210> 15270
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<212> PRT
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<220>
<223> Table A; HLA-B*37:01; CTNNB1; G34E; 0

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<210> 15271
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34E; 0

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<210> 15272
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; G34E; 0

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<210> 15273
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<220>
<223> Table A; HLA-B*40:06; CTNNB1; G34E; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34E; 0

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<210> 15276
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; G34E; 0

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<210> 15277
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; G34E; 0

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<210> 15278
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37A; 1

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<210> 15282
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37A; 1

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<210> 15283
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<220>
<223> Table A; HLA-B*37:01; CTNNB1; S37A; 0

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<210> 15284
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

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<210> 15285
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37A; 1

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<210> 15286
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<223> Table A; HLA-A*02:03; CTNNB1; S37A; 0

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<210> 15287
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37A; 0

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<210> 15288
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; S37A; 0

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<210> 15289
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37A; 0

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Leu Asp Ser Gly Ile His Ala Gly Ala
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37A; 0

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<210> 15294
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<220>
<223> Table A; HLA-B*15:10; CTNNB1; S37A; 0

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<223> Table A; HLA-B*27:05; CTNNB1; S37A; 0

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<210> 15296
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<220>
<223> Table A; HLA-B*37:01; CTNNB1; S37A; 0

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<210> 15297
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37A; 0

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<210> 15298
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<220>

<223> Table A; HLA-B*40:02; CTNNB1; S37A; 0

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<210> 15299
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; CTNNB1; S37A; 0

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<210> 15300
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; CTNNB1; S37A; 0

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<210> 15301
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

<400> 15301
Leu Asp Ser Gly Ile His Ala Gly Ala
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<210> 15302
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37A; 0

<400> 15302
Leu Asp Ser Gly Ile His Ala Gly Ala
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<210> 15303
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37A; 0

<400> 15303
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1               5


<210> 15304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; CTNNB1; S37A; 0

<400> 15304
Leu Asp Ser Gly Ile His Ala Gly Ala
1               5


<210> 15305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; S37A; 0

<400> 15305
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<210> 15306
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

<400> 15306
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<210> 15307
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37A; 0

<400> 15307
Leu Asp Ser Gly Ile His Ala Gly Ala Thr
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<210> 15308
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; S37A; 0

<400> 15308
Leu Asp Ser Gly Ile His Ala Gly Ala Thr
1 5 10

<210> 15309
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

<400> 15309
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1 5 10

<210> 15310
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

<400> 15310
Leu Asp Ser Gly Ile His Ala Gly Ala Thr
1 5 10

<210> 15311
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37C; 1

<400> 15311
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1               5


<210> 15312
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37C; 0

<400> 15312
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1               5


<210> 15313
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37C; 1

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<210> 15314
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37C; 1

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<210> 15315

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37C; 0

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1               5


<210> 15316
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; S37C; 1

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1               5


<210> 15317
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<212> PRT
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<220>
<223> Table A; HLA-B*37:01; CTNNB1; S37C; 0

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1               5


<210> 15318
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; CTNNB1; S37C; 0

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1               5


<210> 15319
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37C; 0

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1               5


<210> 15320
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37C; 0

<400> 15320
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<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

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<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

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<223> Table A; HLA-A*02:01; CTNNB1; S37P; 1

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<223> Table A; HLA-A*02:03; CTNNB1; S37P; 0

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<223> Table A; HLA-A*30:01; CTNNB1; S37P; 0

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<220>
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<220>
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<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

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<223> Table A; HLA-C*16:04; NRAS; Q61H; 0

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<220>
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<220>
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<210> 15404
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<223> Table A; HLA-B*35:01; NRAS; Q61K; 1

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<223> Table A; HLA-B*35:08; NRAS; Q61K; 0

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<210> 15406
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<223> Table A; HLA-B*58:01; NRAS; Q61K; 0

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<223> Table A; HLA-B*18:01; KRAS; Q61L; 0

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<223> Table A; HLA-B*35:08; NRAS; Q61L; 0

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<212> PRT
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<210> 15414
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<220>
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<220>
<223> Table A; HLA-C*03:02; KRAS; Q61R; 0

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<223> Table A; HLA-B*15:01; NRAS; Q61R; 1

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<223> Table A; HLA-B*18:01; NRAS; Q61R; 1

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<223> Table A; HLA-B*40:02; CTNNB1; S33Y; 0

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<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

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<223> Table A; HLA-B*08:01; CTNNB1; S33Y; 1

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<220>
<223> Table A; HLA-B*49:01; CTNNB1; S33Y; 0

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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S33Y; 0

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<220>
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<220>
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S33Y; 0

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<220>
<223> Table A; HLA-C*07:04; CTNNB1; S33Y; 0

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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

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<223> Table A; HLA-A*11:01; MAP2K1; K57N; 0

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<220>
<223> Table A; HLA-A*68:02; MAP2K1; K57N; 0

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<220>

<223> Table A; HLA-B*27:02; MAP2K1; K57N; 0

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<220>
<223> Table A; HLA-B*49:01; MAP2K1; K57N; 0

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<220>
<223> Table A; HLA-A*30:01; PIK3CA; R38H; 0

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<220>
<223> Table A; HLA-B*41:02; PIK3CA; R38H; 0

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<220>
<223> Table A; HLA-B*44:05; PIK3CA; R38H; 0

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<223> Table A; HLA-B*49:01; PIK3CA; R38H; 0

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<223> Table A; HLA-A*23:01; RAC1; A159V; 0

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<223> Table A; HLA-A*31:01; RAC1; A159V; 0

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<223> Table A; HLA-A*33:01; RAC1; A159V; 0

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<223> Table A; HLA-A*33:03; RAC1; A159V; 0

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<223> Table A; HLA-A*68:01; RAC1; A159V; 0

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<223> Table A; HLA-A*68:02; RAC1; A159V; 0

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<223> Table A; HLA-B*27:02; RAC1; A159V; 0

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<223> Table A; HLA-B*27:05; RAC1; A159V; 0

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<223> Table A; HLA-B*27:02; TP53; G266E; 0

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<220>
<223> Table A; HLA-B*27:02; TP53; G266R; 0

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<223> Table A; HLA-B*40:01; TP53; G266V; 0

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<223> Table A; HLA-A*68:01; TP53; G266V; 0

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<223> Table A; HLA-B*27:02; TP53; G266V; 0

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<223> Table A; HLA-B*40:01; TP53; G262V; 0

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<223> Table A; HLA-B*40:02; TP53; G262V; 0

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<223> Table A; HLA-B*44:05; TP53; G262V; 0

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<223> Table A; HLA-B*49:01; TP53; G262V; 0

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<223> Table A; HLA-C*08:02; TP53; G262V; 0

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<223> Table A; HLA-A*02:07; TP53; G262V; 0

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<223> Table A; HLA-A*30:01; TP53; G262V; 0

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<220>
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<220>
<223> Table A; HLA-B*41:02; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*44:05; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*49:01; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*58:01; TP53; G262V; 0

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<220>
<223> Table A; HLA-C*05:01; TP53; G262V; 1

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<220>
<223> Table A; HLA-C*08:02; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*27:02; TP53; G262V; 0

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<220>
<223> Table A; HLA-B*50:01; FAT1; D3120N; 0

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<220>
<223> Table A; HLA-B*44:05; FAT1; D3120N; 0

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<210> 15502
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<220>
<223> Table A; HLA-B*40:01; RGPD3; N756D; 1

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<210> 15503
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<220>
<223> Table A; HLA-A*02:05; GRIN2A; S1425L; 0

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<220>
<223> Table A; HLA-B*40:06; GRIN2A; S1425L; 0

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<220>
<223> Table A; HLA-B*50:01; GRIN2A; S1425L; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; GRIN2A; S1425L; 0

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<220>
<223> Table A; HLA-A*02:08; GRIN2A; S1425L; 0

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<223> Table A; HLA-B*18:01; GRIN2A; S1425L; 0

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<220>
<223> Table A; HLA-B*39:06; GRIN2A; S1425L; 0

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<223> Table A; HLA-B*40:06; GRIN2A; S1425L; 0

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<210> 15512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; GRIN2A; S1425L; 0

<400> 15512
Leu Glu His Val Met Pro Tyr Ala Ala
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<210> 15513
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; GRIN2A; S1425L; 0

<400> 15513
Leu Glu His Val Met Pro Tyr Ala Ala
1               5


<210> 15514
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*40:06; CSMD3; S300F; 0

<400> 15514
Leu Glu Ile Glu Gly Phe Glu Pro
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<210> 15515
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CSMD3; S300F; 0

<400> 15515
Leu Glu Ile Glu Gly Phe Glu Pro
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<210> 15516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CSMD3; S300F; 0

<400> 15516
Leu Glu Ile Glu Gly Phe Glu Pro Pro
1               5


<210> 15517
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CSMD3; S300F; 0

<400> 15517
Leu Glu Ile Glu Gly Phe Glu Pro Pro
1               5


<210> 15518
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:06; CSMD3; S300F; 0

<400> 15518
Leu Glu Ile Glu Gly Phe Glu Pro Pro
1               5


<210> 15519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CSMD3; S300F; 0

<400> 15519
Leu Glu Ile Glu Gly Phe Glu Pro Pro
1               5


<210> 15520
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; CSMD3; S300F; 0

<400> 15520
Leu Glu Ile Glu Gly Phe Glu Pro Pro Thr Ile
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<210> 15521
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; STAG2; R370Q; 0

<400> 15521
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1               5


<210> 15522
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; STAG2; R370Q; 0

<400> 15522
Leu Glu Leu Phe Thr Ser Gln Phe

1 5

<210> 15523
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*18:01; STAG2; R370Q; 0

<400> 15523
Leu Glu Leu Phe Thr Ser Gln Phe
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<210> 15524
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; STAG2; R370Q; 0

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Leu Glu Leu Phe Thr Ser Gln Phe
1 5

<210> 15525
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; STAG2; R370Q; 0

<400> 15525
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<210> 15526
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; STAG2; R370Q; 0

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Leu Glu Leu Phe Thr Ser Gln Phe
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<210> 15527
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; STAG2; R370Q; 0

<400> 15527
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1               5


<210> 15528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; BCORL1; K1207N; 0

<400> 15528
Leu Glu Asn Lys Ala Lys Ser Ser Phe
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<210> 15529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; BCORL1; K1207N; 0

<400> 15529
Leu Glu Asn Lys Ala Lys Ser Ser Phe
1               5


<210> 15530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; BCORL1; K1207N; 1

<400> 15530
Leu Glu Asn Lys Ala Lys Ser Ser Phe
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<210> 15531

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; BCORL1; K1207N; 1

<400> 15531
Leu Glu Asn Lys Ala Lys Ser Ser Phe
1               5


<210> 15532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; BCORL1; K1207N; 1

<400> 15532
Leu Glu Asn Lys Ala Lys Ser Ser Phe
1               5


<210> 15533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; BCORL1; K1207N; 0

<400> 15533
Leu Glu Asn Lys Ala Lys Ser Ser Phe
1               5


<210> 15534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; BCORL1; K1207N; 0

<400> 15534
Leu Glu Asn Lys Ala Lys Ser Ser Phe
1               5


<210> 15535
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; BCORL1; K1207N; 1

<400> 15535
Leu Glu Asn Lys Ala Lys Ser Ser Phe
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<210> 15536
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; BCORL1; K1207N; 1

<400> 15536
Leu Glu Asn Lys Ala Lys Ser Ser Phe
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<210> 15537
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; BCORL1; K1207N; 0

<400> 15537
Leu Glu Asn Lys Ala Lys Ser Ser Phe
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<210> 15538
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; MTOR; A2056V; 0

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Leu Glu Pro Leu His Val Met Met
1               5


<210> 15539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CNTNAP2; G362E; 0

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<210> 15540
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; CNTNAP2; G362E; 1

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<210> 15541
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CNTNAP2; G362E; 0

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1               5


<210> 15542
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; CNTNAP2; G362E; 0

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1               5


<210> 15543
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CNTNAP2; G362E; 0

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1               5


<210> 15544
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*44:03; CNTNAP2; G362E; 1

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<210> 15545
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CNTNAP2; G362E; 0

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<210> 15546
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; TP53; G266E; 0

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<210> 15547
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; TP53; G266E; 0

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<210> 15548
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; TP53; G266E; 0

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<210> 15549
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; TP53; G266E; 0

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<210> 15550
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; TP53; G266E; 0

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<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; TP53; G266E; 0

<400> 15551
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<210> 15552
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; TP53; G266E; 0

<400> 15552
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<210> 15553
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; G266E; 0

<400> 15553
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<210> 15554
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; M1043I; 0

<400> 15554
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<210> 15555
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; M1043V; 0

<400> 15555
Leu Glu Tyr Phe Met Lys Gln Val
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<210> 15556
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*49:01; PIK3CA; M1043V; 0

<400> 15556
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<210> 15557
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3CA; M1043V; 0

<400> 15557
Leu Glu Tyr Phe Met Lys Gln Val
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<210> 15558
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; ARID2; S297F; 0

<400> 15558
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<210> 15559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; ARID2; S297F; 1

<400> 15559
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<210> 15560
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ARID2; S297F; 0

<400> 15560
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<210> 15561
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; ARID2; S297F; 0

<400> 15561
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<210> 15562
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; ARID2; S297F; 0

<400> 15562
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<210> 15563
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; ARID2; S297F; 0

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<210> 15564
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; ARID2; S297F; 0

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<210> 15565
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; DCAF12L2; R378H; 0

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Leu Phe Tyr Asp Ile His Ala Gln Lys
1               5


<210> 15566
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; DCAF12L2; R378H; 0

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Leu Phe Tyr Asp Ile His Ala Gln Lys Phe
1               5                   10


<210> 15567
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<220>
<223> Table A; HLA-A*24:02; DCAF12L2; R378H; 0

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Leu Phe Tyr Asp Ile His Ala Gln Lys Phe
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<210> 15568
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<220>

<223> Table A; HLA-A*29:02; DCAF12L2; R378H; 0

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Leu Phe Tyr Asp Ile His Ala Gln Lys Phe
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<210> 15569
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<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; DCAF12L2; R378H; 0

<400> 15569
Leu Phe Tyr Asp Ile His Ala Gln Lys Phe
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<210> 15570
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<220>
<223> Table A; HLA-C*05:01; NFE2L2; D77G; 1

<400> 15570
Leu Gly Glu Glu Thr Gly Glu Phe Leu
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<210> 15571
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; NFE2L2; D77G; 0

<400> 15571
Leu Gly Glu Glu Thr Gly Glu Phe Leu
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<210> 15572
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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; NFE2L2; D77G; 0

<400> 15572
Leu Gly Glu Glu Thr Gly Glu Phe Leu
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<210> 15573
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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; RAC1; P29L; 1

<400> 15573
Leu Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 15574
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; RAC1; P29L; 0

<400> 15574
Leu Gly Glu Tyr Ile Pro Thr Val Phe
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<210> 15575
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<220>
<223> Table A; HLA-B*35:01; RAC1; P29L; 1

<400> 15575
Leu Gly Glu Tyr Ile Pro Thr Val Phe
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<210> 15576
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<220>
<223> Table A; HLA-B*35:02; RAC1; P29L; 0

<400> 15576
Leu Gly Glu Tyr Ile Pro Thr Val Phe

1 5

<210> 15577
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; RAC1; P29L; 0

<400> 15577
Leu Gly Glu Tyr Ile Pro Thr Val Phe
1 5

<210> 15578
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<212> PRT
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<220>
<223> Table A; HLA-B*35:12; RAC1; P29L; 0

<400> 15578
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<210> 15579
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*04:01; RAC1; P29L; 1

<400> 15579
Leu Gly Glu Tyr Ile Pro Thr Val Phe
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<210> 15580
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*05:01; RAC1; P29L; 1

<400> 15580
Leu Gly Glu Tyr Ile Pro Thr Val Phe
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<210> 15581
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:02; RAC1; P29L; 0

<400> 15581
Leu Gly Glu Tyr Ile Pro Thr Val Phe
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<210> 15582
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; V272M; 0

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Leu Gly Arg Asn Ser Phe Glu Met
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<210> 15583
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; V272M; 0

<400> 15583
Leu Gly Arg Asn Ser Phe Glu Met Arg
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<210> 15584
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; IDH1; R132L; 0

<400> 15584
Leu His Ala Tyr Gly Asp Gln Tyr
1               5


<210> 15585

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PIK3CA; R38H; 0

<400> 15585
Leu His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 15586
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; PIK3CA; R38H; 0

<400> 15586
Leu His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 15587
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; PIK3CA; R38H; 0

<400> 15587
Leu His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 15588
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; PIK3CA; R38H; 0

<400> 15588
Leu His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 15589
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32H; 0

<400> 15589
Leu His Ser Gly Ile His Ser Gly Ala
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<210> 15590
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<212> PRT
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<220>
<223> Table A; HLA-B*15:10; CTNNB1; D32H; 0

<400> 15590
Leu His Ser Gly Ile His Ser Gly Ala
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<210> 15591
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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; CTNNB1; D32H; 0

<400> 15591
Leu His Ser Gly Ile His Ser Gly Ala
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<210> 15592
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32H; 0

<400> 15592
Leu His Ser Gly Ile His Ser Gly Ala
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<210> 15593
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32H; 0

<400> 15593
Leu His Ser Gly Ile His Ser Gly Ala
1               5


<210> 15594
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32H; 0

<400> 15594
Leu His Ser Gly Ile His Ser Gly Ala
1               5


<210> 15595
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32H; 0

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Leu His Ser Gly Ile His Ser Gly Ala
1               5


<210> 15596
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TP53; P250L; 0

<400> 15596
Leu Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 15597
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; TP53; P250L; 0

<400> 15597
Leu Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 15598
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; XPO1; R749Q; 0

<400> 15598
Leu Ile Arg Ser Met Gln Thr Val
1               5


<210> 15599
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; XPO1; R749Q; 0

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1               5


<210> 15600
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; XPO1; R749Q; 1

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1               5


<210> 15601
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; SF3B1; R957Q; 1

<400> 15601

Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 15602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SF3B1; R957Q; 1

<400> 15602
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 15603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SF3B1; R957Q; 0

<400> 15603
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 15604
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:10; SF3B1; R957Q; 0

<400> 15604
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 15605
<211> 9
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<223> Table A; HLA-B*35:01; SF3B1; R957Q; 1

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1               5

<210> 15606
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<220>
<223> Table A; HLA-B*35:02; SF3B1; R957Q; 0

<400> 15606
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1               5


<210> 15607
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<220>
<223> Table A; HLA-B*35:03; SF3B1; R957Q; 0

<400> 15607
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 15608
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; SF3B1; R957Q; 0

<400> 15608
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 15609
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; SF3B1; R957Q; 0

<400> 15609
Leu Ile Ser Gln Thr Ala Val Val Met
1               5

<210> 15610
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SF3B1; R957Q; 0

<400> 15610
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1               5


<210> 15611
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SF3B1; R957Q; 0

<400> 15611
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1               5


<210> 15612
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<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; SF3B1; R957Q; 0

<400> 15612
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 15613
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 15613
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1               5


<210> 15614
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; SF3B1; R957Q; 1

<400> 15614
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1               5                   10


<210> 15615
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SF3B1; R957Q; 0

<400> 15615
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1               5                   10


<210> 15616
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SF3B1; R957Q; 1

<400> 15616
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1               5                   10


<210> 15617
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<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

<400> 15617
Leu Ile Ser Gln Thr Ala Val Val Met Lys
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<210> 15618
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 15618
Leu Ile Ser Gln Thr Ala Val Val Met Lys
1               5                   10


<210> 15619
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SF3B1; R957Q; 0

<400> 15619
Leu Ile Ser Gln Thr Ala Val Val Met Lys
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<210> 15620
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<220>
<223> Table A; HLA-B*39:06; PIK3CA; G106V; 0

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Leu Lys Val Ile Glu Pro Val Val
1               5


<210> 15621
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<220>
<223> Table A; HLA-A*02:01; MTOR; S2215Y; 1

<400> 15621
Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15622
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<223> Table A; HLA-A*02:03; MTOR; S2215Y; 0

<400> 15622
Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15623
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<220>
<223> Table A; HLA-A*02:04; MTOR; S2215Y; 0

<400> 15623
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1               5


<210> 15624
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<220>
<223> Table A; HLA-A*02:05; MTOR; S2215Y; 0

<400> 15624
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1               5


<210> 15625
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<220>
<223> Table A; HLA-A*02:06; MTOR; S2215Y; 0

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1               5


<210> 15626
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; MTOR; S2215Y; 0

<400> 15626
Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15627
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; MTOR; S2215Y; 0

<400> 15627
Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; MTOR; S2215Y; 0

<400> 15628
Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 15629
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; MTOR; S2215Y; 0

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1               5


<210> 15630
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; MTOR; S2215Y; 0

<400> 15630
Leu Leu Ala Asn Asp Pro Thr Tyr Leu

1 5

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<212> PRT
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<220>
<223> Table A; HLA-C*17:01; MTOR; S2215Y; 0

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1 5

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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; MTOR; S2215Y; 0

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1 5 10

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<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; HRAS; Q61K; 0

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1 5 10

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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; NRAS; Q61K; 0

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1 5 10

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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61K; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*02:07; KRAS; Q61L; 0

<400> 15636
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1               5                   10


<210> 15637
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<220>
<223> Table A; HLA-A*02:07; NRAS; Q61L; 0

<400> 15637
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1               5                   10


<210> 15638
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<220>
<223> Table A; HLA-B*27:02; KRAS; Q61R; 0

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1               5                   10


<210> 15639

<211> 10
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<220>
<223> Table A; HLA-B*27:02; NRAS; Q61R; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*02:01; TP53; G266E; 1

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<210> 15641
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<220>
<223> Table A; HLA-A*02:04; TP53; G266E; 0

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1               5


<210> 15642
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<220>
<223> Table A; HLA-A*02:07; TP53; G266E; 0

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1               5


<210> 15643
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; V272M; 0

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1               5


<210> 15644
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; RAC1; P29L; 0

<400> 15644
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1               5                   10


<210> 15645
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; RGPD3; R816C; 0

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1               5


<210> 15646
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; AR; F814V; 1

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1               5


<210> 15647
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<220>
<223> Table A; HLA-A*02:04; AR; F814V; 0

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1               5


<210> 15648
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<220>
<223> Table A; HLA-A*02:07; BIRC6; G271R; 0

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<220>
<223> Table A; HLA-A*02:03; PTPRT; M903I; 0

<400> 15649
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1               5


<210> 15650
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<220>
<223> Table A; HLA-A*02:04; PTPRT; M903I; 0

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1               5


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<220>
<223> Table A; HLA-A*03:02; PTPRT; M903I; 0

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Leu Leu Gln His Ile Thr Gln Ile Lys
1               5


<210> 15652
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CDKN2A; P114L; 1

<400> 15652
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1               5


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<220>
<223> Table A; HLA-A*02:03; CDKN2A; P114L; 0

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1               5


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<220>
<223> Table A; HLA-A*02:04; CDKN2A; P114L; 0

<400> 15654
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1               5


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<220>
<223> Table A; HLA-A*02:05; CDKN2A; P114L; 0

<400> 15655

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1               5


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<220>
<223> Table A; HLA-A*02:06; CDKN2A; P114L; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CDKN2A; P114L; 0

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1               5


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<220>
<223> Table A; HLA-A*02:08; CDKN2A; P114L; 0

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1               5


<210> 15659
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<220>
<223> Table A; HLA-A*68:02; CDKN2A; P114L; 0

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1               5

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<223> Table A; HLA-B*13:01; CDKN2A; P114L; 0

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1               5


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<223> Table A; HLA-B*13:02; CDKN2A; P114L; 1

<400> 15661
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1               5


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<223> Table A; HLA-B*15:01; CDKN2A; P114L; 1

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1               5


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<223> Table A; HLA-B*15:02; CDKN2A; P114L; 0

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1               5

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<220>
<223> Table A; HLA-B*15:13; CDKN2A; P114L; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; CDKN2A; P114L; 1

<400> 15665
Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


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<220>
<223> Table A; HLA-B*35:02; CDKN2A; P114L; 0

<400> 15666
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1               5


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<220>
<223> Table A; HLA-B*35:03; CDKN2A; P114L; 0

<400> 15667
Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


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<220>
<223> Table A; HLA-B*38:01; CDKN2A; P114L; 0

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1               5


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<220>
<223> Table A; HLA-B*39:01; CDKN2A; P114L; 0

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Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 15670
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<220>
<223> Table A; HLA-B*40:01; CDKN2A; P114L; 1

<400> 15670
Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CDKN2A; P114L; 0

<400> 15671
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1               5


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<220>
<223> Table A; HLA-B*48:01; CDKN2A; P114L; 0

<400> 15672
Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


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<220>
<223> Table A; HLA-B*50:01; CDKN2A; P114L; 0

<400> 15673
Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 15674
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<220>
<223> Table A; HLA-C*08:01; CDKN2A; P114L; 0

<400> 15674
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1               5


<210> 15675
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<220>
<223> Table A; HLA-C*08:03; CDKN2A; P114L; 0

<400> 15675
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1               5


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<220>

<223> Table A; HLA-C*17:01; CDKN2A; P114L; 0

<400> 15676
Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 15677
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; TP53; G266V; 1

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TP53; G266V; 0

<400> 15678
Leu Leu Val Arg Asn Ser Phe Glu Val
1               5


<210> 15679
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; AR; F814V; 0

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<210> 15680
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; AR; F814V; 0

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Leu Leu Val Ser Ile Ile Pro Val Asp Gly Leu
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<210> 15681
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; KDR; S1100F; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; KDR; S1100F; 0

<400> 15682
Leu Leu Trp Glu Ile Phe Phe Leu
1               5


<210> 15683
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; KEAP1; G480W; 0

<400> 15683
Leu Leu Tyr Ala Val Gly Gly Phe Asp Trp
1               5                   10


<210> 15684
<211> 9
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<220>
<223> Table A; HLA-A*02:01; EP300; A1629V; 1

<400> 15684
Leu Met Asp Gly Arg Asp Val Phe Leu

1 5

<210> 15685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; EP300; A1629V; 0

<400> 15685
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1 5

<210> 15686
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; EP300; A1629V; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*04:01; EP300; A1629V; 1

<400> 15687
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1 5

<210> 15688
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*05:01; EP300; A1629V; 1

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<210> 15689
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:02; EP300; A1629V; 0

<400> 15689
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1               5


<210> 15690
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<212> PRT
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<220>
<223> Table A; HLA-C*17:01; EP300; A1629V; 0

<400> 15690
Leu Met Asp Gly Arg Asp Val Phe Leu
1               5


<210> 15691
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; EP300; A1629V; 0

<400> 15691
Leu Met Asp Gly Arg Asp Val Phe Leu Thr Leu
1               5                   10


<210> 15692
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; PTPRC; Q895H; 0

<400> 15692
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15693

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; PTPRC; Q895H; 0

<400> 15693
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1               5


<210> 15694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; PTPRC; Q895H; 0

<400> 15694
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; PTPRC; Q895H; 0

<400> 15695
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTPRC; Q895H; 1

<400> 15696
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15697
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRC; Q895H; 0

<400> 15697
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1               5


<210> 15698
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PTPRC; Q895H; 0

<400> 15698
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; PTPRC; Q895H; 0

<400> 15699
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PTPRC; Q895H; 0

<400> 15700
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; PTPRC; Q895H; 0

<400> 15701
Leu Met Val His Val Glu Ala Gln Tyr
1               5


<210> 15702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PTPRC; Q895H; 1

<400> 15702
Leu Met Val His Val Glu Ala Gln Tyr Ile
1               5                   10


<210> 15703
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CREBBP; P2094L; 1

<400> 15703
Leu Asn Ile Leu Lys Ser Asn Leu
1               5


<210> 15704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32N; 0

<400> 15704
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32N; 0

<400> 15705
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32N; 0

<400> 15706
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32N; 1

<400> 15707
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32N; 0

<400> 15708
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32N; 0

<400> 15709

Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32N; 1

<400> 15710
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; D32N; 1

<400> 15711
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32N; 0

<400> 15712
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 15713
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5

<210> 15714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32N; 0

<400> 15714
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32N; 0

<400> 15715
Leu Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 15716
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32N; 0

<400> 15716
Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15717
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 15717
Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10

<210> 15718
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; POLE; P286R; 0

<400> 15718
Leu Pro Leu Lys Phe Arg Asp Ala
1               5


<210> 15719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; ERBB3; V104M; 1

<400> 15719
Leu Pro Leu Pro Asn Leu Arg Met Val
1               5


<210> 15720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; ERBB3; V104M; 0

<400> 15720
Leu Pro Leu Pro Asn Leu Arg Met Val
1               5


<210> 15721
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; ERBB3; V104M; 0

<400> 15721
Leu Pro Leu Pro Asn Leu Arg Met Val
1               5


<210> 15722
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; ERBB3; V104M; 0

<400> 15722
Leu Pro Leu Pro Asn Leu Arg Met Val
1               5


<210> 15723
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TPR; S2155L; 0

<400> 15723
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TPR; S2155L; 0

<400> 15724
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TPR; S2155L; 0

<400> 15725
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TPR; S2155L; 0

<400> 15726
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; TPR; S2155L; 0

<400> 15727
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TPR; S2155L; 0

<400> 15728
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15729
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; TPR; S2155L; 0

<400> 15729
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15730
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<212> PRT
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<220>

<223> Table A; HLA-B*54:01; TPR; S2155L; 0

<400> 15730
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; TPR; S2155L; 0

<400> 15731
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15732
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; TPR; S2155L; 0

<400> 15732
Leu Pro Gln Val Ala Gly Val Pro Arg
1               5


<210> 15733
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TPR; S2155L; 0

<400> 15733
Leu Pro Gln Val Ala Gly Val Pro Arg Phe
1               5                   10


<210> 15734
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; BIRC6; G271R; 1

<400> 15734
Leu Pro Ser Ala Arg Pro Glu Leu Arg Val
1               5                   10


<210> 15735
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; BIRC6; G271R; 0

<400> 15735
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1               5                   10


<210> 15736
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PIK3CA; E453Q; 1

<400> 15736
Leu Gln Asp Leu Leu Asn Pro Ile Gly Val
1               5                   10


<210> 15737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; EGFR; R108K; 1

<400> 15737
Leu Gln Ile Ile Lys Gly Asn Met Tyr
1               5


<210> 15738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; EGFR; R108K; 0

<400> 15738
Leu Gln Ile Ile Lys Gly Asn Met Tyr

1 5

<210> 15739
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TP53; R337L; 0

<400> 15739
Leu Gln Ile Arg Gly Arg Glu Leu
1 5

<210> 15740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; NFE2L2; E82D; 0

<400> 15740
Leu Gln Leu Asp Glu Glu Thr Gly Asp Phe Leu
1 5 10

<210> 15741
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NFE2L2; E82D; 0

<400> 15741
Leu Gln Leu Asp Glu Glu Thr Gly Asp Phe Leu
1 5 10

<210> 15742
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; NFE2L2; E82D; 0

<400> 15742
Leu Gln Leu Asp Glu Glu Thr Gly Asp Phe Leu
1 5 10

<210> 15743
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NFE2L2; E79Q; 1

<400> 15743
Leu Gln Leu Asp Glu Gln Thr Gly Glu Phe
1               5                   10


<210> 15744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; NFE2L2; E79Q; 0

<400> 15744
Leu Gln Leu Asp Glu Gln Thr Gly Glu Phe
1               5                   10


<210> 15745
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; NFE2L2; E79Q; 0

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Leu Gln Leu Asp Glu Gln Thr Gly Glu Phe Leu
1               5                   10


<210> 15746
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NFE2L2; E79Q; 0

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Leu Gln Leu Asp Glu Gln Thr Gly Glu Phe Leu
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<210> 15747

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; NFE2L2; E79Q; 0

<400> 15747
Leu Gln Leu Asp Glu Gln Thr Gly Glu Phe Leu
1               5                   10


<210> 15748
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; R93Q; 0

<400> 15748
Leu Gln Leu Phe Gln Pro Phe Leu
1               5


<210> 15749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; NFE2L2; D77G; 0

<400> 15749
Leu Gln Leu Gly Glu Glu Thr Gly Glu Phe
1               5                   10


<210> 15750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NFE2L2; D77G; 0

<400> 15750
Leu Gln Leu Gly Glu Glu Thr Gly Glu Phe
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<210> 15751
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NFE2L2; D77G; 0

<400> 15751
Leu Gln Leu Gly Glu Glu Thr Gly Glu Phe
1               5                   10


<210> 15752
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NFE2L2; D77G; 0

<400> 15752
Leu Gln Leu Gly Glu Glu Thr Gly Glu Phe Leu
1               5                   10


<210> 15753
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; NFE2L2; D77G; 0

<400> 15753
Leu Gln Leu Gly Glu Glu Thr Gly Glu Phe Leu
1               5                   10


<210> 15754
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CREBBP; P2094L; 0

<400> 15754
Leu Gln Leu Met Ala Ala Phe Ile
1               5


<210> 15755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; SMARCA4; E920K; 0

<400> 15755
Leu Gln Asn Lys Leu Pro Lys Leu Trp
1               5


<210> 15756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RSPO2; R64Q; 0

<400> 15756
Leu Gln Arg Glu Gly Met Arg Gln Tyr
1               5


<210> 15757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; RSPO2; R64Q; 0

<400> 15757
Leu Gln Arg Glu Gly Met Arg Gln Tyr
1               5


<210> 15758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; RSPO2; R64Q; 0

<400> 15758
Leu Gln Arg Glu Gly Met Arg Gln Tyr
1               5


<210> 15759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; RSPO2; R64Q; 0

<400> 15759
Leu Gln Arg Glu Gly Met Arg Gln Tyr
1               5


<210> 15760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; RSPO2; R64Q; 0

<400> 15760
Leu Gln Arg Glu Gly Met Arg Gln Tyr
1               5


<210> 15761
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; PIK3CA; E39K; 1

<400> 15761
Leu Arg Lys Ala Thr Leu Val Thr Ile
1               5


<210> 15762
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; N387K; 0

<400> 15762
Leu Arg Lys Leu Ser Asp Ala Ala
1               5


<210> 15763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; N387K; 0

<400> 15763

Leu Arg Lys Leu Ser Asp Ala Ala Thr
1 5

<210> 15764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; G266R; 0

<400> 15764
Leu Arg Arg Asn Ser Phe Glu Val Arg
1 5

<210> 15765
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PIK3CA; G1007R; 0

<400> 15765
Leu Arg Ser Gly Met Pro Glu Leu
1 5

<210> 15766
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*07:02; PIK3CA; G1007R; 1

<400> 15766
Leu Arg Ser Gly Met Pro Glu Leu
1 5

<210> 15767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; BIRC6; G271R; 0

<400> 15767
Leu Arg Val Gly Pro Gly Arg Ser Val
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<210> 15768
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; BIRC6; G271R; 0

<400> 15768
Leu Arg Val Gly Pro Gly Arg Ser Val
1               5


<210> 15769
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; BIRC6; G271R; 0

<400> 15769
Leu Arg Val Gly Pro Gly Arg Ser Val
1               5


<210> 15770
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PTPRD; S431L; 0

<400> 15770
Leu Ser Leu Thr Thr Ile Leu Val Gln Trp
1               5                   10


<210> 15771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; SMARCA4; G1162S; 0

<400> 15771
Leu Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5                   10

<210> 15772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CDKN2A; H83Y; 1

<400> 15772
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CDKN2A; H83Y; 0

<400> 15773
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CDKN2A; H83Y; 0

<400> 15774
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CDKN2A; H83Y; 0

<400> 15775
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15776
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CDKN2A; H83Y; 0

<400> 15776
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CDKN2A; H83Y; 0

<400> 15777
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CDKN2A; H83Y; 0

<400> 15778
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15779
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CDKN2A; H83Y; 0

<400> 15779
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CDKN2A; H83Y; 0

<400> 15780
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; CDKN2A; H83Y; 0

<400> 15781
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 15782
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CDKN2A; H83Y; 0

<400> 15782
Leu Thr Arg Pro Val Tyr Asp Ala Ala Arg
1               5                   10


<210> 15783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; I195T; 0

<400> 15783
Leu Thr Arg Val Glu Gly Asn Leu Arg
1               5


<210> 15784
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*33:03; TP53; I195T; 0

<400> 15784
Leu Thr Arg Val Glu Gly Asn Leu Arg
1               5


<210> 15785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAF1; S257L; 0

<400> 15785
Leu Thr Ser Thr Pro Asn Val His Met
1               5


<210> 15786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; RAF1; S257L; 0

<400> 15786
Leu Thr Ser Thr Pro Asn Val His Met
1               5


<210> 15787
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; RAF1; S257L; 0

<400> 15787
Leu Thr Ser Thr Pro Asn Val His Met Val
1               5                   10


<210> 15788
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAF1; S257L; 0

<400> 15788
Leu Thr Ser Thr Pro Asn Val His Met Val
1               5                   10


<210> 15789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PTPRD; S431L; 0

<400> 15789
Leu Thr Thr Ile Leu Val Gln Trp
1               5


<210> 15790
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PTPRD; S431L; 0

<400> 15790
Leu Thr Thr Ile Leu Val Gln Trp
1               5


<210> 15791
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SF3B1; K700E; 1

<400> 15791
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<210> 15792
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<213> Homo sapiens

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<223> Table A; HLA-A*02:06; SF3B1; K700E; 0

<400> 15792
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SF3B1; K700E; 0

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<210> 15794
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; SF3B1; K700E; 0

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<210> 15795
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

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<210> 15796
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<220>
<223> Table A; HLA-C*05:01; SF3B1; K700E; 1

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<210> 15797
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<220>
<223> Table A; HLA-C*08:02; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; SF3B1; K700E; 0

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<210> 15799
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<220>
<223> Table A; HLA-A*11:01; SF3B1; K700E; 1

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<210> 15800
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<220>
<223> Table A; HLA-A*26:03; SF3B1; K700E; 0

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1               5


<210> 15801

<211> 9
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<220>
<223> Table A; HLA-A*31:01; SF3B1; K700E; 0

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<210> 15802
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SF3B1; K700E; 0

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<210> 15803
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SF3B1; K700E; 0

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<210> 15804
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; K700E; 0

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<210> 15805
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SF3B1; K700E; 0

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<210> 15806
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; SF3B1; K700E; 1

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<210> 15807
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<212> PRT
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<220>
<223> Table A; HLA-B*35:02; SF3B1; K700E; 0

<400> 15807
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<212> PRT
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<220>
<223> Table A; HLA-B*35:08; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*35:12; SF3B1; K700E; 0

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<210> 15810
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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; SF3B1; K700E; 0

<400> 15811
Leu Val Asp Glu Gln Gln Glu Val Arg
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<210> 15812
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SF3B1; K700E; 0

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1               5                   10


<210> 15813
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SF3B1; K700E; 0

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Leu Val Asp Glu Gln Gln Glu Val Arg Thr Ile
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<210> 15814
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; SF3B1; K700E; 0

<400> 15814
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CDKN2A; P114L; 0

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<210> 15816
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; CDKN2A; P114L; 0

<400> 15816
Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 15817
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<212> PRT
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<220>
<223> Table A; HLA-B*35:02; CDKN2A; P114L; 0

<400> 15817

Leu Val Asp Leu Ala Glu Glu Leu
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<210> 15818
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CDKN2A; P114L; 0

<400> 15818
Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 15819
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CDKN2A; P114L; 0

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Leu Val Asp Leu Ala Glu Glu Leu
1               5


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<212> PRT
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<220>
<223> Table A; HLA-B*35:12; CDKN2A; P114L; 0

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1               5


<210> 15821
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CDKN2A; P114L; 0

<400> 15821
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1               5

<210> 15822
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*03:04; CDKN2A; P114L; 1

<400> 15822
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1               5


<210> 15823
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<212> PRT
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<220>
<223> Table A; HLA-C*04:01; CDKN2A; P114L; 1

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<210> 15824
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*05:01; CDKN2A; P114L; 1

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<210> 15825
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CDKN2A; P114L; 0

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<210> 15826
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:02; CDKN2A; P114L; 1

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<210> 15827
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<212> PRT
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<220>
<223> Table A; HLA-C*17:01; CDKN2A; P114L; 0

<400> 15827
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<210> 15828
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*17:01; TRRAP; S722F; 0

<400> 15828
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<210> 15829
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TRRAP; S722F; 0

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1               5


<210> 15830
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; TRRAP; S722F; 0

<400> 15830
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1               5


<210> 15831
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; TRRAP; S722F; 0

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1               5


<210> 15832
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*02:02; TRRAP; S722F; 0

<400> 15832
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1               5


<210> 15833
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<212> PRT
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<220>
<223> Table A; HLA-C*17:01; TRRAP; S722F; 0

<400> 15833
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1               5


<210> 15834
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TRRAP; S722F; 0

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<210> 15835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TRRAP; S722F; 0

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<210> 15836
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; TRRAP; S722F; 0

<400> 15836
Leu Val Phe Gly Ser Val Phe Leu Phe Ala
1               5                   10


<210> 15837
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; TRRAP; S722F; 0

<400> 15837
Leu Val Phe Gly Ser Val Phe Leu Phe Ala Ala
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<210> 15838
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<212> PRT
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<220>

<223> Table A; HLA-A*68:02; ACSL3; R232Q; 0

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Leu Val Pro Arg Leu Gln His Ile Ile Thr Val
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<210> 15839
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; HIST1H3B; E74K; 1

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<210> 15840
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; HIST1H3B; E74K; 0

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<210> 15841
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; HIST1H3B; E74K; 0

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<210> 15842
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; HIST1H3B; E74K; 0

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<210> 15843
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<212> PRT
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<220>
<223> Table A; HLA-C*02:02; HIST1H3B; E74K; 0

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<210> 15844
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<220>
<223> Table A; HLA-A*03:01; HIST1H3B; E74K; 1

<400> 15844
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<210> 15845
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; TP53; G266V; 0

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<210> 15846
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; TP53; G266V; 0

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<210> 15847
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; G266V; 0

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<210> 15848
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; G266V; 0

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<210> 15849
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<212> PRT
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<223> Table A; HLA-A*33:03; TP53; G266V; 0

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<210> 15850
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; CTNNB1; D32V; 1

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<210> 15851
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32V; 0

<400> 15851
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<210> 15852
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32V; 0

<400> 15852
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1               5


<210> 15853
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; D32V; 0

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<210> 15854
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32V; 0

<400> 15854
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<210> 15855

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; D32V; 0

<400> 15855
Leu Val Ser Gly Ile His Ser Gly Ala
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<210> 15856
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; D32V; 0

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Leu Val Ser Gly Ile His Ser Gly Ala
1               5


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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32V; 0

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Leu Val Ser Gly Ile His Ser Gly Ala
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<210> 15858
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32V; 1

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<210> 15859
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32V; 0

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<210> 15860
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; D32V; 1

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<210> 15861
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

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<210> 15862
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32V; 1

<400> 15862
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<210> 15863
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32V; 1

<400> 15863
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<210> 15864
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32V; 0

<400> 15864
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32V; 0

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1               5


<210> 15866
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32V; 0

<400> 15866
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1               5


<210> 15867
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<212> PRT
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<220>
<223> Table A; HLA-B*55:01; CTNNB1; D32V; 0

<400> 15867
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1               5


<210> 15868
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<212> PRT
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<220>
<223> Table A; HLA-B*56:01; CTNNB1; D32V; 0

<400> 15868
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1               5


<210> 15869
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32V; 0

<400> 15869
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<210> 15870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; D32V; 0

<400> 15870
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<210> 15871
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; CTNNB1; D32V; 1

<400> 15871

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1 5 10

<210> 15872
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; D32V; 1

<400> 15872
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1 5 10

<210> 15873
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

<400> 15873
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1 5 10

<210> 15874
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32V; 0

<400> 15874
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1 5 10

<210> 15875
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32V; 0

<400> 15875
Leu Val Ser Gly Ile His Ser Gly Ala Thr
1 5 10

<210> 15876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32V; 0

<400> 15876
Leu Val Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15877
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

<400> 15877
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1               5                   10


<210> 15878
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; AR; F814V; 0

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1               5                   10


<210> 15879
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; AR; F814V; 0

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<210> 15880
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; KRAS; G12A; 1

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1               5


<210> 15881
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; KRAS; G12A; 0

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1               5


<210> 15882
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; KRAS; G12A; 0

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<210> 15883
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; KRAS; G12A; 0

<400> 15883
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<210> 15884
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G12A; 0

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<210> 15885
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; KRAS; G12A; 0

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Leu Val Val Val Gly Ala Ala Gly Val
1               5


<210> 15886
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12A; 1

<400> 15886
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 15887
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12A; 0

<400> 15887
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 15888
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12A; 1

<400> 15888
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 15889
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12A; 1

<400> 15889
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 15890
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12A; 0

<400> 15890
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 15891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12C; 0

<400> 15891
Leu Val Val Val Gly Ala Cys Gly Val
1               5


<210> 15892
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:01; NRAS; G12C; 1

<400> 15892
Leu Val Val Val Gly Ala Cys Gly Val
1               5


<210> 15893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NRAS; G12C; 0

<400> 15893
Leu Val Val Val Gly Ala Cys Gly Val
1               5


<210> 15894
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12C; 1

<400> 15894
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 15895
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12C; 0

<400> 15895
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 15896
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12C; 1

<400> 15896
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 15897
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12C; 0

<400> 15897
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 15898
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G12C; 1

<400> 15898
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 15899
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G12C; 0

<400> 15899
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 15900
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G12C; 0

<400> 15900
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys

1 5 10

<210> 15901
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NRAS; G12C; 0

<400> 15901
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1 5 10

<210> 15902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G12D; 1

<400> 15902
Leu Val Val Val Gly Ala Asp Gly Val
1 5

<210> 15903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12D; 1

<400> 15903
Leu Val Val Val Gly Ala Asp Gly Val
1 5

<210> 15904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; NRAS; G12D; 0

<400> 15904
Leu Val Val Val Gly Ala Asp Gly Val
1 5

<210> 15905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NRAS; G12D; 0

<400> 15905
Leu Val Val Val Gly Ala Asp Gly Val
1               5


<210> 15906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; NRAS; G12D; 0

<400> 15906
Leu Val Val Val Gly Ala Asp Gly Val
1               5


<210> 15907
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12D; 1

<400> 15907
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15908
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12D; 1

<400> 15908
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15909

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12D; 1

<400> 15909
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15910
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12D; 1

<400> 15910
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15911
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G12D; 1

<400> 15911
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15912
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G12D; 0

<400> 15912
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15913
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G12D; 1

<400> 15913
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15914
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G12D; 0

<400> 15914
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15915
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NRAS; G12D; 0

<400> 15915
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 15916
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G13D; 0

<400> 15916
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 15917
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G13D; 1

<400> 15917
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 15918
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G13D; 1

<400> 15918
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 15919
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G13D; 0

<400> 15919
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 15920
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G13R; 0

<400> 15920
Leu Val Val Val Gly Ala Gly Arg
1               5


<210> 15921
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G13R; 0

<400> 15921
Leu Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 15922
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G13R; 0

<400> 15922
Leu Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 15923
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G13R; 0

<400> 15923
Leu Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 15924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KRAS; G12R; 0

<400> 15924
Leu Val Val Val Gly Ala Arg Gly Val
1               5


<210> 15925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; KRAS; G12R; 0

<400> 15925

Leu Val Val Val Gly Ala Arg Gly Val
1               5


<210> 15926
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KRAS; G12S; 0

<400> 15926
Leu Val Val Val Gly Ala Ser Gly Val
1               5


<210> 15927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G12S; 0

<400> 15927
Leu Val Val Val Gly Ala Ser Gly Val
1               5


<210> 15928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12S; 0

<400> 15928
Leu Val Val Val Gly Ala Ser Gly Val
1               5


<210> 15929
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12S; 1

<400> 15929
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10

<210> 15930
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12S; 0

<400> 15930
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 15931
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12S; 1

<400> 15931
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 15932
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12S; 0

<400> 15932
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 15933
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12S; 0

<400> 15933
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10

<210> 15934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KRAS; G12V; 1

<400> 15934
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 15935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KRAS; G12V; 0

<400> 15935
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 15936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G12V; 1

<400> 15936
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 15937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12V; 1

<400> 15937
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 15938
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G12V; 1

<400> 15938
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 15939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12V; 1

<400> 15939
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 15940
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12V; 1

<400> 15940
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 15941
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12V; 1

<400> 15941
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 15942
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12V; 1

<400> 15942
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 15943
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12V; 1

<400> 15943
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 15944
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12V; 1

<400> 15944
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 15945
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNBD1; L396P; 1

<400> 15945
Leu Val Tyr Met Gly Lys Pro Lys
1               5


<210> 15946
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*03:01; CNBD1; L396P; 1

<400> 15946
Leu Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5                   10


<210> 15947
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CNBD1; L396P; 0

<400> 15947
Leu Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5                   10


<210> 15948
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CNBD1; L396P; 1

<400> 15948
Leu Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5                   10


<210> 15949
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CNBD1; L396P; 0

<400> 15949
Leu Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5                   10


<210> 15950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; KEAP1; G480W; 0

<400> 15950
Leu Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 15951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; KEAP1; G480W; 1

<400> 15951
Leu Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 15952
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 15952
Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 15953
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32Y; 0

<400> 15953
Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 15954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32Y; 0

<400> 15954
Leu Tyr Ser Gly Ile His Ser Gly Ala

1 5

<210> 15955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32Y; 0

<400> 15955
Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5

<210> 15956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32Y; 1

<400> 15956
Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5

<210> 15957
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32Y; 0

<400> 15957
Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5

<210> 15958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 15958
Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5

<210> 15959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32Y; 0

<400> 15959
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32Y; 0

<400> 15960
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; D32Y; 1

<400> 15961
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32Y; 0

<400> 15962
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15963

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32Y; 0

<400> 15963
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32Y; 0

<400> 15964
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32Y; 0

<400> 15965
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CTNNB1; D32Y; 0

<400> 15966
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15967
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; CTNNB1; D32Y; 0

<400> 15967
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 15968
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32Y; 1

<400> 15968
Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15969
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32Y; 1

<400> 15969
Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15970
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32Y; 0

<400> 15970
Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15971
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32Y; 1

<400> 15971
Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; D32Y; 1

<400> 15972
Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15973
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32Y; 0

<400> 15973
Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 15974
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; PIK3R1; N564D; 0

<400> 15974
Met Asp Ser Ile Lys Pro Asp Leu
1               5


<210> 15975
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3R1; N564D; 0

<400> 15975
Met Asp Ser Ile Lys Pro Asp Leu
1               5


<210> 15976
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3R1; N564D; 0

<400> 15976
Met Asp Ser Ile Lys Pro Asp Leu
1               5


<210> 15977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CDH1; D254Y; 0

<400> 15977
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CDH1; D254Y; 1

<400> 15978
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15979
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CDH1; D254Y; 0

<400> 15979

Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; CDH1; D254Y; 0

<400> 15980
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CDH1; D254Y; 0

<400> 15981
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15982
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; CDH1; D254Y; 1

<400> 15982
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CDH1; D254Y; 0

<400> 15983
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5

<210> 15984
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CDH1; D254Y; 0

<400> 15984
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15985
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; CDH1; D254Y; 0

<400> 15985
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15986
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CDH1; D254Y; 0

<400> 15986
Met Glu Ile Leu Ile Thr Val Thr Tyr
1               5


<210> 15987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; SPOP; R121Q; 0

<400> 15987
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5

<210> 15988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; SPOP; R121Q; 0

<400> 15988
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; SPOP; R121Q; 1

<400> 15989
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15990
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; SPOP; R121Q; 0

<400> 15990
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; SPOP; R121Q; 1

<400> 15991
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15992
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SPOP; R121Q; 0

<400> 15992
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; SPOP; R121Q; 0

<400> 15993
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; SPOP; R121Q; 1

<400> 15994
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15995
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:03; SPOP; R121Q; 1

<400> 15995
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SPOP; R121Q; 0

<400> 15996
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SPOP; R121Q; 0

<400> 15997
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; SPOP; R121Q; 0

<400> 15998
Met Glu Ser Gln Gln Ala Tyr Arg Phe
1               5


<210> 15999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; TP53; C141Y; 0

<400> 15999
Met Phe Cys Gln Leu Ala Lys Thr Tyr
1               5


<210> 16000
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*39:01; PIK3CA; H1047L; 0

<400> 16000
Met Lys Gln Met Asn Asp Ala Leu
1               5


<210> 16001
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PIK3CA; H1047L; 0

<400> 16001
Met Lys Gln Met Asn Asp Ala Leu
1               5


<210> 16002
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; PIK3CA; H1047Y; 0

<400> 16002
Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 16003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PIK3CA; G1007R; 1

<400> 16003
Met Leu Arg Ser Gly Met Pro Glu Leu
1               5


<210> 16004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; G1007R; 0

<400> 16004
Met Leu Arg Ser Gly Met Pro Glu Leu
1               5


<210> 16005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; G1007R; 0

<400> 16005
Met Leu Arg Ser Gly Met Pro Glu Leu
1               5


<210> 16006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; G1007R; 0

<400> 16006
Met Leu Arg Ser Gly Met Pro Glu Leu
1               5


<210> 16007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PIK3CA; G1007R; 1

<400> 16007
Met Leu Arg Ser Gly Met Pro Glu Leu
1               5


<210> 16008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PIK3CA; G1007R; 0

<400> 16008
Met Leu Arg Ser Gly Met Pro Glu Leu

1 5

<210> 16009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PIK3CA; G1007R; 0

<400> 16009
Met Leu Arg Ser Gly Met Pro Glu Leu
1 5

<210> 16010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; PIK3CA; G1007R; 0

<400> 16010
Met Leu Arg Ser Gly Met Pro Glu Leu
1 5

<210> 16011
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; G1007R; 0

<400> 16011
Met Met Leu Arg Ser Gly Met Pro Glu Leu
1 5 10

<210> 16012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; MTOR; E1799K; 0

<400> 16012
Met Asn Phe Lys Ala Val Leu His Tyr
1 5

<210> 16013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; MTOR; E1799K; 1

<400> 16013
Met Asn Phe Lys Ala Val Leu His Tyr
1               5


<210> 16014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; R248Q; 0

<400> 16014
Met Asn Gln Arg Pro Ile Leu Thr Ile
1               5


<210> 16015
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R249M; 0

<400> 16015
Met Pro Ile Leu Thr Ile Ile Thr
1               5


<210> 16016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; R249M; 0

<400> 16016
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16017

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; R249M; 1

<400> 16017
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; R249M; 1

<400> 16018
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; TP53; R249M; 0

<400> 16019
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TP53; R249M; 0

<400> 16020
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16021
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; R249M; 1

<400> 16021
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; TP53; R249M; 0

<400> 16022
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TP53; R249M; 0

<400> 16023
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; TP53; R249M; 0

<400> 16024
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; TP53; R249M; 0

<400> 16025
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; R249M; 0

<400> 16026
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R249M; 0

<400> 16027
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; TP53; R249M; 0

<400> 16028
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; TP53; R249M; 0

<400> 16029
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16030
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; TP53; R249M; 0

<400> 16030
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; TP53; R249M; 0

<400> 16031
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 16032
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CHD4; R975H; 1

<400> 16032
Met Pro Ser Lys Thr Glu Leu Ile Val His
1               5                   10


<210> 16033
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CHD4; R975H; 0

<400> 16033

Met Pro Ser Lys Thr Glu Leu Ile Val His
1               5                   10


<210> 16034
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CHD4; R975H; 0

<400> 16034
Met Pro Ser Lys Thr Glu Leu Ile Val His
1               5                   10


<210> 16035
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CHD4; R975H; 0

<400> 16035
Met Pro Ser Lys Thr Glu Leu Ile Val His
1               5                   10


<210> 16036
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CHD4; R975H; 0

<400> 16036
Met Pro Ser Lys Thr Glu Leu Ile Val His
1               5                   10


<210> 16037
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CHD4; R975H; 0

<400> 16037
Met Pro Ser Lys Thr Glu Leu Ile Val His Val
1               5                   10

<210> 16038
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CHD4; R975H; 0

<400> 16038
Met Pro Ser Lys Thr Glu Leu Ile Val His Val
1               5                   10


<210> 16039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; POLQ; R995Q; 0

<400> 16039
Met Gln Thr Ile Trp Val Thr Gly Arg
1               5


<210> 16040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; XPO1; R749Q; 1

<400> 16040
Met Gln Thr Val Lys Arg Glu Thr Leu
1               5


<210> 16041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; XPO1; R749Q; 0

<400> 16041
Met Gln Thr Val Lys Arg Glu Thr Leu
1               5

<210> 16042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; XPO1; R749Q; 1

<400> 16042
Met Gln Thr Val Lys Arg Glu Thr Leu
1               5


<210> 16043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; XPO1; R749Q; 0

<400> 16043
Met Gln Thr Val Lys Arg Glu Thr Leu
1               5


<210> 16044
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; ARHGEF12; R113Q; 0

<400> 16044
Met Arg Ala Gly Val Gln Thr Gly Asp Gln Ile
1               5                   10


<210> 16045
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; CTNNB1; K335I; 1

<400> 16045
Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 16046
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; K335I; 0

<400> 16046
Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 16047
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; K335I; 0

<400> 16047
Met Arg Thr Tyr Thr Tyr Glu Ile
1               5


<210> 16048
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; ARID2; S990L; 0

<400> 16048
Met Ser Leu Ser Ser Thr Pro Gln
1               5


<210> 16049
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; C176F; 1

<400> 16049
Met Thr Glu Val Val Arg Arg Phe
1               5


<210> 16050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; C176Y; 0

<400> 16050
Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 16051
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTPRC; Q895H; 1

<400> 16051
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16052
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRC; Q895H; 0

<400> 16052
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16053
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PTPRC; Q895H; 1

<400> 16053
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16054
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:08; PTPRC; Q895H; 0

<400> 16054
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16055
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; PTPRC; Q895H; 0

<400> 16055
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16056
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; PTPRC; Q895H; 0

<400> 16056
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16057
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PTPRC; Q895H; 0

<400> 16057
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16058
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; PTPRC; Q895H; 0

<400> 16058
Met Val His Val Glu Ala Gln Tyr
1               5


<210> 16059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PTPRC; Q895H; 0

<400> 16059
Met Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 16060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PTPRC; Q895H; 0

<400> 16060
Met Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 16061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PTPRC; Q895H; 0

<400> 16061
Met Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 16062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PTPRC; Q895H; 0

<400> 16062
Met Val His Val Glu Ala Gln Tyr Ile

1 5

<210> 16063
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PTPRC; Q895H; 0

<400> 16063
Met Val His Val Glu Ala Gln Tyr Ile
1 5

<210> 16064
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PTPRC; Q895H; 0

<400> 16064
Met Val His Val Glu Ala Gln Tyr Ile
1 5

<210> 16065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; PTPRC; Q895H; 0

<400> 16065
Met Val His Val Glu Ala Gln Tyr Ile
1 5

<210> 16066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CNTNAP2; T373M; 0

<400> 16066
Met Val Pro Val Phe Phe Asn Ala Thr
1 5

<210> 16067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; ERBB3; V104M; 1

<400> 16067
Met Val Arg Gly Thr Gln Val Tyr
1               5


<210> 16068
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; ERBB3; V104M; 1

<400> 16068
Met Val Arg Gly Thr Gln Val Tyr
1               5


<210> 16069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; ERBB3; V104M; 0

<400> 16069
Met Val Arg Gly Thr Gln Val Tyr
1               5


<210> 16070
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; ERBB3; V104M; 0

<400> 16070
Met Val Arg Gly Thr Gln Val Tyr
1               5


<210> 16071

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; V216M; 1

<400> 16071
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16072
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; V216M; 0

<400> 16072
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16073
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; V216M; 0

<400> 16073
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16074
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TP53; V216M; 0

<400> 16074
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16075
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TP53; V216M; 0

<400> 16075
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16076
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; V216M; 0

<400> 16076
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1               5                   10


<210> 16077
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TP53; V216M; 0

<400> 16077
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16078
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; TP53; V216M; 0

<400> 16078
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16079
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; TP53; V216M; 0

<400> 16079
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16080
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; V216M; 0

<400> 16080
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16081
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; V216M; 0

<400> 16081
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16082
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; TP53; V216M; 0

<400> 16082
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1               5                   10


<210> 16083
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; TP53; V216M; 0

<400> 16083
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16084
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<212> PRT
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<220>
<223> Table A; HLA-B*35:02; TP53; V216M; 0

<400> 16084
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16085
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; TP53; V216M; 0

<400> 16085
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16086
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<212> PRT
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<220>
<223> Table A; HLA-B*35:12; TP53; V216M; 0

<400> 16086
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16087
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; TP53; V216M; 0

<400> 16087

Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16088
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; V216M; 0

<400> 16088
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16089
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; TP53; V216M; 0

<400> 16089
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16090
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; V216M; 0

<400> 16090
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 16091
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; V216M; 0

<400> 16091
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1               5                   10

<210> 16092
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; RAC1; P29L; 1

<400> 16092
Asn Ala Phe Leu Gly Glu Tyr Ile
1               5


<210> 16093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RAC1; P29L; 1

<400> 16093
Asn Ala Phe Leu Gly Glu Tyr Ile Pro
1               5


<210> 16094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; RAC1; P29L; 0

<400> 16094
Asn Ala Phe Leu Gly Glu Tyr Ile Pro
1               5


<210> 16095
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; RAC1; P29L; 0

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Asn Ala Phe Leu Gly Glu Tyr Ile Pro
1               5

<210> 16096
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 16096
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16097
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<220>
<223> Table A; HLA-B*27:02; RAC1; P29L; 0

<400> 16097
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16098
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; RAC1; P29L; 1

<400> 16098
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16099
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<220>
<223> Table A; HLA-B*48:01; RAC1; P29L; 0

<400> 16099
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16100
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; RAC1; P29L; 0

<400> 16100
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16101
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; RAC1; P29L; 0

<400> 16101
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16102
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RAC1; P29L; 1

<400> 16102
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16103
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; RAC1; P29L; 0

<400> 16103
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16104
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; RAC1; P29L; 0

<400> 16104
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16105
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 16105
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16106
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; RAC1; P29L; 0

<400> 16106
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16107
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; RAC1; P29L; 1

<400> 16107
Asn Ala Phe Leu Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16108
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<212> PRT
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<220>

<223> Table A; HLA-B*51:01; RAC1; P29S; 1

<400> 16108
Asn Ala Phe Ser Gly Glu Tyr Ile
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<210> 16109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RAC1; P29S; 1

<400> 16109
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<210> 16110
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; RAC1; P29S; 0

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1               5


<210> 16111
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; RAC1; P29S; 0

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Asn Ala Phe Ser Gly Glu Tyr Ile Pro
1               5


<210> 16112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; RAC1; P29S; 0

<400> 16112
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1               5


<210> 16113
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; RAC1; P29S; 0

<400> 16113
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1               5


<210> 16114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; RAC1; P29S; 1

<400> 16114
Asn Ala Phe Ser Gly Glu Tyr Ile Pro
1               5


<210> 16115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; RAC1; P29S; 0

<400> 16115
Asn Ala Phe Ser Gly Glu Tyr Ile Pro
1               5


<210> 16116
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; RAC1; P29S; 0

<400> 16116
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr

1 5 10

<210> 16117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; RAC1; P29S; 0

<400> 16117
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1 5 10

<210> 16118
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; RAC1; P29S; 1

<400> 16118
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1 5 10

<210> 16119
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29S; 0

<400> 16119
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1 5 10

<210> 16120
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; RAC1; P29S; 1

<400> 16120
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1 5 10

<210> 16121
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RAC1; P29S; 0

<400> 16121
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16122
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; RAC1; P29S; 1

<400> 16122
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1               5                   10


<210> 16123
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; RAC1; P29S; 0

<400> 16123
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16124
<211> 10
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<220>
<223> Table A; HLA-B*48:01; RAC1; P29S; 0

<400> 16124
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16125

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; RAC1; P29S; 0

<400> 16125
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1               5                   10


<210> 16126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; RAC1; P29S; 0

<400> 16126
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr
1               5                   10


<210> 16127
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; RAC1; P29S; 0

<400> 16127
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1               5                   10


<210> 16128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; RAC1; P29S; 0

<400> 16128
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1               5                   10


<210> 16129
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; RAC1; P29S; 0

<400> 16129
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1               5                   10


<210> 16130
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; RAC1; P29S; 1

<400> 16130
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1               5                   10


<210> 16131
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; P29S; 0

<400> 16131
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1               5                   10


<210> 16132
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; RAC1; P29S; 0

<400> 16132
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16133
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; RAC1; P29S; 0

<400> 16133
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16134
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; RAC1; P29S; 0

<400> 16134
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16135
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; RAC1; P29S; 0

<400> 16135
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16136
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29S; 0

<400> 16136
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16137
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; RAC1; P29S; 0

<400> 16137
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16138
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; RAC1; P29S; 1

<400> 16138
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16139
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; RAC1; P29S; 0

<400> 16139
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16140
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; RAC1; P29S; 1

<400> 16140
Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1               5                   10


<210> 16141
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; RAC1; P29S; 0

<400> 16141

Asn Ala Phe Ser Gly Glu Tyr Ile Pro Thr Val
1 5 10

<210> 16142
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; PIK3CA; H1047L; 1

<400> 16142
Asn Asp Ala Leu His Gly Gly Trp
1 5

<210> 16143
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; H1047L; 1

<400> 16143
Asn Asp Ala Leu His Gly Gly Trp
1 5

<210> 16144
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; H1047L; 1

<400> 16144
Asn Asp Ala Leu His Gly Gly Trp
1 5

<210> 16145
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; H1047L; 0

<400> 16145
Asn Asp Ala Leu His Gly Gly Trp
1 5

<210> 16146
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; H1047Q; 0

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Asn Asp Ala Gln His Gly Gly Trp
1               5


<210> 16147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; H1047Y; 0

<400> 16147
Asn Asp Ala Tyr His Gly Gly Trp
1               5


<210> 16148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; GRIN2A; S1425L; 0

<400> 16148
Asn Asp Val Tyr Ile Leu Glu His Val
1               5


<210> 16149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CHST11; A159T; 0

<400> 16149
Asn Glu Ala His Val Ser Thr Asn Leu
1               5

<210> 16150
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CHST11; A159T; 0

<400> 16150
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CHST11; A159T; 0

<400> 16151
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; CHST11; A159T; 1

<400> 16152
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CHST11; A159T; 0

<400> 16153
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16154
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CHST11; A159T; 0

<400> 16154
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CHST11; A159T; 1

<400> 16155
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CHST11; A159T; 0

<400> 16156
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CHST11; A159T; 0

<400> 16157
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; CHST11; A159T; 1

<400> 16158
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CHST11; A159T; 1

<400> 16159
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CHST11; A159T; 0

<400> 16160
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CHST11; A159T; 0

<400> 16161
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16162
<211> 9
<212> PRT
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<220>

<223> Table A; HLA-B*58:01; CHST11; A159T; 0

<400> 16162
Asn Glu Ala His Val Ser Thr Asn Leu
1               5


<210> 16163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CHST11; A159T; 0

<400> 16163
Asn Glu Ala His Val Ser Thr Asn Leu Lys
1               5                   10


<210> 16164
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PPP2R1A; R28C; 1

<400> 16164
Asn Glu Asp Val Gln Leu Cys Leu
1               5


<210> 16165
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PPP2R1A; R28C; 0

<400> 16165
Asn Glu Asp Val Gln Leu Cys Leu
1               5


<210> 16166
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PPP2R1A; R28C; 0

<400> 16166
Asn Glu Asp Val Gln Leu Cys Leu
1               5


<210> 16167
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PPP2R1A; R28C; 0

<400> 16167
Asn Glu Asp Val Gln Leu Cys Leu Asn Ser Ile
1               5                   10


<210> 16168
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTNND1; A781T; 0

<400> 16168
Asn Glu Val Ile Thr Glu Asn Leu
1               5


<210> 16169
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNND1; A781T; 0

<400> 16169
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<210> 16170
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; CTNND1; A781T; 0

<400> 16170
Asn Glu Val Ile Thr Glu Asn Leu

1 5

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; CTNND1; A781T; 0

<400> 16171
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<210> 16172
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CTNND1; A781T; 0

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1 5

<210> 16173
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNND1; A781T; 0

<400> 16173
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<220>
<223> Table A; HLA-B*41:02; CTNND1; A781T; 0

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<220>
<223> Table A; HLA-B*44:05; CTNND1; A781T; 0

<400> 16175
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1               5


<210> 16176
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<220>
<223> Table A; HLA-B*49:01; CTNND1; A781T; 0

<400> 16176
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<210> 16177
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<220>
<223> Table A; HLA-B*58:01; CTNND1; A781T; 0

<400> 16177
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<220>
<223> Table A; HLA-A*02:05; CTNND1; A781T; 0

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<220>
<223> Table A; HLA-B*40:02; CTNND1; A781T; 0

<400> 16179
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<220>
<223> Table A; HLA-B*50:01; CTNND1; A781T; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CTNND1; A781T; 0

<400> 16181
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<210> 16182
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; CTNND1; A781T; 0

<400> 16182
Asn Glu Val Ile Thr Glu Asn Leu Glu Ala Ala
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<210> 16183
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNND1; A781T; 0

<400> 16183
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<210> 16184
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*14:02; MTOR; E1799K; 0

<400> 16184
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<210> 16185
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; RGS7; R44C; 0

<400> 16185
Asn Gly Ile Pro Ile Cys Thr Val
1               5


<210> 16186
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; RGS7; R44C; 0

<400> 16186
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<210> 16187
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; RGS7; R44C; 1

<400> 16187
Asn Gly Ile Pro Ile Cys Thr Val
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<210> 16188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; R108H; 0

<400> 16188
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1               5


<210> 16189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; R108H; 0

<400> 16189
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1               5


<210> 16190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PIK3CA; K111N; 0

<400> 16190
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<210> 16191
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; K335I; 0

<400> 16191
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1               5                   10


<210> 16192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SMARCA4; E920K; 0

<400> 16192
Asn Lys Leu Pro Lys Leu Trp Ala Leu
1               5


<210> 16193
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; ARID2; S297F; 0

<400> 16193
Asn Leu Phe Phe Glu Glu Gly Asn Val Lys
1               5                   10


<210> 16194
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; ARID2; S297F; 1

<400> 16194
Asn Leu Phe Phe Glu Glu Gly Asn Val Lys Leu
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<210> 16195
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ARID2; S297F; 0

<400> 16195

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1 5 10

<210> 16196
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ARID2; S297F; 0

<400> 16196
Asn Leu Phe Phe Glu Glu Gly Asn Val Lys Leu
1 5 10

<210> 16197
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; G266E; 1

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Asn Leu Leu Glu Arg Asn Ser Phe
1 5

<210> 16198
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; G266E; 1

<400> 16198
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1 5 10

<210> 16199
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; G266E; 0

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Asn Leu Leu Glu Arg Asn Ser Phe Glu Val
1 5 10

<210> 16200
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TP53; G266E; 0

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<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TP53; E271K; 0

<400> 16201
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1               5                   10


<210> 16202
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; ROBO2; D1014N; 0

<400> 16202
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1               5                   10


<210> 16203
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; R248L; 0

<400> 16203
Asn Leu Arg Pro Ile Leu Thr Ile
1               5

<210> 16204
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; R248L; 0

<400> 16204
Asn Leu Arg Pro Ile Leu Thr Ile
1               5


<210> 16205
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; TP53; R248L; 0

<400> 16205
Asn Leu Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 16206
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TP53; R248L; 0

<400> 16206
Asn Leu Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 16207
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; R248L; 0

<400> 16207
Asn Leu Arg Pro Ile Leu Thr Ile Ile Thr Leu
1               5                   10


<210> 16208
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; R248L; 0

<400> 16208
Asn Leu Arg Pro Ile Leu Thr Ile Ile Thr Leu
1               5                   10


<210> 16209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SF3B1; R625H; 1

<400> 16209
Asn Met Asp Glu Tyr Val His Asn Thr
1               5


<210> 16210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SF3B1; R625H; 0

<400> 16210
Asn Met Asp Glu Tyr Val His Asn Thr
1               5


<210> 16211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SF3B1; R625H; 0

<400> 16211
Asn Met Asp Glu Tyr Val His Asn Thr
1               5


<210> 16212
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R625H; 0

<400> 16212
Asn Met Asp Glu Tyr Val His Asn Thr Thr
1               5                   10


<210> 16213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; ABI1; K445N; 0

<400> 16213
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1               5


<210> 16214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; GLI1; R637Q; 0

<400> 16214
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1               5


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<220>
<223> Table A; HLA-A*33:03; GLI1; R637Q; 0

<400> 16215
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1               5


<210> 16216
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*68:01; GLI1; R637Q; 0

<400> 16216
Asn Pro Asn Ala Gly Val Thr Gln Arg
1               5

<210> 16217
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; GLI1; R637Q; 0

<400> 16217
Asn Pro Asn Ala Gly Val Thr Gln Arg Ala
1               5                   10

<210> 16218
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; GLI1; R637Q; 0

<400> 16218
Asn Pro Asn Ala Gly Val Thr Gln Arg Ala
1               5                   10

<210> 16219
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; GLI1; R637Q; 0

<400> 16219
Asn Pro Asn Ala Gly Val Thr Gln Arg Ala
1               5                   10

<210> 16220
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; PTPRT; L695F; 1

<400> 16220
Asn Pro Pro Phe Ser Pro Leu Lys Ser Tyr
1               5                   10


<210> 16221
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; BMP5; R208Q; 0

<400> 16221
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1               5


<210> 16222
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; BMP5; R208Q; 0

<400> 16222
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1               5


<210> 16223
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; BMP5; R208Q; 0

<400> 16223
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1               5


<210> 16224
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; BMP5; R208Q; 0

<400> 16224
Asn Gln Phe Glu Asn Glu Thr Ile Lys Ile

1 5 10

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<220>
<223> Table A; HLA-A*02:05; BMP5; R208Q; 0

<400> 16225
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1 5 10

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<220>
<223> Table A; HLA-A*02:06; BMP5; R208Q; 0

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1 5 10

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<220>
<223> Table A; HLA-A*02:08; BMP5; R208Q; 0

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1 5 10

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<220>
<223> Table A; HLA-B*13:02; BMP5; R208Q; 0

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1 5 10

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<220>
<223> Table A; HLA-B*38:01; BMP5; R208Q; 0

<400> 16229
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1               5                   10


<210> 16230
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; BMP5; R208Q; 0

<400> 16230
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1               5                   10


<210> 16231
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<220>
<223> Table A; HLA-B*13:02; TP53; R248Q; 1

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1               5


<210> 16232
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; TP53; R248Q; 1

<400> 16232
Asn Gln Arg Pro Ile Leu Thr Ile
1               5


<210> 16233

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<220>
<223> Table A; HLA-B*15:01; TP53; R248Q; 1

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1               5


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<220>
<223> Table A; HLA-B*15:10; TP53; R248Q; 0

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1               5


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<220>
<223> Table A; HLA-B*39:06; TP53; R248Q; 0

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1               5


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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; R248Q; 1

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1               5


<210> 16237
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; R248Q; 0

<400> 16237
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<220>
<223> Table A; HLA-A*02:04; TP53; R248Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; TP53; R248Q; 0

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1               5


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<220>
<223> Table A; HLA-B*13:02; TP53; R248Q; 1

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1               5


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<220>
<223> Table A; HLA-B*15:10; TP53; R248Q; 0

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1               5


<210> 16242
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<220>
<223> Table A; HLA-B*39:06; TP53; R248Q; 0

<400> 16242
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1               5


<210> 16243
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<220>
<223> Table A; HLA-B*48:01; TP53; R248Q; 0

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1               5


<210> 16244
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<212> PRT
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<220>
<223> Table A; HLA-C*12:03; TP53; R248Q; 1

<400> 16244
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1               5


<210> 16245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ARID2; S990L; 0

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1               5


<210> 16246
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<220>
<223> Table A; HLA-A*02:06; ARID2; S990L; 0

<400> 16246
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1               5


<210> 16247
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; ARID2; S990L; 0

<400> 16247
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16248
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; ARID2; S990L; 0

<400> 16248
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; ARID2; S990L; 0

<400> 16249

Asn Gln Val Pro Thr Ala Met Ser Leu
1 5

<210> 16250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; ARID2; S990L; 0

<400> 16250
Asn Gln Val Pro Thr Ala Met Ser Leu
1 5

<210> 16251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; ARID2; S990L; 0

<400> 16251
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1 5

<210> 16252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; ARID2; S990L; 0

<400> 16252
Asn Gln Val Pro Thr Ala Met Ser Leu
1 5

<210> 16253
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; ARID2; S990L; 0

<400> 16253
Asn Gln Val Pro Thr Ala Met Ser Leu
1 5

<210> 16254
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:10; ARID2; S990L; 0

<400> 16254
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16255
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; ARID2; S990L; 0

<400> 16255
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16256
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; ARID2; S990L; 0

<400> 16256
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16257
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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; ARID2; S990L; 0

<400> 16257
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5

<210> 16258
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; ARID2; S990L; 0

<400> 16258
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16259
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; ARID2; S990L; 0

<400> 16259
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16260
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; ARID2; S990L; 0

<400> 16260
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; ARID2; S990L; 0

<400> 16261
Asn Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 16262
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; ARID2; S990L; 0

<400> 16262
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<220>
<223> Table A; HLA-B*44:05; ARID2; S990L; 0

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<210> 16264
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<223> Table A; HLA-B*48:01; ARID2; S990L; 0

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<223> Table A; HLA-B*50:01; ARID2; S990L; 0

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<210> 16266
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<220>
<223> Table A; HLA-C*03:03; ARID2; S990L; 0

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<210> 16267
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<220>
<223> Table A; HLA-C*03:04; ARID2; S990L; 0

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<220>
<223> Table A; HLA-C*08:01; ARID2; S990L; 0

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<223> Table A; HLA-C*08:03; ARID2; S990L; 0

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<223> Table A; HLA-A*33:03; PIK3CA; K111N; 0

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<223> Table A; HLA-B*27:02; PIK3CA; K111N; 0

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<210> 16272
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<220>
<223> Table A; HLA-B*27:05; PIK3CA; K111N; 0

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<210> 16273
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<220>
<223> Table A; HLA-B*27:05; KEAP1; D422N; 0

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<220>
<223> Table A; HLA-B*39:01; KEAP1; D422N; 0

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<210> 16275
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<212> PRT
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<220>
<223> Table A; HLA-B*14:01; TP53; R249M; 0

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<210> 16276
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<220>
<223> Table A; HLA-B*39:06; TP53; R249M; 0

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<220>
<223> Table A; HLA-C*06:02; TP53; R249M; 1

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<220>
<223> Table A; HLA-B*27:05; TP53; R249M; 0

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<223> Table A; HLA-B*38:01; TP53; R249M; 0

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<220>
<223> Table A; HLA-B*39:06; TP53; R249M; 0

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<220>
<223> Table A; HLA-B*14:02; TP53; R249S; 1

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<223> Table A; HLA-B*38:01; TP53; R249S; 1

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<223> Table A; HLA-B*39:01; TP53; R249S; 0

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<220>
<223> Table A; HLA-C*06:02; TP53; R249S; 1

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<223> Table A; HLA-A*68:02; TP53; R249S; 0

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<220>
<223> Table A; HLA-B*27:05; TP53; R249S; 1

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<220>
<223> Table A; HLA-B*38:01; TP53; R249S; 1

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<210> 16289
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<220>
<223> Table A; HLA-C*06:02; TP53; R249S; 1

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<220>
<223> Table A; HLA-B*27:02; TP53; I195N; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; I195N; 0

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<220>
<223> Table A; HLA-B*15:10; TP53; I195N; 0

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<220>
<223> Table A; HLA-B*27:05; TP53; I195N; 0

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<220>
<223> Table A; HLA-B*39:01; TP53; I195N; 0

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<220>
<223> Table A; HLA-B*39:06; TP53; I195N; 0

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<220>
<223> Table A; HLA-C*06:02; TP53; R249W; 1

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1               5


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<220>
<223> Table A; HLA-A*11:01; CNTNAP2; E149K; 1

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<220>
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<223> Table A; HLA-A*02:05; TP53; V272M; 0

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<220>
<223> Table A; HLA-B*39:06; TP53; V272M; 0

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<220>
<223> Table A; HLA-B*50:01; TP53; V272M; 0

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<223> Table A; HLA-B*54:01; TP53; V272M; 0

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<400> 16303

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<223> Table A; HLA-A*02:05; TP53; R273C; 0

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<220>
<223> Table A; HLA-A*68:02; TP53; R273C; 0

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<223> Table A; HLA-B*39:06; TP53; R273C; 0

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<223> Table A; HLA-B*54:01; TP53; R273C; 0

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<220>
<223> Table A; HLA-B*08:01; TP53; R273H; 1

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<223> Table A; HLA-B*39:06; TP53; R273H; 0

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<223> Table A; HLA-B*40:02; TP53; R273H; 0

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<223> Table A; HLA-B*48:01; TP53; R273H; 0

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<210> 16312
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<223> Table A; HLA-B*54:01; TP53; R273H; 0

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<210> 16313
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*12:03; TP53; R273H; 1

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<210> 16314
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<212> PRT
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<223> Table A; HLA-A*02:05; TP53; R273H; 0

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<220>
<223> Table A; HLA-A*02:06; TP53; R273H; 0

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<212> PRT
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<223> Table A; HLA-A*30:01; TP53; R273H; 0

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<220>
<223> Table A; HLA-A*68:01; TP53; R273H; 1

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<210> 16318
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<220>
<223> Table A; HLA-A*68:02; TP53; R273H; 0

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<220>
<223> Table A; HLA-B*39:06; TP53; R273H; 0

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<223> Table A; HLA-B*50:01; TP53; R273H; 0

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<220>
<223> Table A; HLA-B*54:01; TP53; R273H; 0

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<223> Table A; HLA-B*55:02; TP53; R273H; 0

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<223> Table A; HLA-C*08:01; TP53; R273H; 0

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<210> 16324
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<223> Table A; HLA-C*16:04; TP53; R273H; 0

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<210> 16325
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<223> Table A; HLA-B*39:06; TP53; R273L; 0

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<210> 16326
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<223> Table A; HLA-B*54:01; TP53; R273L; 0

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<223> Table A; HLA-C*12:03; TP53; R273L; 0

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<223> Table A; HLA-A*02:05; TP53; R273L; 0

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<223> Table A; HLA-A*02:06; TP53; R273L; 0

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<223> Table A; HLA-A*68:01; TP53; R273L; 0

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<223> Table A; HLA-A*68:02; TP53; R273L; 0

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<223> Table A; HLA-B*39:06; TP53; R273L; 0

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<223> Table A; HLA-B*50:01; TP53; R273L; 0

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<223> Table A; HLA-B*54:01; TP53; R273L; 0

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<223> Table A; HLA-B*55:02; TP53; R273L; 0

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<220>
<223> Table A; HLA-B*56:01; TP53; R273L; 0

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<220>
<223> Table A; HLA-A*23:01; TP53; C275Y; 0

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<210> 16338
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<220>
<223> Table A; HLA-B*08:01; TP53; C275Y; 0

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<210> 16339
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<220>
<223> Table A; HLA-B*15:01; TP53; C275Y; 0

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<210> 16340
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; C275Y; 0

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<220>
<223> Table A; HLA-B*15:03; TP53; C275Y; 0

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<210> 16342
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<220>
<223> Table A; HLA-B*18:01; TP53; C275Y; 0

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1               5


<210> 16343
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<220>
<223> Table A; HLA-B*35:01; TP53; C275Y; 0

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1               5


<210> 16344
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<220>
<223> Table A; HLA-B*46:01; TP53; C275Y; 0

<400> 16344
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1               5


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<220>
<223> Table A; HLA-B*57:01; TP53; C275Y; 0

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<210> 16346
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<220>
<223> Table A; HLA-B*58:01; TP53; C275Y; 0

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<210> 16347
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<220>
<223> Table A; HLA-C*03:02; TP53; C275Y; 0

<400> 16347
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<210> 16348
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<220>
<223> Table A; HLA-C*07:01; TP53; C275Y; 1

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<220>
<223> Table A; HLA-C*08:01; TP53; C275Y; 0

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<210> 16350
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<220>
<223> Table A; HLA-C*12:03; TP53; C275Y; 0

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<220>
<223> Table A; HLA-C*16:01; TP53; C275Y; 0

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<210> 16352
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<220>
<223> Table A; HLA-C*16:02; TP53; C275Y; 0

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<210> 16353
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; TP53; C275Y; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; TP53; C275Y; 0

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<220>
<223> Table A; HLA-A*33:03; TP53; C275Y; 0

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<220>
<223> Table A; HLA-A*68:02; TP53; C275Y; 0

<400> 16356
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<220>
<223> Table A; HLA-B*39:06; TP53; C275Y; 0

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Asn Ser Phe Glu Val Arg Val Tyr Ala
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<210> 16358
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<220>
<223> Table A; HLA-B*54:01; TP53; C275Y; 0

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<213> Homo sapiens

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<223> Table A; HLA-B*56:01; TP53; C275Y; 0

<400> 16359
Asn Ser Phe Glu Val Arg Val Tyr Ala
1 5

<210> 16360
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; TP53; R273S; 0

<400> 16360
Asn Ser Phe Glu Val Ser Val Cys
1 5

<210> 16361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; R273S; 0

<400> 16361
Asn Ser Phe Glu Val Ser Val Cys
1 5

<210> 16362
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; R273S; 0

<400> 16362
Asn Ser Phe Glu Val Ser Val Cys
1               5


<210> 16363
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; R273S; 0

<400> 16363
Asn Ser Phe Glu Val Ser Val Cys
1               5


<210> 16364
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R273S; 0

<400> 16364
Asn Ser Phe Glu Val Ser Val Cys
1               5


<210> 16365
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; R273S; 0

<400> 16365
Asn Ser Phe Glu Val Ser Val Cys
1               5

<210> 16366
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; TP53; R273S; 0

<400> 16366
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16367
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; TP53; R273S; 0

<400> 16367
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16368
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; TP53; R273S; 0

<400> 16368
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; R273S; 0

<400> 16369
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16370
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; R273S; 0

<400> 16370
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; TP53; R273S; 0

<400> 16371
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R273S; 0

<400> 16372
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16373
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*55:02; TP53; R273S; 0

<400> 16373
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16374
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; TP53; R273S; 0

<400> 16374
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; TP53; R273S; 0

<400> 16375
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 16376
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; TP53; E271K; 0

<400> 16376
Asn Ser Phe Lys Val Arg Val Cys Ala
1               5


<210> 16377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; E271K; 0

<400> 16377
Asn Ser Phe Lys Val Arg Val Cys Ala
1               5


<210> 16378
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-C*08:03; CTNNB1; D32N; 0

<400> 16378
Asn Ser Gly Ile His Ser Gly Ala
1               5


<210> 16379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32N; 1

<400> 16379
Asn Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 16380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 16380
Asn Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 16381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32N; 0

<400> 16381
Asn Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 16382
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3R1; K567E; 0

<400> 16382
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 16383
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PIK3R1; K567E; 0

<400> 16383
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 16384
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PIK3R1; K567E; 0

<400> 16384
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 16385
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PIK3R1; K567E; 0

<400> 16385
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 16386
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; PIK3R1; K567E; 0

<400> 16386
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu

1 5 10

<210> 16387
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3R1; K567E; 0

<400> 16387
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1 5 10

<210> 16388
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PIK3R1; K567E; 0

<400> 16388
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1 5 10

<210> 16389
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PIK3R1; K567E; 0

<400> 16389
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1 5 10

<210> 16390
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PIK3R1; K567E; 0

<400> 16390
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1 5 10

<210> 16391
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3R1; K567E; 0

<400> 16391
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 16392
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; PIK3R1; K567E; 0

<400> 16392
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 16393
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3R1; K567E; 1

<400> 16393
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16394
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3R1; K567E; 0

<400> 16394
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16395

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3R1; K567E; 0

<400> 16395
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16396
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; PIK3R1; K567E; 0

<400> 16396
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16397
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3R1; K567E; 0

<400> 16397
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16398
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3R1; K567E; 0

<400> 16398
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16399
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3R1; K567E; 0

<400> 16399
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16400
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3R1; K567E; 0

<400> 16400
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 16401
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3R1; L573P; 0

<400> 16401
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16402
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3R1; L573P; 0

<400> 16402
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16403
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3R1; L573P; 0

<400> 16403
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16404
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3R1; L573P; 0

<400> 16404
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16405
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3R1; L573P; 0

<400> 16405
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16406
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3R1; L573P; 0

<400> 16406
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16407
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PIK3R1; L573P; 0

<400> 16407
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16408
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3R1; L573P; 0

<400> 16408
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16409
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PIK3R1; L573P; 0

<400> 16409
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16410
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3R1; L573P; 0

<400> 16410
Asn Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 16411
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G245V; 0

<400> 16411

Asn Ser Ser Cys Met Gly Val Met Asn Arg
1 5 10

<210> 16412
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G244S; 0

<400> 16412
Asn Ser Ser Cys Met Ser Gly Met Asn Arg
1 5 10

<210> 16413
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TP53; C242F; 0

<400> 16413
Asn Ser Ser Phe Met Gly Gly Met Asn Arg
1 5 10

<210> 16414
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; C242F; 0

<400> 16414
Asn Ser Ser Phe Met Gly Gly Met Asn Arg
1 5 10

<210> 16415
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; C242F; 0

<400> 16415
Asn Ser Ser Phe Met Gly Gly Met Asn Arg
1 5 10

<210> 16416
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; MAP2K1; P124S; 0

<400> 16416
Asn Ser Ser Tyr Ile Val Gly Phe
1               5


<210> 16417
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; MAP2K1; P124S; 0

<400> 16417
Asn Ser Ser Tyr Ile Val Gly Phe
1               5


<210> 16418
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; MAP2K1; P124S; 1

<400> 16418
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 16419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; MAP2K1; P124S; 1

<400> 16419
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5

<210> 16420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; MAP2K1; P124S; 0

<400> 16420
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 16421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; MAP2K1; P124S; 1

<400> 16421
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 16422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; MAP2K1; P124S; 0

<400> 16422
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 16423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; MAP2K1; P124S; 0

<400> 16423
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 16424
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; MAP2K1; P124S; 0

<400> 16424
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 16425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; MAP2K1; P124S; 0

<400> 16425
Asn Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 16426
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; MAP2K1; P124S; 0

<400> 16426
Asn Ser Ser Tyr Ile Val Gly Phe Tyr Gly
1               5                   10


<210> 16427
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CDKN2A; P48L; 0

<400> 16427
Asn Ser Tyr Gly Arg Arg Leu Ile Gln Val
1               5                   10


<210> 16428
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; R213Q; 0

<400> 16428
Asn Thr Phe Gln His Ser Val Val
1               5


<210> 16429
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; R213Q; 1

<400> 16429
Asn Thr Phe Gln His Ser Val Val
1               5


<210> 16430
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; TP53; R213Q; 0

<400> 16430
Asn Thr Phe Gln His Ser Val Val
1               5


<210> 16431
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; TP53; R213Q; 0

<400> 16431
Asn Thr Phe Gln His Ser Val Val
1               5


<210> 16432
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*08:03; TP53; R213Q; 0

<400> 16432
Asn Thr Phe Gln His Ser Val Val
1               5


<210> 16433
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; R213Q; 0

<400> 16433
Asn Thr Phe Gln His Ser Val Val
1               5


<210> 16434
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; TP53; R213Q; 0

<400> 16434
Asn Thr Phe Gln His Ser Val Val
1               5


<210> 16435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; R213Q; 1

<400> 16435
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; R213Q; 0

<400> 16436
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TP53; R213Q; 0

<400> 16437
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TP53; R213Q; 0

<400> 16438
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TP53; R213Q; 0

<400> 16439
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; R213Q; 0

<400> 16440
Asn Thr Phe Gln His Ser Val Val Val

1 5

<210> 16441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; R213Q; 0

<400> 16441
Asn Thr Phe Gln His Ser Val Val Val
1 5

<210> 16442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; R213Q; 0

<400> 16442
Asn Thr Phe Gln His Ser Val Val Val
1 5

<210> 16443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; R213Q; 0

<400> 16443
Asn Thr Phe Gln His Ser Val Val Val
1 5

<210> 16444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; TP53; R213Q; 0

<400> 16444
Asn Thr Phe Gln His Ser Val Val Val
1 5

<210> 16445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TP53; R213Q; 0

<400> 16445
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; R213Q; 0

<400> 16446
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TP53; R213Q; 0

<400> 16447
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; TP53; R213Q; 0

<400> 16448
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16449

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; R213Q; 0

<400> 16449
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R213Q; 0

<400> 16450
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; TP53; R213Q; 0

<400> 16451
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; TP53; R213Q; 0

<400> 16452
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16453
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; R213Q; 0

<400> 16453
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; R213Q; 0

<400> 16454
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16455
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; TP53; R213Q; 0

<400> 16455
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16456
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; TP53; R213Q; 0

<400> 16456
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 16457
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; R213Q; 0

<400> 16457
Asn Thr Phe Gln His Ser Val Val Val Pro Tyr
1               5                   10


<210> 16458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; S215G; 0

<400> 16458
Asn Thr Phe Arg His Gly Val Val Val
1               5


<210> 16459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; S215G; 0

<400> 16459
Asn Thr Phe Arg His Gly Val Val Val
1               5


<210> 16460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; S215G; 0

<400> 16460
Asn Thr Phe Arg His Gly Val Val Val
1               5


<210> 16461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; S215G; 0

<400> 16461
Asn Thr Phe Arg His Gly Val Val Val
1               5


<210> 16462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; V216M; 0

<400> 16462
Asn Thr Phe Arg His Ser Met Val Val
1               5


<210> 16463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; V216M; 0

<400> 16463
Asn Thr Phe Arg His Ser Met Val Val
1               5


<210> 16464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; V216M; 0

<400> 16464
Asn Thr Phe Arg His Ser Met Val Val
1               5


<210> 16465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; H214R; 0

<400> 16465

Asn Thr Phe Arg Arg Ser Val Val Val
1               5


<210> 16466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 16466
Asn Thr Ile Asn Glu Val Ile Thr Glu
1               5


<210> 16467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 16467
Asn Thr Ile Asn Glu Val Ile Thr Glu
1               5


<210> 16468
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 16468
Asn Thr Ile Asn Glu Val Ile Thr Glu Asn
1               5                   10


<210> 16469
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 16469
Asn Thr Ile Asn Glu Val Ile Thr Glu Asn
1               5                   10

<210> 16470
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNND1; A781T; 0

<400> 16470
Asn Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5                   10


<210> 16471
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 16471
Asn Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5                   10


<210> 16472
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 16472
Asn Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5                   10


<210> 16473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; MSN; E573K; 0

<400> 16473
Asn Thr Lys Gln Arg Ile Asp Lys Phe
1               5

<210> 16474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; MSN; E573K; 0

<400> 16474
Asn Thr Lys Gln Arg Ile Asp Lys Phe
1               5


<210> 16475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; MSN; E573K; 0

<400> 16475
Asn Thr Lys Gln Arg Ile Asp Lys Phe
1               5


<210> 16476
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; MTOR; S2215Y; 0

<400> 16476
Asn Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5                   10


<210> 16477
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CDH11; K357T; 0

<400> 16477
Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 16478
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDH11; K357T; 1

<400> 16478
Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 16479
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; CDH11; K357T; 0

<400> 16479
Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 16480
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CDH11; K357T; 0

<400> 16480
Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 16481
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CDH11; K357T; 0

<400> 16481
Asn Val His Ile Asp Pro Thr Phe
1               5


<210> 16482
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CDH11; K357T; 0

<400> 16482
Asn Val His Ile Asp Pro Thr Phe Ile
1               5


<210> 16483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; C378R; 0

<400> 16483
Asn Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 16484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; C378R; 0

<400> 16484
Asn Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 16485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3CA; C378R; 0

<400> 16485
Asn Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 16486
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*31:01; PIK3CA; C378R; 0

<400> 16486
Asn Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 16487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3CA; C378R; 0

<400> 16487
Asn Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 16488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; C378R; 0

<400> 16488
Asn Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 16489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; C378R; 0

<400> 16489
Asn Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 16490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; M237I; 0

<400> 16490
Asn Tyr Ile Cys Asn Ser Ser Cys Met
1               5


<210> 16491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; ERBB2; S310F; 0

<400> 16491
Asn Tyr Leu Ser Thr Asp Val Gly Phe
1               5


<210> 16492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; ERBB2; S310F; 1

<400> 16492
Asn Tyr Leu Ser Thr Asp Val Gly Phe
1               5


<210> 16493
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; ERBB2; S310F; 1

<400> 16493
Asn Tyr Leu Ser Thr Asp Val Gly Phe
1               5


<210> 16494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; ERBB2; S310F; 0

<400> 16494
Asn Tyr Leu Ser Thr Asp Val Gly Phe

1 5

<210> 16495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; ERBB2; S310F; 0

<400> 16495
Asn Tyr Leu Ser Thr Asp Val Gly Phe
1 5

<210> 16496
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; ERBB2; S310Y; 0

<400> 16496
Asn Tyr Leu Ser Thr Asp Val Gly Tyr
1 5

<210> 16497
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; ERBB2; S310Y; 0

<400> 16497
Asn Tyr Leu Ser Thr Asp Val Gly Tyr
1 5

<210> 16498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; ERBB2; S310Y; 0

<400> 16498
Asn Tyr Leu Ser Thr Asp Val Gly Tyr
1 5

<210> 16499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; ERBB2; S310Y; 0

<400> 16499
Asn Tyr Leu Ser Thr Asp Val Gly Tyr
1               5


<210> 16500
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; C242F; 0

<400> 16500
Asn Tyr Met Cys Asn Ser Ser Phe
1               5


<210> 16501
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; C242F; 0

<400> 16501
Asn Tyr Met Cys Asn Ser Ser Phe
1               5


<210> 16502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; C242F; 0

<400> 16502
Asn Tyr Met Cys Asn Ser Ser Phe Met
1               5


<210> 16503

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; C242F; 0

<400> 16503
Asn Tyr Met Cys Asn Ser Ser Phe Met
1               5


<210> 16504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; N239S; 0

<400> 16504
Asn Tyr Met Cys Ser Ser Ser Cys Met
1               5


<210> 16505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; N239S; 0

<400> 16505
Asn Tyr Met Cys Ser Ser Ser Cys Met
1               5


<210> 16506
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; C238F; 0

<400> 16506
Asn Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 16507
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; C238F; 0

<400> 16507
Asn Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 16508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; C238F; 0

<400> 16508
Asn Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 16509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; C238F; 0

<400> 16509
Asn Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 16510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; C238Y; 1

<400> 16510
Asn Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 16511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; C238Y; 0

<400> 16511
Asn Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 16512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; C238Y; 0

<400> 16512
Asn Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 16513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; VHL; S111N; 0

<400> 16513
Asn Tyr Arg Gly His Leu Trp Leu Phe
1               5


<210> 16514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; VHL; S111N; 1

<400> 16514
Asn Tyr Arg Gly His Leu Trp Leu Phe
1               5


<210> 16515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; VHL; S111N; 1

<400> 16515
Asn Tyr Arg Gly His Leu Trp Leu Phe
1               5


<210> 16516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; VHL; S111N; 1

<400> 16516
Asn Tyr Arg Gly His Leu Trp Leu Phe
1               5


<210> 16517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDKN2A; H83Y; 0

<400> 16517
Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 16518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CDKN2A; H83Y; 0

<400> 16518
Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 16519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PDE4DIP; C1297R; 0

<400> 16519

Pro Glu Arg Glu Glu His Asn Ser Leu
1 5

<210> 16520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PDE4DIP; C1297R; 1

<400> 16520
Pro Glu Arg Glu Glu His Asn Ser Leu
1 5

<210> 16521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; PDE4DIP; C1297R; 0

<400> 16521
Pro Glu Arg Glu Glu His Asn Ser Leu
1 5

<210> 16522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PDE4DIP; C1297R; 0

<400> 16522
Pro Glu Arg Glu Glu His Asn Ser Leu
1 5

<210> 16523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PDE4DIP; C1297R; 0

<400> 16523
Pro Glu Arg Glu Glu His Asn Ser Leu
1 5

<210> 16524
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; KRAS; A146T; 1

<400> 16524
Pro Phe Ile Glu Thr Ser Thr Lys Thr
1               5


<210> 16525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; IDH1; R132G; 1

<400> 16525
Pro Ile Ile Ile Gly Gly His Ala Tyr
1               5


<210> 16526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; IDH1; R132S; 1

<400> 16526
Pro Ile Ile Ile Gly Ser His Ala Tyr
1               5


<210> 16527
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SMAD4; G352V; 0

<400> 16527
Pro Ile Val Thr Val Asp Val Tyr
1               5

<210> 16528
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SMAD4; G352V; 1

<400> 16528
Pro Ile Val Thr Val Asp Val Tyr
1               5


<210> 16529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CREB3L1; V414I; 1

<400> 16529
Pro Leu Ala Ala Asp Gly Ile Tyr Thr Ala
1               5                   10


<210> 16530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; XPO1; R749Q; 0

<400> 16530
Pro Leu Ile Arg Ser Met Gln Thr Val
1               5


<210> 16531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SMARCA4; E920K; 0

<400> 16531
Pro Leu Gln Asn Lys Leu Pro Lys Leu
1               5


<210> 16532
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; E545D; 0

<400> 16532
Pro Leu Ser Glu Ile Thr Asp Gln Glu Lys
1               5                   10


<210> 16533
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; Q546K; 0

<400> 16533
Pro Leu Ser Glu Ile Thr Glu Lys
1               5


<210> 16534
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; Q546K; 1

<400> 16534
Pro Leu Ser Glu Ile Thr Glu Lys
1               5


<210> 16535
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; Q546R; 1

<400> 16535
Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 16536
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; Q546R; 0

<400> 16536
Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 16537
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3CA; E545G; 0

<400> 16537
Pro Leu Ser Glu Ile Thr Gly Gln Glu Lys
1               5                   10


<210> 16538
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; GLI1; R637Q; 0

<400> 16538
Pro Asn Ala Gly Val Thr Gln Arg
1               5


<210> 16539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRT; L695F; 0

<400> 16539
Pro Pro Phe Ser Pro Leu Lys Ser Tyr
1               5


<210> 16540
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:01; PTPRT; L695F; 1

<400> 16540
Pro Pro Phe Ser Pro Leu Lys Ser Tyr
1               5


<210> 16541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; R158H; 1

<400> 16541
Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 16542
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PCBP1; L100Q; 1

<400> 16542
Pro Pro Val Thr Gln Arg Leu Val
1               5


<210> 16543
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; PCBP1; L100Q; 0

<400> 16543
Pro Pro Val Thr Gln Arg Leu Val
1               5


<210> 16544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 16544
Pro Pro Val Thr Gln Arg Leu Val Val
1               5


<210> 16545
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PCBP1; L100Q; 1

<400> 16545
Pro Pro Val Thr Gln Arg Leu Val Val
1               5


<210> 16546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PCBP1; L100Q; 0

<400> 16546
Pro Pro Val Thr Gln Arg Leu Val Val
1               5


<210> 16547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; PCBP1; L100Q; 0

<400> 16547
Pro Pro Val Thr Gln Arg Leu Val Val
1               5


<210> 16548
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PCBP1; L100Q; 0

<400> 16548
Pro Pro Val Thr Gln Arg Leu Val Val Pro Ala

1 5 10

<210> 16549
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; PCBP1; L100Q; 0

<400> 16549
Pro Pro Val Thr Gln Arg Leu Val Val Pro Ala
1 5 10

<210> 16550
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; FKBP9; R161Q; 1

<400> 16550
Pro Gln Thr Ile Gln Val Ser Asp Phe
1 5

<210> 16551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; FKBP9; R161Q; 0

<400> 16551
Pro Gln Thr Ile Gln Val Ser Asp Phe
1 5

<210> 16552
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SFRP4; R232Q; 0

<400> 16552
Pro Gln Thr Gln Val Pro Leu Ile
1 5

<210> 16553
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; R283P; 0

<400> 16553
Pro Thr Glu Glu Glu Asn Leu Arg
1               5


<210> 16554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; TP53; R283P; 1

<400> 16554
Pro Thr Glu Glu Glu Asn Leu Arg Lys
1               5


<210> 16555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; ARID1A; G2087R; 0

<400> 16555
Pro Val Leu Asp Arg Leu Leu His Trp
1               5


<210> 16556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; ARID1A; G2087R; 0

<400> 16556
Pro Val Leu Asp Arg Leu Leu His Trp
1               5


<210> 16557

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; ARID1A; G2087R; 0

<400> 16557
Pro Val Leu Asp Arg Leu Leu His Trp
1               5


<210> 16558
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 16558
Pro Val Thr Gln Arg Leu Val Val
1               5


<210> 16559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CDKN2A; H83Y; 0

<400> 16559
Pro Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5                   10


<210> 16560
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CDKN2A; H83Y; 0

<400> 16560
Pro Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5                   10


<210> 16561
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; CNTNAP2; T373M; 1

<400> 16561
Pro Tyr Met Val Pro Val Phe Phe
1               5


<210> 16562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 16562
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 16563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; SF3B1; R957Q; 0

<400> 16563
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 16564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; SF3B1; R957Q; 0

<400> 16564
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 16565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

<400> 16565
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 16566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 16566
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 16567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; SF3B1; R957Q; 1

<400> 16567
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 16568
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 16568
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16569
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; SF3B1; R957Q; 0

<400> 16569
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16570
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; SF3B1; R957Q; 0

<400> 16570
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

<400> 16571
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16572
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 16572
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16573
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

<400> 16573

Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16574
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SF3B1; R957Q; 1

<400> 16574
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16575
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; SF3B1; R957Q; 0

<400> 16575
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16576
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; R957Q; 0

<400> 16576
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16577
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 16577
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10

<210> 16578
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; SF3B1; R957Q; 0

<400> 16578
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16579
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R957Q; 0

<400> 16579
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16580
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*55:01; SF3B1; R957Q; 0

<400> 16580
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16581
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*55:02; SF3B1; R957Q; 0

<400> 16581
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10

<210> 16582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; SF3B1; R957Q; 0

<400> 16582
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16583
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 16583
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16584
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; SF3B1; R957Q; 1

<400> 16584
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; SF3B1; R957Q; 0

<400> 16585
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 16586
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SF3B1; R957Q; 1

<400> 16586
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16587
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; SF3B1; R957Q; 0

<400> 16587
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16588
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 16588
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16589
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; SF3B1; R957Q; 0

<400> 16589
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16590
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; SF3B1; R957Q; 0

<400> 16590
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
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<210> 16591
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SF3B1; R957Q; 0

<400> 16591
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
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<210> 16592
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 16592
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
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<210> 16593
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

<400> 16593
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16594
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:01; SF3B1; R957Q; 1

<400> 16594
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
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<210> 16595
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SF3B1; R957Q; 0

<400> 16595
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16596
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 16596
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16597
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R957Q; 0

<400> 16597
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16598
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; SF3B1; R957Q; 0

<400> 16598
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 16599
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PPP2R1A; S256F; 0

<400> 16599
Gln Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5                   10


<210> 16600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PPP2R1A; S256F; 0

<400> 16600
Gln Ala Ala Glu Asp Lys Phe Trp Arg Val
1               5                   10


<210> 16601
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; MAX; R60Q; 0

<400> 16601
Gln Ala Gln Ile Leu Asp Lys Ala Thr Glu Tyr
1               5                   10


<210> 16602
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; MAX; R60Q; 1

<400> 16602
Gln Ala Gln Ile Leu Asp Lys Ala Thr Glu Tyr

1 5 10

<210> 16603
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SMARCA4; G1232S; 0

<400> 16603
Gln Ala Ser Met Phe Asp Gln Lys
1 5

<210> 16604
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SMARCA4; G1232S; 0

<400> 16604
Gln Ala Ser Met Phe Asp Gln Lys
1 5

<210> 16605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PTK6; H126P; 1

<400> 16605
Gln Ala Val Arg Pro Tyr Lys Ile Trp
1 5

<210> 16606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; MB21D2; Q311E; 0

<400> 16606
Gln Ala Tyr Glu Ala Cys Lys Ala Ile
1 5

<210> 16607
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; NFE2L2; R34G; 0

<400> 16607
Gln Asp Ile Asp Leu Gly Val Ser Gly Glu Val
1               5                   10


<210> 16608
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NFE2L2; R34G; 0

<400> 16608
Gln Asp Ile Asp Leu Gly Val Ser Gly Glu Val
1               5                   10


<210> 16609
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; NFE2L2; R34G; 0

<400> 16609
Gln Asp Ile Asp Leu Gly Val Ser Gly Glu Val
1               5                   10


<210> 16610
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; NFE2L2; R34Q; 0

<400> 16610
Gln Asp Ile Asp Leu Gly Val Ser Gln Glu Val
1               5                   10


<210> 16611

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; NFE2L2; R34Q; 0

<400> 16611
Gln Asp Ile Asp Leu Gly Val Ser Gln Glu Val
1               5                   10


<210> 16612
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; NFE2L2; R34Q; 0

<400> 16612
Gln Asp Ile Asp Leu Gly Val Ser Gln Glu Val
1               5                   10


<210> 16613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NFE2L2; D29G; 0

<400> 16613
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NFE2L2; D29G; 0

<400> 16614
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16615
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; NFE2L2; D29G; 0

<400> 16615
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; NFE2L2; D29G; 0

<400> 16616
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NFE2L2; D29G; 0

<400> 16617
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; NFE2L2; D29G; 0

<400> 16618
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NFE2L2; D29G; 0

<400> 16619
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; NFE2L2; D29G; 0

<400> 16620
Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5


<210> 16621
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; NFE2L2; D29G; 0

<400> 16621
Gln Asp Ile Gly Leu Gly Val Ser Arg Glu Val
1               5                   10


<210> 16622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NFE2L2; D29H; 0

<400> 16622
Gln Asp Ile His Leu Gly Val Ser Arg
1               5


<210> 16623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; NFE2L2; D29H; 0

<400> 16623
Gln Asp Ile His Leu Gly Val Ser Arg
1               5


<210> 16624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; NFE2L2; D29H; 0

<400> 16624
Gln Asp Ile His Leu Gly Val Ser Arg
1               5


<210> 16625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NFE2L2; D29H; 0

<400> 16625
Gln Asp Ile His Leu Gly Val Ser Arg
1               5


<210> 16626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; NFE2L2; D29H; 0

<400> 16626
Gln Asp Ile His Leu Gly Val Ser Arg
1               5


<210> 16627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NFE2L2; D29H; 0

<400> 16627

Gln Asp Ile His Leu Gly Val Ser Arg
1               5


<210> 16628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; E453Q; 0

<400> 16628
Gln Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 16629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; PIK3CA; E453Q; 0

<400> 16629
Gln Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 16630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PIK3CA; E453Q; 0

<400> 16630
Gln Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 16631
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; E453Q; 0

<400> 16631
Gln Asp Leu Leu Asn Pro Ile Gly Val
1               5

<210> 16632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; E453Q; 0

<400> 16632
Gln Asp Leu Leu Asn Pro Ile Gly Val
1               5


<210> 16633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; GNAS; R201H; 0

<400> 16633
Gln Asp Leu Leu Arg Cys His Val Leu
1               5


<210> 16634
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; STAG1; A116T; 0

<400> 16634
Gln Asp Arg Asp Ile Thr Leu Leu
1               5


<210> 16635
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; E81K; 0

<400> 16635
Gln Glu Ala Glu Arg Glu Lys Phe
1               5

<210> 16636
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; E81K; 0

<400> 16636
Gln Glu Ala Glu Arg Glu Lys Phe
1               5


<210> 16637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; PIK3CA; E81K; 0

<400> 16637
Gln Glu Ala Glu Arg Glu Lys Phe Phe
1               5


<210> 16638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; E81K; 0

<400> 16638
Gln Glu Ala Glu Arg Glu Lys Phe Phe
1               5


<210> 16639
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; E81K; 0

<400> 16639
Gln Glu Ala Glu Arg Glu Lys Phe Phe
1               5


<210> 16640
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; DDIT3; R147H; 0

<400> 16640
Gln Glu Ile Glu His Leu Thr Arg Glu Val
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<220>
<223> Table A; HLA-B*44:05; DDIT3; R147H; 0

<400> 16641
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1               5                   10


<210> 16642
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<220>
<223> Table A; HLA-B*49:01; DDIT3; R147H; 0

<400> 16642
Gln Glu Ile Glu His Leu Thr Arg Glu Val
1               5                   10


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<220>
<223> Table A; HLA-B*50:01; DDIT3; R147H; 0

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1               5                   10


<210> 16644
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; NFE2L2; R34Q; 0

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<210> 16645
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<220>
<223> Table A; HLA-B*49:01; NFE2L2; R34Q; 0

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Gln Glu Val Phe Asp Phe Ser Gln Arg
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<210> 16646
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; SF3B1; K700E; 0

<400> 16646
Gln Glu Val Arg Thr Ile Ser Ala
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<210> 16647
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; SF3B1; K700E; 0

<400> 16647
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<210> 16648
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<212> PRT
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<223> Table A; HLA-B*18:01; SF3B1; K700E; 1

<400> 16648
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<210> 16649
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<223> Table A; HLA-B*39:06; SF3B1; K700E; 0

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<210> 16650
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; SF3B1; K700E; 0

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<210> 16651
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*41:02; SF3B1; K700E; 0

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<210> 16653
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; SF3B1; K700E; 0

<400> 16653
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<210> 16654
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<220>
<223> Table A; HLA-B*50:01; SF3B1; K700E; 0

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<210> 16655
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<220>
<223> Table A; HLA-A*02:05; SF3B1; K700E; 0

<400> 16655
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<210> 16656
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; SF3B1; K700E; 0

<400> 16656
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1 5

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<220>
<223> Table A; HLA-A*23:01; SF3B1; K700E; 0

<400> 16657
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<220>
<223> Table A; HLA-A*30:01; SF3B1; K700E; 0

<400> 16658
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1 5

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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; K700E; 0

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<210> 16660
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; SF3B1; K700E; 1

<400> 16660
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1 5

<210> 16661
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; SF3B1; K700E; 0

<400> 16661
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<210> 16662
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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; SF3B1; K700E; 0

<400> 16662
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<210> 16663
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SF3B1; K700E; 1

<400> 16663
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<210> 16664
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<212> PRT
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<220>
<223> Table A; HLA-B*15:10; SF3B1; K700E; 0

<400> 16664
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; SF3B1; K700E; 1

<400> 16665
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<220>
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<220>
<223> Table A; HLA-B*38:01; SF3B1; K700E; 0

<400> 16667
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<210> 16668
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SF3B1; K700E; 0

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<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; SF3B1; K700E; 1

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<210> 16670
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; SF3B1; K700E; 0

<400> 16670
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1               5


<210> 16671
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<212> PRT
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<220>
<223> Table A; HLA-B*40:06; SF3B1; K700E; 0

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<210> 16672
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; SF3B1; K700E; 0

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<210> 16673
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<220>
<223> Table A; HLA-B*44:02; SF3B1; K700E; 1

<400> 16673
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; SF3B1; K700E; 1

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<210> 16675
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<220>
<223> Table A; HLA-B*44:05; SF3B1; K700E; 0

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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

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<210> 16677
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; SF3B1; K700E; 0

<400> 16677
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1               5


<210> 16678
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; SF3B1; K700E; 0

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1               5


<210> 16679
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; SF3B1; K700E; 0

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<210> 16680
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<220>
<223> Table A; HLA-C*03:02; SF3B1; K700E; 0

<400> 16680
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<210> 16681
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SF3B1; K700E; 0

<400> 16681

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1 5

<210> 16682
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; SF3B1; K700E; 0

<400> 16682
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1 5

<210> 16683
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<220>
<223> Table A; HLA-C*16:04; SF3B1; K700E; 0

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1 5

<210> 16684
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<220>
<223> Table A; HLA-B*40:02; SF3B1; K700E; 0

<400> 16684
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<210> 16685
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<220>
<223> Table A; HLA-B*44:03; SF3B1; K700E; 1

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1 5 10

<210> 16686
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; SF3B1; K700E; 0

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<210> 16687
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<220>
<223> Table A; HLA-B*49:01; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; STAG2; R370Q; 0

<400> 16688
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<210> 16689
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; STAG2; R370Q; 0

<400> 16689
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<210> 16690
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; STAG2; R370Q; 0

<400> 16690
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<210> 16691
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; STAG2; R370Q; 1

<400> 16691
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<210> 16692
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; STAG2; R370Q; 0

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<210> 16693
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; STAG2; R370Q; 0

<400> 16693
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<210> 16694
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; STAG2; R370Q; 0

<400> 16694
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<210> 16695
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<220>
<223> Table A; HLA-C*08:01; STAG2; R370Q; 0

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1               5


<210> 16696
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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; STAG2; R370Q; 0

<400> 16696
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1               5


<210> 16697
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<212> PRT
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<220>
<223> Table A; HLA-C*14:03; STAG2; R370Q; 0

<400> 16697
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1               5


<210> 16698
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<212> PRT
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<220>
<223> Table A; HLA-B*15:10; PIK3CA; H1047Q; 0

<400> 16698
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<210> 16699
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PIK3CA; H1047Q; 0

<400> 16699
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1               5


<210> 16700
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; ACSL3; R232Q; 0

<400> 16700
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1               5


<210> 16701
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; ACSL3; R232Q; 0

<400> 16701
Gln His Ile Ile Thr Val Asp Gly Lys
1               5


<210> 16702
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*31:01; TP53; V173M; 0

<400> 16702
Gln His Met Thr Glu Val Met Arg Arg
1               5


<210> 16703
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:10; TP53; R175H; 0

<400> 16703
Gln His Met Thr Glu Val Val Arg His
1               5


<210> 16704
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; TP53; R175H; 1

<400> 16704
Gln His Met Thr Glu Val Val Arg His
1               5


<210> 16705
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; EGFR; R108K; 1

<400> 16705
Gln Ile Ile Lys Gly Asn Met Tyr
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<210> 16706
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; EGFR; R108K; 0

<400> 16706
Gln Ile Ile Lys Gly Asn Met Tyr
1               5


<210> 16707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; EGFR; R108K; 1

<400> 16707
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1               5


<210> 16708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; EGFR; R108K; 0

<400> 16708
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1               5


<210> 16709
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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; EGFR; R108K; 0

<400> 16709
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1               5


<210> 16710
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; EGFR; R108K; 0

<400> 16710
Gln Ile Ile Lys Gly Asn Met Tyr Tyr

1 5

<210> 16711
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; EGFR; R108K; 1

<400> 16711
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1 5

<210> 16712
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; EGFR; R108K; 0

<400> 16712
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1 5

<210> 16713
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; EGFR; R108K; 0

<400> 16713
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1 5

<210> 16714
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; EGFR; R108K; 0

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Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1 5

<210> 16715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; ARHGEF12; R113Q; 1

<400> 16715
Gln Ile Ile Lys Val Asn Gly Thr Leu
1               5


<210> 16716
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; ARHGEF12; R113Q; 1

<400> 16716
Gln Ile Ile Lys Val Asn Gly Thr Leu
1               5


<210> 16717
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; ARHGEF12; R113Q; 0

<400> 16717
Gln Ile Ile Lys Val Asn Gly Thr Leu
1               5


<210> 16718
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; ARHGEF12; R113Q; 0

<400> 16718
Gln Ile Ile Lys Val Asn Gly Thr Leu Val
1               5                   10


<210> 16719

<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; ARHGEF12; R113Q; 0

<400> 16719
Gln Ile Ile Lys Val Asn Gly Thr Leu Val
1               5                   10


<210> 16720
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; PIK3CA; M1043I; 0

<400> 16720
Gln Ile Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 16721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTPRD; R561Q; 1

<400> 16721
Gln Ile Thr Ile Glu Pro Gly Thr Ser Tyr
1               5                   10


<210> 16722
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRD; R561Q; 0

<400> 16722
Gln Ile Thr Ile Glu Pro Gly Thr Ser Tyr
1               5                   10


<210> 16723
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; PTPRD; R561Q; 0

<400> 16723
Gln Ile Thr Ile Glu Pro Gly Thr Ser Tyr
1               5                   10


<210> 16724
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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; SMARCA4; G1232S; 0

<400> 16724
Gln Lys Val Ile Gln Ala Ser Met
1               5


<210> 16725
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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; SMARCA4; G1232S; 0

<400> 16725
Gln Lys Val Ile Gln Ala Ser Met Phe
1               5


<210> 16726
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; C141Y; 0

<400> 16726
Gln Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5                   10


<210> 16727
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TP53; C141Y; 0

<400> 16727
Gln Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5                   10


<210> 16728
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<212> PRT
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<220>
<223> Table A; HLA-B*35:08; NFE2L2; T80P; 0

<400> 16728
Gln Leu Asp Glu Glu Pro Gly Glu Phe
1               5


<210> 16729
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; NFE2L2; T80P; 0

<400> 16729
Gln Leu Asp Glu Glu Pro Gly Glu Phe
1               5


<210> 16730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; NFE2L2; T80P; 1

<400> 16730
Gln Leu Asp Glu Glu Pro Gly Glu Phe
1               5


<210> 16731
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; NFE2L2; T80P; 0

<400> 16731
Gln Leu Asp Glu Glu Pro Gly Glu Phe
1               5


<210> 16732
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; NFE2L2; T80P; 1

<400> 16732
Gln Leu Asp Glu Glu Pro Gly Glu Phe Leu
1               5                   10


<210> 16733
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<223> Table A; HLA-A*02:07; NFE2L2; T80P; 0

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<210> 16735
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<223> Table A; HLA-B*13:01; NFE2L2; T80P; 0

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<210> 16736
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<220>
<223> Table A; HLA-B*38:01; NFE2L2; T80P; 0

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<210> 16737
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<223> Table A; HLA-B*39:01; NFE2L2; T80P; 0

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<210> 16738
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<220>
<223> Table A; HLA-B*48:01; NFE2L2; T80P; 0

<400> 16738
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<210> 16739
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<220>
<223> Table A; HLA-C*05:01; NFE2L2; T80P; 1

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<223> Table A; HLA-C*08:02; NFE2L2; T80P; 0

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<210> 16741
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; NFE2L2; E82D; 0

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<210> 16742
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<220>
<223> Table A; HLA-C*08:02; NFE2L2; E82D; 0

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<210> 16743
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<220>
<223> Table A; HLA-A*02:07; NFE2L2; E82D; 0

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<210> 16744
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<220>
<223> Table A; HLA-B*13:01; NFE2L2; E82D; 0

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<220>
<223> Table A; HLA-B*38:01; NFE2L2; E82D; 0

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<210> 16746
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<220>
<223> Table A; HLA-B*48:01; NFE2L2; E82D; 0

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<220>
<223> Table A; HLA-C*05:01; NFE2L2; E82D; 1

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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; NFE2L2; E82D; 0

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<210> 16749
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<220>
<223> Table A; HLA-C*08:03; NFE2L2; E82D; 0

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<210> 16750
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; NFE2L2; E79Q; 1

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<210> 16751
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; NFE2L2; E79Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; NFE2L2; E79Q; 0

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<210> 16753
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; NFE2L2; E79Q; 1

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<210> 16754
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<220>
<223> Table A; HLA-B*15:02; NFE2L2; E79Q; 0

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<220>
<223> Table A; HLA-B*35:08; NFE2L2; E79Q; 0

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<223> Table A; HLA-B*38:01; NFE2L2; E79Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; NFE2L2; E79Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*04:01; NFE2L2; E79Q; 1

<400> 16758
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<210> 16759
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<220>
<223> Table A; HLA-C*05:01; NFE2L2; E79Q; 1

<400> 16759
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<220>
<223> Table A; HLA-C*08:02; NFE2L2; E79Q; 1

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<210> 16761
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<220>
<223> Table A; HLA-A*02:01; NFE2L2; E79Q; 1

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<220>
<223> Table A; HLA-A*02:06; NFE2L2; E79Q; 0

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<220>
<223> Table A; HLA-A*02:07; NFE2L2; E79Q; 0

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<223> Table A; HLA-B*13:01; NFE2L2; E79Q; 0

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<220>
<223> Table A; HLA-B*38:01; NFE2L2; E79Q; 0

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<223> Table A; HLA-B*39:01; NFE2L2; E79Q; 0

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<223> Table A; HLA-B*48:01; NFE2L2; E79Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*05:01; NFE2L2; E79Q; 1

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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; NFE2L2; E79Q; 1

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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; PIK3CA; R93Q; 0

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<220>
<223> Table A; HLA-A*02:04; PIK3CA; R93Q; 0

<400> 16771
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1               5


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<220>
<223> Table A; HLA-A*02:07; PIK3CA; R93Q; 0

<400> 16772
Gln Leu Phe Gln Pro Phe Leu Lys Val
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<210> 16773

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<220>
<223> Table A; HLA-A*68:02; PIK3CA; R93Q; 0

<400> 16773
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; PIK3CA; R93Q; 1

<400> 16774
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<212> PRT
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<220>
<223> Table A; HLA-C*15:02; PIK3CA; R93Q; 0

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Gln Leu Phe Gln Pro Phe Leu Lys Val
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<210> 16776
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<212> PRT
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<220>
<223> Table A; HLA-B*13:01; NFE2L2; D77G; 0

<400> 16776
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<210> 16777
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; NFE2L2; D77G; 0

<400> 16777
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<210> 16778
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; NFE2L2; D77G; 0

<400> 16778
Gln Leu Gly Glu Glu Thr Gly Glu Phe
1               5


<210> 16779
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; NFE2L2; D77G; 0

<400> 16779
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<210> 16780
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; NFE2L2; D77G; 0

<400> 16780
Gln Leu Gly Glu Glu Thr Gly Glu Phe Leu
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<210> 16781
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CSMD3; R2601Q; 1

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1               5


<210> 16782
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CSMD3; R2601Q; 0

<400> 16782
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1               5


<210> 16783
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CSMD3; R2601Q; 1

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1               5


<210> 16784
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<212> PRT
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<220>
<223> Table A; HLA-A*30:02; PIK3CA; H1047L; 0

<400> 16784
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<210> 16785
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*15:13; PIK3CA; H1047L; 0

<400> 16785
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<210> 16786
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; H1047L; 1

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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; PIK3CA; H1047Q; 0

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<210> 16788
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<220>
<223> Table A; HLA-A*30:02; PIK3CA; H1047Q; 0

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1               5                   10


<210> 16789
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<212> PRT
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<223> Table A; HLA-A*32:01; PIK3CA; H1047Q; 0

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<220>
<223> Table A; HLA-B*15:13; PIK3CA; H1047Q; 0

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<210> 16791
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<212> PRT
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<223> Table A; HLA-B*44:03; PIK3CA; H1047Q; 0

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<223> Table A; HLA-B*44:05; PIK3CA; H1047Q; 0

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<210> 16793
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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; MAP2K1; K57N; 0

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<210> 16794
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<220>
<223> Table A; HLA-B*54:01; PIK3CA; G106V; 0

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<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; XPO1; R749Q; 1

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Gln Pro Leu Ile Arg Ser Met Gln Thr
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; XPO1; R749Q; 1

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Gln Pro Leu Ile Arg Ser Met Gln Thr Val
1               5                   10


<210> 16797
<211> 10
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<220>
<223> Table A; HLA-B*51:01; XPO1; R749Q; 0

<400> 16797
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<210> 16798
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<220>
<223> Table A; HLA-B*54:01; XPO1; R749Q; 0

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<210> 16799
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<220>
<223> Table A; HLA-B*55:01; XPO1; R749Q; 0

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1               5                   10


<210> 16800
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<212> PRT
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<220>
<223> Table A; HLA-B*55:02; XPO1; R749Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*56:01; XPO1; R749Q; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; SF3B1; R957Q; 0

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Gln Gln Ala Ala Asp Leu Ile Ser Gln Thr
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<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 16803
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; SF3B1; R957Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

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<220>
<223> Table A; HLA-B*39:01; SF3B1; R957Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; R957Q; 0

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<210> 16808
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; SF3B1; R957Q; 0

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<210> 16809
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; SF3B1; K700E; 0

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<210> 16810
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<223> Table A; HLA-A*02:06; SF3B1; K700E; 0

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<210> 16811
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; SF3B1; K700E; 1

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<220>
<223> Table A; HLA-B*13:02; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*14:02; SF3B1; K700E; 0

<400> 16813
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SF3B1; K700E; 1

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<210> 16815
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<212> PRT
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<220>
<223> Table A; HLA-B*15:10; SF3B1; K700E; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SF3B1; K700E; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; K700E; 0

<400> 16817
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1               5


<210> 16818
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; SF3B1; K700E; 0

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1 5

<210> 16819
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; K700E; 0

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1 5

<210> 16820
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SF3B1; K700E; 1

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1 5 10

<210> 16821
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; SF3B1; K700E; 0

<400> 16821
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1 5 10

<210> 16822
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; SF3B1; K700E; 0

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1 5 10

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<211> 10
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<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

<400> 16823
Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5                   10


<210> 16824
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; PTPRD; R561Q; 0

<400> 16824
Gln Gln Ile Thr Ile Glu Pro Gly Thr Ser Tyr
1               5                   10


<210> 16825
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTPRD; R561Q; 1

<400> 16825
Gln Gln Ile Thr Ile Glu Pro Gly Thr Ser Tyr
1               5                   10


<210> 16826
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRD; R561Q; 0

<400> 16826
Gln Gln Ile Thr Ile Glu Pro Gly Thr Ser Tyr
1               5                   10


<210> 16827

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; PTPRD; R561Q; 0

<400> 16827
Gln Gln Ile Thr Ile Glu Pro Gly Thr Ser Tyr
1               5                   10


<210> 16828
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CDH10; R638Q; 0

<400> 16828
Gln Gln Lys Lys Glu Pro Leu Ile
1               5


<210> 16829
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CDH10; R638Q; 0

<400> 16829
Gln Gln Lys Lys Glu Pro Leu Ile Leu
1               5


<210> 16830
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; ERBB2; R678Q; 0

<400> 16830
Gln Gln Gln Lys Ile Arg Lys Tyr
1               5


<210> 16831
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; S33C; 0

<400> 16831
Gln Gln Gln Ser Tyr Leu Asp Cys Gly
1               5


<210> 16832
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S33F; 1

<400> 16832
Gln Gln Gln Ser Tyr Leu Asp Phe
1               5


<210> 16833
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; G34E; 0

<400> 16833
Gln Gln Gln Ser Tyr Leu Asp Ser Glu Ile
1               5                   10


<210> 16834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; G34R; 1

<400> 16834
Gln Gln Gln Ser Tyr Leu Asp Ser Arg
1               5


<210> 16835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34R; 1

<400> 16835
Gln Gln Gln Ser Tyr Leu Asp Ser Arg
1               5


<210> 16836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34R; 0

<400> 16836
Gln Gln Gln Ser Tyr Leu Asp Ser Arg
1               5


<210> 16837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; G34R; 1

<400> 16837
Gln Gln Gln Ser Tyr Leu Asp Ser Arg
1               5


<210> 16838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; G34R; 0

<400> 16838
Gln Gln Gln Ser Tyr Leu Asp Ser Arg
1               5


<210> 16839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; G34R; 1

<400> 16839
Gln Gln Gln Ser Tyr Leu Asp Ser Arg
1               5


<210> 16840
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34R; 1

<400> 16840
Gln Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5                   10


<210> 16841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; G34R; 1

<400> 16841
Gln Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5                   10


<210> 16842
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; G34R; 0

<400> 16842
Gln Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5                   10


<210> 16843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34V; 1

<400> 16843

Gln Gln Gln Ser Tyr Leu Asp Ser Val
1 5

<210> 16844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34V; 0

<400> 16844
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1 5

<210> 16845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; G34V; 0

<400> 16845
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1 5

<210> 16846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34V; 0

<400> 16846
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1 5

<210> 16847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34V; 0

<400> 16847
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1 5

<210> 16848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34V; 0

<400> 16848
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34V; 0

<400> 16849
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34V; 0

<400> 16850
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; G34V; 1

<400> 16851
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5

<210> 16852
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; CTNNB1; G34V; 0

<400> 16852
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34V; 0

<400> 16853
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34V; 0

<400> 16854
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 16855
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16856
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34V; 0

<400> 16856
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; G34V; 0

<400> 16857
Gln Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5                   10


<210> 16858
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33Y; 0

<400> 16858
Gln Gln Gln Ser Tyr Leu Asp Tyr
1               5


<210> 16859
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S33Y; 1

<400> 16859
Gln Gln Gln Ser Tyr Leu Asp Tyr
1               5


<210> 16860
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; CTNNB1; S33Y; 0

<400> 16860
Gln Gln Gln Ser Tyr Leu Asp Tyr
1               5


<210> 16861
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33Y; 0

<400> 16861
Gln Gln Gln Ser Tyr Leu Asp Tyr
1               5


<210> 16862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33Y; 0

<400> 16862
Gln Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5                   10


<210> 16863
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S33Y; 0

<400> 16863
Gln Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5                   10


<210> 16864
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*13:02; CTNNB1; D32H; 0

<400> 16864
Gln Gln Gln Ser Tyr Leu His Ser Gly Ile
1               5                   10


<210> 16865
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32N; 1

<400> 16865
Gln Gln Gln Ser Tyr Leu Asn Ser Gly Ile
1               5                   10


<210> 16866
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32V; 0

<400> 16866
Gln Gln Gln Ser Tyr Leu Val Ser
1               5


<210> 16867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32V; 1

<400> 16867
Gln Gln Gln Ser Tyr Leu Val Ser Gly
1               5


<210> 16868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32V; 1

<400> 16868
Gln Gln Gln Ser Tyr Leu Val Ser Gly Ile
1               5                   10


<210> 16869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; D32V; 1

<400> 16869
Gln Gln Gln Ser Tyr Leu Val Ser Gly Ile
1               5                   10


<210> 16870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32Y; 0

<400> 16870
Gln Gln Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5                   10


<210> 16871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; D32Y; 0

<400> 16871
Gln Gln Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5                   10


<210> 16872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33C; 0

<400> 16872
Gln Gln Ser Tyr Leu Asp Cys Gly Ile

1 5

<210> 16873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; CTNNB1; S33C; 0

<400> 16873
Gln Gln Ser Tyr Leu Asp Cys Gly Ile
1 5

<210> 16874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33C; 1

<400> 16874
Gln Gln Ser Tyr Leu Asp Cys Gly Ile
1 5

<210> 16875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S33C; 0

<400> 16875
Gln Gln Ser Tyr Leu Asp Cys Gly Ile
1 5

<210> 16876
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33F; 0

<400> 16876
Gln Gln Ser Tyr Leu Asp Phe Gly Ile
1 5

<210> 16877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33F; 0

<400> 16877
Gln Gln Ser Tyr Leu Asp Phe Gly Ile
1               5


<210> 16878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33F; 1

<400> 16878
Gln Gln Ser Tyr Leu Asp Phe Gly Ile
1               5


<210> 16879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S33F; 1

<400> 16879
Gln Gln Ser Tyr Leu Asp Phe Gly Ile
1               5


<210> 16880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34E; 0

<400> 16880
Gln Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 16881

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34E; 0

<400> 16881
Gln Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 16882
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; CTNNB1; G34E; 0

<400> 16882
Gln Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 16883
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34E; 0

<400> 16883
Gln Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 16884
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; G34E; 0

<400> 16884
Gln Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 16885
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34E; 0

<400> 16885
Gln Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 16886
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34R; 0

<400> 16886
Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 16887
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34R; 0

<400> 16887
Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 16888
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34R; 0

<400> 16888
Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 16889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; CTNNB1; G34R; 0

<400> 16889
Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 16890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34R; 1

<400> 16890
Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 16891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; G34R; 1

<400> 16891
Gln Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 16892
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34V; 0

<400> 16892
Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34V; 0

<400> 16893
Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 16894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34V; 0

<400> 16894
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 16895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 16895
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 16896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; CTNNB1; G34V; 0

<400> 16896
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 16897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34V; 0

<400> 16897

Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 16898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; G34V; 0

<400> 16898
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 16899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; G34V; 0

<400> 16899
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 16900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34V; 0

<400> 16900
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 16901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 16901
Gln Gln Ser Tyr Leu Asp Ser Val Ile His
1               5                   10

<210> 16902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33Y; 0

<400> 16902
Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5


<210> 16903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; S33Y; 0

<400> 16903
Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5


<210> 16904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33Y; 0

<400> 16904
Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5


<210> 16905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; CTNNB1; S33Y; 0

<400> 16905
Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5

<210> 16906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33Y; 0

<400> 16906
Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5


<210> 16907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S33Y; 0

<400> 16907
Gln Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5


<210> 16908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32H; 0

<400> 16908
Gln Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 16909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32H; 0

<400> 16909
Gln Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 16910
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32H; 0

<400> 16910
Gln Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 16911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; D32H; 0

<400> 16911
Gln Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 16912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32N; 0

<400> 16912
Gln Gln Ser Tyr Leu Asn Ser Gly Ile
1               5


<210> 16913
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32N; 1

<400> 16913
Gln Gln Ser Tyr Leu Asn Ser Gly Ile
1               5


<210> 16914
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; D32N; 1

<400> 16914
Gln Gln Ser Tyr Leu Asn Ser Gly Ile
1               5


<210> 16915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32V; 0

<400> 16915
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1               5


<210> 16916
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32V; 0

<400> 16916
Gln Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 16917
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; D32V; 0

<400> 16917
Gln Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 16918
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

<400> 16918
Gln Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 16919
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32V; 1

<400> 16919
Gln Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 16920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; D32V; 1

<400> 16920
Gln Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 16921
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32Y; 0

<400> 16921
Gln Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5


<210> 16922
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32Y; 0

<400> 16922
Gln Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5


<210> 16923
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; D32Y; 0

<400> 16923
Gln Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5


<210> 16924
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; RSPO2; R64Q; 0

<400> 16924
Gln Arg Glu Gly Met Arg Gln Tyr
1               5


<210> 16925
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; MSN; E573K; 0

<400> 16925
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16926
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; MSN; E573K; 0

<400> 16926
Gln Arg Ile Asp Lys Phe Glu Ser Met

1 5

<210> 16927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; MSN; E573K; 0

<400> 16927
Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5

<210> 16928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; MSN; E573K; 0

<400> 16928
Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5

<210> 16929
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*24:02; MSN; E573K; 1

<400> 16929
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; MSN; E573K; 0

<400> 16930
Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5

<210> 16931
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:03; MSN; E573K; 0

<400> 16931
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16932
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; MSN; E573K; 0

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Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16933
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; MSN; E573K; 0

<400> 16933
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MSN; E573K; 0

<400> 16934
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16935

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; MSN; E573K; 0

<400> 16935
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16936
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; MSN; E573K; 0

<400> 16936
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16937
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; MSN; E573K; 1

<400> 16937
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; MSN; E573K; 1

<400> 16938
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16939
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; MSN; E573K; 0

<400> 16939
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<210> 16940
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; MSN; E573K; 0

<400> 16940
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16941
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; MSN; E573K; 1

<400> 16941
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16942
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; MSN; E573K; 0

<400> 16942
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16943
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; MSN; E573K; 0

<400> 16943
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16944
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; MSN; E573K; 0

<400> 16944
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16945
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<212> PRT
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<220>
<223> Table A; HLA-B*15:13; MSN; E573K; 0

<400> 16945
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<210> 16946
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*18:01; MSN; E573K; 1

<400> 16946
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1               5


<210> 16947
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; MSN; E573K; 0

<400> 16947
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; MSN; E573K; 0

<400> 16948
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; MSN; E573K; 1

<400> 16949
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1               5


<210> 16950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; MSN; E573K; 0

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<210> 16951
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; MSN; E573K; 0

<400> 16951

Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5

<210> 16952
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:12; MSN; E573K; 0

<400> 16952
Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5

<210> 16953
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; MSN; E573K; 0

<400> 16953
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16954
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; MSN; E573K; 0

<400> 16954
Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5

<210> 16955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; MSN; E573K; 0

<400> 16955
Gln Arg Ile Asp Lys Phe Glu Ser Met
1 5

<210> 16956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; MSN; E573K; 1

<400> 16956
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16957
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; MSN; E573K; 0

<400> 16957
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16958
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*41:02; MSN; E573K; 0

<400> 16958
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16959
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:03; MSN; E573K; 1

<400> 16959
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5

<210> 16960
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; MSN; E573K; 0

<400> 16960
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16961
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; MSN; E573K; 0

<400> 16961
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16962
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; MSN; E573K; 0

<400> 16962
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; MSN; E573K; 0

<400> 16963
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16964
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; MSN; E573K; 1

<400> 16964
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:01; MSN; E573K; 1

<400> 16965
Gln Arg Ile Asp Lys Phe Glu Ser Met
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<210> 16966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; MSN; E573K; 1

<400> 16966
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16967
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; MSN; E573K; 0

<400> 16967
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; MSN; E573K; 0

<400> 16968
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; MSN; E573K; 0

<400> 16969
Gln Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 16970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; BRAF; G469V; 1

<400> 16970
Gln Arg Ile Gly Ser Gly Ser Phe Val Thr Val
1               5                   10


<210> 16971
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; BRAF; G469V; 0

<400> 16971
Gln Arg Ile Gly Ser Gly Ser Phe Val Thr Val
1               5                   10


<210> 16972
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*27:02; BRAF; G466V; 0

<400> 16972
Gln Arg Ile Gly Ser Val Ser Phe
1               5


<210> 16973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; RAF1; S257L; 0

<400> 16973
Gln Arg Leu Thr Ser Thr Pro Asn Val
1               5


<210> 16974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; RAF1; S257L; 0

<400> 16974
Gln Arg Leu Thr Ser Thr Pro Asn Val
1               5


<210> 16975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; RAF1; S257L; 0

<400> 16975
Gln Arg Leu Thr Ser Thr Pro Asn Val
1               5


<210> 16976
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PCBP1; L100Q; 0

<400> 16976
Gln Arg Leu Val Val Pro Ala Thr
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<210> 16977
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PCBP1; L100Q; 0

<400> 16977
Gln Arg Leu Val Val Pro Ala Thr
1               5


<210> 16978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PCBP1; L100Q; 1

<400> 16978
Gln Arg Leu Val Val Pro Ala Thr Gln
1               5


<210> 16979
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PCBP1; L100Q; 0

<400> 16979
Gln Arg Leu Val Val Pro Ala Thr Gln
1               5


<210> 16980
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; PCBP1; L100Q; 0

<400> 16980
Gln Arg Leu Val Val Pro Ala Thr Gln

1 5

<210> 16981
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; PCBP1; L100Q; 0

<400> 16981
Gln Arg Leu Val Val Pro Ala Thr Gln
1 5

<210> 16982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; A1CF; E34K; 0

<400> 16982
Gln Arg Thr Gly Tyr Ser Leu Val Gln Lys
1 5 10

<210> 16983
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; A1CF; E34K; 1

<400> 16983
Gln Arg Thr Gly Tyr Ser Leu Val Gln Lys
1 5 10

<210> 16984
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; ACVR1; R206H; 0

<400> 16984
Gln Arg Thr Val Ala His Gln Ile
1 5

<210> 16985
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; ACVR1; R206H; 0

<400> 16985
Gln Arg Thr Val Ala His Gln Ile
1               5


<210> 16986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PIK3CA; Y1021C; 0

<400> 16986
Gln Ser Phe Asp Asp Ile Ala Cys Ile
1               5


<210> 16987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PIK3CA; Y1021C; 0

<400> 16987
Gln Ser Phe Asp Asp Ile Ala Cys Ile
1               5


<210> 16988
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; PIK3CA; Y1021C; 0

<400> 16988
Gln Ser Phe Asp Asp Ile Ala Cys Ile
1               5


<210> 16989

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PIK3CA; Y1021C; 0

<400> 16989
Gln Ser Phe Asp Asp Ile Ala Cys Ile
1               5


<210> 16990
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3CA; Y1021C; 0

<400> 16990
Gln Ser Phe Asp Asp Ile Ala Cys Ile
1               5


<210> 16991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PIK3CA; Y1021C; 0

<400> 16991
Gln Ser Phe Asp Asp Ile Ala Cys Ile
1               5


<210> 16992
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; Y1021C; 0

<400> 16992
Gln Ser Phe Asp Asp Ile Ala Cys Ile Arg
1               5                   10


<210> 16993
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; Y1021C; 1

<400> 16993
Gln Ser Phe Asp Asp Ile Ala Cys Ile Arg Lys
1               5                   10


<210> 16994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; ATM; R2691C; 0

<400> 16994
Gln Ser Phe Lys Ala Glu Phe Cys Leu
1               5


<210> 16995
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; V173L; 0

<400> 16995
Gln Ser Gln His Met Thr Glu Val Leu Arg
1               5                   10


<210> 16996
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; V173L; 0

<400> 16996
Gln Ser Gln His Met Thr Glu Val Leu Arg
1               5                   10


<210> 16997
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; V173L; 0

<400> 16997
Gln Ser Gln His Met Thr Glu Val Leu Arg
1               5                   10


<210> 16998
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; V173L; 0

<400> 16998
Gln Ser Gln His Met Thr Glu Val Leu Arg
1               5                   10


<210> 16999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; V173M; 0

<400> 16999
Gln Ser Gln His Met Thr Glu Val Met
1               5


<210> 17000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; V173M; 0

<400> 17000
Gln Ser Gln His Met Thr Glu Val Met
1               5


<210> 17001
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; V173M; 0

<400> 17001
Gln Ser Gln His Met Thr Glu Val Met Arg
1               5                   10


<210> 17002
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; V173M; 0

<400> 17002
Gln Ser Gln His Met Thr Glu Val Met Arg
1               5                   10


<210> 17003
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33F; 1

<400> 17003
Gln Ser Tyr Leu Asp Phe Gly Ile
1               5


<210> 17004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33F; 0

<400> 17004
Gln Ser Tyr Leu Asp Phe Gly Ile His
1               5


<210> 17005
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34E; 0

<400> 17005

Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 17006
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; G34E; 0

<400> 17006
Gln Ser Tyr Leu Asp Ser Glu Ile
1               5


<210> 17007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

<400> 17007
Gln Ser Tyr Leu Asp Ser Glu Ile His
1               5


<210> 17008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34E; 0

<400> 17008
Gln Ser Tyr Leu Asp Ser Glu Ile His
1               5


<210> 17009
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37A; 0

<400> 17009
Gln Ser Tyr Leu Asp Ser Gly Ile His Ala
1               5                   10

<210> 17010
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37A; 0

<400> 17010
Gln Ser Tyr Leu Asp Ser Gly Ile His Ala
1               5                   10


<210> 17011
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37A; 0

<400> 17011
Gln Ser Tyr Leu Asp Ser Gly Ile His Ala
1               5                   10


<210> 17012
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37A; 0

<400> 17012
Gln Ser Tyr Leu Asp Ser Gly Ile His Ala
1               5                   10


<210> 17013
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; S37A; 0

<400> 17013
Gln Ser Tyr Leu Asp Ser Gly Ile His Ala
1               5                   10

<210> 17014
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37A; 0

<400> 17014
Gln Ser Tyr Leu Asp Ser Gly Ile His Ala Gly
1               5                   10


<210> 17015
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37C; 0

<400> 17015
Gln Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 17016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37F; 1

<400> 17016
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17017
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37F; 1

<400> 17017
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17018
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; S37F; 1

<400> 17018
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17019
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37F; 1

<400> 17019
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17020
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

<400> 17020
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17021
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S37F; 1

<400> 17021
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17022
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; S37F; 0

<400> 17022
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17023
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTNNB1; S37F; 1

<400> 17023
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17024
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; S37F; 1

<400> 17024
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17025
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S37F; 0

<400> 17025
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17026
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*03:04; CTNNB1; S37F; 1

<400> 17026
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; CTNNB1; S37F; 1

<400> 17027
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 17028
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37P; 0

<400> 17028
Gln Ser Tyr Leu Asp Ser Gly Ile His Pro Gly
1               5                   10


<210> 17029
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37P; 0

<400> 17029
Gln Ser Tyr Leu Asp Ser Gly Ile His Pro Gly
1               5                   10


<210> 17030
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37P; 0

<400> 17030
Gln Ser Tyr Leu Asp Ser Gly Ile His Pro Gly
1               5                   10


<210> 17031
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34R; 1

<400> 17031
Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 17032
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; G34R; 1

<400> 17032
Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 17033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; G34R; 1

<400> 17033
Gln Ser Tyr Leu Asp Ser Arg Ile His
1               5


<210> 17034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34R; 0

<400> 17034
Gln Ser Tyr Leu Asp Ser Arg Ile His

1 5

<210> 17035
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34V; 0

<400> 17035
Gln Ser Tyr Leu Asp Ser Val Ile
1 5

<210> 17036
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 17036
Gln Ser Tyr Leu Asp Ser Val Ile
1 5

<210> 17037
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; G34V; 1

<400> 17037
Gln Ser Tyr Leu Asp Ser Val Ile
1 5

<210> 17038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; G34V; 1

<400> 17038
Gln Ser Tyr Leu Asp Ser Val Ile His
1 5

<210> 17039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34V; 1

<400> 17039
Gln Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 17040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; G34V; 0

<400> 17040
Gln Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 17041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 17041
Gln Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 17042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 17042
Gln Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 17043

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; G34V; 0

<400> 17043
Gln Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 17044
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 17044
Gln Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 17045
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 17045
Gln Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 17046
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33Y; 0

<400> 17046
Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5


<210> 17047
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S33Y; 0

<400> 17047
Gln Ser Tyr Leu Asp Tyr Gly Ile
1               5


<210> 17048
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32H; 1

<400> 17048
Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 17049
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32H; 0

<400> 17049
Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 17050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; CTNNB1; D32H; 0

<400> 17050
Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 17051
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; D32H; 0

<400> 17051
Gln Ser Tyr Leu His Ser Gly Ile
1               5


<210> 17052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32H; 1

<400> 17052
Gln Ser Tyr Leu His Ser Gly Ile His
1               5


<210> 17053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; D32H; 0

<400> 17053
Gln Ser Tyr Leu His Ser Gly Ile His
1               5


<210> 17054
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32N; 1

<400> 17054
Gln Ser Tyr Leu Asn Ser Gly Ile
1               5


<210> 17055
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; D32N; 1

<400> 17055
Gln Ser Tyr Leu Asn Ser Gly Ile
1               5


<210> 17056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32N; 1

<400> 17056
Gln Ser Tyr Leu Asn Ser Gly Ile His
1               5


<210> 17057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; D32N; 1

<400> 17057
Gln Ser Tyr Leu Asn Ser Gly Ile His
1               5


<210> 17058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 17058
Gln Ser Tyr Leu Asn Ser Gly Ile His
1               5


<210> 17059
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32V; 1

<400> 17059

Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 17060
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32V; 1

<400> 17060
Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 17061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32V; 0

<400> 17061
Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 17062
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; D32V; 0

<400> 17062
Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 17063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CTNNB1; D32V; 0

<400> 17063
Gln Ser Tyr Leu Val Ser Gly Ile
1               5

<210> 17064
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; D32V; 1

<400> 17064
Gln Ser Tyr Leu Val Ser Gly Ile
1               5


<210> 17065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32V; 1

<400> 17065
Gln Ser Tyr Leu Val Ser Gly Ile His
1               5


<210> 17066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; D32V; 1

<400> 17066
Gln Ser Tyr Leu Val Ser Gly Ile His
1               5


<210> 17067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32V; 0

<400> 17067
Gln Ser Tyr Leu Val Ser Gly Ile His
1               5

<210> 17068
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

<400> 17068
Gln Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 17069
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32V; 0

<400> 17069
Gln Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 17070
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32Y; 0

<400> 17070
Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5


<210> 17071
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; D32Y; 1

<400> 17071
Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5


<210> 17072
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; D32Y; 1

<400> 17072
Gln Ser Tyr Leu Tyr Ser Gly Ile His
1               5


<210> 17073
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 17073
Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17074
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SF3B1; R957Q; 0

<400> 17074
Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 17075
Gln Thr Ala Val Val Met Lys Thr Cys
1               5


<210> 17076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 17076
Gln Thr Ala Val Val Met Lys Thr Cys
1               5


<210> 17077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; SF3B1; R957Q; 0

<400> 17077
Gln Thr Ala Val Val Met Lys Thr Cys
1               5


<210> 17078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ARHGEF12; R113Q; 0

<400> 17078
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ARHGEF12; R113Q; 0

<400> 17079
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17080
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:05; ARHGEF12; R113Q; 0

<400> 17080
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ARHGEF12; R113Q; 0

<400> 17081
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; ARHGEF12; R113Q; 0

<400> 17082
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; ARHGEF12; R113Q; 0

<400> 17083
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; ARHGEF12; R113Q; 0

<400> 17084
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; ARHGEF12; R113Q; 0

<400> 17085
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; ARHGEF12; R113Q; 0

<400> 17086
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; ARHGEF12; R113Q; 0

<400> 17087
Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5


<210> 17088
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; FKBP9; R161Q; 1

<400> 17088
Gln Thr Ile Gln Val Ser Asp Phe

1 5

<210> 17089
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; FKBP9; R161Q; 1

<400> 17089
Gln Thr Ile Gln Val Ser Asp Phe
1 5

<210> 17090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; FKBP9; R161Q; 0

<400> 17090
Gln Thr Ile Gln Val Ser Asp Phe Val
1 5

<210> 17091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; FKBP9; R161Q; 0

<400> 17091
Gln Thr Ile Gln Val Ser Asp Phe Val
1 5

<210> 17092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; FKBP9; R161Q; 0

<400> 17092
Gln Thr Ile Gln Val Ser Asp Phe Val
1 5

<210> 17093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; FKBP9; R161Q; 0

<400> 17093
Gln Thr Ile Gln Val Ser Asp Phe Val
1               5


<210> 17094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; FKBP9; R161Q; 0

<400> 17094
Gln Thr Ile Gln Val Ser Asp Phe Val
1               5


<210> 17095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; FKBP9; R161Q; 0

<400> 17095
Gln Thr Ile Gln Val Ser Asp Phe Val Arg
1               5                   10


<210> 17096
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; FKBP9; R161Q; 0

<400> 17096
Gln Thr Ile Gln Val Ser Asp Phe Val Arg
1               5                   10


<210> 17097

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; FKBP9; R161Q; 0

<400> 17097
Gln Thr Ile Gln Val Ser Asp Phe Val Arg
1               5                   10


<210> 17098
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; FKBP9; R161Q; 1

<400> 17098
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17099
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; FKBP9; R161Q; 1

<400> 17099
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17100
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; FKBP9; R161Q; 1

<400> 17100
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17101
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; FKBP9; R161Q; 0

<400> 17101
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17102
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; FKBP9; R161Q; 0

<400> 17102
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17103
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<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-A*68:01; FKBP9; R161Q; 0

<400> 17103
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17104
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; FKBP9; R161Q; 1

<400> 17104
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17105
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; FKBP9; R161Q; 1

<400> 17105
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17106
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; FKBP9; R161Q; 0

<400> 17106
Gln Thr Ile Gln Val Ser Asp Phe Val Arg Tyr
1               5                   10


<210> 17107
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CNTNAP2; R483Q; 0

<400> 17107
Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 17108
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CNTNAP2; R483Q; 0

<400> 17108
Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 17109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNTNAP2; R483Q; 1

<400> 17109
Gln Thr Asn Ser Pro Leu Gln Val Lys
1               5


<210> 17110
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CNTNAP2; R483Q; 0

<400> 17110
Gln Thr Asn Ser Pro Leu Gln Val Lys
1               5


<210> 17111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CNTNAP2; R483Q; 1

<400> 17111
Gln Thr Asn Ser Pro Leu Gln Val Lys
1               5


<210> 17112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CNTNAP2; R483Q; 0

<400> 17112
Gln Thr Asn Ser Pro Leu Gln Val Lys
1               5


<210> 17113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CNTNAP2; R483Q; 0

<400> 17113

Gln Thr Asn Ser Pro Leu Gln Val Lys
1 5

<210> 17114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CNTNAP2; R483Q; 0

<400> 17114
Gln Thr Asn Ser Pro Leu Gln Val Lys
1 5

<210> 17115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CNTNAP2; R483Q; 0

<400> 17115
Gln Thr Asn Ser Pro Leu Gln Val Lys
1 5

<210> 17116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CNTNAP2; R483Q; 0

<400> 17116
Gln Thr Asn Ser Pro Leu Gln Val Lys
1 5

<210> 17117
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CNTNAP2; R483Q; 1

<400> 17117
Gln Thr Asn Ser Pro Leu Gln Val Lys Thr
1 5 10

<210> 17118
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CNTNAP2; R483Q; 0

<400> 17118
Gln Thr Asn Ser Pro Leu Gln Val Lys Thr
1               5                   10


<210> 17119
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; XPO1; R749Q; 1

<400> 17119
Gln Thr Val Lys Arg Glu Thr Leu
1               5


<210> 17120
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; XPO1; R749Q; 0

<400> 17120
Gln Thr Val Lys Arg Glu Thr Leu
1               5


<210> 17121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; XPO1; R749Q; 1

<400> 17121
Gln Thr Val Lys Arg Glu Thr Leu Lys
1               5

<210> 17122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; XPO1; R749Q; 0

<400> 17122
Gln Thr Val Lys Arg Glu Thr Leu Lys
1               5


<210> 17123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; XPO1; R749Q; 0

<400> 17123
Gln Thr Val Lys Arg Glu Thr Leu Lys
1               5


<210> 17124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SIRPA; V233I; 0

<400> 17124
Gln Val Ile Cys Glu Val Ala His Ile
1               5


<210> 17125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; SIRPA; V233I; 0

<400> 17125
Gln Val Ile Cys Glu Val Ala His Ile
1               5


<210> 17126
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; SIRPA; V233I; 0

<400> 17126
Gln Val Ile Cys Glu Val Ala His Ile
1               5


<210> 17127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SIRPA; V233I; 0

<400> 17127
Gln Val Ile Cys Glu Val Ala His Ile
1               5


<210> 17128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; MAP2K1; P124S; 0

<400> 17128
Gln Val Leu His Glu Cys Asn Ser Ser Tyr
1               5                   10


<210> 17129
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; PIK3CA; M1043V; 0

<400> 17129
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17130
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; PIK3CA; M1043V; 0

<400> 17130
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; PIK3CA; M1043V; 0

<400> 17131
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17132
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; PIK3CA; M1043V; 0

<400> 17132
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17133
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; PIK3CA; M1043V; 0

<400> 17133
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17134
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*44:05; PIK3CA; M1043V; 0

<400> 17134
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17135
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; M1043V; 0

<400> 17135
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PIK3CA; M1043V; 0

<400> 17136
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 17137
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CRNKL1; S128F; 0

<400> 17137
Gln Val Pro Leu Pro Val Pro Arg Phe
1               5


<210> 17138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CRNKL1; S128F; 1

<400> 17138
Gln Val Pro Leu Pro Val Pro Arg Phe
1               5


<210> 17139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CRNKL1; S128F; 0

<400> 17139
Gln Val Pro Leu Pro Val Pro Arg Phe
1               5


<210> 17140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; CRNKL1; S128F; 1

<400> 17140
Gln Val Pro Leu Pro Val Pro Arg Phe
1               5


<210> 17141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CRNKL1; S128F; 0

<400> 17141
Gln Val Pro Leu Pro Val Pro Arg Phe
1               5


<210> 17142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CRNKL1; S128F; 0

<400> 17142
Gln Val Pro Leu Pro Val Pro Arg Phe

1 5

<210> 17143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; CRNKL1; S128F; 0

<400> 17143
Gln Val Pro Leu Pro Val Pro Arg Phe
1 5

<210> 17144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CRNKL1; S128F; 1

<400> 17144
Gln Val Pro Leu Pro Val Pro Arg Phe
1 5

<210> 17145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CRNKL1; S128F; 1

<400> 17145
Gln Val Pro Leu Pro Val Pro Arg Phe
1 5

<210> 17146
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; ARID2; S990L; 0

<400> 17146
Gln Val Pro Thr Ala Met Ser Leu
1 5

<210> 17147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; ARID2; S990L; 0

<400> 17147
Gln Val Pro Thr Ala Met Ser Leu
1               5


<210> 17148
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MAPK1; E322K; 0

<400> 17148
Gln Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5                   10


<210> 17149
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; MAPK1; E322K; 0

<400> 17149
Gln Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5                   10


<210> 17150
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; CDKN2A; D108Y; 0

<400> 17150
Arg Ala Gly Ala Arg Leu Asp Val Arg Tyr
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<210> 17151

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SMARCA4; G1162S; 0

<400> 17151
Arg Ala Gly Gly Leu Ser Leu Asn Leu
1               5


<210> 17152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; SMARCA4; G1162S; 0

<400> 17152
Arg Ala Gly Gly Leu Ser Leu Asn Leu
1               5


<210> 17153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; SMARCA4; G1162S; 0

<400> 17153
Arg Ala Gly Gly Leu Ser Leu Asn Leu
1               5


<210> 17154
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; ARHGEF12; R113Q; 0

<400> 17154
Arg Ala Gly Val Gln Thr Gly Asp Gln Ile Ile
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<210> 17155
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CHD4; R1162W; 1

<400> 17155
Arg Ala His Trp Ile Gly Gln Asn Lys
1               5


<210> 17156
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CHD4; R1162W; 0

<400> 17156
Arg Ala His Trp Ile Gly Gln Asn Lys
1               5


<210> 17157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CHD4; R1162W; 1

<400> 17157
Arg Ala His Trp Ile Gly Gln Asn Lys
1               5


<210> 17158
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CHD4; R1162W; 0

<400> 17158
Arg Ala His Trp Ile Gly Gln Asn Lys
1               5


<210> 17159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CHD4; R1162W; 0

<400> 17159
Arg Ala His Trp Ile Gly Gln Asn Lys
1               5


<210> 17160
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; STAG1; A116T; 0

<400> 17160
Arg Asp Ile Thr Leu Leu Asp Leu
1               5


<210> 17161
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; KDR; R1032Q; 0

<400> 17161
Arg Asp Leu Ala Ala Gln Asn Ile
1               5


<210> 17162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; KDR; R1032Q; 0

<400> 17162
Arg Asp Leu Ala Ala Gln Asn Ile Leu
1               5


<210> 17163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PIK3CA; E545A; 0

<400> 17163
Arg Asp Pro Leu Ser Glu Ile Thr Ala
1               5


<210> 17164
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; R283P; 0

<400> 17164
Arg Asp Arg Pro Thr Glu Glu Glu Asn Leu
1               5                   10


<210> 17165
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; TP53; R283P; 0

<400> 17165
Arg Asp Arg Pro Thr Glu Glu Glu Asn Leu
1               5                   10


<210> 17166
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; R283P; 0

<400> 17166
Arg Asp Arg Pro Thr Glu Glu Glu Asn Leu Arg
1               5                   10


<210> 17167
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; PTK6; H126P; 0

<400> 17167

Arg Asp Thr Gln Ala Val Arg Pro
1               5


<210> 17168
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PIK3CA; K111E; 1

<400> 17168
Arg Glu Glu Glu Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17169
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; K111E; 0

<400> 17169
Arg Glu Glu Glu Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17170
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; K111E; 0

<400> 17170
Arg Glu Glu Glu Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17171
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; K111E; 1

<400> 17171
Arg Glu Glu Glu Ile Leu Asn Arg Glu Ile
1               5                   10

<210> 17172
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; K111E; 0

<400> 17172
Arg Glu Glu Glu Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17173
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; K111E; 0

<400> 17173
Arg Glu Glu Glu Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17174
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PIK3CA; K111N; 0

<400> 17174
Arg Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17175
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; K111N; 0

<400> 17175
Arg Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5                   10

<210> 17176
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*41:02; PIK3CA; K111N; 0

<400> 17176
Arg Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; K111N; 0

<400> 17177
Arg Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17178
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; K111N; 0

<400> 17178
Arg Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17179
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; PIK3CA; K111N; 0

<400> 17179
Arg Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 17180
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; PIK3CA; G118D; 0

<400> 17180
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; G118D; 0

<400> 17181
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; PIK3CA; G118D; 1

<400> 17182
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; PIK3CA; G118D; 0

<400> 17183
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PIK3CA; G118D; 1

<400> 17184
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3CA; G118D; 0

<400> 17185
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; PIK3CA; G118D; 0

<400> 17186
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17187
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; G118D; 0

<400> 17187
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1               5


<210> 17188
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*44:02; PIK3CA; G118D; 1

<400> 17188
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; G118D; 1

<400> 17189
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; G118D; 0

<400> 17190
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3CA; G118D; 0

<400> 17191
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3CA; G118D; 0

<400> 17192
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 17193
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; PIK3CA; G118D; 0

<400> 17193
Arg Glu Ile Asp Phe Ala Ile Gly Met Pro
1               5                   10


<210> 17194
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3CA; G118D; 0

<400> 17194
Arg Glu Ile Asp Phe Ala Ile Gly Met Pro
1               5                   10


<210> 17195
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PIK3R1; N564D; 0

<400> 17195
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1               5                   10


<210> 17196
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<220>
<223> Table A; HLA-B*44:03; PIK3R1; N564D; 0

<400> 17196
Arg Glu Ile Asp Lys Arg Met Asp Ser Ile

1 5 10

<210> 17197
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3R1; N564D; 0

<400> 17197
Arg Glu Ile Asp Lys Arg Met Asp Ser Ile
1 5 10

<210> 17198
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; PIK3R1; N564D; 0

<400> 17198
Arg Glu Ile Asp Lys Arg Met Asp Ser Ile
1 5 10

<210> 17199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; R337L; 0

<400> 17199
Arg Gly Arg Glu Leu Phe Glu Met Phe
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<210> 17200
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12R; 1

<400> 17200
Arg Gly Val Gly Lys Ser Ala Leu
1 5

<210> 17201
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12R; 1

<400> 17201
Arg Gly Val Gly Lys Ser Ala Leu
1               5


<210> 17202
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; KRAS; G12R; 1

<400> 17202
Arg Gly Val Gly Lys Ser Ala Leu
1               5


<210> 17203
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; KRAS; G12R; 1

<400> 17203
Arg Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 17204
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; MSN; E573K; 1

<400> 17204
Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 17205

<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:02; MSN; E573K; 0

<400> 17205
Arg Ile Asp Lys Phe Glu Ser Met
1               5


<210> 17206
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; BRAF; G469V; 0

<400> 17206
Arg Ile Gly Ser Gly Ser Phe Val Thr Val
1               5                   10


<210> 17207
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; BRAF; G469V; 1

<400> 17207
Arg Ile Gly Ser Gly Ser Phe Val Thr Val Tyr
1               5                   10


<210> 17208
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34R; 0

<400> 17208
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 17209
<211> 9
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34R; 0

<400> 17209
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 17210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; G34R; 1

<400> 17210
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 17211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34R; 1

<400> 17211
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 17212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34R; 1

<400> 17212
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 17213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34R; 0

<400> 17213
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 17214
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34R; 0

<400> 17214
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 17215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34R; 0

<400> 17215
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17216
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34R; 0

<400> 17216
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34R; 0

<400> 17217
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17218
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; G34R; 1

<400> 17218
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17219
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34R; 0

<400> 17219
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17220
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; G34R; 1

<400> 17220
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 17221
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34R; 1

<400> 17221

Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17222
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34R; 1

<400> 17222
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17223
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34R; 0

<400> 17223
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17224
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34R; 0

<400> 17224
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 17225
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34R; 0

<400> 17225
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10

<210> 17226
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*55:01; CTNNB1; G34R; 0

<400> 17226
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 17227
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; G34R; 0

<400> 17227
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17228
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; L194R; 0

<400> 17228
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; CDKN2A; D108Y; 0

<400> 17229
Arg Leu Asp Val Arg Tyr Ala Trp
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<210> 17230
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; MAP2K1; K57N; 0

<400> 17230
Arg Leu Glu Ala Phe Leu Thr Gln Asn Gln Lys
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<210> 17231
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; TP53; P250L; 1

<400> 17231
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1               5


<210> 17232
<211> 9
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<220>
<223> Table A; HLA-A*02:03; TP53; P250L; 0

<400> 17232
Arg Leu Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; P250L; 0

<400> 17233
Arg Leu Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17234
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; P250L; 0

<400> 17234
Arg Leu Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TP53; P250L; 0

<400> 17235
Arg Leu Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; P250L; 0

<400> 17236
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1               5


<210> 17237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; TP53; P250L; 0

<400> 17237
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1               5


<210> 17238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; TP53; P250L; 0

<400> 17238
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1               5


<210> 17239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; DDIT3; R147H; 0

<400> 17239
Arg Leu Lys Gln Glu Ile Glu His Leu
1               5


<210> 17240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; DDIT3; R147H; 0

<400> 17240
Arg Leu Lys Gln Glu Ile Glu His Leu
1               5


<210> 17241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; DDIT3; R147H; 0

<400> 17241
Arg Leu Lys Gln Glu Ile Glu His Leu
1               5


<210> 17242
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:04; CDKN2A; P114L; 0

<400> 17242
Arg Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5                   10


<210> 17243
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ACSL3; R232Q; 0

<400> 17243
Arg Leu Gln His Ile Ile Thr Val
1               5


<210> 17244
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; ACSL3; R232Q; 0

<400> 17244
Arg Leu Gln His Ile Ile Thr Val Asp Gly Lys
1               5                   10


<210> 17245
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; RAF1; S257L; 0

<400> 17245
Arg Leu Thr Ser Thr Pro Asn Val
1               5


<210> 17246
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; RAF1; S257L; 0

<400> 17246
Arg Leu Thr Ser Thr Pro Asn Val His Met Val
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<210> 17247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PIK3R1; N564D; 0

<400> 17247
Arg Met Asp Ser Ile Lys Pro Asp Leu
1               5


<210> 17248
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; PIK3R1; N564D; 0

<400> 17248
Arg Met Asp Ser Ile Lys Pro Asp Leu
1               5


<210> 17249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; PIK3R1; K567E; 0

<400> 17249
Arg Met Asn Ser Ile Glu Pro Asp Leu
1               5


<210> 17250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PIK3R1; K567E; 0

<400> 17250
Arg Met Asn Ser Ile Glu Pro Asp Leu

1 5

<210> 17251
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; R249M; 0

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Arg Met Pro Ile Leu Thr Ile Ile Thr Leu
1 5 10

<210> 17252
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; R249M; 0

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Arg Met Pro Ile Leu Thr Ile Ile Thr Leu
1 5 10

<210> 17253
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; ERBB3; V104M; 1

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Arg Met Val Arg Gly Thr Gln Val Tyr
1 5

<210> 17254
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:02; PPP2R1A; R28C; 0

<400> 17254
Arg Asn Glu Asp Val Gln Leu Cys Leu
1 5

<210> 17255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; PPP2R1A; R28C; 0

<400> 17255
Arg Asn Glu Asp Val Gln Leu Cys Leu
1               5


<210> 17256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; PTPRT; E548K; 0

<400> 17256
Arg Asn Lys Thr His His Leu Phe Val
1               5


<210> 17257
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; C275Y; 0

<400> 17257
Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 17258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:01; TP53; C275Y; 1

<400> 17258
Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 17259

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; C275Y; 0

<400> 17259
Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 17260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; TP53; C275Y; 0

<400> 17260
Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 17261
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; C275Y; 0

<400> 17261
Arg Asn Ser Phe Glu Val Arg Val Tyr Ala
1               5                   10


<210> 17262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; R213Q; 0

<400> 17262
Arg Asn Thr Phe Gln His Ser Val Val
1               5


<210> 17263
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; V216M; 0

<400> 17263
Arg Asn Thr Phe Arg His Ser Met Val
1               5


<210> 17264
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PIK3CA; C420R; 1

<400> 17264
Arg Pro Leu Ala Trp Gly Asn Ile Asn Leu
1               5                   10


<210> 17265
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; NRG1; L397P; 0

<400> 17265
Arg Pro Asn Gly Thr Gly Gly Pro Arg Glu Cys
1               5                   10


<210> 17266
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 17266
Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17267
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PCBP1; L100Q; 1

<400> 17267
Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17268
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PCBP1; L100Q; 1

<400> 17268
Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 17269
Arg Pro Pro Val Thr Gln Arg Leu Val
1               5


<210> 17270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PCBP1; L100Q; 1

<400> 17270
Arg Pro Pro Val Thr Gln Arg Leu Val
1               5


<210> 17271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; PCBP1; L100Q; 0

<400> 17271
Arg Pro Pro Val Thr Gln Arg Leu Val
1               5


<210> 17272
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 17272
Arg Pro Pro Val Thr Gln Arg Leu Val Val
1               5                   10


<210> 17273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PCBP1; L100Q; 1

<400> 17273
Arg Pro Pro Val Thr Gln Arg Leu Val Val
1               5                   10


<210> 17274
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PCBP1; L100Q; 0

<400> 17274
Arg Pro Pro Val Thr Gln Arg Leu Val Val
1               5                   10


<210> 17275
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; PCBP1; L100Q; 0

<400> 17275

Arg Pro Pro Val Thr Gln Arg Leu Val Val
1 5 10

<210> 17276
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; PCBP1; L100Q; 0

<400> 17276
Arg Pro Pro Val Thr Gln Arg Leu Val Val
1 5 10

<210> 17277
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; TP53; R283P; 0

<400> 17277
Arg Pro Thr Glu Glu Glu Asn Leu
1 5

<210> 17278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TP53; R283P; 0

<400> 17278
Arg Pro Thr Glu Glu Glu Asn Leu
1 5

<210> 17279
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; TP53; R283P; 0

<400> 17279
Arg Pro Thr Glu Glu Glu Asn Leu
1 5

<210> 17280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; TP53; R283P; 0

<400> 17280
Arg Pro Thr Glu Glu Glu Asn Leu Arg
1               5


<210> 17281
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CDKN2A; H83Y; 1

<400> 17281
Arg Pro Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5                   10


<210> 17282
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; PPP2R1A; S256F; 0

<400> 17282
Arg Gln Ala Ala Glu Asp Lys Phe
1               5


<210> 17283
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NFE2L2; D29G; 0

<400> 17283
Arg Gln Asp Ile Gly Leu Gly Val
1               5

<210> 17284
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NFE2L2; D29G; 0

<400> 17284
Arg Gln Asp Ile Gly Leu Gly Val
1               5


<210> 17285
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; NFE2L2; D29G; 1

<400> 17285
Arg Gln Asp Ile Gly Leu Gly Val
1               5


<210> 17286
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; NFE2L2; D29G; 0

<400> 17286
Arg Gln Asp Ile Gly Leu Gly Val
1               5


<210> 17287
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NFE2L2; D29G; 0

<400> 17287
Arg Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5                   10


<210> 17288
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NFE2L2; D29G; 0

<400> 17288
Arg Gln Asp Ile Gly Leu Gly Val Ser Arg
1               5                   10


<210> 17289
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NFE2L2; D29H; 0

<400> 17289
Arg Gln Asp Ile His Leu Gly Val
1               5


<210> 17290
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NFE2L2; D29H; 0

<400> 17290
Arg Gln Asp Ile His Leu Gly Val
1               5


<210> 17291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; NFE2L2; D29H; 0

<400> 17291
Arg Gln Asp Ile His Leu Gly Val
1               5


<210> 17292
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; NFE2L2; D29H; 0

<400> 17292
Arg Gln Asp Ile His Leu Gly Val
1               5


<210> 17293
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; NFE2L2; D29H; 1

<400> 17293
Arg Gln Asp Ile His Leu Gly Val
1               5


<210> 17294
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; NFE2L2; D29H; 0

<400> 17294
Arg Gln Asp Ile His Leu Gly Val
1               5


<210> 17295
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NFE2L2; D29H; 0

<400> 17295
Arg Gln Asp Ile His Leu Gly Val Ser Arg
1               5                   10


<210> 17296
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*31:01; SF3B1; R957Q; 0

<400> 17296
Arg Gln Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5                   10


<210> 17297
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; ERBB2; R678Q; 0

<400> 17297
Arg Gln Gln Gln Lys Ile Arg Lys Tyr
1               5


<210> 17298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; CDKN2A; P48L; 1

<400> 17298
Arg Arg Leu Ile Gln Val Met Met Met
1               5


<210> 17299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; G266R; 0

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Arg Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 17300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; TP53; G266R; 0

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1               5


<210> 17301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; E286K; 0

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Arg Arg Thr Glu Lys Glu Asn Leu Arg
1               5


<210> 17302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; MECOM; R750Q; 0

<400> 17302
Arg Ser Ala Asn Leu Thr Gln His Leu
1               5


<210> 17303
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; MECOM; R750Q; 0

<400> 17303
Arg Ser Ala Asn Leu Thr Gln His Leu
1               5


<210> 17304
<211> 9
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; MECOM; R750Q; 0

<400> 17304
Arg Ser Ala Asn Leu Thr Gln His Leu

1 5

<210> 17305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; MECOM; R750Q; 0

<400> 17305
Arg Ser Ala Asn Leu Thr Gln His Leu
1 5

<210> 17306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTCF; R377H; 1

<400> 17306
Arg Ser His Thr Gly Glu His Pro Phe
1 5

<210> 17307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTCF; R377H; 0

<400> 17307
Arg Ser His Thr Gly Glu His Pro Phe
1 5

<210> 17308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTCF; R377H; 0

<400> 17308
Arg Ser His Thr Gly Glu His Pro Phe
1 5

<210> 17309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:01; CTCF; R377H; 1

<400> 17309
Arg Ser His Thr Gly Glu His Pro Phe
1               5


<210> 17310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CTCF; R377H; 0

<400> 17310
Arg Ser His Thr Gly Glu His Pro Phe
1               5


<210> 17311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CTCF; R377H; 0

<400> 17311
Arg Ser His Thr Gly Glu His Pro Phe
1               5


<210> 17312
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; XPO1; R749Q; 0

<400> 17312
Arg Ser Met Gln Thr Val Lys Arg
1               5


<210> 17313

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; XPO1; R749Q; 0

<400> 17313
Arg Ser Met Gln Thr Val Lys Arg
1               5


<210> 17314
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; XPO1; R749Q; 1

<400> 17314
Arg Ser Met Gln Thr Val Lys Arg Glu Thr Leu
1               5                   10


<210> 17315
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PIK3CA; C378R; 0

<400> 17315
Arg Ser Asn Pro Arg Trp Asn Glu Trp
1               5


<210> 17316
<211> 10
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<220>
<223> Table A; HLA-C*01:02; TP53; R249S; 1

<400> 17316
Arg Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5                   10


<210> 17317
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; E286K; 1

<400> 17317
Arg Thr Glu Lys Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 17318
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; E286K; 1

<400> 17318
Arg Thr Glu Lys Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 17319
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; A1CF; E34K; 1

<400> 17319
Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 17320
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; A1CF; E34K; 0

<400> 17320
Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 17321
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; A1CF; E34K; 1

<400> 17321
Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 17322
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; A1CF; E34K; 0

<400> 17322
Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 17323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; A1CF; E34K; 0

<400> 17323
Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 17324
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; E285K; 0

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1               5


<210> 17325
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; TP53; E285K; 0

<400> 17325
Arg Thr Lys Glu Glu Asn Leu Arg
1               5


<210> 17326
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP53; E285K; 1

<400> 17326
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1               5


<210> 17327
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; E285K; 1

<400> 17327
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1               5


<210> 17328
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; E285K; 1

<400> 17328
Arg Thr Lys Glu Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 17329
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; FBXW7; G423V; 0

<400> 17329

Arg Thr Leu Val Gly His Thr Gly Val
1               5


<210> 17330
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; FBXW7; G423V; 1

<400> 17330
Arg Thr Leu Val Gly His Thr Gly Val Val Trp
1               5                   10


<210> 17331
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; ACVR1; R206H; 0

<400> 17331
Arg Thr Val Ala His Gln Ile Thr Leu
1               5


<210> 17332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; ACVR1; R206H; 0

<400> 17332
Arg Thr Val Ala His Gln Ile Thr Leu
1               5


<210> 17333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; ACVR1; R206H; 0

<400> 17333
Arg Thr Val Ala His Gln Ile Thr Leu
1               5

<210> 17334
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; ACVR1; R206H; 0

<400> 17334
Arg Thr Val Ala His Gln Ile Thr Leu Leu
1               5                   10


<210> 17335
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; K335I; 0

<400> 17335
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; K335I; 0

<400> 17336
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17337
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; CTNNB1; K335I; 1

<400> 17337
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5

<210> 17338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; CTNNB1; K335I; 1

<400> 17338
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:01; CTNNB1; K335I; 1

<400> 17339
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; CTNNB1; K335I; 1

<400> 17340
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17341
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CTNNB1; K335I; 0

<400> 17341
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17342
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CTNNB1; K335I; 1

<400> 17342
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; CTNNB1; K335I; 0

<400> 17343
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 17344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; K335I; 1

<400> 17344
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu Trp
1               5                   10


<210> 17345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; RUNX1T1; L265V; 1

<400> 17345
Arg Val Asp Asp Met Ala Ile Ala His
1               5


<210> 17346
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; RUNX1T1; L265V; 0

<400> 17346
Arg Val Asp Asp Met Ala Ile Ala His
1               5


<210> 17347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; RUNX1T1; L265V; 1

<400> 17347
Arg Val Asp Asp Met Ala Ile Ala His
1               5


<210> 17348
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; RUNX1T1; L265V; 1

<400> 17348
Arg Val Asp Asp Met Ala Ile Ala His His Tyr
1               5                   10


<210> 17349
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; RUNX1T1; L265V; 0

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Arg Val Asp Asp Met Ala Ile Ala His His Tyr
1               5                   10


<210> 17350
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<212> PRT
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<220>

<223> Table A; HLA-A*30:02; RUNX1T1; L265V; 0

<400> 17350
Arg Val Asp Asp Met Ala Ile Ala His His Tyr
1               5                   10


<210> 17351
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NRAS; G13R; 0

<400> 17351
Arg Val Gly Lys Ser Ala Leu Thr Ile
1               5


<210> 17352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; NRAS; G13R; 0

<400> 17352
Arg Val Gly Lys Ser Ala Leu Thr Ile
1               5


<210> 17353
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; BIRC6; G271R; 0

<400> 17353
Arg Val Gly Pro Gly Arg Ser Val
1               5


<210> 17354
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; BIRC6; G271R; 0

<400> 17354
Arg Val Gly Pro Gly Arg Ser Val
1               5


<210> 17355
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; BIRC6; G271R; 0

<400> 17355
Arg Val Gly Pro Gly Arg Ser Val Asp Arg
1               5                   10


<210> 17356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; R158H; 1

<400> 17356
Arg Val His Ala Met Ala Ile Tyr Lys
1               5


<210> 17357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; TP53; R158H; 0

<400> 17357
Arg Val His Ala Met Ala Ile Tyr Lys
1               5


<210> 17358
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; R158H; 0

<400> 17358
Arg Val His Ala Met Ala Ile Tyr Lys

1 5

<210> 17359
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PIK3CA; C378R; 0

<400> 17359
Arg Val Pro Arg Ser Asn Pro Arg Trp
1 5

<210> 17360
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP53; Y163C; 1

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Arg Val Arg Ala Met Ala Ile Cys Lys
1 5

<210> 17361
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP53; Y163H; 1

<400> 17361
Arg Val Arg Ala Met Ala Ile His Lys
1 5

<210> 17362
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP53; A159P; 1

<400> 17362
Arg Val Arg Pro Met Ala Ile Tyr Lys
1 5

<210> 17363
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; TP53; A159P; 0

<400> 17363
Arg Val Arg Pro Met Ala Ile Tyr Lys
1               5


<210> 17364
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; A159P; 1

<400> 17364
Arg Val Arg Pro Met Ala Ile Tyr Lys
1               5


<210> 17365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; A159P; 0

<400> 17365
Arg Val Arg Pro Met Ala Ile Tyr Lys
1               5


<210> 17366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; A159V; 1

<400> 17366
Arg Val Arg Val Met Ala Ile Tyr Lys
1               5


<210> 17367

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PTEN; G165R; 0

<400> 17367
Arg Val Thr Ile Pro Ser Gln Arg
1               5


<210> 17368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PTEN; G165R; 1

<400> 17368
Arg Val Thr Ile Pro Ser Gln Arg Arg
1               5


<210> 17369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PTEN; G165R; 1

<400> 17369
Arg Val Thr Ile Pro Ser Gln Arg Arg
1               5


<210> 17370
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PTEN; G165R; 0

<400> 17370
Arg Val Thr Ile Pro Ser Gln Arg Arg
1               5


<210> 17371
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; FBXW7; R479Q; 0

<400> 17371
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10


<210> 17372
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; FBXW7; R479Q; 0

<400> 17372
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10


<210> 17373
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; FBXW7; R479Q; 0

<400> 17373
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10


<210> 17374
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; FBXW7; R479Q; 0

<400> 17374
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10


<210> 17375
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; FBXW7; R479Q; 0

<400> 17375
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10


<210> 17376
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; EP300; D1399N; 0

<400> 17376
Arg Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5                   10


<210> 17377
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; EP300; D1399N; 0

<400> 17377
Arg Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5                   10


<210> 17378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; EP300; D1399N; 0

<400> 17378
Arg Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5                   10


<210> 17379
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; D281Y; 0

<400> 17379
Arg Tyr Arg Arg Thr Glu Glu Glu Asn Leu Arg
1               5                   10


<210> 17380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PTPN11; T468M; 1

<400> 17380
Ser Ala Gly Ile Gly Arg Thr Gly Met
1               5


<210> 17381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; MECOM; R750Q; 0

<400> 17381
Ser Ala Asn Leu Thr Gln His Leu Arg
1               5


<210> 17382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; MECOM; R750Q; 0

<400> 17382
Ser Ala Asn Leu Thr Gln His Leu Arg
1               5


<210> 17383
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; MECOM; R750Q; 0

<400> 17383

Ser Ala Asn Leu Thr Gln His Leu Arg
1 5

<210> 17384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; MECOM; R750Q; 0

<400> 17384
Ser Ala Asn Leu Thr Gln His Leu Arg
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<210> 17385
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CNTNAP2; R483Q; 1

<400> 17385
Ser Ala Val Gln Thr Asn Ser Pro Leu
1 5

<210> 17386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CNTNAP2; R483Q; 0

<400> 17386
Ser Ala Val Gln Thr Asn Ser Pro Leu
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<210> 17387
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<220>
<223> Table A; HLA-B*35:01; CNTNAP2; R483Q; 1

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Ser Ala Val Gln Thr Asn Ser Pro Leu
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<210> 17388
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<220>
<223> Table A; HLA-B*35:02; CNTNAP2; R483Q; 0

<400> 17388
Ser Ala Val Gln Thr Asn Ser Pro Leu
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<210> 17389
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<220>
<223> Table A; HLA-B*35:03; CNTNAP2; R483Q; 0

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<210> 17390
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<220>
<223> Table A; HLA-B*35:12; CNTNAP2; R483Q; 0

<400> 17390
Ser Ala Val Gln Thr Asn Ser Pro Leu
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<210> 17391
<211> 9
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<220>
<223> Table A; HLA-B*48:01; CNTNAP2; R483Q; 0

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<210> 17392
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<212> PRT
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<220>
<223> Table A; HLA-C*03:03; CNTNAP2; R483Q; 1

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<210> 17393
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<212> PRT
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<220>
<223> Table A; HLA-C*03:04; CNTNAP2; R483Q; 1

<400> 17393
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<210> 17394
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CNTNAP2; R483Q; 0

<400> 17394
Ser Ala Val Gln Thr Asn Ser Pro Leu
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<210> 17395
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; R248L; 0

<400> 17395
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<210> 17396
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; R248L; 0

<400> 17396
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1               5


<210> 17397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; R248L; 0

<400> 17397
Ser Cys Met Gly Gly Met Asn Leu Arg
1               5


<210> 17398
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; R248L; 0

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<210> 17399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; R248Q; 1

<400> 17399
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<210> 17400
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; TP53; R248Q; 0

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<210> 17401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; R248Q; 1

<400> 17401
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<210> 17402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TP53; R248Q; 0

<400> 17402
Ser Cys Met Gly Gly Met Asn Gln Arg
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<210> 17403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; R248Q; 0

<400> 17403
Ser Cys Met Gly Gly Met Asn Gln Arg
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<210> 17404
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*68:01; TP53; R248Q; 1

<400> 17404
Ser Cys Met Gly Gly Met Asn Gln Arg
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<210> 17405
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; R248Q; 1

<400> 17405
Ser Cys Met Gly Gly Met Asn Gln Arg Pro
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<210> 17406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; R249M; 1

<400> 17406
Ser Cys Met Gly Gly Met Asn Arg Met
1               5


<210> 17407
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; G245S; 1

<400> 17407
Ser Cys Met Gly Ser Met Asn Arg
1               5


<210> 17408
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; G245S; 0

<400> 17408
Ser Cys Met Gly Ser Met Asn Arg
1               5


<210> 17409
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G245S; 0

<400> 17409
Ser Cys Met Gly Ser Met Asn Arg
1               5


<210> 17410
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G245S; 0

<400> 17410
Ser Cys Met Gly Ser Met Asn Arg
1               5


<210> 17411
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; G245V; 1

<400> 17411
Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 17412
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; G245V; 0

<400> 17412
Ser Cys Met Gly Val Met Asn Arg

1 5

<210> 17413
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G245V; 0

<400> 17413
Ser Cys Met Gly Val Met Asn Arg
1 5

<210> 17414
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G245V; 0

<400> 17414
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1 5

<210> 17415
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; G245V; 0

<400> 17415
Ser Cys Met Gly Val Met Asn Arg Arg
1 5

<210> 17416
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; G245V; 0

<400> 17416
Ser Cys Met Gly Val Met Asn Arg Arg
1 5

<210> 17417
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; G244S; 1

<400> 17417
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1               5


<210> 17418
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; G244S; 0

<400> 17418
Ser Cys Met Ser Gly Met Asn Arg
1               5


<210> 17419
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; G244S; 0

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1               5


<210> 17420
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PPP2R1A; R183W; 1

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1               5


<210> 17421

<211> 9
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<220>
<223> Table A; HLA-B*44:03; PPP2R1A; R183W; 1

<400> 17421
Ser Asp Asp Thr Pro Met Val Arg Trp
1               5


<210> 17422
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PPP2R1A; R183W; 0

<400> 17422
Ser Asp Asp Thr Pro Met Val Arg Trp
1               5


<210> 17423
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; PPP2R1A; P179R; 1

<400> 17423
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1               5


<210> 17424
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; PPP2R1A; P179R; 1

<400> 17424
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1               5


<210> 17425
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PPP2R1A; P179R; 1

<400> 17425
Ser Asp Asp Thr Arg Met Val Arg
1               5


<210> 17426
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; PPP2R1A; P179R; 0

<400> 17426
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1               5


<210> 17427
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; TP53; H193L; 0

<400> 17427
Ser Asp Gly Leu Ala Pro Pro Gln Leu
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<210> 17428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; H193L; 0

<400> 17428
Ser Asp Gly Leu Ala Pro Pro Gln Leu
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<210> 17429
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*41:02; TP53; H193L; 0

<400> 17429
Ser Asp Gly Leu Ala Pro Pro Gln Leu
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<210> 17430
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; TP53; H193L; 0

<400> 17430
Ser Asp Gly Leu Ala Pro Pro Gln Leu
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<210> 17431
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; TP53; H193L; 0

<400> 17431
Ser Asp Gly Leu Ala Pro Pro Gln Leu
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<210> 17432
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; TP53; H193L; 0

<400> 17432
Ser Asp Gly Leu Ala Pro Pro Gln Leu
1               5


<210> 17433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; H193R; 0

<400> 17433
Ser Asp Gly Leu Ala Pro Pro Gln Arg
1               5


<210> 17434
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; TP53; H193R; 0

<400> 17434
Ser Asp Gly Leu Ala Pro Pro Gln Arg Leu
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<210> 17435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; TP53; H193Y; 0

<400> 17435
Ser Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 17436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; TP53; H193Y; 0

<400> 17436
Ser Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 17437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; TP53; H193Y; 0

<400> 17437

Ser Asp Gly Leu Ala Pro Pro Gln Tyr
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<210> 17438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; H193Y; 0

<400> 17438
Ser Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 17439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; GRIN2A; R1067W; 0

<400> 17439
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5


<210> 17440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; GRIN2A; R1067W; 0

<400> 17440
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5


<210> 17441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; GRIN2A; R1067W; 0

<400> 17441
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5

<210> 17442
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; GRIN2A; R1067W; 1

<400> 17442
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5


<210> 17443
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; GRIN2A; R1067W; 0

<400> 17443
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5


<210> 17444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; GRIN2A; R1067W; 0

<400> 17444
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5


<210> 17445
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; GRIN2A; R1067W; 0

<400> 17445
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5

<210> 17446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; GRIN2A; R1067W; 0

<400> 17446
Ser Asp Ile Ser Glu Thr Ser Asn Trp
1               5


<210> 17447
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; H193L; 0

<400> 17447
Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln Leu
1               5                   10


<210> 17448
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; H193R; 0

<400> 17448
Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln Arg
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<210> 17449
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; G34E; 0

<400> 17449
Ser Glu Ile His Ser Gly Ala Thr
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34E; 0

<400> 17450
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34E; 0

<400> 17451
Ser Glu Ile His Ser Gly Ala Thr Thr
1               5


<210> 17452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34E; 0

<400> 17452
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17453
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; CTNNB1; G34E; 0

<400> 17453
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17454
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; G34E; 0

<400> 17454
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17455
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:06; CTNNB1; G34E; 0

<400> 17455
Ser Glu Ile His Ser Gly Ala Thr Thr
1               5


<210> 17456
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*41:02; CTNNB1; G34E; 0

<400> 17456
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17457
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:02; CTNNB1; G34E; 1

<400> 17457
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17458
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<212> PRT
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<220>

<223> Table A; HLA-B*44:03; CTNNB1; G34E; 0

<400> 17458
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17459
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; G34E; 0

<400> 17459
Ser Glu Ile His Ser Gly Ala Thr Thr
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<210> 17460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CTNNB1; G34E; 0

<400> 17460
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<210> 17461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34E; 0

<400> 17461
Ser Glu Ile His Ser Gly Ala Thr Thr
1               5


<210> 17462
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34E; 0

<400> 17462
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
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<210> 17463
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34E; 0

<400> 17463
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
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<210> 17464
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; CTNNB1; G34E; 0

<400> 17464
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
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<210> 17465
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; G34E; 0

<400> 17465
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 17466
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:06; CTNNB1; G34E; 0

<400> 17466
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1 5 10

<210> 17467
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CTNNB1; G34E; 0

<400> 17467
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
1 5 10

<210> 17468
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CTNNB1; G34E; 0

<400> 17468
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
1 5 10

<210> 17469
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; G34E; 0

<400> 17469
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
1 5 10

<210> 17470
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CTNNB1; G34E; 0

<400> 17470
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
1 5 10

<210> 17471
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34E; 0

<400> 17471
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 17472
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34E; 0

<400> 17472
Ser Glu Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 17473
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34E; 0

<400> 17473
Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17474
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34E; 0

<400> 17474
Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17475

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; G34E; 0

<400> 17475
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1               5                   10


<210> 17476
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34E; 0

<400> 17476
Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17477
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; G34E; 1

<400> 17477
Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17478
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34E; 1

<400> 17478
Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17479
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CTNNB1; G34E; 0

<400> 17479
Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17480
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<210> 17481
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<223> Table A; HLA-B*40:06; CTNNB1; G34E; 0

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<210> 17482
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<223> Table A; HLA-B*41:02; CTNNB1; G34E; 0

<400> 17482
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<210> 17483
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<220>
<223> Table A; HLA-B*44:03; CTNNB1; G34E; 0

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1               5                   10


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<220>
<223> Table A; HLA-B*44:05; CTNNB1; G34E; 0

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1               5                   10


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<220>
<223> Table A; HLA-B*49:01; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34E; 0

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Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
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<220>
<223> Table A; HLA-B*55:02; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-A*30:01; FAM135B; S11L; 0

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<210> 17489
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<220>
<223> Table A; HLA-B*40:01; FAM135B; S11L; 0

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<223> Table A; HLA-B*40:02; FAM135B; S11L; 0

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<223> Table A; HLA-B*41:02; FAM135B; S11L; 0

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<220>
<223> Table A; HLA-B*44:03; FAM135B; S11L; 0

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<220>
<223> Table A; HLA-B*44:05; FAM135B; S11L; 0

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<220>
<223> Table A; HLA-B*49:01; FAM135B; S11L; 0

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<220>
<223> Table A; HLA-B*40:02; PIK3CA; E545A; 0

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1 5 10

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<220>
<223> Table A; HLA-B*41:02; PIK3CA; E545A; 0

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<210> 17497
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; E545A; 0

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<220>
<223> Table A; HLA-B*44:03; PIK3CA; E545A; 0

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<210> 17499
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; E545A; 0

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<210> 17500
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; PIK3CA; E545A; 0

<400> 17500
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<210> 17501
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; PIK3CA; E545A; 0

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<210> 17502
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; E545A; 0

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<210> 17503
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; E545A; 0

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Ser Glu Ile Thr Ala Gln Glu Lys Asp Phe Leu
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<210> 17504
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; E545D; 0

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<210> 17505
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<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; E545D; 1

<400> 17505
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<210> 17506
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; E545D; 0

<400> 17506
Ser Glu Ile Thr Asp Gln Glu Lys Asp Phe
1               5                   10


<210> 17507
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; E545D; 0

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<210> 17508
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; PIK3CA; E545D; 0

<400> 17508
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1               5                   10


<210> 17509
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; PIK3CA; E545D; 0

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Ser Glu Ile Thr Asp Gln Glu Lys Asp Phe Leu
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<210> 17510
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; E545D; 0

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Ser Glu Ile Thr Asp Gln Glu Lys Asp Phe Leu
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<210> 17511
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; E545D; 0

<400> 17511
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<210> 17512
<211> 10
<212> PRT
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<223> Table A; HLA-B*44:02; PIK3CA; Q546K; 1

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1               5                   10


<210> 17513
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; Q546K; 1

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<210> 17514
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; Q546K; 0

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1               5                   10


<210> 17515
<211> 11
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<220>
<223> Table A; HLA-B*40:01; PIK3CA; Q546K; 1

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1               5                   10


<210> 17516
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; Q546K; 0

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1               5                   10


<210> 17517
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; Q546K; 0

<400> 17517
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1               5                   10


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<220>
<223> Table A; HLA-B*44:02; PIK3CA; Q546P; 1

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1               5                   10


<210> 17519
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; Q546P; 1

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1               5                   10


<210> 17520
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; Q546P; 0

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<210> 17521
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<212> PRT
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<220>
<223> Table A; HLA-B*40:01; PIK3CA; Q546P; 1

<400> 17521
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1 5 10

<210> 17522
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; Q546P; 0

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1 5 10

<210> 17523
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; Q546P; 0

<400> 17523
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1 5 10

<210> 17524
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<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; Q546R; 1

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1 5 10

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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; Q546R; 1

<400> 17525
Ser Glu Ile Thr Glu Arg Glu Lys Asp Phe
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<210> 17526
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; Q546R; 0

<400> 17526
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1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; E545G; 0

<400> 17527
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1               5                   10


<210> 17528
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; PIK3CA; E545G; 0

<400> 17528
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe
1               5                   10


<210> 17529

<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; E545G; 1

<400> 17529
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe
1               5                   10


<210> 17530
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; E545G; 0

<400> 17530
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1               5                   10


<210> 17531
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; E545G; 0

<400> 17531
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1               5                   10


<210> 17532
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*16:04; PIK3CA; E545G; 0

<400> 17532
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe
1               5                   10


<210> 17533
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PIK3CA; E545G; 0

<400> 17533
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe Leu
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<210> 17534
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; PIK3CA; E545G; 0

<400> 17534
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe Leu
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<210> 17535
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; E545G; 0

<400> 17535
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe Leu
1               5                   10


<210> 17536
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<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; E545K; 1

<400> 17536
Ser Glu Ile Thr Lys Gln Glu Lys Asp Phe
1               5                   10


<210> 17537
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; E545K; 1

<400> 17537
Ser Glu Ile Thr Lys Gln Glu Lys Asp Phe
1               5                   10


<210> 17538
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PIK3CA; E545K; 0

<400> 17538
Ser Glu Ile Thr Lys Gln Glu Lys Asp Phe
1               5                   10


<210> 17539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; GRIN2A; R1067W; 0

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Ser Glu Thr Ser Asn Trp Ala Thr Cys
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<210> 17540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; S241F; 0

<400> 17540
Ser Phe Cys Met Gly Gly Met Asn Arg
1               5


<210> 17541
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<212> PRT
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<220>
<223> Table A; HLA-C*04:01; PIK3CA; Y1021C; 1

<400> 17541
Ser Phe Asp Asp Ile Ala Cys Ile
1               5


<210> 17542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; Y1021C; 0

<400> 17542
Ser Phe Asp Asp Ile Ala Cys Ile Arg
1               5


<210> 17543
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; C242F; 1

<400> 17543
Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17544
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; C242F; 0

<400> 17544
Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17545
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; C242F; 0

<400> 17545

Ser Phe Met Gly Gly Met Asn Arg
1 5

<210> 17546
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; C242F; 0

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Ser Phe Met Gly Gly Met Asn Arg
1 5

<210> 17547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; C242F; 0

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Ser Phe Met Gly Gly Met Asn Arg Arg
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<210> 17548
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; C242F; 0

<400> 17548
Ser Phe Met Gly Gly Met Asn Arg Arg
1 5

<210> 17549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

<400> 17549
Ser Gly Ala Thr Ala Thr Ala Pro Ser Leu
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<210> 17550
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41A; 1

<400> 17550
Ser Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5                   10


<210> 17551
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; T41A; 0

<400> 17551
Ser Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5                   10


<210> 17552
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 17552
Ser Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5                   10


<210> 17553
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 17553
Ser Gly Ala Thr Ala Thr Ala Pro Ser Leu Ser
1               5                   10

<210> 17554
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41A; 0

<400> 17554
Ser Gly Ala Thr Ala Thr Ala Pro Ser Leu Ser
1               5                   10


<210> 17555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; T41I; 0

<400> 17555
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu
1               5                   10


<210> 17556
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 17556
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu
1               5                   10


<210> 17557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 17557
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu
1               5                   10


<210> 17558
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; T41I; 0

<400> 17558
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu
1               5                   10


<210> 17559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41I; 0

<400> 17559
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu
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<210> 17560
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CTNNB1; T41I; 0

<400> 17560
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu
1               5                   10


<210> 17561
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 17561
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5                   10


<210> 17562
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41I; 0

<400> 17562
Ser Gly Ala Thr Ile Thr Ala Pro Ser Leu Ser
1               5                   10


<210> 17563
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; S45F; 1

<400> 17563
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S45F; 1

<400> 17564
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; S45F; 0

<400> 17565
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17566
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:01; CTNNB1; S45F; 1

<400> 17566
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S45F; 0

<400> 17567
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CTNNB1; S45F; 0

<400> 17568
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CTNNB1; S45F; 0

<400> 17569
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S45F; 0

<400> 17570
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1               5


<210> 17571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; S45F; 0

<400> 17571
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1               5


<210> 17572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; S45F; 0

<400> 17572
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45F; 0

<400> 17573
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 17574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; S45F; 0

<400> 17574
Ser Gly Ala Thr Thr Thr Ala Pro Phe

1 5

<210> 17575
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45F; 1

<400> 17575
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1 5 10

<210> 17576
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 17576
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1 5 10

<210> 17577
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45F; 0

<400> 17577
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1 5 10

<210> 17578
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

<400> 17578
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1 5 10

<210> 17579
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; S45F; 0

<400> 17579
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5                   10


<210> 17580
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; S45F; 0

<400> 17580
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5                   10


<210> 17581
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 17581
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5                   10


<210> 17582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 17582
Ser Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5                   10


<210> 17583

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

<400> 17583
Ser Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5                   10


<210> 17584
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S45P; 1

<400> 17584
Ser Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5                   10


<210> 17585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; S45P; 0

<400> 17585
Ser Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5                   10


<210> 17586
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 17586
Ser Gly Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5                   10


<210> 17587
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; RAC1; P29S; 1

<400> 17587
Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 17588
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; RAC1; P29S; 0

<400> 17588
Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 17589
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; RAC1; P29S; 0

<400> 17589
Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 17590
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; RAC1; P29S; 1

<400> 17590
Ser Gly Glu Tyr Ile Pro Thr Val
1               5


<210> 17591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; RAC1; P29S; 0

<400> 17591
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; P29S; 1

<400> 17592
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; RAC1; P29S; 1

<400> 17593
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RAC1; P29S; 1

<400> 17594
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17595
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:02; RAC1; P29S; 0

<400> 17595
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; RAC1; P29S; 0

<400> 17596
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; RAC1; P29S; 0

<400> 17597
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; RAC1; P29S; 0

<400> 17598
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; RAC1; P29S; 1

<400> 17599

Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; RAC1; P29S; 0

<400> 17600
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; RAC1; P29S; 0

<400> 17601
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; RAC1; P29S; 1

<400> 17602
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; RAC1; P29S; 1

<400> 17603
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5

<210> 17604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; RAC1; P29S; 0

<400> 17604
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; RAC1; P29S; 1

<400> 17605
Ser Gly Glu Tyr Ile Pro Thr Val Phe
1               5


<210> 17606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; ATM; R337C; 0

<400> 17606
Ser Gly Phe Cys Asn Ile Ala Val Lys
1               5


<210> 17607
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

<400> 17607
Ser Gly Ile His Ala Gly Ala Thr Thr Thr
1               5                   10

<210> 17608
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

<400> 17608
Ser Gly Ile His Ala Gly Ala Thr Thr Thr
1               5                   10


<210> 17609
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37A; 0

<400> 17609
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17610
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37A; 1

<400> 17610
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17611
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S37A; 1

<400> 17611
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17612
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37A; 0

<400> 17612
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17613
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; S37A; 0

<400> 17613
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17614
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

<400> 17614
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17615
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37A; 0

<400> 17615
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17616
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37A; 0

<400> 17616
Ser Gly Ile His Ala Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17617
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

<400> 17617
Ser Gly Ile His Pro Gly Ala Thr Thr Thr
1               5                   10


<210> 17618
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37P; 0

<400> 17618
Ser Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17619
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37P; 0

<400> 17619
Ser Gly Ile His Pro Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17620
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:05; CTNNB1; T41A; 0

<400> 17620
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; T41A; 0

<400> 17621
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; T41A; 1

<400> 17622
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41A; 0

<400> 17623
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; T41A; 0

<400> 17624
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; T41A; 0

<400> 17625
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; T41A; 0

<400> 17626
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; T41A; 0

<400> 17627
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 17628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; T41A; 0

<400> 17628
Ser Gly Ile His Ser Gly Ala Thr Ala

1 5

<210> 17629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; T41A; 0

<400> 17629
Ser Gly Ile His Ser Gly Ala Thr Ala
1 5

<210> 17630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 17630
Ser Gly Ile His Ser Gly Ala Thr Ala Thr
1 5 10

<210> 17631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; T41A; 0

<400> 17631
Ser Gly Ile His Ser Gly Ala Thr Ala Thr
1 5 10

<210> 17632
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41A; 0

<400> 17632
Ser Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1 5 10

<210> 17633
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41A; 1

<400> 17633
Ser Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 17634
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41A; 0

<400> 17634
Ser Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 17635
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; T41A; 0

<400> 17635
Ser Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 17636
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41I; 0

<400> 17636
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17637

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; T41I; 0

<400> 17637
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; T41I; 0

<400> 17638
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; T41I; 1

<400> 17639
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41I; 0

<400> 17640
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17641
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; T41I; 1

<400> 17641
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17642
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; T41I; 0

<400> 17642
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; T41I; 0

<400> 17643
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; CTNNB1; T41I; 0

<400> 17644
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; T41I; 0

<400> 17645
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; T41I; 0

<400> 17646
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; T41I; 0

<400> 17647
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CTNNB1; T41I; 1

<400> 17648
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; T41I; 0

<400> 17649
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTNNB1; T41I; 0

<400> 17650
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 17651
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CTNNB1; T41I; 1

<400> 17652
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17653
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41I; 0

<400> 17653

Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; CTNNB1; T41I; 1

<400> 17654
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CTNNB1; T41I; 1

<400> 17655
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; T41I; 0

<400> 17656
Ser Gly Ile His Ser Gly Ala Thr Ile
1               5


<210> 17657
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; T41I; 0

<400> 17657
Ser Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10

<210> 17658
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 17658
Ser Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 17659
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 17659
Ser Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 17660
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 17660
Ser Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 17661
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; T41I; 0

<400> 17661
Ser Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10

<210> 17662
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; T41I; 0

<400> 17662
Ser Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 17663
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; T41I; 0

<400> 17663
Ser Gly Ile His Ser Gly Ala Thr Ile Thr Ala
1               5                   10


<210> 17664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; TP53; G244S; 0

<400> 17664
Ser Gly Met Asn Arg Arg Pro Ile Leu
1               5


<210> 17665
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; G266E; 0

<400> 17665
Ser Gly Asn Leu Leu Glu Arg Asn Ser Phe
1               5                   10


<210> 17666
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; BRAF; G469V; 1

<400> 17666
Ser Gly Ser Phe Val Thr Val Tyr
1               5


<210> 17667
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; BRAF; G469V; 1

<400> 17667
Ser Gly Ser Phe Val Thr Val Tyr
1               5


<210> 17668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; BRAF; G469V; 1

<400> 17668
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 17669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; BRAF; G469V; 0

<400> 17669
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 17670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; BRAF; G469V; 1

<400> 17670
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 17671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; BRAF; G469V; 0

<400> 17671
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 17672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; BRAF; G469V; 0

<400> 17672
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 17673
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; FBXW7; R479Q; 0

<400> 17673
Ser Gly Ser Gln Asp Ala Thr Leu Arg Val Trp
1               5                   10


<210> 17674
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*07:02; KRAS; G12S; 1

<400> 17674
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 17675
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12S; 1

<400> 17675
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 17676
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; KRAS; G12S; 0

<400> 17676
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 17677
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*41:02; KRAS; G12S; 0

<400> 17677
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 17678
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12S; 0

<400> 17678
Ser Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 17679
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; IDH1; R132S; 0

<400> 17679
Ser His Ala Tyr Gly Asp Gln Tyr
1               5


<210> 17680
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; BCORL1; K1207N; 0

<400> 17680
Ser His Glu Glu Gly Ser Leu Glu Asn Lys
1               5                   10


<210> 17681
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; BCORL1; K1207N; 0

<400> 17681
Ser His Glu Glu Gly Ser Leu Glu Asn Lys Ala
1               5                   10


<210> 17682
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; BCORL1; K1207N; 0

<400> 17682
Ser His Glu Glu Gly Ser Leu Glu Asn Lys Ala

1 5 10

<210> 17683
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32Y; 1

<400> 17683
Ser His Trp Gln Gln Gln Ser Tyr Leu Tyr
1 5 10

<210> 17684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3R1; K567E; 0

<400> 17684
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1 5

<210> 17685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PIK3R1; K567E; 0

<400> 17685
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1 5

<210> 17686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PIK3R1; K567E; 0

<400> 17686
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1 5

<210> 17687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; PIK3R1; K567E; 0

<400> 17687
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 17688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PIK3R1; K567E; 0

<400> 17688
Ser Ile Glu Pro Asp Leu Ile Gln Leu
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<210> 17689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PIK3R1; K567E; 0

<400> 17689
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 17690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PIK3R1; K567E; 0

<400> 17690
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 17691

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; PIK3R1; K567E; 1

<400> 17691
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 17692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; PIK3R1; K567E; 0

<400> 17692
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 17693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; PIK3R1; K567E; 0

<400> 17693
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 17694
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3R1; K567E; 0

<400> 17694
Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 17695
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3R1; K567E; 0

<400> 17695
Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 17696
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PIK3R1; K567E; 0

<400> 17696
Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 17697
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3R1; K567E; 1

<400> 17697
Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg Lys
1               5                   10


<210> 17698
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; BRAF; N581S; 0

<400> 17698
Ser Ile Phe Leu His Glu Asp Leu Thr Val
1               5                   10


<210> 17699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ROBO2; D1014N; 0

<400> 17699
Ser Ile His Glu Leu Ala Val Asn Leu
1               5


<210> 17700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ROBO2; D1014N; 0

<400> 17700
Ser Ile His Glu Leu Ala Val Asn Leu
1               5


<210> 17701
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3R1; L573P; 0

<400> 17701
Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 17702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3R1; L573P; 0

<400> 17702
Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 17703
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3R1; L573P; 0

<400> 17703
Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 17704
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3R1; L573P; 0

<400> 17704
Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 17705
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3R1; L573P; 0

<400> 17705
Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 17706
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3R1; L573P; 0

<400> 17706
Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1               5                   10


<210> 17707
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3R1; L573P; 0

<400> 17707

Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg
1 5 10

<210> 17708
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3R1; L573P; 0

<400> 17708
Ser Ile Lys Pro Asp Leu Ile Gln Pro Arg Lys
1 5 10

<210> 17709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KLK2; E161K; 0

<400> 17709
Ser Ile Lys Pro Glu Glu Phe Leu Arg
1 5

<210> 17710
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KLK2; E161K; 0

<400> 17710
Ser Ile Lys Pro Glu Glu Phe Leu Arg Pro Arg
1 5 10

<210> 17711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; PREX2; E553K; 0

<400> 17711
Ser Lys Phe Lys Asp Glu Pro Leu Leu
1 5

<210> 17712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; PREX2; E553K; 0

<400> 17712
Ser Lys Phe Lys Asp Glu Pro Leu Leu
1               5


<210> 17713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; BCOR; N1425S; 0

<400> 17713
Ser Lys Asn Ala Gly Glu Thr Leu Leu
1               5


<210> 17714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; BCOR; N1425S; 0

<400> 17714
Ser Lys Asn Ala Gly Glu Thr Leu Leu
1               5


<210> 17715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; BCOR; N1425S; 0

<400> 17715
Ser Lys Asn Ala Gly Glu Thr Leu Leu
1               5

<210> 17716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; BCOR; N1425S; 0

<400> 17716
Ser Lys Asn Ala Gly Glu Thr Leu Leu
1               5


<210> 17717
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; BCOR; N1425S; 1

<400> 17717
Ser Lys Asn Ala Gly Glu Thr Leu Leu Gln Arg
1               5                   10


<210> 17718
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CHD4; R975H; 0

<400> 17718
Ser Lys Thr Glu Leu Ile Val His
1               5


<210> 17719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CHD4; R975H; 1

<400> 17719
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17720
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CHD4; R975H; 0

<400> 17720
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CHD4; R975H; 0

<400> 17721
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17722
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CHD4; R975H; 0

<400> 17722
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CHD4; R975H; 0

<400> 17723
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CHD4; R975H; 0

<400> 17724
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CHD4; R975H; 0

<400> 17725
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; CHD4; R975H; 1

<400> 17726
Ser Lys Thr Glu Leu Ile Val His Val
1               5


<210> 17727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; DCAF12L2; R378H; 1

<400> 17727
Ser Leu Leu Phe Tyr Asp Ile His Ala
1               5


<210> 17728
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:04; DCAF12L2; R378H; 0

<400> 17728
Ser Leu Leu Phe Tyr Asp Ile His Ala
1               5


<210> 17729
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; MB21D2; Q311E; 0

<400> 17729
Ser Leu Met Gln Ala Tyr Glu Ala
1               5


<210> 17730
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; MB21D2; Q311E; 0

<400> 17730
Ser Leu Met Gln Ala Tyr Glu Ala
1               5


<210> 17731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; MB21D2; Q311E; 1

<400> 17731
Ser Leu Met Gln Ala Tyr Glu Ala Cys
1               5


<210> 17732
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MB21D2; Q311E; 0

<400> 17732
Ser Leu Met Gln Ala Tyr Glu Ala Cys Lys
1               5                   10


<210> 17733
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; MB21D2; Q311E; 0

<400> 17733
Ser Leu Met Gln Ala Tyr Glu Ala Cys Lys
1               5                   10


<210> 17734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PTPRD; S431L; 0

<400> 17734
Ser Leu Thr Thr Ile Leu Val Gln Trp
1               5


<210> 17735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; PTPRD; S431L; 0

<400> 17735
Ser Leu Thr Thr Ile Leu Val Gln Trp
1               5


<210> 17736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PTPRD; S431L; 0

<400> 17736
Ser Leu Thr Thr Ile Leu Val Gln Trp

1 5

<210> 17737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PTPRD; S431L; 0

<400> 17737
Ser Leu Thr Thr Ile Leu Val Gln Trp
1 5

<210> 17738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ACSL3; R232Q; 0

<400> 17738
Ser Leu Val Pro Arg Leu Gln His Ile
1 5

<210> 17739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ACSL3; R232Q; 0

<400> 17739
Ser Leu Val Pro Arg Leu Gln His Ile
1 5

<210> 17740
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; A1CF; E34K; 0

<400> 17740
Ser Leu Val Gln Lys Asn Gly Gln Arg
1 5

<210> 17741
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SMARCA4; G1232S; 1

<400> 17741
Ser Met Phe Asp Gln Lys Ser Ser Ser His
1               5                   10


<210> 17742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; SMARCA4; G1232S; 0

<400> 17742
Ser Met Phe Asp Gln Lys Ser Ser Ser His
1               5                   10


<210> 17743
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; SMARCA4; G1232S; 1

<400> 17743
Ser Met Phe Asp Gln Lys Ser Ser Ser His
1               5                   10


<210> 17744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SMARCA4; G1232S; 0

<400> 17744
Ser Met Phe Asp Gln Lys Ser Ser Ser His
1               5                   10


<210> 17745

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SMARCA4; G1232S; 0

<400> 17745
Ser Met Phe Asp Gln Lys Ser Ser Ser His
1               5                   10


<210> 17746
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SMARCA4; G1232S; 0

<400> 17746
Ser Met Phe Asp Gln Lys Ser Ser Ser His
1               5                   10


<210> 17747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SMARCA4; G1232S; 0

<400> 17747
Ser Met Phe Asp Gln Lys Ser Ser Ser His
1               5                   10


<210> 17748
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PIK3CA; G1007R; 1

<400> 17748
Ser Met Met Leu Arg Ser Gly Met
1               5


<210> 17749
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PIK3CA; G1007R; 1

<400> 17749
Ser Met Met Leu Arg Ser Gly Met
1               5


<210> 17750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; XPO1; R749Q; 1

<400> 17750
Ser Met Gln Thr Val Lys Arg Glu Thr Leu
1               5                   10


<210> 17751
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; XPO1; R749Q; 0

<400> 17751
Ser Met Gln Thr Val Lys Arg Glu Thr Leu Lys
1               5                   10


<210> 17752
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CREBBP; P2094L; 0

<400> 17752
Ser Asn Leu Gln Leu Met Ala Ala
1               5


<210> 17753
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; L130F; 1

<400> 17753
Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 17754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; C135F; 1

<400> 17754
Ser Pro Ala Leu Asn Lys Met Phe Phe
1               5


<210> 17755
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; F134L; 1

<400> 17755
Ser Pro Ala Leu Asn Lys Met Leu
1               5


<210> 17756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; F134L; 1

<400> 17756
Ser Pro Ala Leu Asn Lys Met Leu
1               5


<210> 17757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; F134L; 1

<400> 17757
Ser Pro Ala Leu Asn Lys Met Leu Cys
1               5


<210> 17758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; TP53; F134L; 0

<400> 17758
Ser Pro Ala Leu Asn Lys Met Leu Cys
1               5


<210> 17759
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; F134L; 1

<400> 17759
Ser Pro Ala Leu Asn Lys Met Leu Cys Gln Leu
1               5                   10


<210> 17760
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; K132N; 1

<400> 17760
Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 17761
<211> 8
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; K132N; 1

<400> 17761

Ser Pro Ala Leu Asn Asn Met Phe
1 5

<210> 17762
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; TP53; K132N; 0

<400> 17762
Ser Pro Ala Leu Asn Asn Met Phe
1 5

<210> 17763
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TP53; K132N; 0

<400> 17763
Ser Pro Ala Leu Asn Asn Met Phe
1 5

<210> 17764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; TP53; K132N; 0

<400> 17764
Ser Pro Ala Leu Asn Asn Met Phe Cys
1 5

<210> 17765
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; K132R; 1

<400> 17765
Ser Pro Ala Leu Asn Arg Met Phe
1 5

<210> 17766
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; TP53; K132R; 1

<400> 17766
Ser Pro Ala Leu Asn Arg Met Phe Cys Gln Leu
1               5                   10


<210> 17767
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PDE4DIP; C1297R; 1

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Ser Pro Glu Arg Glu Glu His Asn Ser Leu
1               5                   10


<210> 17768
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<220>
<223> Table A; HLA-B*35:02; PDE4DIP; C1297R; 0

<400> 17768
Ser Pro Glu Arg Glu Glu His Asn Ser Leu
1               5                   10


<210> 17769
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<220>
<223> Table A; HLA-B*35:03; PDE4DIP; C1297R; 0

<400> 17769
Ser Pro Glu Arg Glu Glu His Asn Ser Leu
1               5                   10

<210> 17770
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; PDE4DIP; C1297R; 0

<400> 17770
Ser Pro Glu Arg Glu Glu His Asn Ser Leu
1               5                   10


<210> 17771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PDE4DIP; C1297R; 0

<400> 17771
Ser Pro Glu Arg Glu Glu His Asn Ser Leu
1               5                   10


<210> 17772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; R249S; 1

<400> 17772
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17773
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; R249S; 1

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1               5


<210> 17774
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; R249S; 0

<400> 17774
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1               5


<210> 17775
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TP53; R249S; 0

<400> 17775
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1               5


<210> 17776
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; TP53; R249S; 1

<400> 17776
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1               5


<210> 17777
<211> 9
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<220>
<223> Table A; HLA-B*35:02; TP53; R249S; 0

<400> 17777
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<210> 17778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TP53; R249S; 1

<400> 17778
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1               5


<210> 17779
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; TP53; R249S; 0

<400> 17779
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; TP53; R249S; 0

<400> 17780
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1               5


<210> 17781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; R249S; 0

<400> 17781
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17782
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*51:01; TP53; R249S; 1

<400> 17782
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R249S; 0

<400> 17783
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; TP53; R249S; 1

<400> 17784
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; TP53; R249S; 0

<400> 17785
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 17786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; TP53; R249S; 0

<400> 17786
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1               5


<210> 17787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; TP53; R249S; 0

<400> 17787
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1               5


<210> 17788
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; SFRP4; R232Q; 0

<400> 17788
Ser Pro Ile Pro Gln Thr Gln Val
1               5


<210> 17789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; SFRP4; R232Q; 1

<400> 17789
Ser Pro Ile Pro Gln Thr Gln Val
1               5


<210> 17790
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SFRP4; R232Q; 0

<400> 17790
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1 5

<210> 17791
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; SFRP4; R232Q; 0

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<210> 17792
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*55:02; SFRP4; R232Q; 0

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<210> 17793
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<212> PRT
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<220>
<223> Table A; HLA-B*56:01; SFRP4; R232Q; 0

<400> 17793
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<210> 17794
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; SFRP4; R232Q; 0

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Ser Pro Ile Pro Gln Thr Gln Val Pro
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<210> 17795
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SFRP4; R232Q; 0

<400> 17795
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1               5


<210> 17796
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; SFRP4; R232Q; 0

<400> 17796
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1               5


<210> 17797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; SFRP4; R232Q; 0

<400> 17797
Ser Pro Ile Pro Gln Thr Gln Val Pro
1               5


<210> 17798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; SFRP4; R232Q; 0

<400> 17798
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1               5


<210> 17799

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; SFRP4; R232Q; 0

<400> 17799
Ser Pro Ile Pro Gln Thr Gln Val Pro
1               5


<210> 17800
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; SFRP4; R232Q; 1

<400> 17800
Ser Pro Ile Pro Gln Thr Gln Val Pro Leu
1               5                   10


<210> 17801
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SFRP4; R232Q; 0

<400> 17801
Ser Pro Ile Pro Gln Thr Gln Val Pro Leu
1               5                   10


<210> 17802
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; SFRP4; R232Q; 0

<400> 17802
Ser Pro Ile Pro Gln Thr Gln Val Pro Leu
1               5                   10


<210> 17803
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; SFRP4; R232Q; 0

<400> 17803
Ser Pro Ile Pro Gln Thr Gln Val Pro Leu
1               5                   10


<210> 17804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; SFRP4; R232Q; 0

<400> 17804
Ser Pro Ile Pro Gln Thr Gln Val Pro Leu
1               5                   10


<210> 17805
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*56:01; SFRP4; R232Q; 0

<400> 17805
Ser Pro Ile Pro Gln Thr Gln Val Pro Leu
1               5                   10


<210> 17806
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; SFRP4; R232Q; 0

<400> 17806
Ser Pro Ile Pro Gln Thr Gln Val Pro Leu Ile
1               5                   10


<210> 17807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; TP53; P151S; 0

<400> 17807
Ser Pro Pro Gly Thr Arg Val Arg Ala
1               5


<210> 17808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; TP53; P151S; 0

<400> 17808
Ser Pro Pro Gly Thr Arg Val Arg Ala
1               5


<210> 17809
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; P151S; 1

<400> 17809
Ser Pro Pro Gly Thr Arg Val Arg Ala Met
1               5                   10


<210> 17810
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; P151S; 0

<400> 17810
Ser Pro Pro Gly Thr Arg Val Arg Ala Met
1               5                   10


<210> 17811
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; P151S; 1

<400> 17811
Ser Pro Pro Gly Thr Arg Val Arg Ala Met Ala
1               5                   10


<210> 17812
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MAX; R60Q; 0

<400> 17812
Ser Gln Ala Gln Ile Leu Asp Lys
1               5


<210> 17813
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; MAX; R60Q; 1

<400> 17813
Ser Gln Ala Gln Ile Leu Asp Lys
1               5


<210> 17814
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; MAX; R60Q; 0

<400> 17814
Ser Gln Ala Gln Ile Leu Asp Lys
1               5


<210> 17815
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; MAX; R60Q; 0

<400> 17815

Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5


<210> 17816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; MAX; R60Q; 0

<400> 17816
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5


<210> 17817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; MAX; R60Q; 0

<400> 17817
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5


<210> 17818
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; MAX; R60Q; 0

<400> 17818
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5


<210> 17819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; MAX; R60Q; 0

<400> 17819
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5

<210> 17820
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:01; MAX; R60Q; 0

<400> 17820
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1               5


<210> 17821
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; MAX; R60Q; 0

<400> 17821
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5


<210> 17822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; MAX; R60Q; 0

<400> 17822
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5


<210> 17823
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; MAX; R60Q; 0

<400> 17823
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5

<210> 17824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; MAX; R60Q; 0

<400> 17824
Ser Gln Ala Gln Ile Leu Asp Lys Ala
1               5


<210> 17825
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; FBXW7; R479Q; 0

<400> 17825
Ser Gln Asp Ala Thr Leu Arg Val
1               5


<210> 17826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; FBXW7; R479Q; 0

<400> 17826
Ser Gln Asp Ala Thr Leu Arg Val Trp
1               5


<210> 17827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; FBXW7; R479Q; 0

<400> 17827
Ser Gln Asp Ala Thr Leu Arg Val Trp
1               5


<210> 17828
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NFE2L2; R34Q; 0

<400> 17828
Ser Gln Glu Val Phe Asp Phe Ser Gln Arg
1               5                   10


<210> 17829
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; STAG2; R370Q; 0

<400> 17829
Ser Gln Phe Lys Asp Arg Ile Val
1               5


<210> 17830
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; STAG2; R370Q; 0

<400> 17830
Ser Gln Phe Lys Asp Arg Ile Val
1               5


<210> 17831
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; STAG2; R370Q; 0

<400> 17831
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17832
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; STAG2; R370Q; 0

<400> 17832
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17833
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; STAG2; R370Q; 0

<400> 17833
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17834
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; STAG2; R370Q; 0

<400> 17834
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; STAG2; R370Q; 0

<400> 17835
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17836
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*11:01; STAG2; R370Q; 0

<400> 17836
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17837
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; STAG2; R370Q; 0

<400> 17837
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17838
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; STAG2; R370Q; 0

<400> 17838
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; STAG2; R370Q; 0

<400> 17839
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17840
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; STAG2; R370Q; 0

<400> 17840
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; STAG2; R370Q; 0

<400> 17841
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17842
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; STAG2; R370Q; 0

<400> 17842
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17843
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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; STAG2; R370Q; 0

<400> 17843
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1               5                   10


<210> 17844
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; STAG2; R370Q; 0

<400> 17844
Ser Gln Phe Lys Asp Arg Ile Val Ser Met

1 5 10

<210> 17845
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; STAG2; R370Q; 0

<400> 17845
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1 5 10

<210> 17846
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; STAG2; R370Q; 0

<400> 17846
Ser Gln Phe Lys Asp Arg Ile Val Ser Met
1 5 10

<210> 17847
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; STAG2; R370Q; 0

<400> 17847
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1 5 10

<210> 17848
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TP53; V173L; 0

<400> 17848
Ser Gln His Met Thr Glu Val Leu
1 5

<210> 17849
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; TP53; V173L; 0

<400> 17849
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 17850
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; V173L; 0

<400> 17850
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1               5


<210> 17851
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; TP53; V173L; 0

<400> 17851
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 17852
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; V173L; 0

<400> 17852
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 17853

<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; V173L; 0

<400> 17853
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 17854
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*15:03; TP53; V173L; 0

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1               5


<210> 17855
<211> 8
<212> PRT
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<223> Table A; HLA-B*15:10; TP53; V173L; 0

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1               5


<210> 17856
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; TP53; V173L; 0

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1               5


<210> 17857
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; V173L; 0

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1               5


<210> 17858
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; V173L; 0

<400> 17858
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 17859
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; V173L; 0

<400> 17859
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 17860
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; TP53; V173L; 0

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1               5


<210> 17861
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; V173L; 0

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Ser Gln His Met Thr Glu Val Leu
1               5


<210> 17862
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; TP53; V173L; 0

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1               5


<210> 17863
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; V173L; 0

<400> 17863
Ser Gln His Met Thr Glu Val Leu Arg
1               5


<210> 17864
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; TP53; V173L; 0

<400> 17864
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1               5


<210> 17865
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; TP53; V173L; 0

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1               5


<210> 17866
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*08:01; TP53; V173M; 1

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1               5


<210> 17867
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*13:01; TP53; V173M; 0

<400> 17867
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1               5


<210> 17868
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; TP53; V173M; 0

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1               5


<210> 17869
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; TP53; V173M; 0

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1               5


<210> 17870
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; TP53; V173M; 0

<400> 17870
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1               5


<210> 17871
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; V173M; 0

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1               5


<210> 17872
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; TP53; V173M; 0

<400> 17872
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1               5


<210> 17873
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<212> PRT
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<220>
<223> Table A; HLA-B*15:10; TP53; V173M; 0

<400> 17873
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1               5

<210> 17874
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*35:01; TP53; V173M; 0

<400> 17874
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1               5


<210> 17875
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*35:08; TP53; V173M; 0

<400> 17875
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1               5


<210> 17876
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; TP53; V173M; 0

<400> 17876
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1               5


<210> 17877
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; TP53; V173M; 0

<400> 17877
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1               5

<210> 17878
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; V173M; 0

<400> 17878
Ser Gln His Met Thr Glu Val Met
1               5


<210> 17879
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; TP53; V173M; 0

<400> 17879
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1               5


<210> 17880
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*46:01; TP53; V173M; 0

<400> 17880
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1               5


<210> 17881
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; TP53; V173M; 0

<400> 17881
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1               5


<210> 17882
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; TP53; V173M; 0

<400> 17882
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<210> 17883
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; TP53; V173M; 0

<400> 17883
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<210> 17884
<211> 9
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<220>
<223> Table A; HLA-A*31:01; TP53; V173M; 0

<400> 17884
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1               5


<210> 17885
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; TP53; V173M; 0

<400> 17885
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<210> 17886
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; TP53; V173M; 0

<400> 17886
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<210> 17887
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; SF3B1; R957Q; 1

<400> 17887
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<210> 17888
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; SF3B1; R957Q; 0

<400> 17888
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<210> 17889
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; SF3B1; R957Q; 1

<400> 17889
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<210> 17890
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<212> PRT
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<220>

<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

<400> 17890
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<210> 17891
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; SF3B1; R957Q; 1

<400> 17891
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<210> 17892
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; SF3B1; R957Q; 0

<400> 17892
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<210> 17893
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 17893
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1               5


<210> 17894
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; SF3B1; R957Q; 1

<400> 17894
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1               5


<210> 17895
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; SF3B1; R957Q; 0

<400> 17895
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1               5


<210> 17896
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; SF3B1; R957Q; 0

<400> 17896
Ser Gln Thr Ala Val Val Met Lys Thr
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<210> 17897
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; SF3B1; R957Q; 0

<400> 17897
Ser Gln Thr Ala Val Val Met Lys Thr
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<210> 17898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; SF3B1; R957Q; 0

<400> 17898
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1 5

<210> 17899
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; SF3B1; R957Q; 0

<400> 17899
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<210> 17900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SF3B1; R957Q; 1

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<210> 17901
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; SF3B1; R957Q; 0

<400> 17901
Ser Gln Thr Ala Val Val Met Lys Thr
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<210> 17902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; SF3B1; R957Q; 0

<400> 17902
Ser Gln Thr Ala Val Val Met Lys Thr
1 5

<210> 17903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R957Q; 0

<400> 17903
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17904
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:01; SF3B1; R957Q; 0

<400> 17904
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SF3B1; R957Q; 0

<400> 17905
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17906
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; SF3B1; R957Q; 1

<400> 17906
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17907

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; SF3B1; R957Q; 0

<400> 17907
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; SF3B1; R957Q; 1

<400> 17908
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SF3B1; R957Q; 0

<400> 17909
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SF3B1; R957Q; 0

<400> 17910
Ser Gln Thr Ala Val Val Met Lys Thr
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<210> 17911
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; SF3B1; R957Q; 0

<400> 17911
Ser Gln Thr Ala Val Val Met Lys Thr
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<210> 17912
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; SF3B1; R957Q; 0

<400> 17912
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17913
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; SF3B1; R957Q; 0

<400> 17913
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17914
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; SF3B1; R957Q; 0

<400> 17914
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17915
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; SF3B1; R957Q; 0

<400> 17915
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17916
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*16:02; SF3B1; R957Q; 0

<400> 17916
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 17917
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CHD4; R1162W; 0

<400> 17917
Ser Arg Ala His Trp Ile Gly Gln Asn Lys
1               5                   10


<210> 17918
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; CTNNB1; G34R; 1

<400> 17918
Ser Arg Ile His Ser Gly Ala Thr Thr
1               5


<210> 17919
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34R; 0

<400> 17919
Ser Arg Ile His Ser Gly Ala Thr Thr
1               5


<210> 17920
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; G34R; 0

<400> 17920
Ser Arg Ile His Ser Gly Ala Thr Thr Thr
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<210> 17921
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; G34R; 1

<400> 17921
Ser Arg Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 17922
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34R; 0

<400> 17922
Ser Arg Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 17923
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; G34R; 0

<400> 17923

Ser Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17924
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; G34R; 1

<400> 17924
Ser Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17925
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34R; 0

<400> 17925
Ser Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17926
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34R; 0

<400> 17926
Ser Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 17927
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; G34R; 0

<400> 17927
Ser Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10

<210> 17928
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; PCBP1; L100Q; 0

<400> 17928
Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 17929
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; PCBP1; L100Q; 0

<400> 17929
Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 17930
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PCBP1; L100Q; 0

<400> 17930
Ser Arg Pro Pro Val Thr Gln Arg
1               5


<210> 17931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PCBP1; L100Q; 0

<400> 17931
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5

<210> 17932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; PCBP1; L100Q; 0

<400> 17932
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PCBP1; L100Q; 1

<400> 17933
Ser Arg Pro Pro Val Thr Gln Arg Leu
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<210> 17934
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; PCBP1; L100Q; 0

<400> 17934
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; PCBP1; L100Q; 1

<400> 17935
Ser Arg Pro Pro Val Thr Gln Arg Leu
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<210> 17936
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PCBP1; L100Q; 0

<400> 17936
Ser Arg Pro Pro Val Thr Gln Arg Leu
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<210> 17937
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; PCBP1; L100Q; 0

<400> 17937
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<210> 17938
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 17938
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<210> 17939
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; PCBP1; L100Q; 0

<400> 17939
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17940
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:01; PCBP1; L100Q; 0

<400> 17940
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; PCBP1; L100Q; 0

<400> 17941
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PCBP1; L100Q; 0

<400> 17942
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17943
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; PCBP1; L100Q; 0

<400> 17943
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17944
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*38:01; PCBP1; L100Q; 0

<400> 17944
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; PCBP1; L100Q; 0

<400> 17945
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PCBP1; L100Q; 0

<400> 17946
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; PCBP1; L100Q; 1

<400> 17947
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; PCBP1; L100Q; 0

<400> 17948
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PCBP1; L100Q; 1

<400> 17949
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1               5


<210> 17950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; PCBP1; L100Q; 0

<400> 17950
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<210> 17951
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*48:01; PCBP1; L100Q; 0

<400> 17951
Ser Arg Pro Pro Val Thr Gln Arg Leu
1               5


<210> 17952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; PCBP1; L100Q; 1

<400> 17952
Ser Arg Pro Pro Val Thr Gln Arg Leu

1 5

<210> 17953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:01; PCBP1; L100Q; 1

<400> 17953
Ser Arg Pro Pro Val Thr Gln Arg Leu
1 5

<210> 17954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; PCBP1; L100Q; 1

<400> 17954
Ser Arg Pro Pro Val Thr Gln Arg Leu
1 5

<210> 17955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; PCBP1; L100Q; 0

<400> 17955
Ser Arg Pro Pro Val Thr Gln Arg Leu
1 5

<210> 17956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; PCBP1; L100Q; 0

<400> 17956
Ser Arg Pro Pro Val Thr Gln Arg Leu
1 5

<210> 17957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; PCBP1; L100Q; 1

<400> 17957
Ser Arg Pro Pro Val Thr Gln Arg Leu Val
1               5                   10


<210> 17958
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; R248Q; 1

<400> 17958
Ser Ser Cys Met Gly Gly Met Asn Gln Arg
1               5                   10


<210> 17959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G245S; 0

<400> 17959
Ser Ser Cys Met Gly Ser Met Asn Arg
1               5


<210> 17960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; G245V; 1

<400> 17960
Ser Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 17961

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; G245V; 0

<400> 17961
Ser Ser Cys Met Gly Val Met Asn Arg
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<210> 17962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G245V; 0

<400> 17962
Ser Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 17963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G245V; 0

<400> 17963
Ser Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 17964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G244S; 0

<400> 17964
Ser Ser Cys Met Ser Gly Met Asn Arg
1               5


<210> 17965
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SMAD4; G352V; 0

<400> 17965
Ser Ser Cys Pro Ile Val Thr Val Asp Val
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<210> 17966
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; TP53; C242F; 1

<400> 17966
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17967
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; TP53; C242F; 0

<400> 17967
Ser Ser Phe Met Gly Gly Met Asn Arg
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<210> 17968
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; C242F; 1

<400> 17968
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; TP53; C242F; 0

<400> 17969
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17970
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; C242F; 0

<400> 17970
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; C242F; 0

<400> 17971
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17972
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; TP53; C242F; 0

<400> 17972
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; C242F; 0

<400> 17973
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; C242F; 0

<400> 17974
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17975
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; TP53; C242F; 0

<400> 17975
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; C242F; 0

<400> 17976
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 17977
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; C242F; 1

<400> 17977

Ser Ser Phe Met Gly Gly Met Asn Arg Arg
1 5 10

<210> 17978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; C242F; 0

<400> 17978
Ser Ser Phe Met Gly Gly Met Asn Arg Arg
1 5 10

<210> 17979
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; C242F; 0

<400> 17979
Ser Ser Phe Met Gly Gly Met Asn Arg Arg
1 5 10

<210> 17980
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; G266E; 0

<400> 17980
Ser Ser Gly Asn Leu Leu Glu Arg
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<210> 17981
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G266E; 0

<400> 17981
Ser Ser Gly Asn Leu Leu Glu Arg
1 5

<210> 17982
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G266E; 0

<400> 17982
Ser Ser Gly Asn Leu Leu Glu Arg
1               5


<210> 17983
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; G266V; 0

<400> 17983
Ser Ser Gly Asn Leu Leu Val Arg
1               5


<210> 17984
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; G266V; 0

<400> 17984
Ser Ser Gly Asn Leu Leu Val Arg
1               5


<210> 17985
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G266V; 0

<400> 17985
Ser Ser Gly Asn Leu Leu Val Arg
1               5

<210> 17986
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; LIFR; E319K; 0

<400> 17986
Ser Ser Gly Thr Asn Val Val Phe Thr Thr Lys
1               5                   10


<210> 17987
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; LIFR; E319K; 0

<400> 17987
Ser Ser Gly Thr Asn Val Val Phe Thr Thr Lys
1               5                   10


<210> 17988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; MB21D2; Q311E; 0

<400> 17988
Ser Ser Leu Met Gln Ala Tyr Glu Ala
1               5


<210> 17989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; MB21D2; Q311E; 0

<400> 17989
Ser Ser Leu Met Gln Ala Tyr Glu Ala
1               5


<210> 17990
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; MB21D2; Q311E; 0

<400> 17990
Ser Ser Leu Met Gln Ala Tyr Glu Ala
1               5


<210> 17991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; DCC; R446H; 0

<400> 17991
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<210> 17992
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; N239S; 0

<400> 17992
Ser Ser Ser Cys Met Gly Gly Met Asn Arg
1               5                   10


<210> 17993
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SFRP4; R232Q; 0

<400> 17993
Ser Ser Ser Pro Ile Pro Gln Thr Gln Val
1               5                   10


<210> 17994
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; MAP2K1; P124S; 1

<400> 17994
Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 17995
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; MAP2K1; P124S; 0

<400> 17995
Ser Ser Tyr Ile Val Gly Phe Tyr
1               5


<210> 17996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ERBB2; S310F; 0

<400> 17996
Ser Thr Asp Val Gly Phe Cys Thr Leu
1               5


<210> 17997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; ERBB2; S310F; 0

<400> 17997
Ser Thr Asp Val Gly Phe Cys Thr Leu
1               5


<210> 17998
<211> 9
<212> PRT
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<220>

<223> Table A; HLA-B*15:02; ERBB2; S310F; 0

<400> 17998
Ser Thr Asp Val Gly Phe Cys Thr Leu
1               5


<210> 17999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; ERBB2; S310F; 0

<400> 17999
Ser Thr Asp Val Gly Phe Cys Thr Leu
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<210> 18000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; ERBB2; S310F; 1

<400> 18000
Ser Thr Asp Val Gly Phe Cys Thr Leu
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<210> 18001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; ERBB2; S310F; 1

<400> 18001
Ser Thr Asp Val Gly Phe Cys Thr Leu
1               5


<210> 18002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; ERBB2; S310F; 1

<400> 18002
Ser Thr Asp Val Gly Phe Cys Thr Leu
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<210> 18003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; ERBB2; S310F; 0

<400> 18003
Ser Thr Asp Val Gly Phe Cys Thr Leu
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<210> 18004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; ERBB2; S310F; 1

<400> 18004
Ser Thr Asp Val Gly Phe Cys Thr Leu
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<210> 18005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; ERBB2; S310Y; 0

<400> 18005
Ser Thr Asp Val Gly Tyr Cys Thr Leu
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<210> 18006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; ERBB2; S310Y; 0

<400> 18006
Ser Thr Asp Val Gly Tyr Cys Thr Leu

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<210> 18007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; ERBB2; S310Y; 0

<400> 18007
Ser Thr Asp Val Gly Tyr Cys Thr Leu
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<210> 18008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; ERBB2; S310Y; 0

<400> 18008
Ser Thr Asp Val Gly Tyr Cys Thr Leu
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<210> 18009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; ERBB2; S310Y; 0

<400> 18009
Ser Thr Asp Val Gly Tyr Cys Thr Leu
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<210> 18010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; ERBB2; S310Y; 1

<400> 18010
Ser Thr Asp Val Gly Tyr Cys Thr Leu
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<210> 18011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; ERBB2; S310Y; 1

<400> 18011
Ser Thr Asp Val Gly Tyr Cys Thr Leu
1               5


<210> 18012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; ERBB2; S310Y; 0

<400> 18012
Ser Thr Asp Val Gly Tyr Cys Thr Leu
1               5


<210> 18013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; ERBB2; S310Y; 0

<400> 18013
Ser Thr Asp Val Gly Tyr Cys Thr Leu
1               5


<210> 18014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; MYCN; P44L; 1

<400> 18014
Ser Thr Leu Pro Gly Glu Asp Ile Trp
1               5


<210> 18015

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; MYCN; P44L; 1

<400> 18015
Ser Thr Leu Pro Gly Glu Asp Ile Trp Lys Lys
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<210> 18016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CHST11; A159T; 1

<400> 18016
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18017
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CHST11; A159T; 1

<400> 18017
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18018
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CHST11; A159T; 0

<400> 18018
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18019
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CHST11; A159T; 0

<400> 18019
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18020
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; CHST11; A159T; 0

<400> 18020
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18021
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; CHST11; A159T; 0

<400> 18021
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18022
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CHST11; A159T; 1

<400> 18022
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18023
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CHST11; A159T; 0

<400> 18023
Ser Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5                   10


<210> 18024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; V157F; 1

<400> 18024
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; TP53; V157F; 0

<400> 18025
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; TP53; V157F; 0

<400> 18026
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; TP53; V157F; 0

<400> 18027
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; TP53; V157F; 0

<400> 18028
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; V157F; 1

<400> 18029
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18030
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; V157F; 1

<400> 18030
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18031
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; TP53; V157F; 0

<400> 18031

Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18032
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; TP53; V157F; 0

<400> 18032
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; V157F; 1

<400> 18033
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; TP53; V157F; 0

<400> 18034
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18035
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; V157F; 0

<400> 18035
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5

<210> 18036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; TP53; V157F; 1

<400> 18036
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; TP53; V157F; 0

<400> 18037
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; V157F; 0

<400> 18038
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; V157F; 0

<400> 18039
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5

<210> 18040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; V157F; 0

<400> 18040
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; TP53; V157F; 0

<400> 18041
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; TP53; V157F; 1

<400> 18042
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18043
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; V157F; 1

<400> 18043
Ser Thr Pro Pro Pro Gly Thr Arg Phe Arg
1               5                   10


<210> 18044
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; V157F; 0

<400> 18044
Ser Thr Pro Pro Pro Gly Thr Arg Phe Arg
1               5                   10


<210> 18045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; V157F; 0

<400> 18045
Ser Thr Pro Pro Pro Gly Thr Arg Phe Arg
1               5                   10


<210> 18046
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; V157F; 0

<400> 18046
Ser Thr Pro Pro Pro Gly Thr Arg Phe Arg
1               5                   10


<210> 18047
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; R158H; 0

<400> 18047
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1               5                   10


<210> 18048
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; A159V; 0

<400> 18048
Ser Thr Pro Pro Pro Gly Thr Arg Val Arg Val
1               5                   10


<210> 18049
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; SMARCA4; G1162S; 0

<400> 18049
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1               5


<210> 18050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; SMARCA4; G1162S; 1

<400> 18050
Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5


<210> 18051
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; SMARCA4; G1162S; 0

<400> 18051
Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5


<210> 18052
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<212> PRT
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<223> Table A; HLA-A*30:01; SMARCA4; G1162S; 0

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1               5


<210> 18053
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; SMARCA4; G1162S; 1

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1               5


<210> 18054
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; SMARCA4; G1162S; 1

<400> 18054
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1               5


<210> 18055
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; SMARCA4; G1162S; 0

<400> 18055
Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5


<210> 18056
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SMARCA4; G1162S; 0

<400> 18056
Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5


<210> 18057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SMARCA4; G1162S; 0

<400> 18057
Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5


<210> 18058
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMARCA4; G1162S; 0

<400> 18058
Ser Thr Arg Ala Gly Gly Leu Ser Leu
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<210> 18059
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; SMARCA4; G1162S; 0

<400> 18059
Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5


<210> 18060
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; SMARCA4; G1162S; 0

<400> 18060
Ser Thr Arg Ala Gly Gly Leu Ser Leu

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<210> 18061
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; SMARCA4; G1162S; 0

<400> 18061
Ser Thr Arg Ala Gly Gly Leu Ser Leu
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<210> 18062
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; SMARCA4; G1162S; 0

<400> 18062
Ser Thr Arg Ala Gly Gly Leu Ser Leu
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<210> 18063
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*03:03; SMARCA4; G1162S; 0

<400> 18063
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1 5

<210> 18064
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; SMARCA4; G1162S; 0

<400> 18064
Ser Thr Arg Ala Gly Gly Leu Ser Leu
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<210> 18065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; SMARCA4; G1162S; 0

<400> 18065
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1               5


<210> 18066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; SMARCA4; G1162S; 0

<400> 18066
Ser Thr Arg Ala Gly Gly Leu Ser Leu
1               5


<210> 18067
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; SMARCA4; G1162S; 0

<400> 18067
Ser Thr Arg Ala Gly Gly Leu Ser Leu Asn Leu
1               5                   10


<210> 18068
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; SMARCA4; G1162S; 0

<400> 18068
Ser Thr Arg Ala Gly Gly Leu Ser Leu Asn Leu
1               5                   10


<210> 18069

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PIK3CA; E545A; 0

<400> 18069
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Ala
1               5                   10


<210> 18070
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; PIK3CA; E545K; 1

<400> 18070
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 18071
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; PIK3CA; E545K; 0

<400> 18071
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1               5                   10


<210> 18072
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; E545K; 1

<400> 18072
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 18073
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; E545K; 1

<400> 18073
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 18074
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; E545K; 1

<400> 18074
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 18075
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; E545K; 0

<400> 18075
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 18076
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; E545K; 1

<400> 18076
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1               5                   10


<210> 18077
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; PIK3CA; E542K; 1

<400> 18077
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1               5


<210> 18078
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PIK3CA; E542K; 0

<400> 18078
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<210> 18079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PIK3CA; E542K; 1

<400> 18079
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<210> 18080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; E542K; 0

<400> 18080
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<210> 18081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; PIK3CA; E542K; 0

<400> 18081
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<210> 18082
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*25:01; PIK3CA; E542K; 1

<400> 18082
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<210> 18083
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; PIK3CA; E542K; 1

<400> 18083
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<210> 18084
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; PIK3CA; E542K; 1

<400> 18084
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<210> 18085
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; PIK3CA; E542K; 1

<400> 18085

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1 5

<210> 18086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E542K; 1

<400> 18086
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1 5

<210> 18087
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; PIK3CA; E542K; 0

<400> 18087
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<210> 18088
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; PIK3CA; E542K; 1

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<210> 18089
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; PIK3CA; E542V; 0

<400> 18089
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<210> 18090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; E542V; 0

<400> 18090
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<210> 18091
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; PIK3CA; E542V; 0

<400> 18091
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<210> 18092
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<220>
<223> Table A; HLA-A*25:01; PIK3CA; E542V; 0

<400> 18092
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<210> 18093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; PIK3CA; E542V; 0

<400> 18093
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<210> 18094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; PIK3CA; E542V; 0

<400> 18094
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<210> 18095
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; PIK3CA; E542V; 0

<400> 18095
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<210> 18096
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<212> PRT
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<220>
<223> Table A; HLA-B*07:02; PIK3CA; E542V; 1

<400> 18096
Ser Thr Arg Asp Pro Leu Ser Val Ile
1               5


<210> 18097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; PIK3CA; E542V; 0

<400> 18097
Ser Thr Arg Asp Pro Leu Ser Val Ile
1               5


<210> 18098
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E542V; 0

<400> 18098
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1               5


<210> 18099
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; PIK3CA; E542V; 0

<400> 18099
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1               5


<210> 18100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; PIK3CA; E542V; 0

<400> 18100
Ser Thr Arg Asp Pro Leu Ser Val Ile
1               5


<210> 18101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; PIK3CA; E542V; 0

<400> 18101
Ser Thr Arg Asp Pro Leu Ser Val Ile
1               5


<210> 18102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; PIK3CA; E542V; 0

<400> 18102
Ser Thr Arg Asp Pro Leu Ser Val Ile
1               5


<210> 18103
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; E542V; 0

<400> 18103
Ser Thr Arg Asp Pro Leu Ser Val Ile Thr Glu
1               5                   10


<210> 18104
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; P151S; 0

<400> 18104
Ser Thr Ser Pro Pro Gly Thr Arg
1               5


<210> 18105
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; TP53; P151S; 0

<400> 18105
Ser Thr Ser Pro Pro Gly Thr Arg
1               5


<210> 18106
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*01:01; TP53; P151S; 1

<400> 18106
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18107
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; TP53; P151S; 0

<400> 18107
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18108
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TP53; P151S; 0

<400> 18108
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TP53; P151S; 0

<400> 18109
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; TP53; P151S; 0

<400> 18110
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18111
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; P151S; 0

<400> 18111
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18112
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; P151S; 0

<400> 18112
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; P151S; 0

<400> 18113
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; P151S; 0

<400> 18114
Ser Thr Ser Pro Pro Gly Thr Arg Val

1 5

<210> 18115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; P151S; 0

<400> 18115
Ser Thr Ser Pro Pro Gly Thr Arg Val
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<210> 18116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; P151S; 1

<400> 18116
Ser Thr Ser Pro Pro Gly Thr Arg Val
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<210> 18117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TP53; P151S; 0

<400> 18117
Ser Thr Ser Pro Pro Gly Thr Arg Val
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<210> 18118
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; TP53; P151S; 0

<400> 18118
Ser Thr Ser Pro Pro Gly Thr Arg Val
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<210> 18119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; TP53; P151S; 0

<400> 18119
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 18120
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; P151S; 1

<400> 18120
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18121
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; TP53; P151S; 0

<400> 18121
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18122
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; TP53; P151S; 0

<400> 18122
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18123

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; TP53; P151S; 0

<400> 18123
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18124
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; P151S; 0

<400> 18124
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18125
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; P151S; 0

<400> 18125
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; P151S; 0

<400> 18126
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18127
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; P151S; 0

<400> 18127
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; P151S; 0

<400> 18128
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 18129
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; P151S; 0

<400> 18129
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg Ala
1               5                   10


<210> 18130
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; P151S; 0

<400> 18130
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg Ala
1               5                   10


<210> 18131
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTCF; K365T; 1

<400> 18131
Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 18132
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTCF; K365T; 0

<400> 18132
Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 18133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTCF; K365T; 1

<400> 18133
Ser Val Glu Val Ser Thr Leu Lys
1               5


<210> 18134
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTCF; K365T; 1

<400> 18134
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTCF; K365T; 0

<400> 18135
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18136
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTCF; K365T; 1

<400> 18136
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTCF; K365T; 0

<400> 18137
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTCF; K365T; 0

<400> 18138
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTCF; K365T; 0

<400> 18139

Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTCF; K365T; 0

<400> 18140
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 18141
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTCF; K365T; 0

<400> 18142
Ser Val Glu Val Ser Thr Leu Lys Arg
1               5


<210> 18143
<211> 8
<212> PRT
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<223> Table A; HLA-B*15:01; CTNNB1; G34V; 1

<400> 18143
Ser Val Ile His Ser Gly Ala Thr
1               5

<210> 18144
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 18144
Ser Val Ile His Ser Gly Ala Thr
1               5


<210> 18145
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34V; 0

<400> 18145
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34V; 0

<400> 18146
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34V; 0

<400> 18147
Ser Val Ile His Ser Gly Ala Thr Thr
1               5

<210> 18148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34V; 0

<400> 18148
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; G34V; 0

<400> 18149
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18150
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34V; 0

<400> 18150
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 18151
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18152
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; G34V; 1

<400> 18152
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34V; 1

<400> 18153
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 18154
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; G34V; 0

<400> 18155
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 18156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34V; 0

<400> 18156
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18157
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34V; 0

<400> 18157
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18158
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34V; 0

<400> 18158
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18159
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34V; 0

<400> 18159
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18160
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*11:01; CTNNB1; G34V; 1

<400> 18160
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; G34V; 0

<400> 18161
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18162
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34V; 0

<400> 18162
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; G34V; 0

<400> 18163
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18164
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 18164
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18165
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34V; 1

<400> 18165
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18166
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 18166
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18167
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 18167
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 18168
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34V; 0

<400> 18168
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala

1 5 10

<210> 18169
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34V; 0

<400> 18169
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 18170
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34V; 0

<400> 18170
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 18171
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34V; 0

<400> 18171
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 18172
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; G34V; 1

<400> 18172
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 18173
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; G34V; 0

<400> 18173
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18174
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; G34V; 0

<400> 18174
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18175
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; G34V; 0

<400> 18175
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18176
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 18176
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18177

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; G34V; 1

<400> 18177
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18178
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34V; 1

<400> 18178
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18179
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTNNB1; G34V; 1

<400> 18179
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18180
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34V; 0

<400> 18180
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18181
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; G34V; 0

<400> 18181
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18182
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 18182
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18183
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34V; 0

<400> 18183
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18184
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; G34V; 0

<400> 18184
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18185
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CTNNB1; G34V; 0

<400> 18185
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18186
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; G34V; 0

<400> 18186
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18187
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; G34V; 0

<400> 18187
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 18188
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; PIK3CA; E542V; 0

<400> 18188
Ser Val Ile Thr Glu Gln Glu Lys Asp Phe Leu
1               5                   10


<210> 18189
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; RAC1; A159V; 1

<400> 18189
Ser Val Leu Thr Gln Arg Gly Leu
1               5


<210> 18190
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; RAC1; A159V; 1

<400> 18190
Ser Val Leu Thr Gln Arg Gly Leu
1               5


<210> 18191
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; RAC1; A159V; 0

<400> 18191
Ser Val Leu Thr Gln Arg Gly Leu
1               5


<210> 18192
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; A159V; 0

<400> 18192
Ser Val Leu Thr Gln Arg Gly Leu
1               5


<210> 18193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; RAC1; A159V; 0

<400> 18193

Ser Val Leu Thr Gln Arg Gly Leu
1               5


<210> 18194
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; RAC1; A159V; 0

<400> 18194
Ser Val Leu Thr Gln Arg Gly Leu
1               5


<210> 18195
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; RAC1; A159V; 0

<400> 18195
Ser Val Leu Thr Gln Arg Gly Leu
1               5


<210> 18196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; RAC1; A159V; 1

<400> 18196
Ser Val Leu Thr Gln Arg Gly Leu Lys
1               5


<210> 18197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; RAC1; A159V; 0

<400> 18197
Ser Val Leu Thr Gln Arg Gly Leu Lys
1               5

<210> 18198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; RAC1; A159V; 0

<400> 18198
Ser Val Leu Thr Gln Arg Gly Leu Lys
1               5


<210> 18199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; RAC1; A159V; 0

<400> 18199
Ser Val Leu Thr Gln Arg Gly Leu Lys
1               5


<210> 18200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; RAC1; A159V; 0

<400> 18200
Ser Val Leu Thr Gln Arg Gly Leu Lys Thr
1               5                   10


<210> 18201
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RAC1; A159V; 1

<400> 18201
Ser Val Leu Thr Gln Arg Gly Leu Lys Thr Val
1               5                   10

<210> 18202
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; A159V; 0

<400> 18202
Ser Val Leu Thr Gln Arg Gly Leu Lys Thr Val
1               5                   10


<210> 18203
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; RAC1; A159V; 0

<400> 18203
Ser Val Leu Thr Gln Arg Gly Leu Lys Thr Val
1               5                   10


<210> 18204
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; RAC1; A159V; 0

<400> 18204
Ser Val Leu Thr Gln Arg Gly Leu Lys Thr Val
1               5                   10


<210> 18205
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; RAC1; A159V; 0

<400> 18205
Ser Val Leu Thr Gln Arg Gly Leu Lys Thr Val
1               5                   10


<210> 18206
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; RGPD3; N756D; 0

<400> 18206
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; RGPD3; N756D; 0

<400> 18207
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; RGPD3; N756D; 0

<400> 18208
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; RGPD3; N756D; 0

<400> 18209
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RGPD3; N756D; 1

<400> 18210
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; RGPD3; N756D; 0

<400> 18211
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RGPD3; N756D; 1

<400> 18212
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; RGPD3; N756D; 0

<400> 18213
Ser Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 18214
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*25:01; TP53; G262V; 0

<400> 18214
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 18215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; TP53; G262V; 0

<400> 18215
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 18216
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; G262V; 1

<400> 18216
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 18217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; G262V; 0

<400> 18217
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 18218
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; G262V; 0

<400> 18218
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 18219
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; BRAF; G466V; 1

<400> 18219
Ser Val Ser Phe Gly Thr Val Tyr
1               5


<210> 18220
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; BRAF; G466V; 0

<400> 18220
Ser Val Ser Phe Gly Thr Val Tyr
1               5


<210> 18221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; BRAF; G466V; 1

<400> 18221
Ser Val Ser Phe Gly Thr Val Tyr Lys
1               5


<210> 18222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; BRAF; G466V; 0

<400> 18222
Ser Val Ser Phe Gly Thr Val Tyr Lys

1 5

<210> 18223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; BRAF; G466V; 1

<400> 18223
Ser Val Ser Phe Gly Thr Val Tyr Lys
1 5

<210> 18224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; BRAF; G466V; 0

<400> 18224
Ser Val Ser Phe Gly Thr Val Tyr Lys
1 5

<210> 18225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CNTNAP2; R283H; 0

<400> 18225
Ser Val Val Ile Glu His Gln Gly Arg
1 5

<210> 18226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CNTNAP2; R283H; 0

<400> 18226
Ser Val Val Ile Glu His Gln Gly Arg
1 5

<210> 18227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CNTNAP2; R283H; 0

<400> 18227
Ser Val Val Ile Glu His Gln Gly Arg
1               5


<210> 18228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CNTNAP2; R283H; 0

<400> 18228
Ser Val Val Ile Glu His Gln Gly Arg
1               5


<210> 18229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CNTNAP2; R283H; 0

<400> 18229
Ser Val Val Ile Glu His Gln Gly Arg
1               5


<210> 18230
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; R110L; 0

<400> 18230
Ser Tyr Gly Phe Leu Leu Gly Phe
1               5


<210> 18231

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; R110L; 0

<400> 18231
Ser Tyr Gly Phe Leu Leu Gly Phe
1               5


<210> 18232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; R110L; 0

<400> 18232
Ser Tyr Gly Phe Leu Leu Gly Phe Leu
1               5


<210> 18233
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; MAP2K1; P124S; 0

<400> 18233
Ser Tyr Ile Val Gly Phe Tyr Gly Ala Phe
1               5                   10


<210> 18234
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; MAP2K1; P124S; 1

<400> 18234
Ser Tyr Ile Val Gly Phe Tyr Gly Ala Phe
1               5                   10


<210> 18235
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; MAP2K1; P124S; 1

<400> 18235
Ser Tyr Ile Val Gly Phe Tyr Gly Ala Phe
1               5                   10


<210> 18236
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; MAP2K1; P124S; 0

<400> 18236
Ser Tyr Ile Val Gly Phe Tyr Gly Ala Phe
1               5                   10


<210> 18237
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33F; 0

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<220>
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<210> 18258
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<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

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<220>
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<223> Table A; HLA-B*39:06; CTNNB1; G34E; 0

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<220>
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<220>
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37A; 0

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<220>
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<220>
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<220>
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<220>
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37A; 0

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<223> Table A; HLA-C*14:02; CTNNB1; S37A; 0

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<223> Table A; HLA-C*14:03; CTNNB1; S37A; 0

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<223> Table A; HLA-A*02:01; CTNNB1; S37A; 1

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1               5                   10


<210> 18304
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37A; 1

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1               5                   10


<210> 18305
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37A; 0

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1               5                   10

<210> 18306
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S37A; 0

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<210> 18307
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37A; 0

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1               5                   10


<210> 18308
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<220>
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<210> 18309
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37A; 0

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<210> 18310
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<220>
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; S37A; 0

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<210> 18312
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<220>
<223> Table A; HLA-B*27:05; CTNNB1; S37A; 0

<400> 18312
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1               5                   10


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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37A; 0

<400> 18313
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1               5                   10


<210> 18314
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37A; 0

<400> 18314
Ser Tyr Leu Asp Ser Gly Ile His Ala Gly Ala
1               5                   10


<210> 18315
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

<400> 18315
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1               5                   10


<210> 18316
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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37C; 1

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1               5


<210> 18317
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37C; 0

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Ser Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 18318
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37C; 0

<400> 18318
Ser Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 18319
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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; CTNNB1; S37C; 0

<400> 18319
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1               5


<210> 18320
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<220>
<223> Table A; HLA-C*14:03; CTNNB1; S37C; 0

<400> 18320
Ser Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 18321
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37C; 1

<400> 18321
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 18322
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<220>

<223> Table A; HLA-A*02:04; CTNNB1; S37C; 0

<400> 18322
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 18323
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S37C; 0

<400> 18323
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 18324
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37C; 1

<400> 18324
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 18325
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37C; 1

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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37C; 0

<400> 18326
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
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<210> 18327
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<220>
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1               5                   10


<210> 18328
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<220>
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1               5                   10


<210> 18329
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<223> Table A; HLA-A*33:03; CTNNB1; S37C; 0

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<210> 18330
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<212> PRT
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<223> Table A; HLA-A*68:01; CTNNB1; S37C; 1

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1 5 10

<210> 18331
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37C; 0

<400> 18331
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1 5 10

<210> 18332
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<223> Table A; HLA-B*27:05; CTNNB1; S37C; 1

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1 5 10

<210> 18333
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<223> Table A; HLA-B*39:01; CTNNB1; S37C; 0

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1 5 10

<210> 18334
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37C; 0

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1 5 10

<210> 18335
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37C; 0

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Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 18336
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<220>
<223> Table A; HLA-C*14:03; CTNNB1; S37C; 0

<400> 18336
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 18337
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<223> Table A; HLA-A*02:01; CTNNB1; S37C; 1

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1               5                   10


<210> 18338
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37C; 1

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<211> 11
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37C; 0

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<210> 18340
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37C; 0

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<210> 18341
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; CTNNB1; S37C; 1

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1               5                   10


<210> 18342
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37C; 0

<400> 18342
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1               5                   10


<210> 18343
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37F; 0

<400> 18343
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1               5


<210> 18344
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37F; 1

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1               5


<210> 18345
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<220>
<223> Table A; HLA-A*24:02; CTNNB1; S37F; 1

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1               5


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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S37F; 1

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1               5


<210> 18347
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37F; 0

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1               5


<210> 18348
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37F; 1

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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-B*15:01; CTNNB1; S37F; 1

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<220>
<223> Table A; HLA-B*15:02; CTNNB1; S37F; 0

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1               5


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<220>
<223> Table A; HLA-B*15:03; CTNNB1; S37F; 0

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1               5


<210> 18353
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<220>
<223> Table A; HLA-B*35:01; CTNNB1; S37F; 1

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1               5


<210> 18354
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37F; 1

<400> 18354
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1               5


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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37F; 0

<400> 18355

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1               5


<210> 18356
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<212> PRT
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<220>
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1               5


<210> 18357
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

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1               5


<210> 18358
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<220>
<223> Table A; HLA-C*04:01; CTNNB1; S37F; 1

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1               5


<210> 18359
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<220>
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1               5

<210> 18360
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<220>
<223> Table A; HLA-C*14:02; CTNNB1; S37F; 0

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-C*14:03; CTNNB1; S37F; 0

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<210> 18362
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37F; 1

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<210> 18363
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S37F; 1

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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37F; 1

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<210> 18365
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37F; 0

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1               5                   10


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<220>
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1               5                   10


<210> 18367
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

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1               5                   10


<210> 18368
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37F; 1

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1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37F; 1

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1               5                   10


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<220>
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1               5                   10


<210> 18371
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37F; 0

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1               5                   10


<210> 18372
<211> 11
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37F; 1

<400> 18372
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1               5                   10


<210> 18373
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37F; 0

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1               5                   10


<210> 18374
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37F; 0

<400> 18374
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
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<210> 18375
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

<400> 18375
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1               5                   10


<210> 18376
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<220>

<223> Table A; HLA-A*31:01; CTNNB1; S37P; 0

<400> 18376
Ser Tyr Leu Asp Ser Gly Ile His Pro
1               5


<210> 18377
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37P; 0

<400> 18377
Ser Tyr Leu Asp Ser Gly Ile His Pro
1               5


<210> 18378
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37P; 0

<400> 18378
Ser Tyr Leu Asp Ser Gly Ile His Pro
1               5


<210> 18379
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<220>
<223> Table A; HLA-C*14:02; CTNNB1; S37P; 0

<400> 18379
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<210> 18380
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37P; 1

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1               5                   10


<210> 18381
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S37P; 0

<400> 18381
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly
1               5                   10


<210> 18382
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37P; 0

<400> 18382
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1               5                   10


<210> 18383
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S37P; 0

<400> 18383
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1               5                   10


<210> 18384
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37P; 0

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Ser Tyr Leu Asp Ser Gly Ile His Pro Gly

1 5 10

<210> 18385
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37P; 0

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1 5 10

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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37P; 0

<400> 18386
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1 5 10

<210> 18387
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37P; 0

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1 5 10

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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S37P; 0

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1 5 10

<210> 18389
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37P; 0

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1               5                   10


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<220>
<223> Table A; HLA-B*27:02; CTNNB1; S37P; 0

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1               5                   10


<210> 18391
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37P; 0

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1               5                   10


<210> 18392
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

<400> 18392
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly
1               5                   10


<210> 18393

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

<400> 18393
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1               5                   10


<210> 18394
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37P; 0

<400> 18394
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 18395
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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S37P; 0

<400> 18395
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 18396
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S37P; 0

<400> 18396
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 18397
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37P; 0

<400> 18397
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 18398
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTNNB1; S37P; 0

<400> 18398
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 18399
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S37P; 0

<400> 18399
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 18400
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; S37P; 0

<400> 18400
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1               5                   10


<210> 18401
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

<400> 18401
Ser Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 18402
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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; CTNNB1; G34R; 0

<400> 18402
Ser Tyr Leu Asp Ser Arg Ile His
1               5


<210> 18403
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTNNB1; G34R; 0

<400> 18403
Ser Tyr Leu Asp Ser Arg Ile His Ser
1               5


<210> 18404
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34R; 1

<400> 18404
Ser Tyr Leu Asp Ser Arg Ile His Ser
1               5


<210> 18405
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; G34R; 0

<400> 18405
Ser Tyr Leu Asp Ser Arg Ile His Ser
1               5


<210> 18406
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34R; 0

<400> 18406
Ser Tyr Leu Asp Ser Arg Ile His Ser
1               5


<210> 18407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CTNNB1; G34R; 0

<400> 18407
Ser Tyr Leu Asp Ser Arg Ile His Ser
1               5


<210> 18408
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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; G34R; 0

<400> 18408
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5                   10


<210> 18409
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*24:02; CTNNB1; G34R; 1

<400> 18409

Ser Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5                   10


<210> 18410
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; G34R; 1

<400> 18410
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5                   10


<210> 18411
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34R; 1

<400> 18411
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5                   10


<210> 18412
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; G34R; 0

<400> 18412
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5                   10


<210> 18413
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34R; 0

<400> 18413
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5                   10

<210> 18414
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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; CTNNB1; G34R; 0

<400> 18414
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5                   10


<210> 18415
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34R; 0

<400> 18415
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 18416
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34R; 1

<400> 18416
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 18417
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34R; 0

<400> 18417
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10

<210> 18418
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34R; 0

<400> 18418
Ser Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 18419
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34V; 0

<400> 18419
Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 18420
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 18420
Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 18421
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 18421
Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 18422
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<212> PRT
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<223> Table A; HLA-C*14:02; CTNNB1; G34V; 0

<400> 18422
Ser Tyr Leu Asp Ser Val Ile His
1               5


<210> 18423
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<212> PRT
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<223> Table A; HLA-A*11:01; CTNNB1; G34V; 1

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Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18424
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<212> PRT
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<223> Table A; HLA-A*23:01; CTNNB1; G34V; 0

<400> 18424
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18425
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<212> PRT
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<220>
<223> Table A; HLA-A*24:02; CTNNB1; G34V; 1

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Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18426
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34V; 0

<400> 18426
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18427
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; G34V; 0

<400> 18427
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18428
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34V; 0

<400> 18428
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18429
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

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Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18430
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<223> Table A; HLA-C*14:03; CTNNB1; G34V; 0

<400> 18430
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 18431
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34V; 1

<400> 18431
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18432
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; G34V; 0

<400> 18432
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1               5                   10


<210> 18433
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; G34V; 1

<400> 18433
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18434
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; G34V; 0

<400> 18434
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1               5                   10


<210> 18435
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<220>
<223> Table A; HLA-A*24:02; CTNNB1; G34V; 1

<400> 18435
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18436
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; G34V; 1

<400> 18436
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1               5                   10


<210> 18437
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34V; 0

<400> 18437
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18438
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34V; 0

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1 5 10

<210> 18439
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; G34V; 0

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1 5 10

<210> 18440
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34V; 0

<400> 18440
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1 5 10

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

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Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1 5 10

<210> 18442
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; G34V; 0

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1 5 10

<210> 18443
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<220>
<223> Table A; HLA-B*27:05; CTNNB1; G34V; 1

<400> 18443
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18444
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34V; 0

<400> 18444
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18445
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

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1               5                   10


<210> 18446
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

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1               5                   10


<210> 18447

<211> 10
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<220>
<223> Table A; HLA-C*14:02; CTNNB1; G34V; 0

<400> 18447
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18448
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*14:03; CTNNB1; G34V; 0

<400> 18448
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 18449
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34V; 1

<400> 18449
Ser Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 18450
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34V; 0

<400> 18450
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1               5                   10


<210> 18451
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34V; 0

<400> 18451
Ser Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 18452
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; G34V; 0

<400> 18452
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1               5                   10


<210> 18453
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34V; 0

<400> 18453
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1               5                   10


<210> 18454
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 18454
Ser Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; G34V; 0

<400> 18455
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1               5                   10


<210> 18456
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 18456
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1               5                   10


<210> 18457
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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S33Y; 0

<400> 18457
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1               5


<210> 18458
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S33Y; 0

<400> 18458
Ser Tyr Leu Asp Tyr Gly Ile His Ser
1               5


<210> 18459
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S33Y; 0

<400> 18459
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1               5


<210> 18460
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33Y; 1

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<210> 18461
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S33Y; 0

<400> 18461
Ser Tyr Leu Asp Tyr Gly Ile His Ser Gly
1               5                   10


<210> 18462
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S33Y; 1

<400> 18462
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1               5                   10


<210> 18463
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S33Y; 0

<400> 18463

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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S33Y; 0

<400> 18464
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S33Y; 0

<400> 18465
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<210> 18466
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S33Y; 0

<400> 18466
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1               5                   10


<210> 18467
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33Y; 0

<400> 18467
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<210> 18468
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

<400> 18468
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1               5                   10


<210> 18469
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<220>
<223> Table A; HLA-C*14:03; CTNNB1; S33Y; 0

<400> 18469
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1               5                   10


<210> 18470
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S33Y; 1

<400> 18470
Ser Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 18471
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S33Y; 0

<400> 18471
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1               5                   10

<210> 18472
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S33Y; 0

<400> 18472
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1               5                   10


<210> 18473
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S33Y; 0

<400> 18473
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1               5                   10


<210> 18474
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 18474
Ser Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 18475
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; ERBB2; V842I; 0

<400> 18475
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18476
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; ERBB2; V842I; 0

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1               5


<210> 18477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; ERBB2; V842I; 1

<400> 18477
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; ERBB2; V842I; 0

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Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18479
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<220>
<223> Table A; HLA-B*50:01; ERBB2; V842I; 0

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Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18480
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; ERBB2; V842I; 0

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Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18481
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<212> PRT
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<220>
<223> Table A; HLA-C*06:02; ERBB2; V842I; 1

<400> 18481
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18482
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*14:02; ERBB2; V842I; 0

<400> 18482
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; ERBB2; V842I; 0

<400> 18483
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 18484
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<212> PRT
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<220>

<223> Table A; HLA-A*31:01; ERBB2; V842I; 0

<400> 18484
Ser Tyr Leu Glu Asp Val Arg Leu Ile His Arg
1               5                   10


<210> 18485
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; ERBB2; V842I; 0

<400> 18485
Ser Tyr Leu Glu Asp Val Arg Leu Ile His Arg
1               5                   10


<210> 18486
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; ERBB2; V842I; 0

<400> 18486
Ser Tyr Leu Glu Asp Val Arg Leu Ile His Arg
1               5                   10


<210> 18487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32H; 0

<400> 18487
Ser Tyr Leu His Ser Gly Ile His Ser
1               5


<210> 18488
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32H; 0

<400> 18488
Ser Tyr Leu His Ser Gly Ile His Ser
1               5


<210> 18489
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32H; 1

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Ser Tyr Leu His Ser Gly Ile His Ser Gly
1               5                   10


<210> 18490
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32H; 0

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1               5                   10


<210> 18491
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32H; 0

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1               5                   10


<210> 18492
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32H; 0

<400> 18492
Ser Tyr Leu His Ser Gly Ile His Ser Gly

1 5 10

<210> 18493
<211> 11
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32H; 0

<400> 18493
Ser Tyr Leu His Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 18494
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32H; 0

<400> 18494
Ser Tyr Leu His Ser Gly Ile His Ser Gly Ala
1 5 10

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<220>
<223> Table A; HLA-A*23:01; CTNNB1; D32N; 0

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Ser Tyr Leu Asn Ser Gly Ile His Ser
1 5

<210> 18496
<211> 9
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32N; 1

<400> 18496
Ser Tyr Leu Asn Ser Gly Ile His Ser
1 5

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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32N; 0

<400> 18497
Ser Tyr Leu Asn Ser Gly Ile His Ser
1               5


<210> 18498
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*14:02; CTNNB1; D32N; 0

<400> 18498
Ser Tyr Leu Asn Ser Gly Ile His Ser
1               5


<210> 18499
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; D32N; 1

<400> 18499
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18500
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; D32N; 0

<400> 18500
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18501

<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32N; 1

<400> 18501
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18502
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32N; 0

<400> 18502
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18503
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32N; 1

<400> 18503
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18504
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32N; 0

<400> 18504
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18505
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32N; 0

<400> 18505
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18506
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32N; 0

<400> 18506
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18507
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 18507
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5                   10


<210> 18508
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32N; 0

<400> 18508
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18509
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32N; 1

<400> 18509
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18510
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32N; 0

<400> 18510
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18511
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 18511
Ser Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18512
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; EP300; D1399N; 0

<400> 18512
Ser Tyr Leu Asn Ser Val His Phe
1               5


<210> 18513
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; EP300; D1399N; 1

<400> 18513
Ser Tyr Leu Asn Ser Val His Phe
1               5


<210> 18514
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-C*14:02; EP300; D1399N; 0

<400> 18514
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1               5


<210> 18515
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; EP300; D1399N; 0

<400> 18515
Ser Tyr Leu Asn Ser Val His Phe
1               5


<210> 18516
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; EP300; D1399N; 0

<400> 18516
Ser Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 18517
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; EP300; D1399N; 0

<400> 18517

Ser Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 18518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; EP300; D1399N; 1

<400> 18518
Ser Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 18519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; EP300; D1399N; 1

<400> 18519
Ser Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 18520
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<223> Table A; HLA-C*07:02; EP300; D1399N; 1

<400> 18520
Ser Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 18521
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<220>
<223> Table A; HLA-C*14:02; EP300; D1399N; 0

<400> 18521
Ser Tyr Leu Asn Ser Val His Phe Phe
1               5

<210> 18522
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; EP300; D1399N; 0

<400> 18522
Ser Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 18523
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; EP300; D1399N; 1

<400> 18523
Ser Tyr Leu Asn Ser Val His Phe Phe Arg
1               5                   10


<210> 18524
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32V; 1

<400> 18524
Ser Tyr Leu Val Ser Gly Ile His Ser
1               5


<210> 18525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32V; 0

<400> 18525
Ser Tyr Leu Val Ser Gly Ile His Ser
1               5

<210> 18526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CTNNB1; D32V; 0

<400> 18526
Ser Tyr Leu Val Ser Gly Ile His Ser
1               5


<210> 18527
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32V; 1

<400> 18527
Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 18528
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32V; 1

<400> 18528
Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 18529
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32V; 0

<400> 18529
Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 18530
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32V; 0

<400> 18530
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1               5                   10


<210> 18531
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32V; 0

<400> 18531
Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 18532
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32V; 0

<400> 18532
Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 18533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32V; 0

<400> 18533
Ser Tyr Leu Val Ser Gly Ile His Ser Gly
1               5                   10


<210> 18534
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32V; 0

<400> 18534
Ser Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18535
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32V; 1

<400> 18535
Ser Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18536
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32V; 0

<400> 18536
Ser Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18537
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32V; 0

<400> 18537
Ser Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18538
<211> 11
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*48:01; CTNNB1; D32V; 0

<400> 18538
Ser Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 18539
Ser Tyr Leu Tyr Ser Gly Ile His Ser
1               5


<210> 18540
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32Y; 0

<400> 18540
Ser Tyr Leu Tyr Ser Gly Ile His Ser
1               5


<210> 18541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 18541
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5                   10


<210> 18542
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32Y; 0

<400> 18542
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5                   10


<210> 18543
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32Y; 0

<400> 18543
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18544
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 18544
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18545
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32Y; 0

<400> 18545
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 18546
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32Y; 0

<400> 18546
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala

1 5 10

<210> 18547
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; RAC1; P29L; 0

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1 5

<210> 18548
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; RAC1; P29L; 1

<400> 18548
Ser Tyr Thr Thr Asn Ala Phe Leu
1 5

<210> 18549
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*14:02; RAC1; P29L; 0

<400> 18549
Ser Tyr Thr Thr Asn Ala Phe Leu
1 5

<210> 18550
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*14:03; RAC1; P29L; 0

<400> 18550
Ser Tyr Thr Thr Asn Ala Phe Leu
1 5

<210> 18551
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*29:02; RAC1; P29L; 0

<400> 18551
Ser Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 18552
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; RAC1; P29S; 0

<400> 18552
Ser Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 18553
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*29:02; RAC1; P29S; 1

<400> 18553
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1               5                   10


<210> 18554
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PCBP1; L100Q; 0

<400> 18554
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18555

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PCBP1; L100Q; 0

<400> 18555
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18556
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PCBP1; L100Q; 0

<400> 18556
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PCBP1; L100Q; 0

<400> 18557
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18558
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; PCBP1; L100Q; 0

<400> 18558
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18559
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PCBP1; L100Q; 1

<400> 18559
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
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<210> 18560
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; PCBP1; L100Q; 1

<400> 18560
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18561
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; PCBP1; L100Q; 0

<400> 18561
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18562
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; PCBP1; L100Q; 0

<400> 18562
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18563
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; PCBP1; L100Q; 0

<400> 18563
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln
1               5                   10


<210> 18564
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; PCBP1; L100Q; 1

<400> 18564
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 18565
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; PCBP1; L100Q; 0

<400> 18565
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 18566
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; PCBP1; L100Q; 1

<400> 18566
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 18567
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; PCBP1; L100Q; 0

<400> 18567
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 18568
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; PCBP1; L100Q; 0

<400> 18568
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 18569
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PCBP1; L100Q; 0

<400> 18569
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 18570
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PCBP1; L100Q; 0

<400> 18570
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1               5                   10


<210> 18571
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PCBP1; L100Q; 0

<400> 18571

Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
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<210> 18572
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PCBP1; L100Q; 0

<400> 18572
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1 5 10

<210> 18573
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PCBP1; L100Q; 1

<400> 18573
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1 5 10

<210> 18574
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; PCBP1; L100Q; 0

<400> 18574
Thr Ala Ala Ser Arg Pro Pro Val Thr Gln Arg
1 5 10

<210> 18575
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CSMD3; R1529H; 0

<400> 18575
Thr Ala Cys His Asp Pro Gly Val Pro Met
1 5 10

<210> 18576
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; KRAS; Q61H; 0

<400> 18576
Thr Ala Gly His Glu Glu Tyr Ser Ala
1               5


<210> 18577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KRAS; Q61H; 0

<400> 18577
Thr Ala Gly His Glu Glu Tyr Ser Ala
1               5


<210> 18578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; NRAS; Q61H; 0

<400> 18578
Thr Ala Gly His Glu Glu Tyr Ser Ala
1               5


<210> 18579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; NRAS; Q61H; 0

<400> 18579
Thr Ala Gly His Glu Glu Tyr Ser Ala
1               5

<210> 18580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; NRAS; Q61H; 0

<400> 18580
Thr Ala Gly His Glu Glu Tyr Ser Ala
1               5


<210> 18581
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; KRAS; Q61H; 1

<400> 18581
Thr Ala Gly His Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; KRAS; Q61H; 1

<400> 18582
Thr Ala Gly His Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18583
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; KRAS; Q61H; 0

<400> 18583
Thr Ala Gly His Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18584
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; NRAS; Q61H; 1

<400> 18584
Thr Ala Gly His Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; NRAS; Q61H; 0

<400> 18585
Thr Ala Gly His Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18586
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; NRAS; Q61H; 0

<400> 18586
Thr Ala Gly His Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; HRAS; Q61K; 0

<400> 18587
Thr Ala Gly Lys Glu Glu Tyr Ser Ala
1               5


<210> 18588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; HRAS; Q61K; 0

<400> 18588
Thr Ala Gly Lys Glu Glu Tyr Ser Ala
1               5


<210> 18589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; NRAS; Q61K; 1

<400> 18589
Thr Ala Gly Lys Glu Glu Tyr Ser Ala
1               5


<210> 18590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; NRAS; Q61K; 0

<400> 18590
Thr Ala Gly Lys Glu Glu Tyr Ser Ala
1               5


<210> 18591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; NRAS; Q61K; 0

<400> 18591
Thr Ala Gly Lys Glu Glu Tyr Ser Ala
1               5


<210> 18592
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:01; HRAS; Q61K; 0

<400> 18592
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; HRAS; Q61K; 0

<400> 18593
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; HRAS; Q61K; 0

<400> 18594
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18595
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; HRAS; Q61K; 0

<400> 18595
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18596
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; HRAS; Q61K; 0

<400> 18596
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18597
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; NRAS; Q61K; 1

<400> 18597
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18598
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; NRAS; Q61K; 1

<400> 18598
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18599
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; NRAS; Q61K; 1

<400> 18599
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 18600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; NRAS; Q61K; 0

<400> 18600
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met

1 5 10

<210> 18601
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; NRAS; Q61K; 0

<400> 18601
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1 5 10

<210> 18602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; KRAS; Q61L; 0

<400> 18602
Thr Ala Gly Leu Glu Glu Tyr Ser Ala
1 5

<210> 18603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; KRAS; Q61L; 0

<400> 18603
Thr Ala Gly Leu Glu Glu Tyr Ser Ala
1 5

<210> 18604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; KRAS; Q61L; 0

<400> 18604
Thr Ala Gly Leu Glu Glu Tyr Ser Ala
1 5

<210> 18605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KRAS; Q61L; 0

<400> 18605
Thr Ala Gly Leu Glu Glu Tyr Ser Ala
1               5


<210> 18606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; NRAS; Q61L; 0

<400> 18606
Thr Ala Gly Leu Glu Glu Tyr Ser Ala
1               5


<210> 18607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; NRAS; Q61L; 0

<400> 18607
Thr Ala Gly Leu Glu Glu Tyr Ser Ala
1               5


<210> 18608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
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<223> Table A; HLA-B*54:01; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*35:01; KRAS; Q61L; 0

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<210> 18611
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<223> Table A; HLA-B*35:03; KRAS; Q61L; 0

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<210> 18612
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<220>
<223> Table A; HLA-B*35:08; KRAS; Q61L; 0

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<210> 18613
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<213> Homo sapiens

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<223> Table A; HLA-B*35:01; NRAS; Q61L; 1

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<223> Table A; HLA-B*35:03; NRAS; Q61L; 0

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<223> Table A; HLA-B*35:08; NRAS; Q61L; 0

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<220>
<223> Table A; HLA-B*35:12; NRAS; Q61L; 0

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<210> 18617
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<220>
<223> Table A; HLA-B*54:01; KRAS; Q61R; 0

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<220>
<223> Table A; HLA-B*54:01; NRAS; Q61R; 0

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<220>
<223> Table A; HLA-B*35:01; KRAS; Q61R; 0

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<220>
<223> Table A; HLA-B*35:02; KRAS; Q61R; 0

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<210> 18621
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<220>
<223> Table A; HLA-B*35:03; KRAS; Q61R; 0

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<210> 18622
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<220>
<223> Table A; HLA-B*35:08; KRAS; Q61R; 0

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<210> 18623
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<220>
<223> Table A; HLA-B*35:12; KRAS; Q61R; 0

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<210> 18624
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<223> Table A; HLA-B*35:01; NRAS; Q61R; 1

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<220>
<223> Table A; HLA-B*35:02; NRAS; Q61R; 1

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<223> Table A; HLA-B*35:03; NRAS; Q61R; 1

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<212> PRT
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<223> Table A; HLA-B*35:08; NRAS; Q61R; 0

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<210> 18628
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<212> PRT
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<220>
<223> Table A; HLA-B*35:12; NRAS; Q61R; 0

<400> 18628
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<220>
<223> Table A; HLA-A*31:01; TP53; S127F; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; TP53; S127F; 0

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<210> 18631
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<212> PRT
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<220>
<223> Table A; HLA-C*02:02; TP53; S127F; 0

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<210> 18632
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

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<220>
<223> Table A; HLA-B*51:01; CTNNB1; S45F; 1

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<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45P; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*51:01; CTNNB1; S45P; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PIK3CA; E545A; 0

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<210> 18639
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; PIK3CA; E545A; 0

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<220>
<223> Table A; HLA-B*35:03; FGFR2; Y375C; 0

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<210> 18641
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<223> Table A; HLA-A*30:01; CTNNB1; T41A; 1

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<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41A; 0

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<223> Table A; HLA-A*68:01; CTNNB1; T41A; 1

<400> 18643
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<223> Table A; HLA-B*07:02; CTNNB1; T41A; 1

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<223> Table A; HLA-B*35:01; CTNNB1; T41A; 1

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<223> Table A; HLA-B*39:01; CTNNB1; T41A; 1

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<220>
<223> Table A; HLA-B*54:01; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-B*55:02; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-B*56:01; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-B*58:01; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-C*08:01; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41A; 1

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<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41A; 1

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<220>
<223> Table A; HLA-A*26:03; CTNNB1; T41A; 0

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<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41A; 0

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1 5 10

<210> 18657
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41A; 1

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41A; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; T41A; 0

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<210> 18660
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41A; 1

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<210> 18661
<211> 10
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<220>
<223> Table A; HLA-A*03:02; TP53; L130F; 0

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<220>
<223> Table A; HLA-A*11:01; TP53; L130F; 0

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<220>
<223> Table A; HLA-A*33:03; TP53; K132R; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; TP53; K132R; 0

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<212> PRT
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<223> Table A; HLA-B*18:01; EGFR; L861Q; 0

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<212> PRT
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<223> Table A; HLA-B*37:01; EGFR; L861Q; 0

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<210> 18667
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<212> PRT

<213> Homo sapiens

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<223> Table A; HLA-B*40:01; EGFR; L861Q; 1

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<210> 18668
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<223> Table A; HLA-B*40:02; EGFR; L861Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; EGFR; L861Q; 0

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<220>
<223> Table A; HLA-B*44:02; EGFR; L861Q; 1

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<210> 18671
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; EGFR; L861Q; 0

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<210> 18672
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<220>
<223> Table A; HLA-B*44:05; EGFR; L861Q; 0

<400> 18672
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<210> 18673
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<220>
<223> Table A; HLA-C*08:03; EGFR; L861Q; 0

<400> 18673
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<210> 18674
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; EGFR; L858R; 0

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<210> 18675
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<220>
<223> Table A; HLA-B*41:02; EGFR; L858R; 0

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<210> 18676
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<220>
<223> Table A; HLA-B*37:01; EGFR; L858R; 0

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<210> 18677
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<220>
<223> Table A; HLA-C*03:02; PTPRB; R529Q; 0

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<220>
<223> Table A; HLA-B*44:02; PIK3CA; E545D; 1

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<220>
<223> Table A; HLA-B*44:03; PIK3CA; E545D; 0

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<220>
<223> Table A; HLA-B*40:02; ERBB2; S310F; 0

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<220>
<223> Table A; HLA-B*41:02; ERBB2; S310F; 0

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<220>
<223> Table A; HLA-B*40:02; ERBB2; S310Y; 0

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<220>
<223> Table A; HLA-B*15:01; ARHGAP5; V474A; 1

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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; ARHGAP5; V474A; 0

<400> 18684
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<210> 18685
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<220>
<223> Table A; HLA-B*18:01; ARHGAP5; V474A; 1

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<210> 18686
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<220>
<223> Table A; HLA-B*35:01; ARHGAP5; V474A; 1

<400> 18686
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<210> 18687
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; ARHGAP5; V474A; 0

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<210> 18688
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<212> PRT
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<220>
<223> Table A; HLA-B*44:02; ARHGAP5; V474A; 1

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<210> 18689
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; ARHGAP5; V474A; 1

<400> 18689
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<210> 18690
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; ARHGAP5; V474A; 0

<400> 18690
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<210> 18691
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; ARHGAP5; V474A; 0

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<210> 18692
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; ARHGAP5; V474A; 0

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<210> 18693
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; ARHGAP5; V474A; 0

<400> 18693
Thr Glu Ala Asp Ser Lys Glu Ala Tyr
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<210> 18694
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; ARHGAP5; V474A; 0

<400> 18694
Thr Glu Ala Asp Ser Lys Glu Ala Tyr
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<210> 18695
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<212> PRT
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<220>
<223> Table A; HLA-B*49:01; TNC; L1626I; 0

<400> 18695
Thr Glu Ala Glu Pro Glu Val Asp Asn Ile
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<210> 18696
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; TNC; L1626I; 0

<400> 18696
Thr Glu Ala Glu Pro Glu Val Asp Asn Ile Leu
1               5                   10


<210> 18697
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; TNC; L1626I; 1

<400> 18697
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1               5                   10


<210> 18698
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; TNC; L1626I; 0

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<210> 18699
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; TNC; L1626I; 0

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<210> 18700
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<220>

<223> Table A; HLA-B*44:05; TNC; L1626I; 0

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<210> 18701
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; KNSTRN; S24F; 0

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Thr Glu Cys Asp Phe His Pro Leu Pro
1               5


<210> 18702
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PIK3CA; Q546K; 1

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Thr Glu Lys Glu Lys Asp Phe Leu
1               5


<210> 18703
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<212> PRT
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<220>
<223> Table A; HLA-B*41:02; PIK3CA; Q546K; 0

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1               5


<210> 18704
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<212> PRT
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<220>
<223> Table A; HLA-A*23:01; PIK3CA; Q546K; 0

<400> 18704
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1               5


<210> 18705
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; Q546K; 1

<400> 18705
Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5


<210> 18706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; Q546K; 1

<400> 18706
Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5


<210> 18707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; Q546K; 0

<400> 18707
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1               5


<210> 18708
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; CHD4; R975H; 1

<400> 18708
Thr Glu Leu Ile Val His Val Glu

1 5

<210> 18709
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; CHD4; R975H; 0

<400> 18709
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1 5

<210> 18710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CHD4; R975H; 0

<400> 18710
Thr Glu Leu Ile Val His Val Glu Leu
1 5

<210> 18711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CHD4; R975H; 1

<400> 18711
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1 5

<210> 18712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CHD4; R975H; 1

<400> 18712
Thr Glu Leu Ile Val His Val Glu Leu
1 5

<210> 18713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; CHD4; R975H; 0

<400> 18713
Thr Glu Leu Ile Val His Val Glu Leu
1               5


<210> 18714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CHD4; R975H; 1

<400> 18714
Thr Glu Leu Ile Val His Val Glu Leu
1               5


<210> 18715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; CHD4; R975H; 1

<400> 18715
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1               5


<210> 18716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CHD4; R975H; 1

<400> 18716
Thr Glu Leu Ile Val His Val Glu Leu
1               5


<210> 18717

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CHD4; R975H; 0

<400> 18717
Thr Glu Leu Ile Val His Val Glu Leu
1               5


<210> 18718
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; CHD4; R975H; 0

<400> 18718
Thr Glu Leu Ile Val His Val Glu Leu
1               5


<210> 18719
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CHD4; R975H; 0

<400> 18719
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1               5


<210> 18720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CHD4; R975H; 0

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1               5


<210> 18721
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CHD4; R975H; 1

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1               5


<210> 18722
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CHD4; R975H; 0

<400> 18722
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1               5


<210> 18723
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CHD4; R975H; 0

<400> 18723
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1               5


<210> 18724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; CHD4; R975H; 1

<400> 18724
Thr Glu Leu Ile Val His Val Glu Leu
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<210> 18725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; CHD4; R975H; 1

<400> 18725
Thr Glu Leu Ile Val His Val Glu Leu
1               5


<210> 18726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CHD4; R975H; 0

<400> 18726
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1               5


<210> 18727
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CHD4; R975H; 0

<400> 18727
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1               5


<210> 18728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CHD4; R975H; 0

<400> 18728
Thr Glu Leu Ile Val His Val Glu Leu
1               5


<210> 18729
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CHD4; R975H; 0

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1               5


<210> 18730
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; CHD4; R975H; 0

<400> 18730
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1               5


<210> 18731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CHD4; R975H; 0

<400> 18731
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1               5


<210> 18732
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; CHD4; R975H; 0

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1               5


<210> 18733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNND1; A781T; 0

<400> 18733

Thr Glu Asn Leu Glu Ala Ala Lys Lys
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<210> 18734
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CTNND1; A781T; 0

<400> 18734
Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5


<210> 18735
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNND1; A781T; 0

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1               5                   10


<210> 18736
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; CTNND1; A781T; 0

<400> 18736
Thr Glu Asn Leu Glu Ala Ala Lys Lys Leu
1               5                   10


<210> 18737
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNND1; A781T; 0

<400> 18737
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1               5                   10

<210> 18738
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CTNND1; A781T; 0

<400> 18738
Thr Glu Asn Leu Glu Ala Ala Lys Lys Leu
1               5                   10


<210> 18739
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*44:02; CTNND1; A781T; 0

<400> 18739
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1               5                   10


<210> 18740
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<212> PRT
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<220>
<223> Table A; HLA-B*44:03; CTNND1; A781T; 0

<400> 18740
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<210> 18741
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; CTNND1; A781T; 0

<400> 18741
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<210> 18742
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; PIK3CA; Q546P; 0

<400> 18742
Thr Glu Pro Glu Lys Asp Phe Leu Trp
1               5


<210> 18743
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:02; PIK3CA; Q546P; 1

<400> 18743
Thr Glu Pro Glu Lys Asp Phe Leu Trp
1               5


<210> 18744
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*44:03; PIK3CA; Q546P; 1

<400> 18744
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1               5


<210> 18745
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; PIK3CA; Q546P; 0

<400> 18745
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1               5


<210> 18746
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; Q546P; 1

<400> 18746
Thr Glu Pro Glu Lys Asp Phe Leu Trp
1               5


<210> 18747
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; PIK3CA; Q546R; 0

<400> 18747
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1               5


<210> 18748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; PIK3CA; Q546R; 0

<400> 18748
Thr Glu Arg Glu Lys Asp Phe Leu Trp
1               5


<210> 18749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:02; PIK3CA; Q546R; 1

<400> 18749
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1               5


<210> 18750
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; PIK3CA; Q546R; 1

<400> 18750
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1               5


<210> 18751
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; Q546R; 1

<400> 18751
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1               5


<210> 18752
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; KRAS; G12A; 0

<400> 18752
Thr Glu Tyr Lys Leu Val Val Val Gly Ala Ala
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<210> 18753
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; KRAS; G12A; 0

<400> 18753
Thr Glu Tyr Lys Leu Val Val Val Gly Ala Ala
1               5                   10


<210> 18754
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*40:06; KRAS; G12A; 0

<400> 18754
Thr Glu Tyr Lys Leu Val Val Val Gly Ala Ala
1               5                   10


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<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; KRAS; G12A; 0

<400> 18755
Thr Glu Tyr Lys Leu Val Val Val Gly Ala Ala
1               5                   10


<210> 18756
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; KRAS; G12V; 1

<400> 18756
Thr Glu Tyr Lys Leu Val Val Val Gly Ala Val
1               5                   10


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<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; KRAS; G12V; 1

<400> 18757
Thr Glu Tyr Lys Leu Val Val Val Gly Ala Val
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<220>
<223> Table A; HLA-A*29:02; TP53; R213Q; 0

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Thr Phe Gln His Ser Val Val Val Pro Tyr
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<210> 18759
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; TP53; R213Q; 0

<400> 18759
Thr Phe Gln His Ser Val Val Val Pro Tyr
1               5                   10


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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; R213Q; 0

<400> 18760
Thr Phe Gln His Ser Val Val Val Pro Tyr
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<210> 18761
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PTPRB; R529Q; 0

<400> 18761
Thr Phe Thr Asp Leu Val Pro Gly Gln Lys
1               5                   10


<210> 18762
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; PTPRB; R529Q; 0

<400> 18762
Thr Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr

1 5 10

<210> 18763
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; PTPRB; R529Q; 0

<400> 18763
Thr Phe Thr Asp Leu Val Pro Gly Gln Lys Tyr
1 5 10

<210> 18764
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; NFE2L2; E82D; 0

<400> 18764
Thr Gly Asp Phe Leu Pro Ile Gln Pro Ala
1 5 10

<210> 18765
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; ARHGEF12; R113Q; 1

<400> 18765
Thr Gly Asp Gln Ile Ile Lys Val
1 5

<210> 18766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E545G; 0

<400> 18766
Thr Gly Gln Glu Lys Asp Phe Leu Trp
1 5

<210> 18767
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; A1CF; E34K; 1

<400> 18767
Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 18768
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; A1CF; E34K; 0

<400> 18768
Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 18769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; A1CF; E34K; 1

<400> 18769
Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 18770
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; A1CF; E34K; 0

<400> 18770
Thr Gly Tyr Ser Leu Val Gln Lys
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<210> 18771

<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; A1CF; E34K; 1

<400> 18771
Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 18772
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; A1CF; E34K; 1

<400> 18772
Thr Gly Tyr Ser Leu Val Gln Lys
1               5


<210> 18773
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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; A1CF; E34K; 1

<400> 18773
Thr Gly Tyr Ser Leu Val Gln Lys Asn
1               5


<210> 18774
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; A1CF; E34K; 0

<400> 18774
Thr Gly Tyr Ser Leu Val Gln Lys Asn
1               5


<210> 18775
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; G262V; 0

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1               5                   10


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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNND1; A781T; 0

<400> 18776
Thr Ile Asn Glu Val Ile Thr Glu Asn
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<210> 18777
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNND1; A781T; 0

<400> 18777
Thr Ile Asn Glu Val Ile Thr Glu Asn
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<210> 18778
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 18778
Thr Ile Asn Glu Val Ile Thr Glu Asn
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<210> 18779
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 18779
Thr Ile Asn Glu Val Ile Thr Glu Asn
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<210> 18780
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNND1; A781T; 0

<400> 18780
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<210> 18781
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNND1; A781T; 0

<400> 18781
Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5                   10


<210> 18782
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNND1; A781T; 0

<400> 18782
Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5                   10


<210> 18783
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNND1; A781T; 0

<400> 18783
Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
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<210> 18784
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNND1; A781T; 1

<400> 18784
Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
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<210> 18785
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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CTNND1; A781T; 0

<400> 18785
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<210> 18786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNND1; A781T; 0

<400> 18786
Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
1               5                   10


<210> 18787
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 18787

Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
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<210> 18788
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNND1; A781T; 0

<400> 18788
Thr Ile Asn Glu Val Ile Thr Glu Asn Leu
1 5 10

<210> 18789
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; CTNND1; A781T; 0

<400> 18789
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1 5 10

<210> 18790
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNND1; A781T; 0

<400> 18790
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1 5 10

<210> 18791
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; T41I; 0

<400> 18791
Thr Ile Thr Ala Pro Ser Leu Ser Gly
1 5

<210> 18792
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; T41I; 0

<400> 18792
Thr Ile Thr Ala Pro Ser Leu Ser Gly
1               5


<210> 18793
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; T41I; 1

<400> 18793
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 18794
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; T41I; 0

<400> 18794
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 18795
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; T41I; 1

<400> 18795
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10

<210> 18796
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; T41I; 0

<400> 18796
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 18797
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; T41I; 0

<400> 18797
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 18798
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; T41I; 0

<400> 18798
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 18799
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; T41I; 0

<400> 18799
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 18800
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; T41I; 0

<400> 18800
Thr Ile Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 18801
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SPOP; R121Q; 0

<400> 18801
Thr Lys Ala Met Glu Ser Gln Gln Ala Tyr
1               5                   10


<210> 18802
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SPOP; M117V; 0

<400> 18802
Thr Lys Ala Val Glu Ser Gln Arg Ala Tyr
1               5                   10


<210> 18803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; ARHGEF12; R705H; 1

<400> 18803
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ARHGEF12; R705H; 0

<400> 18804
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ARHGEF12; R705H; 0

<400> 18805
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ARHGEF12; R705H; 0

<400> 18806
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ARHGEF12; R705H; 0

<400> 18807
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18808
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:07; ARHGEF12; R705H; 0

<400> 18808
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; ARHGEF12; R705H; 0

<400> 18809
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; ARHGEF12; R705H; 0

<400> 18810
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; ARHGEF12; R705H; 0

<400> 18811
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; ARHGEF12; R705H; 0

<400> 18812
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; ARHGEF12; R705H; 0

<400> 18813
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; ARHGEF12; R705H; 0

<400> 18814
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18815
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; ARHGEF12; R705H; 0

<400> 18815
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; ARHGEF12; R705H; 0

<400> 18816
Thr Leu Asp Gly Thr Pro His Thr Leu

1 5

<210> 18817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; ARHGEF12; R705H; 0

<400> 18817
Thr Leu Asp Gly Thr Pro His Thr Leu
1 5

<210> 18818
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; ARHGEF12; R705H; 0

<400> 18818
Thr Leu Asp Gly Thr Pro His Thr Leu
1 5

<210> 18819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; ARHGEF12; R705H; 1

<400> 18819
Thr Leu Asp Gly Thr Pro His Thr Leu
1 5

<210> 18820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; ARHGEF12; R705H; 0

<400> 18820
Thr Leu Asp Gly Thr Pro His Thr Leu
1 5

<210> 18821
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; ARHGEF12; R705H; 1

<400> 18821
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; ARHGEF12; R705H; 1

<400> 18822
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18823
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; ARHGEF12; R705H; 1

<400> 18823
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; ARHGEF12; R705H; 0

<400> 18824
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18825

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; ARHGEF12; R705H; 0

<400> 18825
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; ARHGEF12; R705H; 0

<400> 18826
Thr Leu Asp Gly Thr Pro His Thr Leu
1               5


<210> 18827
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; G266R; 0

<400> 18827
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5                   10


<210> 18828
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; TP53; G266R; 0

<400> 18828
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5                   10


<210> 18829
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; TP53; G266R; 0

<400> 18829
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5                   10


<210> 18830
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; G266V; 1

<400> 18830
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Val
1               5                   10


<210> 18831
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; G266V; 0

<400> 18831
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Val
1               5                   10


<210> 18832
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; G266V; 0

<400> 18832
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Val
1               5                   10


<210> 18833
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; TP53; G266V; 0

<400> 18833
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Val
1               5                   10


<210> 18834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; G262V; 1

<400> 18834
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; G262V; 0

<400> 18835
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18836
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; TP53; G262V; 0

<400> 18836
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TP53; G262V; 0

<400> 18837
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1               5


<210> 18838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; G262V; 0

<400> 18838
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1               5


<210> 18839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; TP53; G262V; 0

<400> 18839
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1               5


<210> 18840
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:02; TP53; G262V; 0

<400> 18840
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1               5


<210> 18841
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; TP53; G262V; 0

<400> 18841

Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; TP53; G262V; 0

<400> 18842
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; TP53; G262V; 0

<400> 18843
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; G262V; 0

<400> 18844
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; TP53; G262V; 0

<400> 18845
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<210> 18846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; TP53; G262V; 1

<400> 18846
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1               5


<210> 18847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; TP53; G262V; 0

<400> 18847
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 18848
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; TP53; G262V; 0

<400> 18848
Thr Leu Glu Asp Ser Ser Val Asn Leu Leu
1               5                   10


<210> 18849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; TP53; G262V; 0

<400> 18849
Thr Leu Glu Asp Ser Ser Val Asn Leu Leu
1               5                   10

<210> 18850
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; G262V; 0

<400> 18850
Thr Leu Glu Asp Ser Ser Val Asn Leu Leu
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<210> 18851
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; TP53; G262V; 0

<400> 18851
Thr Leu Glu Asp Ser Ser Val Asn Leu Leu
1               5                   10


<210> 18852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; MTOR; S2215Y; 1

<400> 18852
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 18853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; MTOR; S2215Y; 0

<400> 18853
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 18854
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; MTOR; S2215Y; 0

<400> 18854
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 18855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; MTOR; S2215Y; 1

<400> 18855
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 18856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; MTOR; S2215Y; 1

<400> 18856
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 18857
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; MTOR; S2215Y; 0

<400> 18857
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 18858
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; MTOR; S2215Y; 0

<400> 18858
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 18859
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; MTOR; S2215Y; 1

<400> 18859
Thr Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5                   10


<210> 18860
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; MTOR; S2215Y; 0

<400> 18860
Thr Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5                   10


<210> 18861
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; MTOR; S2215Y; 0

<400> 18861
Thr Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5                   10


<210> 18862
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*17:01; MTOR; S2215Y; 0

<400> 18862
Thr Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5                   10


<210> 18863
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; STAG1; A116T; 0

<400> 18863
Thr Leu Leu Asp Leu Ile Asn Phe
1               5


<210> 18864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; STAG1; A116T; 0

<400> 18864
Thr Leu Leu Asp Leu Ile Asn Phe Phe
1               5


<210> 18865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; STAG1; A116T; 0

<400> 18865
Thr Leu Leu Asp Leu Ile Asn Phe Phe
1               5


<210> 18866
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; STAG1; A116T; 1

<400> 18866
Thr Leu Leu Asp Leu Ile Asn Phe Phe Ile
1               5                   10


<210> 18867
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; STAG1; A116T; 0

<400> 18867
Thr Leu Leu Asp Leu Ile Asn Phe Phe Ile
1               5                   10


<210> 18868
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; ERBB3; V104M; 0

<400> 18868
Thr Leu Pro Leu Pro Asn Leu Arg Met
1               5


<210> 18869
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*41:02; TP53; R337L; 0

<400> 18869
Thr Leu Gln Ile Arg Gly Arg Glu Leu
1               5


<210> 18870
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; N387K; 0

<400> 18870
Thr Leu Arg Lys Leu Ser Asp Ala

1 5

<210> 18871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; N387K; 0

<400> 18871
Thr Leu Arg Lys Leu Ser Asp Ala Ala
1 5

<210> 18872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; N387K; 0

<400> 18872
Thr Leu Arg Lys Leu Ser Asp Ala Ala
1 5

<210> 18873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; N387K; 0

<400> 18873
Thr Leu Arg Lys Leu Ser Asp Ala Ala
1 5

<210> 18874
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; N387K; 1

<400> 18874
Thr Leu Arg Lys Leu Ser Asp Ala Ala Thr Lys
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<210> 18875
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; N387K; 0

<400> 18875
Thr Leu Arg Lys Leu Ser Asp Ala Ala Thr Lys
1               5                   10


<210> 18876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PPP2R1A; S256F; 0

<400> 18876
Thr Leu Arg Gln Ala Ala Glu Asp Lys Phe
1               5                   10


<210> 18877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CDKN2A; H83Y; 0

<400> 18877
Thr Leu Thr Arg Pro Val Tyr Asp Ala
1               5


<210> 18878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; CDKN2A; H83Y; 0

<400> 18878
Thr Leu Thr Arg Pro Val Tyr Asp Ala
1               5


<210> 18879

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CDKN2A; H83Y; 0

<400> 18879
Thr Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5                   10


<210> 18880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; FBXW7; G423V; 0

<400> 18880
Thr Leu Val Gly His Thr Gly Val Val
1               5


<210> 18881
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; FBXW7; G423V; 0

<400> 18881
Thr Leu Val Gly His Thr Gly Val Val Trp
1               5                   10


<210> 18882
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; FBXW7; G423V; 0

<400> 18882
Thr Leu Val Gly His Thr Gly Val Val Trp
1               5                   10


<210> 18883
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; FBXW7; G423V; 0

<400> 18883
Thr Leu Val Gly His Thr Gly Val Val Trp
1               5                   10


<210> 18884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; FBXW7; R465C; 0

<400> 18884
Thr Leu Tyr Gly His Thr Ser Thr Val Cys
1               5                   10


<210> 18885
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; FBXW7; R465H; 0

<400> 18885
Thr Leu Tyr Gly His Thr Ser Thr Val His
1               5                   10


<210> 18886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; FBXW7; R465H; 0

<400> 18886
Thr Leu Tyr Gly His Thr Ser Thr Val His
1               5                   10


<210> 18887
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; RAC1; P29L; 0

<400> 18887
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1               5


<210> 18888
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; P29L; 1

<400> 18888
Thr Asn Ala Phe Leu Gly Glu Tyr
1               5


<210> 18889
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RAC1; P29L; 1

<400> 18889
Thr Asn Ala Phe Leu Gly Glu Tyr
1               5


<210> 18890
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; RAC1; P29L; 0

<400> 18890
Thr Asn Ala Phe Leu Gly Glu Tyr
1               5


<210> 18891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 18891
Thr Asn Ala Phe Leu Gly Glu Tyr Ile
1               5


<210> 18892
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; RAC1; P29S; 1

<400> 18892
Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 18893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; P29S; 1

<400> 18893
Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 18894
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; RAC1; P29S; 0

<400> 18894
Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 18895
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; RAC1; P29S; 1

<400> 18895

Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 18896
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; RAC1; P29S; 0

<400> 18896
Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 18897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; RAC1; P29S; 1

<400> 18897
Thr Asn Ala Phe Ser Gly Glu Tyr Ile
1               5


<210> 18898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; CHST11; A159T; 0

<400> 18898
Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5


<210> 18899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CHST11; A159T; 0

<400> 18899
Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5

<210> 18900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CHST11; A159T; 0

<400> 18900
Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5


<210> 18901
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CHST11; A159T; 1

<400> 18901
Thr Asn Leu Lys Thr Leu Asn Gln Tyr
1               5


<210> 18902
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; ARHGEF12; R705H; 0

<400> 18902
Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 18903
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; ARHGEF12; R705H; 1

<400> 18903
Thr Pro His Thr Leu Asn Thr Val
1               5

<210> 18904
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; ARHGEF12; R705H; 0

<400> 18904
Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 18905
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; ARHGEF12; R705H; 0

<400> 18905
Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 18906
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; ARHGEF12; R705H; 0

<400> 18906
Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 18907
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; ARHGEF12; R705H; 0

<400> 18907
Thr Pro His Thr Leu Asn Thr Val
1               5


<210> 18908
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; ARHGEF12; R705H; 1

<400> 18908
Thr Pro His Thr Leu Asn Thr Val Phe
1               5


<210> 18909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; ARHGEF12; R705H; 0

<400> 18909
Thr Pro His Thr Leu Asn Thr Val Phe
1               5


<210> 18910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; ARHGEF12; R705H; 1

<400> 18910
Thr Pro His Thr Leu Asn Thr Val Phe
1               5


<210> 18911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; ARHGEF12; R705H; 0

<400> 18911
Thr Pro His Thr Leu Asn Thr Val Phe
1               5


<210> 18912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; ARHGEF12; R705H; 0

<400> 18912
Thr Pro His Thr Leu Asn Thr Val Phe
1               5


<210> 18913
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CAMTA1; A1117V; 0

<400> 18913
Thr Pro Leu Met Trp Val Cys Ala
1               5


<210> 18914
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; SMARCA4; E920K; 1

<400> 18914
Thr Pro Leu Gln Asn Lys Leu Pro Lys Leu
1               5                   10


<210> 18915
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PPP2R1A; R183W; 0

<400> 18915
Thr Pro Met Val Arg Trp Ala Ala
1               5


<210> 18916
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*54:01; PPP2R1A; R183W; 0

<400> 18916
Thr Pro Met Val Arg Trp Ala Ala
1               5


<210> 18917
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; PPP2R1A; R183W; 0

<400> 18917
Thr Pro Met Val Arg Trp Ala Ala
1               5


<210> 18918
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; PPP2R1A; R183W; 0

<400> 18918
Thr Pro Met Val Arg Trp Ala Ala
1               5


<210> 18919
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; PPP2R1A; R183W; 0

<400> 18919
Thr Pro Met Val Arg Trp Ala Ala
1               5


<210> 18920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PPP2R1A; R183W; 1

<400> 18920
Thr Pro Met Val Arg Trp Ala Ala Ala
1               5


<210> 18921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; PPP2R1A; R183W; 1

<400> 18921
Thr Pro Met Val Arg Trp Ala Ala Ala
1               5


<210> 18922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PPP2R1A; R183W; 0

<400> 18922
Thr Pro Met Val Arg Trp Ala Ala Ala
1               5


<210> 18923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PPP2R1A; R183W; 0

<400> 18923
Thr Pro Met Val Arg Trp Ala Ala Ala
1               5


<210> 18924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; PPP2R1A; R183W; 0

<400> 18924
Thr Pro Met Val Arg Trp Ala Ala Ala

1 5

<210> 18925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; PPP2R1A; R183W; 0

<400> 18925
Thr Pro Met Val Arg Trp Ala Ala Ala
1 5

<210> 18926
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; PPP2R1A; R183W; 0

<400> 18926
Thr Pro Met Val Arg Trp Ala Ala Ala
1 5

<210> 18927
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; V157F; 1

<400> 18927
Thr Pro Pro Pro Gly Thr Arg Phe
1 5

<210> 18928
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; V157F; 1

<400> 18928
Thr Pro Pro Pro Gly Thr Arg Phe
1 5

<210> 18929
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; TP53; V157F; 0

<400> 18929
Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18930
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; V157F; 0

<400> 18930
Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 18931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; R158H; 0

<400> 18931
Thr Pro Pro Pro Gly Thr Arg Val His
1               5


<210> 18932
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R158H; 0

<400> 18932
Thr Pro Pro Pro Gly Thr Arg Val His Ala
1               5                   10


<210> 18933

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; TP53; R158H; 0

<400> 18933
Thr Pro Pro Pro Gly Thr Arg Val His Ala
1               5                   10


<210> 18934
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; TP53; R158H; 0

<400> 18934
Thr Pro Pro Pro Gly Thr Arg Val His Ala
1               5                   10


<210> 18935
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; TP53; R158H; 0

<400> 18935
Thr Pro Pro Pro Gly Thr Arg Val His Ala
1               5                   10


<210> 18936
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; R158H; 1

<400> 18936
Thr Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 18937
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; TP53; R158H; 1

<400> 18937
Thr Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 18938
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; R158H; 0

<400> 18938
Thr Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 18939
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TP53; R158H; 0

<400> 18939
Thr Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 18940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; A159V; 0

<400> 18940
Thr Pro Pro Pro Gly Thr Arg Val Arg Val
1               5                   10


<210> 18941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PTK6; H126P; 0

<400> 18941
Thr Gln Ala Val Arg Pro Tyr Lys Ile
1               5


<210> 18942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; PIK3CA; E81K; 0

<400> 18942
Thr Gln Glu Ala Glu Arg Glu Lys Phe
1               5


<210> 18943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PIK3CA; E81K; 0

<400> 18943
Thr Gln Glu Ala Glu Arg Glu Lys Phe
1               5


<210> 18944
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; MECOM; R205S; 1

<400> 18944
Thr Gln Phe Ser Asn Leu Cys Ser His
1               5


<210> 18945
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; PIK3CB; R321Q; 0

<400> 18945
Thr Gln Ile Ile Ser His Val Trp
1               5


<210> 18946
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; PIK3CB; R321Q; 0

<400> 18946
Thr Gln Ile Ile Ser His Val Trp
1               5


<210> 18947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; PTPRT; M903I; 0

<400> 18947
Thr Gln Ile Lys Arg Gly Gln Gly Tyr
1               5


<210> 18948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTPRT; M903I; 1

<400> 18948
Thr Gln Ile Lys Arg Gly Gln Gly Tyr
1               5


<210> 18949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PTPRT; M903I; 0

<400> 18949

Thr Gln Ile Lys Arg Gly Gln Gly Tyr
1 5

<210> 18950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; PTPRT; M903I; 0

<400> 18950
Thr Gln Ile Lys Arg Gly Gln Gly Tyr
1 5

<210> 18951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ZFHX3; R846C; 0

<400> 18951
Thr Gln Ile Gln His Asn Cys His Leu
1 5

<210> 18952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; ZFHX3; R846C; 0

<400> 18952
Thr Gln Ile Gln His Asn Cys His Leu
1 5

<210> 18953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; MAP2K1; K57N; 0

<400> 18953
Thr Gln Asn Gln Lys Val Gly Glu Leu
1 5

<210> 18954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; MAP2K1; K57N; 0

<400> 18954
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; MAP2K1; K57N; 0

<400> 18955
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; MAP2K1; K57N; 0

<400> 18956
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18957
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; MAP2K1; K57N; 0

<400> 18957
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5

<210> 18958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; MAP2K1; K57N; 1

<400> 18958
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; MAP2K1; K57N; 0

<400> 18959
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; MAP2K1; K57N; 0

<400> 18960
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18961
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; MAP2K1; K57N; 0

<400> 18961
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18962
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; MAP2K1; K57N; 0

<400> 18962
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18963
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; MAP2K1; K57N; 0

<400> 18963
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18964
<211> 9
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<220>
<223> Table A; HLA-B*15:02; MAP2K1; K57N; 0

<400> 18964
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; MAP2K1; K57N; 0

<400> 18965
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; MAP2K1; K57N; 0

<400> 18966
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; MAP2K1; K57N; 0

<400> 18967
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; MAP2K1; K57N; 0

<400> 18968
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; MAP2K1; K57N; 0

<400> 18969
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18970
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*44:05; MAP2K1; K57N; 0

<400> 18970
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; MAP2K1; K57N; 0

<400> 18971
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; MAP2K1; K57N; 0

<400> 18972
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; MAP2K1; K57N; 0

<400> 18973
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; MAP2K1; K57N; 0

<400> 18974
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; MAP2K1; K57N; 0

<400> 18975
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 18976
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MAP2K1; K57N; 1

<400> 18976
Thr Gln Asn Gln Lys Val Gly Glu Leu Lys
1               5                   10


<210> 18977
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MAP2K1; K57N; 0

<400> 18977
Thr Gln Asn Gln Lys Val Gly Glu Leu Lys
1               5                   10


<210> 18978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; MAP2K1; K57N; 0

<400> 18978
Thr Gln Asn Gln Lys Val Gly Glu Leu Lys

1 5 10

<210> 18979
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; MAP2K1; K57N; 0

<400> 18979
Thr Gln Asn Gln Lys Val Gly Glu Leu Lys
1 5 10

<210> 18980
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PCBP1; L100Q; 1

<400> 18980
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<210> 18981
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<223> Table A; HLA-B*15:02; PCBP1; L100Q; 0

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<210> 18982
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PCBP1; L100Q; 0

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<210> 18983
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; PCBP1; L100Q; 0

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<210> 18984
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<220>
<223> Table A; HLA-B*13:02; PCBP1; L100Q; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; PCBP1; L100Q; 0

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<210> 18986
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<212> PRT
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<220>
<223> Table A; HLA-B*14:01; SMARCA4; G1162S; 0

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<210> 18987

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<220>
<223> Table A; HLA-B*15:10; SMARCA4; G1162S; 0

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<220>
<223> Table A; HLA-B*38:01; SMARCA4; G1162S; 0

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<210> 18990
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<220>
<223> Table A; HLA-B*39:01; SMARCA4; G1162S; 0

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<210> 18991
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<220>
<223> Table A; HLA-B*27:02; SMARCA4; G1162S; 0

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<210> 18992
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<220>
<223> Table A; HLA-B*27:05; SMARCA4; G1162S; 0

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<220>
<223> Table A; HLA-B*38:01; SMARCA4; G1162S; 0

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<210> 18994
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<220>
<223> Table A; HLA-B*39:01; SMARCA4; G1162S; 0

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<220>
<223> Table A; HLA-B*39:06; PIK3CA; E545A; 0

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<210> 18996
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<220>
<223> Table A; HLA-B*27:02; PIK3CA; Q546K; 0

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<220>
<223> Table A; HLA-B*27:05; PIK3CA; Q546K; 0

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<220>
<223> Table A; HLA-B*27:02; PIK3CA; Q546R; 0

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<220>
<223> Table A; HLA-B*39:01; PIK3CA; E545G; 0

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<220>
<223> Table A; HLA-B*27:02; PIK3CA; E545K; 0

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<210> 19001
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<220>
<223> Table A; HLA-B*27:05; PIK3CA; E545K; 1

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<210> 19002
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<220>
<223> Table A; HLA-B*14:02; PPP2R1A; P179R; 1

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Thr Arg Met Val Arg Arg Ala Ala Ala
1               5


<210> 19003
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<220>
<223> Table A; HLA-B*39:06; CDKN2A; H83Y; 0

<400> 19003

Thr Arg Pro Val Tyr Asp Ala Ala
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<210> 19004
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<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; I195T; 1

<400> 19004
Thr Arg Val Glu Gly Asn Leu Arg
1 5

<210> 19005
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; TP53; I195T; 0

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<210> 19006
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:10; TP53; I195T; 0

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<210> 19007
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; I195T; 1

<400> 19007
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1 5

<210> 19008
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; TP53; I195T; 0

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<210> 19009
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; I195T; 0

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1               5


<210> 19010
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; TP53; I195T; 0

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1               5


<210> 19011
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<220>
<223> Table A; HLA-C*06:02; TP53; I195T; 1

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<210> 19012
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; TP53; I195T; 0

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<210> 19013
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; TP53; I195T; 1

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1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; TP53; I195T; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; TP53; R158H; 0

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<210> 19016
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; GRIN2A; R1067W; 0

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<210> 19017
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; GRIN2A; R1067W; 0

<400> 19017
Thr Ser Asn Trp Ala Thr Cys His Arg
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<210> 19018
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; P151S; 0

<400> 19018
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<210> 19019
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; P151S; 0

<400> 19019
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<210> 19020
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<220>
<223> Table A; HLA-A*26:03; TP53; P151S; 0

<400> 19020
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<210> 19021
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; TP53; P151S; 0

<400> 19021
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1               5


<210> 19022
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; P151S; 0

<400> 19022
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1               5


<210> 19023
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; TP53; P151S; 0

<400> 19023
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1               5


<210> 19024
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<223> Table A; HLA-C*15:02; STAG2; R370Q; 0

<400> 19024
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1               5


<210> 19025
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<212> PRT
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<220>
<223> Table A; HLA-C*16:01; STAG2; R370Q; 0

<400> 19025
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1               5


<210> 19026
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; STAG2; R370Q; 0

<400> 19026
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1               5                   10


<210> 19027
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<220>
<223> Table A; HLA-A*02:01; NT5C2; R8Q; 1

<400> 19027
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<220>
<223> Table A; HLA-C*08:03; NT5C2; R8Q; 0

<400> 19028
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<210> 19029
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S45F; 0

<400> 19029
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45F; 1

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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45F; 0

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<210> 19032
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

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<210> 19033
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<220>
<223> Table A; HLA-A*26:01; CTNNB1; S45F; 0

<400> 19033
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<210> 19034
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; CTNNB1; S45F; 0

<400> 19034
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1 5

<210> 19035
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45F; 0

<400> 19035
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<210> 19036
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45F; 0

<400> 19036
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<210> 19037
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<212> PRT
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<223> Table A; HLA-A*33:01; CTNNB1; S45F; 0

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<210> 19038
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45F; 0

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<210> 19039
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45F; 0

<400> 19039
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

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<210> 19041

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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; S45F; 0

<400> 19041
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<210> 19042
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; S45F; 0

<400> 19042
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 19043
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; CTNNB1; S45F; 1

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<210> 19044
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; CTNNB1; S45F; 1

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<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45F; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S45F; 0

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<210> 19047
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S45F; 0

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<210> 19048
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45F; 1

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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 19049
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; CTNNB1; S45F; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S45F; 0

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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45F; 0

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<210> 19053
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45F; 0

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<210> 19054
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

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<210> 19055
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S45P; 0

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<210> 19056
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S45P; 1

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<210> 19057
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S45P; 0

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<210> 19058
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S45P; 0

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<210> 19059
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S45P; 0

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<210> 19060
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; S45P; 0

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<210> 19061
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45P; 1

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<210> 19062
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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45P; 0

<400> 19062
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<210> 19063
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 19063
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<210> 19064
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; CTNNB1; S45P; 1

<400> 19064
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<210> 19065
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; S45P; 1

<400> 19065
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<210> 19066
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; CTNNB1; S45P; 0

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<210> 19067
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45P; 1

<400> 19067
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<210> 19068
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45P; 1

<400> 19068
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<210> 19069
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S45P; 0

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<210> 19070
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45P; 0

<400> 19070
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<210> 19071
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<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

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1               5


<210> 19072
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45P; 0

<400> 19072
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 19073
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; CTNNB1; S45P; 1

<400> 19073
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 19074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; S45P; 1

<400> 19074
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<210> 19075
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S45P; 1

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<210> 19076
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; CTNNB1; S45P; 0

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1               5


<210> 19077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; S45P; 0

<400> 19077
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<210> 19078
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*27:05; CTNNB1; S45P; 1

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<210> 19079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTNNB1; S45P; 1

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1               5


<210> 19080
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; S45P; 0

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1               5


<210> 19081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S45P; 0

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1               5


<210> 19082
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; CTNNB1; S45P; 1

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1               5


<210> 19083
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45P; 0

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<210> 19084
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; CTNNB1; S45P; 0

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<220>
<223> Table A; HLA-C*08:01; CTNNB1; S45P; 0

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<210> 19086
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S45P; 0

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<210> 19087
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45P; 1

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1 5 10

<210> 19088
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

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1 5 10

<210> 19089
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<212> PRT
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<220>
<223> Table A; HLA-A*26:01; CTNNB1; S45P; 1

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<210> 19090
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<212> PRT
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<220>
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<210> 19091
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45P; 0

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<210> 19092
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

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<210> 19093
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45P; 0

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<210> 19094
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S45P; 0

<400> 19094
Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
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<210> 19095

<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

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<210> 19096
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; M237I; 0

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<210> 19097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; C238F; 0

<400> 19097
Thr Thr Ile His Tyr Asn Tyr Met Phe
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<210> 19098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; C238F; 0

<400> 19098
Thr Thr Ile His Tyr Asn Tyr Met Phe
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<210> 19099
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; TP53; C238Y; 0

<400> 19099
Thr Thr Ile His Tyr Asn Tyr Met Tyr
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<210> 19100
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<212> PRT
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<220>
<223> Table A; HLA-A*29:02; TP53; C238Y; 0

<400> 19100
Thr Thr Ile His Tyr Asn Tyr Met Tyr
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<210> 19101
<211> 9
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; C238Y; 0

<400> 19101
Thr Thr Ile His Tyr Asn Tyr Met Tyr
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<210> 19102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; POLE; P286R; 1

<400> 19102
Thr Thr Lys Leu Pro Leu Lys Phe Arg
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<210> 19103
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<220>
<223> Table A; HLA-A*33:01; POLE; P286R; 0

<400> 19103
Thr Thr Lys Leu Pro Leu Lys Phe Arg
1               5


<210> 19104
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; POLE; P286R; 0

<400> 19104
Thr Thr Lys Leu Pro Leu Lys Phe Arg
1               5


<210> 19105
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*01:01; RAC1; P29L; 1

<400> 19105
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1               5


<210> 19106
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; RAC1; P29L; 1

<400> 19106
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1               5


<210> 19107
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<212> PRT
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<220>
<223> Table A; HLA-A*03:02; RAC1; P29L; 0

<400> 19107
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1               5


<210> 19108
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; RAC1; P29L; 1

<400> 19108
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<210> 19109
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<212> PRT
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<220>
<223> Table A; HLA-A*25:01; RAC1; P29L; 0

<400> 19109
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<210> 19110
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<220>
<223> Table A; HLA-A*26:01; RAC1; P29L; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*26:02; RAC1; P29L; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; RAC1; P29L; 0

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<210> 19113
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<212> PRT
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<220>
<223> Table A; HLA-A*29:01; RAC1; P29L; 0

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1 5

<210> 19114
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<220>
<223> Table A; HLA-A*29:02; RAC1; P29L; 0

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<210> 19115
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<220>
<223> Table A; HLA-A*30:02; RAC1; P29L; 0

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<210> 19116
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<212> PRT
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<220>
<223> Table A; HLA-A*30:04; RAC1; P29L; 0

<400> 19116
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1               5


<210> 19117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; RAC1; P29L; 0

<400> 19117
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1               5


<210> 19118
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<220>
<223> Table A; HLA-A*33:01; RAC1; P29L; 0

<400> 19118
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<210> 19119
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<220>
<223> Table A; HLA-A*33:03; RAC1; P29L; 0

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<210> 19120
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<220>
<223> Table A; HLA-A*68:01; RAC1; P29L; 0

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<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

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<210> 19122
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<220>
<223> Table A; HLA-B*15:01; RAC1; P29L; 1

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<210> 19123
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; RAC1; P29L; 0

<400> 19123
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<210> 19124
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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; RAC1; P29L; 0

<400> 19124
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<220>
<223> Table A; HLA-B*27:02; RAC1; P29L; 0

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<210> 19126
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<220>
<223> Table A; HLA-B*35:01; RAC1; P29L; 1

<400> 19126
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<210> 19127
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<212> PRT
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<220>
<223> Table A; HLA-B*35:08; RAC1; P29L; 0

<400> 19127
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<210> 19128
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; RAC1; P29L; 0

<400> 19128
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<210> 19129
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<212> PRT
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<220>
<223> Table A; HLA-B*46:01; RAC1; P29L; 0

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<210> 19130
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; RAC1; P29L; 0

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1               5


<210> 19131
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; RAC1; P29L; 0

<400> 19131
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1               5


<210> 19132
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*02:02; RAC1; P29L; 0

<400> 19132
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1               5


<210> 19133
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<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; RAC1; P29L; 0

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1               5


<210> 19134
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; RAC1; P29L; 0

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1               5


<210> 19135
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; RAC1; P29L; 0

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1               5


<210> 19136
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<212> PRT
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<220>
<223> Table A; HLA-C*16:04; RAC1; P29L; 0

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1               5


<210> 19137
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<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

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<210> 19138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; RAC1; P29S; 1

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1               5


<210> 19139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; RAC1; P29S; 1

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<210> 19140
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; RAC1; P29S; 0

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<210> 19141
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; RAC1; P29S; 1

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<210> 19142
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; RAC1; P29S; 1

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<210> 19143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; RAC1; P29S; 1

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<210> 19144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; RAC1; P29S; 0

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<210> 19145
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; RAC1; P29S; 0

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<210> 19146
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<212> PRT
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<220>
<223> Table A; HLA-A*29:01; RAC1; P29S; 0

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<210> 19147
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*29:02; RAC1; P29S; 1

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<210> 19148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; RAC1; P29S; 0

<400> 19148
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<210> 19149

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; RAC1; P29S; 0

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<220>
<223> Table A; HLA-A*31:01; RAC1; P29S; 1

<400> 19150
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<210> 19151
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<212> PRT
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<220>
<223> Table A; HLA-A*32:01; RAC1; P29S; 1

<400> 19151
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<210> 19152
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; RAC1; P29S; 0

<400> 19152
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<210> 19153
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; RAC1; P29S; 1

<400> 19153
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<210> 19154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; P29S; 1

<400> 19154
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<210> 19155
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<212> PRT
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<220>
<223> Table A; HLA-B*15:02; RAC1; P29S; 0

<400> 19155
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<210> 19156
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<212> PRT
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<220>
<223> Table A; HLA-B*15:03; RAC1; P29S; 0

<400> 19156
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<210> 19157
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<212> PRT
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<220>
<223> Table A; HLA-B*15:13; RAC1; P29S; 0

<400> 19157
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<210> 19158
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<212> PRT
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<220>
<223> Table A; HLA-B*18:01; RAC1; P29S; 1

<400> 19158
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<210> 19159
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<212> PRT
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<220>
<223> Table A; HLA-B*27:02; RAC1; P29S; 0

<400> 19159
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<210> 19160
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<212> PRT
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<220>
<223> Table A; HLA-B*35:01; RAC1; P29S; 1

<400> 19160
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<210> 19161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; RAC1; P29S; 0

<400> 19161
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<210> 19162
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; RAC1; P29S; 0

<400> 19162
Thr Thr Asn Ala Phe Ser Gly Glu Tyr
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<210> 19163
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; RAC1; P29S; 1

<400> 19163
Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 19164
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; RAC1; P29S; 0

<400> 19164
Thr Thr Asn Ala Phe Ser Gly Glu Tyr
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<210> 19165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; RAC1; P29S; 0

<400> 19165

Thr Thr Asn Ala Phe Ser Gly Glu Tyr
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<210> 19166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; RAC1; P29S; 1

<400> 19166
Thr Thr Asn Ala Phe Ser Gly Glu Tyr
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<210> 19167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; RAC1; P29S; 0

<400> 19167
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<210> 19168
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*02:02; RAC1; P29S; 1

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1 5

<210> 19169
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<212> PRT
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<223> Table A; HLA-C*03:02; RAC1; P29S; 0

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<210> 19170
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<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-C*08:01; RAC1; P29S; 0

<400> 19170
Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 19171
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; RAC1; P29S; 1

<400> 19171
Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 19172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; RAC1; P29S; 0

<400> 19172
Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5


<210> 19173
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; RAC1; P29S; 1

<400> 19173
Thr Thr Asn Ala Phe Ser Gly Glu Tyr Ile
1               5                   10

<210> 19174
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<220>
<223> Table A; HLA-A*68:02; RAC1; P29S; 0

<400> 19174
Thr Thr Asn Ala Phe Ser Gly Glu Tyr Ile
1               5                   10


<210> 19175
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45F; 1

<400> 19175
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19176
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 19176
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19177
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45F; 0

<400> 19177
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19178
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45F; 0

<400> 19178
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19179
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<212> PRT
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<220>
<223> Table A; HLA-A*33:01; CTNNB1; S45F; 0

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Thr Thr Thr Ala Pro Phe Leu Ser Gly
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<210> 19180
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45F; 0

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Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19181
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45F; 0

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Thr Thr Thr Ala Pro Phe Leu Ser Gly
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<210> 19182
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

<400> 19182
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19183
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; CTNNB1; S45F; 1

<400> 19183
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S45F; 0

<400> 19184
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45F; 0

<400> 19185
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 19186
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*03:01; CTNNB1; S45F; 1

<400> 19186
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19187
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45F; 0

<400> 19187
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19188
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45F; 1

<400> 19188
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; S45F; 0

<400> 19189
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19190
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45F; 0

<400> 19190
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19191
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45F; 0

<400> 19191
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19192
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45F; 0

<400> 19192
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19193
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45F; 0

<400> 19193
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 19194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; S45P; 1

<400> 19194
Thr Thr Thr Ala Pro Pro Leu Ser Gly

1 5

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45P; 1

<400> 19195
Thr Thr Thr Ala Pro Pro Leu Ser Gly
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<210> 19196
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45P; 0

<400> 19196
Thr Thr Thr Ala Pro Pro Leu Ser Gly
1 5

<210> 19197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

<400> 19197
Thr Thr Thr Ala Pro Pro Leu Ser Gly
1 5

<210> 19198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S45P; 0

<400> 19198
Thr Thr Thr Ala Pro Pro Leu Ser Gly
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<210> 19199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTNNB1; S45P; 0

<400> 19199
Thr Thr Thr Ala Pro Pro Leu Ser Gly
1               5


<210> 19200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; S45P; 1

<400> 19200
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19201
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; S45P; 0

<400> 19201
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19202
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 19202
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19203

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; S45P; 1

<400> 19203
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19204
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; S45P; 0

<400> 19204
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; S45P; 1

<400> 19205
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19206
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTNNB1; S45P; 0

<400> 19206
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19207
<211> 10
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; S45P; 0

<400> 19207
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19208
<211> 10
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<220>
<223> Table A; HLA-A*68:01; CTNNB1; S45P; 1

<400> 19208
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19209
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45P; 0

<400> 19209
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19210
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; S45P; 0

<400> 19210
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 19211
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; S45P; 1

<400> 19211
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1               5                   10


<210> 19212
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; S45P; 1

<400> 19212
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1               5                   10


<210> 19213
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S45P; 0

<400> 19213
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1               5                   10


<210> 19214
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; ACVR1; R206H; 0

<400> 19214
Thr Val Ala His Gln Ile Thr Leu
1               5


<210> 19215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ACVR1; R206H; 0

<400> 19215
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ACVR1; R206H; 0

<400> 19216
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ACVR1; R206H; 0

<400> 19217
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ACVR1; R206H; 0

<400> 19218
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; ACVR1; R206H; 0

<400> 19219

Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; ACVR1; R206H; 0

<400> 19220
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; ACVR1; R206H; 0

<400> 19221
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; ACVR1; R206H; 0

<400> 19222
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; ACVR1; R206H; 0

<400> 19223
Thr Val Ala His Gln Ile Thr Leu Leu
1               5

<210> 19224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; ACVR1; R206H; 0

<400> 19224
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; ACVR1; R206H; 0

<400> 19225
Thr Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; FAM135B; S11L; 0

<400> 19226
Thr Val Glu Phe Leu Val Glu Leu His
1               5


<210> 19227
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; RHOA; Y42C; 0

<400> 19227
Thr Val Phe Glu Asn Cys Val Ala
1               5

<210> 19228
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RHOA; Y42C; 0

<400> 19228
Thr Val Phe Glu Asn Cys Val Ala Asp Ile
1               5                   10


<210> 19229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; BRAF; G466V; 0

<400> 19229
Thr Val Gly Gln Arg Ile Gly Ser Val
1               5


<210> 19230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; XPO1; E571K; 0

<400> 19230
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19231
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; XPO1; E571K; 0

<400> 19231
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19232
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; XPO1; E571K; 1

<400> 19232
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; XPO1; E571K; 0

<400> 19233
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; XPO1; E571K; 0

<400> 19234
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; XPO1; E571K; 0

<400> 19235
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; XPO1; E571K; 0

<400> 19236
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19237
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; TP53; S127F; 1

<400> 19237
Thr Tyr Phe Pro Ala Leu Asn Lys
1               5


<210> 19238
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; TP53; S127F; 0

<400> 19238
Thr Tyr Phe Pro Ala Leu Asn Lys
1               5


<210> 19239
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; S127F; 0

<400> 19239
Thr Tyr Phe Pro Ala Leu Asn Lys
1               5


<210> 19240
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*31:01; TP53; S127F; 0

<400> 19240
Thr Tyr Phe Pro Ala Leu Asn Lys
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<210> 19241
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; S127F; 0

<400> 19241
Thr Tyr Phe Pro Ala Leu Asn Lys
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<210> 19242
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; S127F; 0

<400> 19242
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 19243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; S127F; 1

<400> 19243
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 19244
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; S127F; 0

<400> 19244
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 19245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; TP53; S127F; 1

<400> 19245
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 19246
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*07:02; TP53; S127F; 1

<400> 19246
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 19247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; S127F; 0

<400> 19247
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 19248
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; S127F; 0

<400> 19248
Thr Tyr Phe Pro Ala Leu Asn Lys Met

1 5

<210> 19249
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; S127F; 0

<400> 19249
Thr Tyr Phe Pro Ala Leu Asn Lys Met Phe
1 5 10

<210> 19250
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; S127F; 1

<400> 19250
Thr Tyr Phe Pro Ala Leu Asn Lys Met Phe
1 5 10

<210> 19251
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; S127F; 0

<400> 19251
Thr Tyr Phe Pro Ala Leu Asn Lys Met Phe
1 5 10

<210> 19252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; MTOR; S2215Y; 0

<400> 19252
Thr Tyr Leu Arg Lys Asn Leu Ser Ile
1 5

<210> 19253
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MTOR; S2215Y; 0

<400> 19253
Thr Tyr Leu Arg Lys Asn Leu Ser Ile Gln Arg
1               5                   10


<210> 19254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; V344M; 0

<400> 19254
Thr Tyr Met Asn Leu Asn Ile Arg
1               5


<210> 19255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; R110L; 0

<400> 19255
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu
1               5


<210> 19256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; R110L; 0

<400> 19256
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu
1               5


<210> 19257

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; R110L; 0

<400> 19257
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu
1               5


<210> 19258
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; R110L; 0

<400> 19258
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 19259
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; R110L; 0

<400> 19259
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 19260
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; R110L; 1

<400> 19260
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 19261
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; TP53; L130F; 0

<400> 19261
Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 19262
<211> 8
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-A*11:01; TP53; L130F; 0

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1               5


<210> 19263
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<212> PRT
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<223> Table A; HLA-A*33:01; TP53; L130F; 0

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1               5


<210> 19264
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<220>
<223> Table A; HLA-A*33:03; TP53; L130F; 0

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1               5


<210> 19265
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<220>
<223> Table A; HLA-A*68:01; TP53; L130F; 0

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1               5


<210> 19266
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<220>
<223> Table A; HLA-A*23:01; TP53; L130F; 0

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1               5


<210> 19267
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<220>
<223> Table A; HLA-A*24:02; TP53; L130F; 0

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1               5


<210> 19268
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<220>
<223> Table A; HLA-A*29:02; TP53; L130F; 0

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1               5


<210> 19269
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<220>
<223> Table A; HLA-A*33:03; TP53; L130F; 0

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1               5


<210> 19270
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<220>
<223> Table A; HLA-B*35:03; TP53; L130F; 0

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1               5


<210> 19271
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<220>
<223> Table A; HLA-B*38:01; TP53; L130F; 0

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1               5


<210> 19272
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<212> PRT
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<220>
<223> Table A; HLA-B*39:01; TP53; L130F; 0

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1               5


<210> 19273
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<220>
<223> Table A; HLA-C*07:02; TP53; L130F; 1

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Thr Tyr Ser Pro Ala Phe Asn Lys Met
1 5

<210> 19274
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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; TP53; L130F; 0

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1 5

<210> 19275
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<220>
<223> Table A; HLA-C*14:03; TP53; L130F; 0

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1 5

<210> 19276
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<220>
<223> Table A; HLA-A*23:01; TP53; L130F; 0

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1 5 10

<210> 19277
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<220>
<223> Table A; HLA-A*24:02; TP53; L130F; 0

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1 5 10

<210> 19278
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<220>
<223> Table A; HLA-B*57:01; TP53; L130F; 0

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1               5                   10


<210> 19279
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<220>
<223> Table A; HLA-C*14:02; TP53; L130F; 0

<400> 19279
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1               5                   10


<210> 19280
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<220>
<223> Table A; HLA-A*23:01; TP53; C135F; 0

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Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe Phe
1               5                   10


<210> 19281
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; C135F; 0

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1               5                   10

<210> 19282
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; F134L; 0

<400> 19282
Thr Tyr Ser Pro Ala Leu Asn Lys Met Leu
1               5                   10


<210> 19283
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<220>
<223> Table A; HLA-A*24:02; TP53; F134L; 0

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1               5                   10


<210> 19284
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<220>
<223> Table A; HLA-C*14:02; TP53; F134L; 0

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1               5                   10


<210> 19285
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<220>
<223> Table A; HLA-A*23:01; TP53; K132N; 0

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1               5


<210> 19286
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; K132N; 0

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1               5


<210> 19287
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<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; K132N; 0

<400> 19287
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1               5


<210> 19288
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<212> PRT
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<220>
<223> Table A; HLA-B*38:01; TP53; K132N; 0

<400> 19288
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1               5


<210> 19289
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; TP53; K132N; 0

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1               5


<210> 19290
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<212> PRT
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<220>
<223> Table A; HLA-C*14:02; TP53; K132N; 0

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1               5


<210> 19291
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<220>
<223> Table A; HLA-C*14:03; TP53; K132N; 0

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1               5


<210> 19292
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; K132N; 0

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1               5                   10


<210> 19293
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<220>
<223> Table A; HLA-A*24:02; TP53; K132N; 0

<400> 19293
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 19294
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*29:02; TP53; K132N; 0

<400> 19294
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 19295
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; K132N; 0

<400> 19295
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1               5                   10


<210> 19296
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; TP53; K132N; 0

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1               5                   10


<210> 19297
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; K132N; 0

<400> 19297
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 19298
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; TP53; K132N; 0

<400> 19298
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 19299
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; K132N; 0

<400> 19299
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 19300
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; K132N; 0

<400> 19300
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 19301
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; TP53; K132N; 1

<400> 19301
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 19302
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; K132N; 0

<400> 19302
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe

1 5 10

<210> 19303
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; K132N; 0

<400> 19303
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1 5 10

<210> 19304
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; TP53; K132R; 0

<400> 19304
Thr Tyr Ser Pro Ala Leu Asn Arg
1 5

<210> 19305
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; K132R; 0

<400> 19305
Thr Tyr Ser Pro Ala Leu Asn Arg
1 5

<210> 19306
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; TP53; K132R; 0

<400> 19306
Thr Tyr Ser Pro Ala Leu Asn Arg
1 5

<210> 19307
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; TP53; K132R; 0

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Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 19308
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; K132R; 0

<400> 19308
Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 19309
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; K132R; 0

<400> 19309
Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 19310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; K132R; 0

<400> 19310
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19311

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; K132R; 1

<400> 19311
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; TP53; K132R; 0

<400> 19312
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; K132R; 0

<400> 19313
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19314
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; K132R; 0

<400> 19314
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19315
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; TP53; K132R; 1

<400> 19315
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19316
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; TP53; K132R; 0

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Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19317
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; TP53; K132R; 0

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Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19318
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; TP53; K132R; 1

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Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; TP53; K132R; 1

<400> 19319
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19320
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; K132R; 0

<400> 19320
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 19321
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; TP53; K132R; 0

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1               5


<210> 19322
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<220>
<223> Table A; HLA-A*23:01; TP53; K132R; 0

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Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 19323
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<212> PRT
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<220>
<223> Table A; HLA-A*24:02; TP53; K132R; 1

<400> 19323
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 19324
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; K132R; 0

<400> 19324
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 19325
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*06:02; TP53; K132R; 1

<400> 19325
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 19326
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<220>
<223> Table A; HLA-C*14:02; TP53; K132R; 0

<400> 19326
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 19327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTNNB1; K335I; 0

<400> 19327

Thr Tyr Thr Tyr Glu Ile Leu Leu Trp
1 5

<210> 19328
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; CTNNB1; K335I; 1

<400> 19328
Thr Tyr Thr Tyr Glu Ile Leu Leu Trp
1 5

<210> 19329
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; N345K; 0

<400> 19329
Thr Tyr Val Lys Leu Asn Ile Arg
1 5

<210> 19330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; FBXW7; R505G; 1

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Val Ala Ala Val Gly Cys Val Gln Tyr
1 5

<210> 19331
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; FBXW7; R505G; 0

<400> 19331
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1 5

<210> 19332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; FBXW7; R505G; 1

<400> 19332
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1               5


<210> 19333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; FBXW7; R505G; 0

<400> 19333
Val Ala Ala Val Gly Cys Val Gln Tyr
1               5


<210> 19334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; FBXW7; R505G; 0

<400> 19334
Val Ala Ala Val Gly Cys Val Gln Tyr
1               5


<210> 19335
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; FBXW7; R505G; 0

<400> 19335
Val Ala Ala Val Gly Cys Val Gln Tyr
1               5

<210> 19336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; FBXW7; R505G; 0

<400> 19336
Val Ala Ala Val Gly Cys Val Gln Tyr
1               5


<210> 19337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; FBXW7; R505G; 0

<400> 19337
Val Ala Ala Val Gly Cys Val Gln Tyr
1               5


<210> 19338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; FBXW7; R505G; 0

<400> 19338
Val Ala Ala Val Gly Cys Val Gln Tyr
1               5


<210> 19339
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SIRPA; V233I; 0

<400> 19339
Val Ala His Ile Thr Leu Gln Gly Asp Pro Leu
1               5                   10


<210> 19340
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; ACVR1; R206H; 0

<400> 19340
Val Ala His Gln Ile Thr Leu Leu
1               5


<210> 19341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; KEAP1; R470C; 1

<400> 19341
Val Ala Val Leu Asn Cys Leu Leu Tyr
1               5


<210> 19342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; KEAP1; R470C; 1

<400> 19342
Val Ala Val Leu Asn Cys Leu Leu Tyr
1               5


<210> 19343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SF3B1; R625C; 0

<400> 19343
Val Cys Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; SF3B1; R625C; 0

<400> 19344
Val Cys Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; SF3B1; R625C; 0

<400> 19345
Val Cys Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19346
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; SF3B1; R625C; 0

<400> 19346
Val Cys Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; SF3B1; R625C; 0

<400> 19347
Val Cys Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19348
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*08:03; SF3B1; K700E; 0

<400> 19348
Val Asp Glu Gln Gln Glu Val Arg
1               5


<210> 19349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; K700E; 0

<400> 19349
Val Asp Glu Gln Gln Glu Val Arg Thr
1               5


<210> 19350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SF3B1; K700E; 0

<400> 19350
Val Asp Glu Gln Gln Glu Val Arg Thr
1               5


<210> 19351
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SF3B1; K700E; 0

<400> 19351
Val Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5                   10


<210> 19352
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SF3B1; K700E; 0

<400> 19352
Val Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5                   10


<210> 19353
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; SF3B1; K700E; 0

<400> 19353
Val Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5                   10


<210> 19354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; SMAD4; R361C; 1

<400> 19354
Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5


<210> 19355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SMAD4; R361C; 0

<400> 19355
Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5


<210> 19356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SMAD4; R361H; 0

<400> 19356
Val Asp Pro Ser Gly Gly Asp His Phe

1 5

<210> 19357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SMAD4; R361H; 0

<400> 19357
Val Asp Pro Ser Gly Gly Asp His Phe
1 5

<210> 19358
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SMARCA4; G1232S; 0

<400> 19358
Val Asp Gln Lys Val Ile Gln Ala Ser
1 5

<210> 19359
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; SMARCA4; G1232S; 0

<400> 19359
Val Asp Gln Lys Val Ile Gln Ala Ser Met
1 5 10

<210> 19360
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SMARCA4; G1232S; 0

<400> 19360
Val Asp Gln Lys Val Ile Gln Ala Ser Met
1 5 10

<210> 19361
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; V157F; 0

<400> 19361
Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5                   10


<210> 19362
<211> 11
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<220>
<223> Table A; HLA-B*44:05; TP53; V157F; 0

<400> 19362
Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5                   10


<210> 19363
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; V157F; 0

<400> 19363
Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5                   10


<210> 19364
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; V157F; 0

<400> 19364
Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5                   10


<210> 19365

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; TP53; P151S; 0

<400> 19365
Val Asp Ser Thr Ser Pro Pro Gly Thr Arg
1               5                   10


<210> 19366
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; P151S; 0

<400> 19366
Val Asp Ser Thr Ser Pro Pro Gly Thr Arg
1               5                   10


<210> 19367
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; TP53; P151S; 0

<400> 19367
Val Asp Ser Thr Ser Pro Pro Gly Thr Arg
1               5                   10


<210> 19368
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; P151S; 0

<400> 19368
Val Asp Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5                   10


<210> 19369
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; TP53; P151S; 0

<400> 19369
Val Asp Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5                   10


<210> 19370
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; Y205C; 0

<400> 19370
Val Glu Cys Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 19371
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; TP53; Y205C; 0

<400> 19371
Val Glu Cys Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 19372
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; TP53; Y205C; 0

<400> 19372
Val Glu Cys Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 19373
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; FAM135B; S11L; 0

<400> 19373
Val Glu Phe Leu Val Glu Leu His
1               5


<210> 19374
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; FAM135B; S11L; 0

<400> 19374
Val Glu Phe Leu Val Glu Leu His Lys Phe
1               5                   10


<210> 19375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; Y205C; 0

<400> 19375
Val Glu Gly Asn Leu Arg Val Glu Cys
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<210> 19376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; TP53; Y205C; 0

<400> 19376
Val Glu Gly Asn Leu Arg Val Glu Cys
1               5


<210> 19377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; TP53; Y205C; 0

<400> 19377
Val Glu Gly Asn Leu Arg Val Glu Cys
1               5


<210> 19378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; TP53; Y205C; 0

<400> 19378
Val Glu Gly Asn Leu Arg Val Glu Cys Leu
1               5                   10


<210> 19379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; TP53; Y205C; 0

<400> 19379
Val Glu Gly Asn Leu Arg Val Glu Cys Leu
1               5                   10


<210> 19380
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CNTNAP2; G362E; 0

<400> 19380
Val Glu Asn Leu Ser Phe Ser Cys Val
1               5


<210> 19381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CNTNAP2; G362E; 0

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Val Glu Asn Leu Ser Phe Ser Cys Val
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<210> 19382
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CNTNAP2; G362E; 0

<400> 19382
Val Glu Asn Leu Ser Phe Ser Cys Val
1               5


<210> 19383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CNTNAP2; T373M; 0

<400> 19383
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1               5


<210> 19384
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*18:01; CNTNAP2; T373M; 1

<400> 19384
Val Glu Pro Tyr Met Val Pro Val Phe
1               5


<210> 19385
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CNTNAP2; T373M; 0

<400> 19385
Val Glu Pro Tyr Met Val Pro Val Phe
1               5

<210> 19386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CNTNAP2; T373M; 0

<400> 19386
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1               5


<210> 19387
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CNTNAP2; T373M; 0

<400> 19387
Val Glu Pro Tyr Met Val Pro Val Phe Phe
1               5                   10


<210> 19388
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; SPOP; M117V; 0

<400> 19388
Val Glu Ser Gln Arg Ala Tyr Arg Phe
1               5


<210> 19389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; SPOP; M117V; 0

<400> 19389
Val Glu Ser Gln Arg Ala Tyr Arg Phe
1               5

<210> 19390
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CTCF; K365T; 0

<400> 19390
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1               5


<210> 19391
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*23:01; TRRAP; S722F; 0

<400> 19391
Val Phe Gly Ser Val Phe Leu Phe
1               5


<210> 19392
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TRRAP; S722F; 1

<400> 19392
Val Phe Gly Ser Val Phe Leu Phe
1               5


<210> 19393
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; TRRAP; S722F; 0

<400> 19393
Val Phe Gly Ser Val Phe Leu Phe
1               5


<210> 19394
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TRRAP; S722F; 0

<400> 19394
Val Phe Gly Ser Val Phe Leu Phe
1               5


<210> 19395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; TRRAP; S722F; 0

<400> 19395
Val Phe Gly Ser Val Phe Leu Phe Ala
1               5


<210> 19396
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12A; 0

<400> 19396
Val Gly Ala Ala Gly Val Gly Lys
1               5


<210> 19397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G12A; 0

<400> 19397
Val Gly Ala Ala Gly Val Gly Lys Ser
1               5


<210> 19398
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12A; 1

<400> 19398
Val Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19399
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; NRAS; G12C; 1

<400> 19399
Val Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19400
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12D; 1

<400> 19400
Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19401
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G12D; 0

<400> 19401
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1               5


<210> 19402
<211> 8
<212> PRT
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<220>

<223> Table A; HLA-A*11:01; NRAS; G12D; 1

<400> 19402
Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19403
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; KRAS; G12D; 1

<400> 19403
Val Gly Ala Asp Gly Val Gly Lys Ser
1               5


<210> 19404
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; NRAS; G12D; 0

<400> 19404
Val Gly Ala Asp Gly Val Gly Lys Ser
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<210> 19405
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; KRAS; G12D; 1

<400> 19405
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<210> 19406
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; NRAS; G12D; 0

<400> 19406
Val Gly Ala Asp Gly Val Gly Lys Ser Ala
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<210> 19407
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; NRAS; G12D; 0

<400> 19407
Val Gly Ala Asp Gly Val Gly Lys Ser Ala
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<210> 19408
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12D; 1

<400> 19408
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
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<210> 19409
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; KRAS; G12D; 1

<400> 19409
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19410
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; KRAS; G12D; 0

<400> 19410
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu

1 5 10

<210> 19411
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; NRAS; G12D; 1

<400> 19411
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 19412
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; NRAS; G12D; 1

<400> 19412
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 19413
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; NRAS; G12D; 0

<400> 19413
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 19414
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; NRAS; G12D; 0

<400> 19414
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 19415
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; NRAS; G12D; 0

<400> 19415
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G13D; 0

<400> 19416
Val Gly Ala Gly Asp Val Gly Lys Ser
1               5


<210> 19417
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G13D; 1

<400> 19417
Val Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19418
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G13D; 0

<400> 19418
Val Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19419

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KRAS; G13D; 0

<400> 19419
Val Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19420
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; NRAS; G13R; 1

<400> 19420
Val Gly Ala Gly Arg Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19421
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12S; 0

<400> 19421
Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 19422
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12S; 1

<400> 19422
Val Gly Ala Ser Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19423
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12V; 1

<400> 19423
Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19424
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12V; 1

<400> 19424
Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19425
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12V; 1

<400> 19425
Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19426
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12V; 1

<400> 19426
Val Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 19427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KEAP1; G480W; 0

<400> 19427
Val Gly Gly Phe Asp Trp Thr Asn Arg
1               5


<210> 19428
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; FBXW7; G423V; 0

<400> 19428
Val Gly His Thr Gly Val Val Trp
1               5


<210> 19429
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; R108H; 0

<400> 19429
Val Gly Asn His Glu Glu Lys Ile Leu Asn Arg
1               5                   10


<210> 19430
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; K111N; 0

<400> 19430
Val Gly Asn Arg Glu Glu Asn Ile Leu Asn Arg
1               5                   10


<210> 19431
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; FBXW7; R689W; 0

<400> 19431
Val Gly Ser Trp Asn Gly Thr Glu Glu Thr Lys
1               5                   10


<210> 19432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; KRAS; G12V; 1

<400> 19432
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 19433
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; KRAS; G12V; 1

<400> 19433
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 19434
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; KRAS; G12V; 1

<400> 19434
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 19435
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; KRAS; G12V; 1

<400> 19435

Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 19436
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12V; 0

<400> 19436
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 19437
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12V; 1

<400> 19437
Val Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 19438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; KEAP1; D422N; 0

<400> 19438
Val Gly Val Ile Asn Gly His Ile Tyr
1               5


<210> 19439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; KEAP1; D422N; 0

<400> 19439
Val Gly Val Ile Asn Gly His Ile Tyr
1               5

<210> 19440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; KEAP1; D422N; 0

<400> 19440
Val Gly Val Ile Asn Gly His Ile Tyr
1               5


<210> 19441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; KEAP1; D422N; 0

<400> 19441
Val Gly Val Ile Asn Gly His Ile Tyr
1               5


<210> 19442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; KEAP1; D422N; 0

<400> 19442
Val Gly Val Ile Asn Gly His Ile Tyr
1               5


<210> 19443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; KEAP1; D422N; 0

<400> 19443
Val Gly Val Ile Asn Gly His Ile Tyr
1               5

<210> 19444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; KEAP1; D422N; 0

<400> 19444
Val Gly Val Ile Asn Gly His Ile Tyr
1               5


<210> 19445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; KEAP1; D422N; 0

<400> 19445
Val Gly Val Ile Asn Gly His Ile Tyr
1               5


<210> 19446
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CDH11; K357T; 0

<400> 19446
Val His Ile Asp Pro Thr Phe Ile
1               5


<210> 19447
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CDH11; K357T; 0

<400> 19447
Val His Ile Asp Pro Thr Phe Ile
1               5


<210> 19448
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; SF3B1; R625H; 0

<400> 19448
Val His Asn Thr Thr Ala Arg Ala
1               5


<210> 19449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; SF3B1; R625H; 0

<400> 19449
Val His Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SF3B1; R625H; 1

<400> 19450
Val His Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SF3B1; R625H; 0

<400> 19451
Val His Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; SF3B1; R625H; 0

<400> 19452
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1               5


<210> 19453
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SF3B1; R625H; 0

<400> 19453
Val His Asn Thr Thr Ala Arg Ala Phe
1               5


<210> 19454
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PTPRC; Q895H; 0

<400> 19454
Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 19455
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PTPRC; Q895H; 0

<400> 19455
Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 19456
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*38:01; PTPRC; Q895H; 0

<400> 19456
Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 19457
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; PTPRC; Q895H; 0

<400> 19457
Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 19458
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PTPRC; Q895H; 0

<400> 19458
Val His Val Glu Ala Gln Tyr Ile
1               5


<210> 19459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PTPRC; Q895H; 0

<400> 19459
Val His Val Glu Ala Gln Tyr Ile Leu
1               5


<210> 19460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PTPRC; Q895H; 0

<400> 19460
Val His Val Glu Ala Gln Tyr Ile Leu
1               5


<210> 19461
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PTPRC; Q895H; 0

<400> 19461
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1               5                   10


<210> 19462
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CHD4; R975H; 0

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1               5


<210> 19463
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CHD4; R975H; 0

<400> 19463
Val His Val Glu Leu Ser Pro Met Gln Lys
1               5                   10


<210> 19464
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SIRPA; V233I; 1

<400> 19464
Val Ile Cys Glu Val Ala His Ile Thr Leu

1 5 10

<210> 19465
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; SIRPA; V233I; 0

<400> 19465
Val Ile Cys Glu Val Ala His Ile Thr Leu
1 5 10

<210> 19466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; CNTNAP2; R283H; 0

<400> 19466
Val Ile Glu His Gln Gly Arg Ser Ile
1 5

<210> 19467
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; PIK3CA; R108H; 0

<400> 19467
Val Ile Glu Pro Val Gly Asn His Glu Glu
1 5 10

<210> 19468
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; G106V; 0

<400> 19468
Val Ile Glu Pro Val Val Asn Arg
1 5

<210> 19469
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; PIK3CA; G106V; 0

<400> 19469
Val Ile Glu Pro Val Val Asn Arg
1               5


<210> 19470
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 19470
Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 19471
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34V; 0

<400> 19471
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 19472
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34V; 0

<400> 19472
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 19473

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; G34V; 1

<400> 19473
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 19474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34V; 0

<400> 19474
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 19475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34V; 1

<400> 19475
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 19476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; G34V; 0

<400> 19476
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1               5


<210> 19477
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; G34V; 0

<400> 19477
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 19478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 19478
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 19479
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 19479
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1               5


<210> 19480
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34V; 1

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Val Ile His Ser Gly Ala Thr Thr Thr Ala
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34V; 0

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<210> 19482
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34V; 0

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<210> 19483
<211> 10
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34V; 0

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<210> 19484
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; G34V; 0

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<210> 19485
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<212> PRT
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<220>
<223> Table A; HLA-A*30:01; CTNNB1; G34V; 0

<400> 19485
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<210> 19486
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTNNB1; G34V; 1

<400> 19486
Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 19487
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34V; 0

<400> 19487
Val Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 19488
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; G34V; 1

<400> 19488
Val Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 19489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; G34V; 0

<400> 19489

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<210> 19490
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*46:01; CTNNB1; G34V; 0

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<210> 19491
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 19491
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<210> 19492
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34V; 0

<400> 19492
Val Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 19493
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; G34V; 0

<400> 19493
Val Ile His Ser Gly Ala Thr Thr Thr Ala
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<210> 19494
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; G34V; 0

<400> 19494
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<210> 19495
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; G34V; 0

<400> 19495
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<210> 19496
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 19496
Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 19497
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KEAP1; D422N; 1

<400> 19497
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1               5

<210> 19498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KEAP1; D422N; 0

<400> 19498
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1               5


<210> 19499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; KEAP1; D422N; 0

<400> 19499
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KEAP1; D422N; 0

<400> 19500
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1               5


<210> 19501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KEAP1; D422N; 0

<400> 19501
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1               5


<210> 19502
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; KEAP1; D422N; 0

<400> 19502
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1               5


<210> 19503
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; KEAP1; D422N; 0

<400> 19503
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1               5


<210> 19504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KEAP1; D422N; 0

<400> 19504
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1               5


<210> 19505
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; KEAP1; D422N; 0

<400> 19505
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1               5


<210> 19506
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; KEAP1; D422N; 0

<400> 19506
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1               5


<210> 19507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KEAP1; D422N; 0

<400> 19507
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1               5


<210> 19508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; KEAP1; D422N; 0

<400> 19508
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1               5


<210> 19509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KEAP1; D422N; 0

<400> 19509
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19510
<211> 9
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*08:01; KEAP1; D422N; 1

<400> 19510
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KEAP1; D422N; 0

<400> 19511
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1               5


<210> 19512
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; KEAP1; D422N; 0

<400> 19512
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1               5


<210> 19513
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; KEAP1; D422N; 0

<400> 19513
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; KEAP1; D422N; 0

<400> 19514
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19515
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; KEAP1; D422N; 0

<400> 19515
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19516
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*46:01; KEAP1; D422N; 0

<400> 19516
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19517
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; KEAP1; D422N; 0

<400> 19517
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; KEAP1; D422N; 0

<400> 19518
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1 5

<210> 19519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KEAP1; D422N; 0

<400> 19519
Val Ile Asn Gly His Ile Tyr Ala Val
1 5

<210> 19520
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; KEAP1; D422N; 0

<400> 19520
Val Ile Asn Gly His Ile Tyr Ala Val
1 5

<210> 19521
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*02:02; KEAP1; D422N; 0

<400> 19521
Val Ile Asn Gly His Ile Tyr Ala Val
1 5

<210> 19522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; KEAP1; D422N; 0

<400> 19522
Val Ile Asn Gly His Ile Tyr Ala Val
1 5

<210> 19523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KEAP1; D422N; 0

<400> 19523
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19524
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; KEAP1; D422N; 0

<400> 19524
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19525
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*15:02; KEAP1; D422N; 0

<400> 19525
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; KEAP1; D422N; 0

<400> 19526
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19527

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; KEAP1; D422N; 0

<400> 19527
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; KEAP1; D422N; 0

<400> 19528
Val Ile Asn Gly His Ile Tyr Ala Val
1               5


<210> 19529
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; SMARCA4; G1232S; 0

<400> 19529
Val Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5                   10


<210> 19530
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; SMARCA4; G1232S; 0

<400> 19530
Val Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5                   10


<210> 19531
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; SMARCA4; G1232S; 0

<400> 19531
Val Ile Gln Ala Ser Met Phe Asp Gln Lys
1               5                   10


<210> 19532
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNND1; A781T; 1

<400> 19532
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNND1; A781T; 0

<400> 19533
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19534
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNND1; A781T; 0

<400> 19534
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNND1; A781T; 0

<400> 19535
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19536
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CTNND1; A781T; 0

<400> 19536
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19537
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNND1; A781T; 0

<400> 19537
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19538
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; CTNND1; A781T; 0

<400> 19538
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19539
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNND1; A781T; 0

<400> 19539
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19540
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<212> PRT
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<220>
<223> Table A; HLA-B*55:02; CTNND1; A781T; 0

<400> 19540
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19541
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNND1; A781T; 0

<400> 19541
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNND1; A781T; 0

<400> 19542
Val Ile Thr Glu Asn Leu Glu Ala Ala
1               5


<210> 19543
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CTNND1; A781T; 0

<400> 19543

Val Ile Thr Glu Asn Leu Glu Ala Ala Lys
1               5                   10


<210> 19544
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNND1; A781T; 0

<400> 19544
Val Ile Thr Glu Asn Leu Glu Ala Ala Lys
1               5                   10


<210> 19545
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 19545
Val Ile Thr Glu Asn Leu Glu Ala Ala Lys
1               5                   10


<210> 19546
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNND1; A781T; 0

<400> 19546
Val Ile Thr Glu Asn Leu Glu Ala Ala Lys
1               5                   10


<210> 19547
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNND1; A781T; 0

<400> 19547
Val Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10

<210> 19548
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNND1; A781T; 0

<400> 19548
Val Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 19549
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNND1; A781T; 0

<400> 19549
Val Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 19550
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNND1; A781T; 0

<400> 19550
Val Ile Thr Glu Asn Leu Glu Ala Ala Lys Lys
1               5                   10


<210> 19551
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E542V; 0

<400> 19551
Val Ile Thr Glu Gln Glu Lys Asp Phe Leu Trp
1               5                   10

<210> 19552
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; IDH1; R132G; 0

<400> 19552
Val Lys Pro Ile Ile Ile Gly Gly His Ala Tyr
1               5                   10


<210> 19553
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; IDH1; R132L; 0

<400> 19553
Val Lys Pro Ile Ile Ile Gly Leu
1               5


<210> 19554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; IDH1; R132S; 0

<400> 19554
Val Lys Pro Ile Ile Ile Gly Ser His
1               5


<210> 19555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; RAC1; A159V; 0

<400> 19555
Val Lys Tyr Leu Glu Cys Ser Val Leu
1               5


<210> 19556
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; RAC1; A159V; 0

<400> 19556
Val Lys Tyr Leu Glu Cys Ser Val Leu
1               5


<210> 19557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; MAP2K1; P124S; 0

<400> 19557
Val Leu His Glu Cys Asn Ser Ser Tyr
1               5


<210> 19558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; MAP2K1; P124S; 1

<400> 19558
Val Leu His Glu Cys Asn Ser Ser Tyr
1               5


<210> 19559
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; MAP2K1; P124S; 0

<400> 19559
Val Leu His Glu Cys Asn Ser Ser Tyr
1               5


<210> 19560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; MAP2K1; P124S; 0

<400> 19560
Val Leu His Glu Cys Asn Ser Ser Tyr
1               5


<210> 19561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; MAP2K1; P124S; 0

<400> 19561
Val Leu His Glu Cys Asn Ser Ser Tyr
1               5


<210> 19562
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; MAP2K1; P124S; 0

<400> 19562
Val Leu His Glu Cys Asn Ser Ser Tyr
1               5


<210> 19563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; KDR; S1100F; 0

<400> 19563
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1               5


<210> 19564
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:07; KDR; S1100F; 0

<400> 19564
Val Leu Leu Trp Glu Ile Phe Phe Leu
1               5


<210> 19565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KEAP1; R470C; 1

<400> 19565
Val Leu Asn Cys Leu Leu Tyr Ala Val
1               5


<210> 19566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; KEAP1; R470C; 0

<400> 19566
Val Leu Asn Cys Leu Leu Tyr Ala Val
1               5


<210> 19567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CREBBP; P2094L; 0

<400> 19567
Val Leu Asn Ile Leu Lys Ser Asn Leu
1               5


<210> 19568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CREBBP; P2094L; 0

<400> 19568
Val Leu Asn Ile Leu Lys Ser Asn Leu
1               5


<210> 19569
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CRNKL1; S128F; 0

<400> 19569
Val Leu Gln Val Pro Leu Pro Val Pro Arg Phe
1               5                   10


<210> 19570
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; RAC1; A159V; 1

<400> 19570
Val Leu Thr Gln Arg Gly Leu Lys
1               5


<210> 19571
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; RAC1; A159V; 0

<400> 19571
Val Leu Thr Gln Arg Gly Leu Lys
1               5


<210> 19572
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; RAC1; A159V; 0

<400> 19572
Val Leu Thr Gln Arg Gly Leu Lys

1 5

<210> 19573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; RAC1; A159V; 0

<400> 19573
Val Leu Thr Gln Arg Gly Leu Lys Thr
1 5

<210> 19574
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RAC1; A159V; 1

<400> 19574
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1 5 10

<210> 19575
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; RAC1; A159V; 0

<400> 19575
Val Leu Thr Gln Arg Gly Leu Lys Thr Val
1 5 10

<210> 19576
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; MTOR; A2056V; 1

<400> 19576
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1 5 10

<210> 19577
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; MTOR; A2056V; 0

<400> 19577
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1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; MTOR; A2056V; 0

<400> 19578
Val Met Met Glu Arg Gly Pro Gln Thr Leu
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<212> PRT
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<220>
<223> Table A; HLA-A*24:02; MTOR; A2056V; 1

<400> 19579
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; MTOR; A2056V; 1

<400> 19580
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<210> 19581

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; MTOR; A2056V; 0

<400> 19581
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1               5                   10


<210> 19582
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MTOR; A2056V; 1

<400> 19582
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<210> 19583
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MTOR; A2056V; 0

<400> 19583
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1               5                   10


<210> 19584
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; MTOR; E1799K; 1

<400> 19584
Val Met Asn Phe Lys Ala Val Leu
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<210> 19585
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; MTOR; E1799K; 1

<400> 19585
Val Met Asn Phe Lys Ala Val Leu His
1               5


<210> 19586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; MTOR; E1799K; 0

<400> 19586
Val Met Asn Phe Lys Ala Val Leu His
1               5


<210> 19587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; MTOR; E1799K; 1

<400> 19587
Val Met Asn Phe Lys Ala Val Leu His Tyr
1               5                   10


<210> 19588
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RGPD3; N756D; 1

<400> 19588
Val Met Gln Glu Leu Glu Asp Tyr
1               5


<210> 19589
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; RGPD3; N756D; 0

<400> 19589
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1               5


<210> 19590
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; ROBO2; D1014N; 0

<400> 19590
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1               5


<210> 19591
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*31:01; PIK3CA; C378R; 0

<400> 19591
Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 19592
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; PIK3CA; C378R; 0

<400> 19592
Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 19593
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; PIK3CA; C378R; 0

<400> 19593
Val Asn Thr Gln Arg Val Pro Arg
1               5


<210> 19594
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; Y220C; 1

<400> 19594
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1               5


<210> 19595
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; Y220C; 0

<400> 19595
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1               5


<210> 19596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PIK3CA; E453Q; 0

<400> 19596
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1               5


<210> 19597
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CRNKL1; S128F; 0

<400> 19597

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1               5


<210> 19598
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; CRNKL1; S128F; 1

<400> 19598
Val Pro Leu Pro Val Pro Arg Phe
1               5


<210> 19599
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CRNKL1; S128F; 0

<400> 19599
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<210> 19600
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*55:01; CRNKL1; S128F; 0

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1               5


<210> 19601
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; ACSL3; R232Q; 1

<400> 19601
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<210> 19602
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; ACSL3; R232Q; 1

<400> 19602
Val Pro Arg Leu Gln His Ile Ile
1               5


<210> 19603
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; ACSL3; R232Q; 0

<400> 19603
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1               5


<210> 19604
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; ACSL3; R232Q; 1

<400> 19604
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1               5                   10


<210> 19605
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*51:01; ACSL3; R232Q; 1

<400> 19605
Val Pro Arg Leu Gln His Ile Ile Thr Val
1               5                   10

<210> 19606
<211> 10
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<220>
<223> Table A; HLA-B*54:01; ACSL3; R232Q; 0

<400> 19606
Val Pro Arg Leu Gln His Ile Ile Thr Val
1               5                   10


<210> 19607
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<220>
<223> Table A; HLA-B*55:01; ACSL3; R232Q; 0

<400> 19607
Val Pro Arg Leu Gln His Ile Ile Thr Val
1               5                   10


<210> 19608
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<220>
<223> Table A; HLA-B*55:02; ACSL3; R232Q; 0

<400> 19608
Val Pro Arg Leu Gln His Ile Ile Thr Val
1               5                   10


<210> 19609
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; ACSL3; R232Q; 0

<400> 19609
Val Pro Arg Leu Gln His Ile Ile Thr Val
1               5                   10


<210> 19610
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; RHOA; Y42C; 0

<400> 19610
Val Pro Thr Val Phe Glu Asn Cys
1               5


<210> 19611
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; RHOA; Y42C; 0

<400> 19611
Val Pro Thr Val Phe Glu Asn Cys
1               5


<210> 19612
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; RHOA; Y42C; 0

<400> 19612
Val Pro Thr Val Phe Glu Asn Cys
1               5


<210> 19613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RHOA; Y42C; 0

<400> 19613
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; RHOA; Y42C; 1

<400> 19614
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; RHOA; Y42C; 0

<400> 19615
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; RHOA; Y42C; 0

<400> 19616
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; RHOA; Y42C; 0

<400> 19617
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19618
<211> 9
<212> PRT
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<220>

<223> Table A; HLA-B*54:01; RHOA; Y42C; 0

<400> 19618
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; RHOA; Y42C; 0

<400> 19619
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19620
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*55:02; RHOA; Y42C; 0

<400> 19620
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; RHOA; Y42C; 0

<400> 19621
Val Pro Thr Val Phe Glu Asn Cys Val
1               5


<210> 19622
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; RHOA; Y42C; 0

<400> 19622
Val Pro Thr Val Phe Glu Asn Cys Val Ala
1               5                   10


<210> 19623
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; RHOA; Y42C; 0

<400> 19623
Val Pro Thr Val Phe Glu Asn Cys Val Ala
1               5                   10


<210> 19624
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; RHOA; Y42C; 0

<400> 19624
Val Pro Thr Val Phe Glu Asn Cys Val Ala
1               5                   10


<210> 19625
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; SPOP; F133V; 0

<400> 19625
Val Gln Gly Lys Asp Trp Gly Val
1               5


<210> 19626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; A1CF; E34K; 0

<400> 19626
Val Gln Lys Asn Gly Gln Arg Lys Tyr

1 5

<210> 19627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; A1CF; E34K; 1

<400> 19627
Val Gln Lys Asn Gly Gln Arg Lys Tyr
1 5

<210> 19628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; A1CF; E34K; 0

<400> 19628
Val Gln Lys Asn Gly Gln Arg Lys Tyr
1 5

<210> 19629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; A1CF; E34K; 1

<400> 19629
Val Gln Lys Asn Gly Gln Arg Lys Tyr
1 5

<210> 19630
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; PPP2R1A; R28C; 0

<400> 19630
Val Gln Leu Cys Leu Asn Ser Ile
1 5

<210> 19631
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; A1CF; E34K; 1

<400> 19631
Val Gln Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5                   10


<210> 19632
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; A1CF; E34K; 1

<400> 19632
Val Gln Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5                   10


<210> 19633
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; A1CF; E34K; 0

<400> 19633
Val Gln Arg Thr Gly Tyr Ser Leu Val Gln Lys
1               5                   10


<210> 19634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; ACVR1; R206H; 0

<400> 19634
Val Gln Arg Thr Val Ala His Gln Ile
1               5


<210> 19635

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; ARHGEF12; R113Q; 0

<400> 19635
Val Gln Thr Gly Asp Gln Ile Ile
1               5


<210> 19636
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; ARHGEF12; R113Q; 0

<400> 19636
Val Gln Thr Gly Asp Gln Ile Ile
1               5


<210> 19637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; ARHGEF12; R113Q; 0

<400> 19637
Val Gln Thr Gly Asp Gln Ile Ile Lys
1               5


<210> 19638
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ARHGEF12; R113Q; 0

<400> 19638
Val Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5                   10


<210> 19639
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; ARHGEF12; R113Q; 0

<400> 19639
Val Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5                   10


<210> 19640
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; ARHGEF12; R113Q; 0

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1               5                   10


<210> 19641
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-B*13:02; ARHGEF12; R113Q; 0

<400> 19641
Val Gln Thr Gly Asp Gln Ile Ile Lys Val
1               5                   10


<210> 19642
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CNTNAP2; R483Q; 1

<400> 19642
Val Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 19643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CNTNAP2; R483Q; 0

<400> 19643
Val Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 19644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CNTNAP2; R483Q; 0

<400> 19644
Val Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 19645
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CNTNAP2; R483Q; 0

<400> 19645
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1               5


<210> 19646
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CNTNAP2; R483Q; 0

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1               5


<210> 19647
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CNTNAP2; R483Q; 0

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Val Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 19648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CNTNAP2; R483Q; 0

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Val Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 19649
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<212> PRT
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<220>
<223> Table A; HLA-C*15:02; CNTNAP2; R483Q; 0

<400> 19649
Val Gln Thr Asn Ser Pro Leu Gln Val
1               5


<210> 19650
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNTNAP2; R483Q; 1

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1               5                   10


<210> 19651
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<220>
<223> Table A; HLA-A*03:02; CNTNAP2; R483Q; 0

<400> 19651

Val Gln Thr Asn Ser Pro Leu Gln Val Lys
1               5                   10


<210> 19652
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CNTNAP2; R483Q; 1

<400> 19652
Val Gln Thr Asn Ser Pro Leu Gln Val Lys
1               5                   10


<210> 19653
<211> 10
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<220>
<223> Table A; HLA-B*27:02; CNTNAP2; R483Q; 0

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1               5                   10


<210> 19654
<211> 9
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<220>
<223> Table A; HLA-C*06:02; CDKN2A; P114L; 1

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1               5


<210> 19655
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; PTK6; H126P; 0

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<210> 19656
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; HIST1H3B; E74K; 0

<400> 19656
Val Arg Lys Ile Ala Gln Asp Phe
1               5


<210> 19657
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; HIST1H3B; E74K; 0

<400> 19657
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1               5


<210> 19658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; TP53; G266V; 0

<400> 19658
Val Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 19659
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; TP53; G266V; 0

<400> 19659
Val Arg Asn Ser Phe Glu Val Arg Val
1               5

<210> 19660
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; TP53; G266V; 1

<400> 19660
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<210> 19661
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*27:05; PPP2R1A; R183W; 0

<400> 19661
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1               5


<210> 19662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; PPP2R1A; R183W; 1

<400> 19662
Val Arg Trp Ala Ala Ala Ser Lys Leu
1               5


<210> 19663
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; BRAF; G466V; 1

<400> 19663
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1               5


<210> 19664
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; BRAF; G466V; 0

<400> 19664
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1               5                   10


<210> 19665
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; NFE2L2; R34G; 0

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1               5


<210> 19666
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; NFE2L2; R34G; 0

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Val Ser Gly Glu Val Phe Asp Phe
1               5


<210> 19667
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NFE2L2; R34G; 0

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Val Ser Gly Glu Val Phe Asp Phe Ser Gln Arg
1               5                   10


<210> 19668
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32V; 0

<400> 19668
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<210> 19669
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32V; 0

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Val Ser Gly Ile His Ser Gly Ala
1               5


<210> 19670
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32V; 1

<400> 19670
Val Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 19671
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32V; 0

<400> 19671
Val Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 19672
<211> 9
<212> PRT
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<220>

<223> Table A; HLA-C*08:03; CTNNB1; D32V; 0

<400> 19672
Val Ser Gly Ile His Ser Gly Ala Thr
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<210> 19673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; AR; F814V; 0

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<210> 19674
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; AR; F814V; 0

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1               5


<210> 19675
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; AR; F814V; 0

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1               5


<210> 19676
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:08; AR; F814V; 0

<400> 19676
Val Ser Ile Ile Pro Val Asp Gly Leu
1               5


<210> 19677
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:01; AR; F814V; 0

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Val Ser Ile Ile Pro Val Asp Gly Leu
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<210> 19678
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; AR; F814V; 1

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1               5


<210> 19679
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:02; AR; F814V; 0

<400> 19679
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1               5


<210> 19680
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:01; AR; F814V; 1

<400> 19680
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<210> 19681
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*40:02; AR; F814V; 0

<400> 19681
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<210> 19682
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<212> PRT
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<220>
<223> Table A; HLA-B*44:05; AR; F814V; 0

<400> 19682
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<210> 19683
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*46:01; AR; F814V; 0

<400> 19683
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<210> 19684
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; AR; F814V; 0

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1 5

<210> 19685
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; AR; F814V; 0

<400> 19685
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1               5


<210> 19686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; AR; F814V; 0

<400> 19686
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1               5


<210> 19687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; AR; F814V; 1

<400> 19687
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<210> 19688
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<212> PRT
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<220>
<223> Table A; HLA-C*03:04; AR; F814V; 1

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<210> 19689

<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; AR; F814V; 0

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<210> 19690
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; AR; F814V; 0

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<210> 19691
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; AR; F814V; 0

<400> 19691
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<210> 19692
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*17:01; AR; F814V; 0

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1               5


<210> 19693
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; AR; F814V; 1

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<210> 19694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; BCOR; N1425S; 1

<400> 19694
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<210> 19695
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<212> PRT
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<220>
<223> Table A; HLA-B*46:01; BCOR; N1425S; 0

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1               5


<210> 19696
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; BCOR; N1425S; 0

<400> 19696
Val Ser Lys Asn Ala Gly Glu Thr Leu
1               5


<210> 19697
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*03:03; BCOR; N1425S; 1

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1               5


<210> 19698
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; BCOR; N1425S; 1

<400> 19698
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1               5


<210> 19699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; BCOR; N1425S; 0

<400> 19699
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1               5


<210> 19700
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NFE2L2; R34Q; 0

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Val Ser Gln Glu Val Phe Asp Phe Ser Gln Arg
1               5                   10


<210> 19701
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NFE2L2; R34Q; 0

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1               5                   10


<210> 19702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; DCC; R446H; 0

<400> 19702
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1               5                   10


<210> 19703
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; CHST11; A159T; 0

<400> 19703
Val Ser Thr Asn Leu Lys Thr Leu
1               5


<210> 19704
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*30:02; CHST11; A159T; 0

<400> 19704
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1               5                   10


<210> 19705
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*03:03; TP53; S127F; 0

<400> 19705

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<210> 19706
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*03:04; TP53; S127F; 1

<400> 19706
Val Thr Cys Thr Tyr Phe Pro Ala Leu
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<210> 19707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; L130F; 0

<400> 19707
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1 5

<210> 19708
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; TP53; K132R; 0

<400> 19708
Val Thr Cys Thr Tyr Ser Pro Ala Leu Asn Arg
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<210> 19709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; PTEN; S170N; 0

<400> 19709
Val Thr Ile Pro Asn Gln Arg Arg Tyr
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<210> 19710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; PTEN; S170N; 0

<400> 19710
Val Thr Ile Pro Asn Gln Arg Arg Tyr
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<210> 19711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTEN; S170N; 0

<400> 19711
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1               5


<210> 19712
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*57:01; PTEN; S170N; 0

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1               5


<210> 19713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PTEN; S170N; 0

<400> 19713
Val Thr Ile Pro Asn Gln Arg Arg Tyr
1               5

<210> 19714
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<212> PRT
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<220>
<223> Table A; HLA-C*16:01; PTEN; S170N; 0

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1               5


<210> 19715
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:02; PTEN; R173C; 0

<400> 19715
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1               5


<210> 19716
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; PTEN; R173C; 0

<400> 19716
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1               5


<210> 19717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; PTEN; R173C; 0

<400> 19717
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1               5


<210> 19718
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PTEN; R173C; 1

<400> 19718
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1               5


<210> 19719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PTEN; R173C; 0

<400> 19719
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1               5


<210> 19720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; PTEN; R173C; 0

<400> 19720
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1               5


<210> 19721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; PTEN; R173C; 0

<400> 19721
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1               5


<210> 19722
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; PTEN; R173C; 1

<400> 19722
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1               5


<210> 19723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; PTEN; R173C; 0

<400> 19723
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1               5


<210> 19724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PIK3CA; R38C; 1

<400> 19724
Val Thr Leu Glu Cys Leu Cys Glu Ala
1               5


<210> 19725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; PIK3CA; R38H; 1

<400> 19725
Val Thr Leu Glu Cys Leu His Glu Ala
1               5


<210> 19726
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:05; PIK3CA; R38H; 0

<400> 19726
Val Thr Leu Glu Cys Leu His Glu Ala
1               5


<210> 19727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; PIK3CA; R38H; 0

<400> 19727
Val Thr Leu Glu Cys Leu His Glu Ala
1               5


<210> 19728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; PIK3CA; R38H; 0

<400> 19728
Val Thr Leu Glu Cys Leu His Glu Ala
1               5


<210> 19729
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; PIK3CA; E81K; 0

<400> 19729
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1               5                   10


<210> 19730
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; PIK3CA; E81K; 0

<400> 19730
Val Thr Gln Glu Ala Glu Arg Glu Lys Phe
1               5                   10


<210> 19731
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*58:01; PIK3CA; E81K; 0

<400> 19731
Val Thr Gln Glu Ala Glu Arg Glu Lys Phe
1               5                   10


<210> 19732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; PCBP1; L100Q; 0

<400> 19732
Val Thr Gln Arg Leu Val Val Pro Ala
1               5


<210> 19733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; PCBP1; L100Q; 0

<400> 19733
Val Thr Gln Arg Leu Val Val Pro Ala
1               5


<210> 19734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PCBP1; L100Q; 0

<400> 19734
Val Thr Gln Arg Leu Val Val Pro Ala

1 5

<210> 19735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12A; 1

<400> 19735
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1 5

<210> 19736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12A; 0

<400> 19736
Val Val Gly Ala Ala Gly Val Gly Lys
1 5

<210> 19737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12A; 1

<400> 19737
Val Val Gly Ala Ala Gly Val Gly Lys
1 5

<210> 19738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12A; 1

<400> 19738
Val Val Gly Ala Ala Gly Val Gly Lys
1 5

<210> 19739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12A; 0

<400> 19739
Val Val Gly Ala Ala Gly Val Gly Lys
1               5


<210> 19740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12A; 0

<400> 19740
Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 19741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12C; 1

<400> 19741
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 19742
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12C; 0

<400> 19742
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 19743

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12C; 1

<400> 19743
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 19744
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G12C; 1

<400> 19744
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 19745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G12C; 0

<400> 19745
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 19746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G12C; 0

<400> 19746
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 19747
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12D; 1

<400> 19747
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12D; 1

<400> 19748
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12D; 1

<400> 19749
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G12D; 1

<400> 19750
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G12D; 0

<400> 19751
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19752
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G12D; 1

<400> 19752
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 19753
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12D; 0

<400> 19753
Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19754
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; NRAS; G12D; 0

<400> 19754
Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G13C; 1

<400> 19755
Val Val Gly Ala Gly Cys Val Gly Lys
1               5


<210> 19756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G13C; 0

<400> 19756
Val Val Gly Ala Gly Cys Val Gly Lys
1               5


<210> 19757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G13C; 1

<400> 19757
Val Val Gly Ala Gly Cys Val Gly Lys
1               5


<210> 19758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G13D; 1

<400> 19758
Val Val Gly Ala Gly Asp Val Gly Lys
1               5


<210> 19759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G13D; 0

<400> 19759

Val Val Gly Ala Gly Asp Val Gly Lys
1               5


<210> 19760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G13D; 1

<400> 19760
Val Val Gly Ala Gly Asp Val Gly Lys
1               5


<210> 19761
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G13D; 1

<400> 19761
Val Val Gly Ala Gly Asp Val Gly Lys
1               5


<210> 19762
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G13D; 0

<400> 19762
Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G13R; 1

<400> 19763
Val Val Gly Ala Gly Arg Val Gly Lys
1               5

<210> 19764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G13R; 0

<400> 19764
Val Val Gly Ala Gly Arg Val Gly Lys
1 5

<210> 19765
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G13R; 0

<400> 19765
Val Val Gly Ala Gly Arg Val Gly Lys
1 5

<210> 19766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G13R; 0

<400> 19766
Val Val Gly Ala Gly Arg Val Gly Lys
1 5

<210> 19767
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; KRAS; G12R; 1

<400> 19767
Val Val Gly Ala Arg Gly Val Gly Lys
1 5

<210> 19768
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; KRAS; G12R; 0

<400> 19768
Val Val Gly Ala Arg Gly Val Gly Lys
1               5


<210> 19769
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*11:01; KRAS; G12R; 1

<400> 19769
Val Val Gly Ala Arg Gly Val Gly Lys
1               5


<210> 19770
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12S; 1

<400> 19770
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 19771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12S; 0

<400> 19771
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 19772
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12S; 1

<400> 19772
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 19773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12S; 0

<400> 19773
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 19774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12S; 0

<400> 19774
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 19775
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12S; 0

<400> 19775
Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; KRAS; G12V; 1

<400> 19776
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12V; 1

<400> 19777
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12V; 1

<400> 19778
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19779
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12V; 1

<400> 19779
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19780
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*26:03; KRAS; G12V; 0

<400> 19780
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; KRAS; G12V; 1

<400> 19781
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KRAS; G12V; 1

<400> 19782
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; KRAS; G12V; 0

<400> 19783
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12V; 1

<400> 19784
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12V; 1

<400> 19785
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 19786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12V; 0

<400> 19786
Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19787
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12V; 0

<400> 19787
Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19788
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CNTNAP2; R283H; 0

<400> 19788
Val Val Ile Glu His Gln Gly Arg

1 5

<210> 19789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CNTNAP2; R283H; 0

<400> 19789
Val Val Ile Glu His Gln Gly Arg
1 5

<210> 19790
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CNTNAP2; R283H; 0

<400> 19790
Val Val Ile Glu His Gln Gly Arg
1 5

<210> 19791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CNTNAP2; R283H; 0

<400> 19791
Val Val Ile Glu His Gln Gly Arg Ser Ile
1 5 10

<210> 19792
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; VHL; L89H; 0

<400> 19792
Val Val Leu Pro Val Trp His Asn Phe
1 5

<210> 19793
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; VHL; L89H; 0

<400> 19793
Val Val Leu Pro Val Trp His Asn Phe
1               5


<210> 19794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; VHL; L89H; 1

<400> 19794
Val Val Leu Pro Val Trp His Asn Phe
1               5


<210> 19795
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; VHL; L89H; 1

<400> 19795
Val Val Leu Pro Val Trp His Asn Phe
1               5


<210> 19796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; VHL; L89H; 1

<400> 19796
Val Val Leu Pro Val Trp His Asn Phe
1               5


<210> 19797

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; EGFR; G598V; 1

<400> 19797
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; EGFR; G598V; 0

<400> 19798
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19799
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; EGFR; G598V; 0

<400> 19799
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; EGFR; G598V; 0

<400> 19800
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19801
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; EGFR; G598V; 0

<400> 19801
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; EGFR; G598V; 0

<400> 19802
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; EGFR; G598V; 1

<400> 19803
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; EGFR; G598V; 0

<400> 19804
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; EGFR; G598V; 0

<400> 19805
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; EGFR; G598V; 0

<400> 19806
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; EGFR; G598V; 0

<400> 19807
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; EGFR; G598V; 1

<400> 19808
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; EGFR; G598V; 0

<400> 19809
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; EGFR; G598V; 0

<400> 19810
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; EGFR; G598V; 0

<400> 19811
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; EGFR; G598V; 1

<400> 19812
Val Val Met Gly Glu Asn Asn Thr Leu
1               5


<210> 19813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; EGFR; G598V; 1

<400> 19813

Val Val Met Gly Glu Asn Asn Thr Leu
1 5

<210> 19814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; EGFR; G598V; 0

<400> 19814
Val Val Met Gly Glu Asn Asn Thr Leu
1 5

<210> 19815
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*50:01; EGFR; G598V; 0

<400> 19815
Val Val Met Gly Glu Asn Asn Thr Leu Val
1 5 10

<210> 19816
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; EGFR; G598V; 1

<400> 19816
Val Val Met Gly Glu Asn Asn Thr Leu Val Trp
1 5 10

<210> 19817
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; EGFR; G598V; 1

<400> 19817
Val Val Met Gly Glu Asn Asn Thr Leu Val Trp
1 5 10

<210> 19818
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; EGFR; G598V; 1

<400> 19818
Val Val Met Gly Glu Asn Asn Thr Leu Val Trp
1               5                   10


<210> 19819
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; XPO1; E571K; 0

<400> 19819
Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19820
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; XPO1; E571K; 0

<400> 19820
Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19821
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; XPO1; E571K; 1

<400> 19821
Val Val Asn Lys Leu Phe Lys Phe
1               5

<210> 19822
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; XPO1; E571K; 0

<400> 19822
Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 19823
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; PIK3CA; G106V; 0

<400> 19823
Val Val Asn Arg Glu Glu Lys Ile Leu Asn Arg
1               5                   10


<210> 19824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; Y220C; 1

<400> 19824
Val Val Pro Cys Glu Pro Pro Glu Val
1               5


<210> 19825
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TP53; Y220C; 0

<400> 19825
Val Val Pro Cys Glu Pro Pro Glu Val
1               5


<210> 19826
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; Y220C; 0

<400> 19826
Val Val Pro Cys Glu Pro Pro Glu Val
1               5


<210> 19827
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; TP53; C176F; 0

<400> 19827
Val Val Arg Arg Phe Pro His His Glu Arg
1               5                   10


<210> 19828
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; FBXW7; R479Q; 0

<400> 19828
Val Val Ser Gly Ser Gln Asp Ala Thr Leu Arg
1               5                   10


<210> 19829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KRAS; G12A; 0

<400> 19829
Val Val Val Gly Ala Ala Gly Val
1               5


<210> 19830
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12A; 1

<400> 19830
Val Val Val Gly Ala Ala Gly Val
1               5


<210> 19831
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12A; 1

<400> 19831
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19832
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12A; 0

<400> 19832
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19833
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12A; 1

<400> 19833
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19834
<211> 10
<212> PRT
<213> Homo sapiens

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<223> Table A; HLA-A*26:03; KRAS; G12A; 0

<400> 19834
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; KRAS; G12A; 0

<400> 19835
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19836
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12A; 1

<400> 19836
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19837
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G12A; 0

<400> 19837
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19838
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12A; 0

<400> 19838
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 19839
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12A; 0

<400> 19839
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 19840
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12A; 0

<400> 19840
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 19841
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12A; 1

<400> 19841
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 19842
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; KRAS; G12A; 1

<400> 19842
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser

1 5 10

<210> 19843
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12A; 1

<400> 19843
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1 5 10

<210> 19844
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12A; 0

<400> 19844
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1 5 10

<210> 19845
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; KRAS; G12A; 0

<400> 19845
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1 5 10

<210> 19846
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12A; 0

<400> 19846
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1 5 10

<210> 19847
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NRAS; G12C; 0

<400> 19847
Val Val Val Gly Ala Cys Gly Val
1               5


<210> 19848
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12C; 1

<400> 19848
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19849
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12C; 0

<400> 19849
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19850
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12C; 1

<400> 19850
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19851

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G12C; 0

<400> 19851
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19852
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12C; 1

<400> 19852
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19853
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12C; 0

<400> 19853
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19854
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G12C; 1

<400> 19854
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19855
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G12C; 0

<400> 19855
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19856
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G12C; 0

<400> 19856
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; NRAS; G12C; 0

<400> 19857
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19858
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G12C; 0

<400> 19858
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19859
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NRAS; G12C; 0

<400> 19859
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 19860
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12D; 1

<400> 19860
Val Val Val Gly Ala Asp Gly Val
1               5


<210> 19861
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NRAS; G12D; 0

<400> 19861
Val Val Val Gly Ala Asp Gly Val
1               5


<210> 19862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12D; 1

<400> 19862
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19863
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12D; 1

<400> 19863
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19864
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12D; 1

<400> 19864
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19865
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12D; 1

<400> 19865
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19866
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G12D; 0

<400> 19866
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19867
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; KRAS; G12D; 1

<400> 19867

Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12D; 1

<400> 19868
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G12D; 1

<400> 19869
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12D; 1

<400> 19870
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12D; 0

<400> 19871
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10

<210> 19872
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; NRAS; G12D; 0

<400> 19872
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19873
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G12D; 1

<400> 19873
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19874
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G12D; 0

<400> 19874
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19875
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G12D; 1

<400> 19875
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10

<210> 19876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; NRAS; G12D; 0

<400> 19876
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1               5                   10


<210> 19877
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; NRAS; G12D; 0

<400> 19877
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19878
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G12D; 0

<400> 19878
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19879
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; NRAS; G12D; 0

<400> 19879
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1               5                   10


<210> 19880
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; NRAS; G12D; 0

<400> 19880
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19881
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NRAS; G12D; 0

<400> 19881
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 19882
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G12D; 1

<400> 19882
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19883
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12D; 1

<400> 19883
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19884
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12D; 1

<400> 19884
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19885
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; KRAS; G12D; 1

<400> 19885
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19886
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12D; 1

<400> 19886
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19887
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12D; 0

<400> 19887
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19888
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*07:04; KRAS; G12D; 1

<400> 19888
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19889
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12D; 0

<400> 19889
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19890
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; NRAS; G12D; 0

<400> 19890
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19891
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:06; NRAS; G12D; 0

<400> 19891
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19892
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G12D; 1

<400> 19892
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19893
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; NRAS; G12D; 0

<400> 19893
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19894
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G12D; 0

<400> 19894
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19895
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NRAS; G12D; 0

<400> 19895
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 19896
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; NRAS; G12D; 0

<400> 19896
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser

1 5 10

<210> 19897
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; NRAS; G12D; 0

<400> 19897
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1 5 10

<210> 19898
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G13C; 1

<400> 19898
Val Val Val Gly Ala Gly Cys Val Gly Lys
1 5 10

<210> 19899
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G13C; 0

<400> 19899
Val Val Val Gly Ala Gly Cys Val Gly Lys
1 5 10

<210> 19900
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G13C; 1

<400> 19900
Val Val Val Gly Ala Gly Cys Val Gly Lys
1 5 10

<210> 19901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G13C; 0

<400> 19901
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 19902
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G13C; 0

<400> 19902
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 19903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G13C; 0

<400> 19903
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 19904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; KRAS; G13D; 0

<400> 19904
Val Val Val Gly Ala Gly Asp Val Gly
1               5


<210> 19905

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G13D; 0

<400> 19905
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19906
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G13D; 1

<400> 19906
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19907
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G13D; 0

<400> 19907
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G13D; 1

<400> 19908
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19909
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G13D; 0

<400> 19909
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19910
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G13D; 1

<400> 19910
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19911
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G13D; 0

<400> 19911
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19912
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G13D; 0

<400> 19912
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; KRAS; G13D; 1

<400> 19913
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 19914
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G13D; 0

<400> 19914
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19915
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; KRAS; G13D; 1

<400> 19915
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19916
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G13D; 1

<400> 19916
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19917
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G13D; 0

<400> 19917
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19918
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; KRAS; G13D; 0

<400> 19918
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19919
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; KRAS; G13D; 0

<400> 19919
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19920
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G13D; 0

<400> 19920
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 19921
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; NRAS; G13R; 0

<400> 19921

Val Val Val Gly Ala Gly Arg Val
1               5


<210> 19922
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; NRAS; G13R; 0

<400> 19922
Val Val Val Gly Ala Gly Arg Val
1               5


<210> 19923
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; NRAS; G13R; 1

<400> 19923
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 19924
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; NRAS; G13R; 0

<400> 19924
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 19925
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G13R; 0

<400> 19925
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10

<210> 19926
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; NRAS; G13R; 0

<400> 19926
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 19927
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; NRAS; G13R; 0

<400> 19927
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 19928
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; NRAS; G13R; 0

<400> 19928
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 19929
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; NRAS; G13R; 0

<400> 19929
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10

<210> 19930
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; NRAS; G13R; 0

<400> 19930
Val Val Val Gly Ala Gly Arg Val Gly Lys Ser
1               5                   10


<210> 19931
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; NRAS; G13R; 0

<400> 19931
Val Val Val Gly Ala Gly Arg Val Gly Lys Ser
1               5                   10


<210> 19932
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12R; 1

<400> 19932
Val Val Val Gly Ala Arg Gly Val
1               5


<210> 19933
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12R; 1

<400> 19933
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 19934
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12R; 0

<400> 19934
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 19935
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12R; 1

<400> 19935
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 19936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G12R; 0

<400> 19936
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 19937
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12R; 1

<400> 19937
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 19938
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12R; 0

<400> 19938
Val Val Val Gly Ala Arg Gly Val Gly Lys Ser
1               5                   10


<210> 19939
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KRAS; G12S; 0

<400> 19939
Val Val Val Gly Ala Ser Gly Val
1               5


<210> 19940
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12S; 0

<400> 19940
Val Val Val Gly Ala Ser Gly Val
1               5


<210> 19941
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12S; 0

<400> 19941
Val Val Val Gly Ala Ser Gly Val
1               5


<210> 19942
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*03:01; KRAS; G12S; 1

<400> 19942
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19943
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12S; 0

<400> 19943
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12S; 1

<400> 19944
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19945
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G12S; 0

<400> 19945
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; KRAS; G12S; 0

<400> 19946
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19947
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KRAS; G12S; 0

<400> 19947
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19948
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; KRAS; G12S; 0

<400> 19948
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19949
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12S; 0

<400> 19949
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 19950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G12S; 0

<400> 19950
Val Val Val Gly Ala Ser Gly Val Gly Lys

1 5 10

<210> 19951
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12S; 0

<400> 19951
Val Val Val Gly Ala Ser Gly Val Gly Lys
1 5 10

<210> 19952
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G12S; 0

<400> 19952
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1 5 10

<210> 19953
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12S; 0

<400> 19953
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1 5 10

<210> 19954
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; KRAS; G12S; 0

<400> 19954
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1 5 10

<210> 19955
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12S; 1

<400> 19955
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19956
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12S; 0

<400> 19956
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19957
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12S; 1

<400> 19957
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19958
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; KRAS; G12S; 0

<400> 19958
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19959

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G12S; 0

<400> 19959
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19960
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12S; 0

<400> 19960
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19961
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12S; 0

<400> 19961
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19962
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; KRAS; G12S; 0

<400> 19962
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19963
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12S; 0

<400> 19963
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 19964
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; KRAS; G12V; 0

<400> 19964
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19965
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; KRAS; G12V; 1

<400> 19965
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19966
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12V; 1

<400> 19966
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19967
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G12V; 1

<400> 19967
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19968
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; KRAS; G12V; 1

<400> 19968
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19969
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; KRAS; G12V; 1

<400> 19969
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19970
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; KRAS; G12V; 1

<400> 19970
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19971
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12V; 0

<400> 19971
Val Val Val Gly Ala Val Gly Val
1               5


<210> 19972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; KRAS; G12V; 1

<400> 19972
Val Val Val Gly Ala Val Gly Val Gly
1               5


<210> 19973
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; KRAS; G12V; 0

<400> 19973
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19974
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; KRAS; G12V; 1

<400> 19974
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; KRAS; G12V; 1

<400> 19975

Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19976
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; KRAS; G12V; 1

<400> 19976
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19977
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; KRAS; G12V; 0

<400> 19977
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; KRAS; G12V; 1

<400> 19978
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19979
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; KRAS; G12V; 1

<400> 19979
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10

<210> 19980
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; KRAS; G12V; 0

<400> 19980
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19981
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12V; 1

<400> 19981
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; KRAS; G12V; 1

<400> 19982
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19983
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; KRAS; G12V; 1

<400> 19983
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10

<210> 19984
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; KRAS; G12V; 1

<400> 19984
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; KRAS; G12V; 1

<400> 19985
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 19986
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; KRAS; G12V; 1

<400> 19986
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19987
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; KRAS; G12V; 1

<400> 19987
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19988
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; KRAS; G12V; 1

<400> 19988
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19989
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; KRAS; G12V; 0

<400> 19989
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19990
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; KRAS; G12V; 1

<400> 19990
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19991
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; KRAS; G12V; 0

<400> 19991
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 19992
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; TP53; Y220C; 1

<400> 19992
Val Val Val Pro Cys Glu Pro Pro Glu Val
1               5                   10


<210> 19993
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; TP53; Y220C; 0

<400> 19993
Val Val Val Pro Cys Glu Pro Pro Glu Val
1               5                   10


<210> 19994
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; Y220C; 0

<400> 19994
Val Val Val Pro Cys Glu Pro Pro Glu Val
1               5                   10


<210> 19995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; CDKN2A; H83Y; 0

<400> 19995
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 19996
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*24:02; CDKN2A; H83Y; 1

<400> 19996
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 19997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; CDKN2A; H83Y; 0

<400> 19997
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 19998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CDKN2A; H83Y; 0

<400> 19998
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 19999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; CDKN2A; H83Y; 1

<400> 19999
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 20000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; CDKN2A; H83Y; 1

<400> 20000
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 20001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; CDKN2A; H83Y; 1

<400> 20001
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 20002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; CDKN2A; H83Y; 0

<400> 20002
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 20003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CDKN2A; H83Y; 0

<400> 20003
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 20004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; CDKN2A; H83Y; 0

<400> 20004
Val Tyr Asp Ala Ala Arg Glu Gly Phe

1 5

<210> 20005
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; CDKN2A; H83Y; 1

<400> 20005
Val Tyr Asp Ala Ala Arg Glu Gly Phe Leu
1 5 10

<210> 20006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; EZH2; M667T; 0

<400> 20006
Val Tyr Asp Lys Tyr Thr Cys Ser Phe
1 5

<210> 20007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; EZH2; M667T; 1

<400> 20007
Val Tyr Asp Lys Tyr Thr Cys Ser Phe
1 5

<210> 20008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; EZH2; M667T; 1

<400> 20008
Val Tyr Asp Lys Tyr Thr Cys Ser Phe
1 5

<210> 20009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; EP300; D1399N; 1

<400> 20009
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; EP300; D1399N; 0

<400> 20010
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; EP300; D1399N; 0

<400> 20011
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; EP300; D1399N; 0

<400> 20012
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20013

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; EP300; D1399N; 1

<400> 20013
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; EP300; D1399N; 0

<400> 20014
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; EP300; D1399N; 0

<400> 20015
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; EP300; D1399N; 1

<400> 20016
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20017
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; EP300; D1399N; 0

<400> 20017
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; EP300; D1399N; 0

<400> 20018
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; EP300; D1399N; 0

<400> 20019
Val Tyr Ile Ser Tyr Leu Asn Ser Val
1               5


<210> 20020
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; EP300; D1399N; 0

<400> 20020
Val Tyr Ile Ser Tyr Leu Asn Ser Val His Phe
1               5                   10


<210> 20021
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; EP300; D1399N; 1

<400> 20021
Val Tyr Ile Ser Tyr Leu Asn Ser Val His Phe
1               5                   10


<210> 20022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNBD1; L396P; 1

<400> 20022
Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CNBD1; L396P; 0

<400> 20023
Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CNBD1; L396P; 1

<400> 20024
Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; CNBD1; L396P; 1

<400> 20025
Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CNBD1; L396P; 0

<400> 20026
Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CNBD1; L396P; 0

<400> 20027
Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CNBD1; L396P; 0

<400> 20028
Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; CNBD1; L396P; 0

<400> 20029

Val Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20030
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; SMAD4; G352V; 0

<400> 20030
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg
1               5                   10


<210> 20031
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMAD4; G352V; 0

<400> 20031
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg
1               5                   10


<210> 20032
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; SMAD4; G352V; 0

<400> 20032
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20033
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; SMAD4; G352V; 1

<400> 20033
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10

<210> 20034
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; SMAD4; G352V; 0

<400> 20034
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; SMAD4; G352V; 0

<400> 20035
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20036
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; SMAD4; G352V; 0

<400> 20036
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20037
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; SMAD4; G352V; 0

<400> 20037
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10

<210> 20038
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; SMAD4; G352V; 0

<400> 20038
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20039
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SMAD4; G352V; 1

<400> 20039
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20040
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SMAD4; G352V; 0

<400> 20040
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20041
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMAD4; G352V; 0

<400> 20041
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20042
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; SMAD4; G352V; 0

<400> 20042
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20043
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SMAD4; G352V; 0

<400> 20043
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20044
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; SMAD4; G352V; 0

<400> 20044
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20045
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; SMAD4; G352V; 0

<400> 20045
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20046
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; SMAD4; G352V; 0

<400> 20046
Val Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 20047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CSMD3; R2601Q; 1

<400> 20047
Trp Ala Cys Asp Arg Gly Phe Gln Leu
1               5


<210> 20048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; R93W; 0

<400> 20048
Trp Leu Phe Gln Pro Phe Leu Lys Val
1               5


<210> 20049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; PIK3CA; R93W; 0

<400> 20049
Trp Leu Phe Gln Pro Phe Leu Lys Val
1               5


<210> 20050
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:07; PIK3CA; R93W; 0

<400> 20050
Trp Leu Phe Gln Pro Phe Leu Lys Val
1               5


<210> 20051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; FGFR2; S252W; 0

<400> 20051
Trp Pro His Arg Pro Ile Leu Gln Ala
1               5


<210> 20052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; TP53; R249W; 0

<400> 20052
Trp Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 20053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; TP53; R249W; 0

<400> 20053
Trp Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 20054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; TP53; R249W; 0

<400> 20054
Trp Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 20055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; R249W; 0

<400> 20055
Trp Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 20056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S33F; 1

<400> 20056
Trp Gln Gln Gln Ser Tyr Leu Asp Phe
1               5


<210> 20057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S33Y; 1

<400> 20057
Trp Gln Gln Gln Ser Tyr Leu Asp Tyr
1               5


<210> 20058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; S33Y; 0

<400> 20058
Trp Gln Gln Gln Ser Tyr Leu Asp Tyr

1 5

<210> 20059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; CTNNB1; S33Y; 0

<400> 20059
Trp Gln Gln Gln Ser Tyr Leu Asp Tyr
1 5

<210> 20060
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32V; 1

<400> 20060
Trp Gln Gln Gln Ser Tyr Leu Val
1 5

<210> 20061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32V; 0

<400> 20061
Trp Gln Gln Gln Ser Tyr Leu Val
1 5

<210> 20062
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32V; 0

<400> 20062
Trp Gln Gln Gln Ser Tyr Leu Val
1 5

<210> 20063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; CTNNB1; D32Y; 0

<400> 20063
Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 20064
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32Y; 1

<400> 20064
Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 20065
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTNNB1; D32Y; 0

<400> 20065
Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 20066
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:03; CTNNB1; D32Y; 0

<400> 20066
Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 20067

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTNNB1; D32Y; 0

<400> 20067
Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 20068
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32Y; 0

<400> 20068
Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 20069
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; NFE2L2; D29G; 0

<400> 20069
Trp Arg Gln Asp Ile Gly Leu Gly Val
1               5


<210> 20070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; IDH1; R132L; 0

<400> 20070
Trp Val Lys Pro Ile Ile Ile Gly Leu
1               5


<210> 20071
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; IDH1; R132L; 0

<400> 20071
Trp Val Lys Pro Ile Ile Ile Gly Leu
1               5


<210> 20072
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTCF; K365T; 0

<400> 20072
Tyr Ala Ser Val Glu Val Ser Thr
1               5


<210> 20073
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*35:02; CTCF; K365T; 0

<400> 20073
Tyr Ala Ser Val Glu Val Ser Thr
1               5


<210> 20074
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CTCF; K365T; 0

<400> 20074
Tyr Ala Ser Val Glu Val Ser Thr
1               5


<210> 20075
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CTCF; K365T; 0

<400> 20075
Tyr Ala Ser Val Glu Val Ser Thr
1               5


<210> 20076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTCF; K365T; 1

<400> 20076
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTCF; K365T; 0

<400> 20077
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTCF; K365T; 0

<400> 20078
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTCF; K365T; 0

<400> 20079
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTCF; K365T; 0

<400> 20080
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; CTCF; K365T; 0

<400> 20081
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTCF; K365T; 0

<400> 20082
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 20083

Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTCF; K365T; 0

<400> 20084
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; CTCF; K365T; 1

<400> 20085
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTCF; K365T; 1

<400> 20086
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTCF; K365T; 1

<400> 20087
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5

<210> 20088
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CTCF; K365T; 0

<400> 20088
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTCF; K365T; 0

<400> 20089
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; CTCF; K365T; 0

<400> 20090
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CTCF; K365T; 1

<400> 20091
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5

<210> 20092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; CTCF; K365T; 0

<400> 20092
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTCF; K365T; 0

<400> 20093
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; CTCF; K365T; 0

<400> 20094
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CTCF; K365T; 0

<400> 20095
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20096
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTCF; K365T; 0

<400> 20096
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTCF; K365T; 0

<400> 20097
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; CTCF; K365T; 1

<400> 20098
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTCF; K365T; 0

<400> 20099
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; CTCF; K365T; 0

<400> 20100
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTCF; K365T; 0

<400> 20101
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTCF; K365T; 0

<400> 20102
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTCF; K365T; 0

<400> 20103
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20104
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*51:01; CTCF; K365T; 1

<400> 20104
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTCF; K365T; 0

<400> 20105
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTCF; K365T; 0

<400> 20106
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CTCF; K365T; 0

<400> 20107
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; CTCF; K365T; 0

<400> 20108
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; CTCF; K365T; 0

<400> 20109
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; CTCF; K365T; 0

<400> 20110
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; CTCF; K365T; 1

<400> 20111
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; CTCF; K365T; 1

<400> 20112
Tyr Ala Ser Val Glu Val Ser Thr Leu

1 5

<210> 20113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; CTCF; K365T; 1

<400> 20113
Tyr Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 20114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; CTCF; K365T; 0

<400> 20114
Tyr Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 20115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTCF; K365T; 0

<400> 20115
Tyr Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 20116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; CTCF; K365T; 0

<400> 20116
Tyr Ala Ser Val Glu Val Ser Thr Leu
1 5

<210> 20117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTCF; K365T; 0

<400> 20117
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; CTCF; K365T; 1

<400> 20118
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; CTCF; K365T; 0

<400> 20119
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*15:02; CTCF; K365T; 0

<400> 20120
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20121

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; CTCF; K365T; 0

<400> 20121
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:02; CTCF; K365T; 0

<400> 20122
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:04; CTCF; K365T; 0

<400> 20123
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; CTCF; K365T; 0

<400> 20124
Tyr Ala Ser Val Glu Val Ser Thr Leu
1               5


<210> 20125
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 20125
Tyr Ala Ser Val Glu Val Ser Thr Leu Lys
1               5                   10


<210> 20126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTCF; K365T; 0

<400> 20126
Tyr Ala Ser Val Glu Val Ser Thr Leu Lys
1               5                   10


<210> 20127
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTCF; K365T; 0

<400> 20127
Tyr Ala Ser Val Glu Val Ser Thr Leu Lys
1               5                   10


<210> 20128
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTCF; K365T; 0

<400> 20128
Tyr Ala Ser Val Glu Val Ser Thr Leu Lys Arg
1               5                   10


<210> 20129
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; CTCF; K365T; 0

<400> 20129
Tyr Ala Ser Val Glu Val Ser Thr Leu Lys Arg
1               5                   10


<210> 20130
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; KEAP1; G480W; 0

<400> 20130
Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 20131
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; KEAP1; G480W; 0

<400> 20131
Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 20132
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; KEAP1; G480W; 0

<400> 20132
Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 20133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; KEAP1; G480W; 0

<400> 20133
Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 20134
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; KEAP1; G480W; 0

<400> 20134
Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 20135
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CDKN2A; D108Y; 0

<400> 20135
Tyr Ala Trp Gly Arg Leu Pro Val
1               5


<210> 20136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CDKN2A; D108Y; 0

<400> 20136
Tyr Ala Trp Gly Arg Leu Pro Val Asp Leu
1               5                   10


<210> 20137
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CDKN2A; D108Y; 0

<400> 20137

Tyr Ala Trp Gly Arg Leu Pro Val Asp Leu Ala
1               5                   10


<210> 20138
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; CDKN2A; H83Y; 0

<400> 20138
Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 20139
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; CDKN2A; H83Y; 0

<400> 20139
Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 20140
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; DCAF12L2; R378H; 0

<400> 20140
Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 20141
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*18:01; DCAF12L2; R378H; 0

<400> 20141
Tyr Asp Ile His Ala Gln Lys Phe
1               5

<210> 20142
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; DCAF12L2; R378H; 0

<400> 20142
Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 20143
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; DCAF12L2; R378H; 0

<400> 20143
Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 20144
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; DCAF12L2; R378H; 0

<400> 20144
Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 20145
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*41:02; DCAF12L2; R378H; 0

<400> 20145
Tyr Asp Ile His Ala Gln Lys Phe
1               5

<210> 20146
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:03; DCAF12L2; R378H; 0

<400> 20146
Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 20147
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*44:05; DCAF12L2; R378H; 0

<400> 20147
Tyr Asp Ile His Ala Gln Lys Phe
1               5


<210> 20148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*37:01; CSMD3; S300F; 0

<400> 20148
Tyr Asp Tyr Leu Glu Ile Glu Gly Phe
1               5


<210> 20149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; MB21D2; Q311E; 0

<400> 20149
Tyr Glu Ala Cys Lys Ala Ile Ile Ile
1               5


<210> 20150
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; K335I; 0

<400> 20150
Tyr Glu Ile Leu Leu Trp Thr Thr
1               5


<210> 20151
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; K335I; 0

<400> 20151
Tyr Glu Ile Leu Leu Trp Thr Thr
1               5


<210> 20152
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; K335I; 0

<400> 20152
Tyr Glu Ile Leu Leu Trp Thr Thr
1               5


<210> 20153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*49:01; CTNNB1; K335I; 0

<400> 20153
Tyr Glu Ile Leu Leu Trp Thr Thr Ser
1               5


<210> 20154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; K335I; 0

<400> 20154
Tyr Glu Ile Leu Leu Trp Thr Thr Ser
1               5


<210> 20155
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; TP53; H179Y; 0

<400> 20155
Tyr Glu Arg Cys Ser Asp Ser Asp Gly Leu
1               5                   10


<210> 20156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:01; TP53; H179Y; 0

<400> 20156
Tyr Glu Arg Cys Ser Asp Ser Asp Gly Leu
1               5                   10


<210> 20157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; MYCN; P44L; 1

<400> 20157
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20158
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:03; MYCN; P44L; 0

<400> 20158
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; MYCN; P44L; 0

<400> 20159
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; MYCN; P44L; 0

<400> 20160
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; MYCN; P44L; 0

<400> 20161
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; MYCN; P44L; 0

<400> 20162
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; MYCN; P44L; 0

<400> 20163
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20164
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:03; MYCN; P44L; 0

<400> 20164
Tyr Phe Gly Gly Pro Asp Ser Thr Leu
1               5


<210> 20165
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; PIK3CA; H1047L; 0

<400> 20165
Tyr Phe Met Lys Gln Met Asn Asp Ala Leu
1               5                   10


<210> 20166
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; PIK3CA; H1047Y; 0

<400> 20166
Tyr Phe Met Lys Gln Met Asn Asp Ala Tyr

1 5 10

<210> 20167
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; PIK3CA; H1047Y; 0

<400> 20167
Tyr Phe Met Lys Gln Met Asn Asp Ala Tyr
1 5 10

<210> 20168
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; PIK3CA; H1047Y; 0

<400> 20168
Tyr Phe Met Lys Gln Met Asn Asp Ala Tyr
1 5 10

<210> 20169
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; S127F; 0

<400> 20169
Tyr Phe Pro Ala Leu Asn Lys Met
1 5

<210> 20170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; S127F; 0

<400> 20170
Tyr Phe Pro Ala Leu Asn Lys Met Phe
1 5

<210> 20171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; S127F; 1

<400> 20171
Tyr Phe Pro Ala Leu Asn Lys Met Phe
1               5


<210> 20172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; S127F; 0

<400> 20172
Tyr Phe Pro Ala Leu Asn Lys Met Phe
1               5


<210> 20173
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; FBXW7; R465H; 1

<400> 20173
Tyr Gly His Thr Ser Thr Val His
1               5


<210> 20174
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; FBXW7; R465H; 0

<400> 20174
Tyr Gly His Thr Ser Thr Val His
1               5


<210> 20175

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33Y; 1

<400> 20175
Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 20176
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S33Y; 1

<400> 20176
Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 20177
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33Y; 0

<400> 20177
Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 20178
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 20178
Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 20179
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

<400> 20179
Tyr Gly Ile His Ser Gly Ala Thr
1               5


<210> 20180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33Y; 0

<400> 20180
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; S33Y; 1

<400> 20181
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; CTNNB1; S33Y; 0

<400> 20182
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; CTNNB1; S33Y; 0

<400> 20183
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33Y; 0

<400> 20184
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 20185
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33Y; 0

<400> 20186
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20187
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; S33Y; 0

<400> 20187
Tyr Gly Ile His Ser Gly Ala Thr Thr
1               5


<210> 20188
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33Y; 0

<400> 20188
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 20189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; S33Y; 1

<400> 20189
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 20190
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33Y; 0

<400> 20190
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 20191
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 20191

Tyr Gly Ile His Ser Gly Ala Thr Thr Thr
1 5 10

<210> 20192
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

<400> 20192
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr
1 5 10

<210> 20193
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33Y; 1

<400> 20193
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 20194
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; S33Y; 0

<400> 20194
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 20195
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33Y; 0

<400> 20195
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 20196
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; S33Y; 0

<400> 20196
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20197
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33Y; 0

<400> 20197
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20198
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; S33Y; 1

<400> 20198
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20199
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; S33Y; 1

<400> 20199
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10

<210> 20200
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S33Y; 0

<400> 20200
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20201
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; S33Y; 0

<400> 20201
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20202
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 20202
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20203
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S33Y; 0

<400> 20203
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20204
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33Y; 0

<400> 20204
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20205
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33Y; 0

<400> 20205
Tyr Gly Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 20206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; PIK3CA; H1047Y; 0

<400> 20206
Tyr His Gly Gly Trp Thr Thr Lys Met
1               5


<210> 20207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; PIK3CA; H1047Y; 0

<400> 20207
Tyr His Gly Gly Trp Thr Thr Lys Met
1               5


<210> 20208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; GRIN2A; S1425L; 0

<400> 20208
Tyr Ile Leu Glu His Val Met Pro Tyr
1               5


<210> 20209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; GRIN2A; S1425L; 0

<400> 20209
Tyr Ile Leu Glu His Val Met Pro Tyr
1               5


<210> 20210
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; ARHGAP5; V474A; 1

<400> 20210
Tyr Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 20211
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; ARHGAP5; V474A; 0

<400> 20211
Tyr Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 20212
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*15:01; ARHGAP5; V474A; 1

<400> 20212
Tyr Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 20213
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; ARHGAP5; V474A; 0

<400> 20213
Tyr Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


<210> 20214
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; ARHGAP5; V474A; 1

<400> 20214
Tyr Ile Thr Glu Ala Asp Ser Lys Glu Ala Tyr
1               5                   10


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<223> Table A; HLA-B*35:08; ARHGAP5; V474A; 0

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1               5                   10


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<223> Table A; HLA-B*39:01; ARHGAP5; V474A; 0

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1               5                   10


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<223> Table A; HLA-B*15:03; BMP5; R208Q; 0

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1               5


<210> 20219
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<220>
<223> Table A; HLA-C*08:02; BMP5; R208Q; 0

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1               5


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<223> Table A; HLA-B*39:06; KRAS; G12A; 0

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1 5

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<223> Table A; HLA-B*15:10; STAG1; A116T; 0

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1 5

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<220>
<223> Table A; HLA-B*39:01; STAG1; A116T; 0

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1 5

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<223> Table A; HLA-B*41:02; STAG1; A116T; 0

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<223> Table A; HLA-B*48:01; STAG1; A116T; 0

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1 5

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<223> Table A; HLA-A*02:01; CTNNB1; S33C; 1

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<223> Table A; HLA-A*02:01; CTNNB1; S33C; 1

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<223> Table A; HLA-A*02:03; CTNNB1; S33C; 0

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1               5                   10


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<223> Table A; HLA-A*02:07; CTNNB1; S33C; 0

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1               5                   10


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<223> Table A; HLA-A*68:02; CTNNB1; S33C; 0

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<223> Table A; HLA-A*02:01; TP53; R213Q; 1

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<223> Table A; HLA-A*02:07; TP53; R213Q; 0

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1               5


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<223> Table A; HLA-A*02:01; CTNNB1; S33F; 1

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1               5


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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S33F; 0

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<223> Table A; HLA-A*01:01; CTNNB1; S33F; 1

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1               5                   10


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<223> Table A; HLA-A*02:01; CTNNB1; S33F; 1

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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S33F; 0

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<210> 20241
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<223> Table A; HLA-A*29:02; CTNNB1; S33F; 1

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33F; 0

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<220>
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; S33F; 0

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<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33F; 0

<400> 20247
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S33F; 0

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<220>
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33F; 0

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<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34E; 1

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<220>
<223> Table A; HLA-A*02:04; CTNNB1; G34E; 0

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<210> 20253
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34E; 0

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<210> 20254
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-C*08:02; CTNNB1; G34E; 0

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34E; 1

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<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34E; 0

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<220>
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<223> Table A; HLA-A*03:02; CTNNB1; G34E; 0

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34E; 0

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<210> 20265
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34E; 0

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1               5                   10


<210> 20266
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<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

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1               5                   10


<210> 20267
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<212> PRT
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; G34E; 0

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1               5                   10


<210> 20268
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<212> PRT
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<223> Table A; HLA-C*08:02; CTNNB1; G34E; 0

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1               5                   10


<210> 20269
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<223> Table A; HLA-C*08:03; CTNNB1; G34E; 0

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<210> 20270
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; G34E; 1

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1               5                   10


<210> 20271
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34E; 1

<400> 20271
Tyr Leu Asp Ser Glu Ile His Ser Gly Ala Thr
1               5                   10


<210> 20272
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; G34E; 0

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Tyr Leu Asp Ser Glu Ile His Ser Gly Ala Thr
1               5                   10


<210> 20273
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34E; 0

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1               5                   10


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<223> Table A; HLA-B*08:01; CTNNB1; G34E; 1

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<220>
<223> Table A; HLA-B*27:02; CTNNB1; G34E; 0

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<210> 20276
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; G34E; 0

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<210> 20277
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34E; 0

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1 5 10

<210> 20278
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34E; 0

<400> 20278
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<210> 20279
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37A; 1

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Tyr Leu Asp Ser Gly Ile His Ala
1               5


<210> 20280
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37A; 1

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<210> 20281
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37A; 0

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<210> 20282
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37A; 0

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<210> 20283

<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37A; 0

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<210> 20284
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*35:03; CTNNB1; S37A; 0

<400> 20284
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<210> 20285
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; CTNNB1; S37A; 0

<400> 20285
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1               5


<210> 20286
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37A; 0

<400> 20286
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<210> 20287
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37A; 0

<400> 20287
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<210> 20288
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; CTNNB1; S37A; 0

<400> 20288
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1               5


<210> 20289
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; CTNNB1; S37A; 1

<400> 20289
Tyr Leu Asp Ser Gly Ile His Ala
1               5


<210> 20290
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*05:01; CTNNB1; S37A; 1

<400> 20290
Tyr Leu Asp Ser Gly Ile His Ala
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<210> 20291
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; S37A; 0

<400> 20291
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1               5


<210> 20292
<211> 8
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<220>
<223> Table A; HLA-C*08:02; CTNNB1; S37A; 0

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1               5


<210> 20293
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<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

<400> 20293
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<210> 20294
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37A; 1

<400> 20294
Tyr Leu Asp Ser Gly Ile His Ala Gly
1               5


<210> 20295
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37A; 1

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1               5


<210> 20296
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37A; 0

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1               5


<210> 20297
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37A; 0

<400> 20297
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1               5


<210> 20298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; S37A; 0

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Tyr Leu Asp Ser Gly Ile His Ala Gly
1               5


<210> 20299
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37A; 0

<400> 20299

Tyr Leu Asp Ser Gly Ile His Ala Gly
1               5


<210> 20300
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37A; 0

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<210> 20301
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37A; 0

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<210> 20302
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37A; 1

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1               5


<210> 20303
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<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37A; 0

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1               5

<210> 20304
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37A; 0

<400> 20304
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1               5


<210> 20305
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<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

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1               5


<210> 20306
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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; CTNNB1; S37A; 0

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1               5


<210> 20307
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37A; 1

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<223> Table A; HLA-A*02:01; CTNNB1; S37A; 1

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1               5                   10


<210> 20309
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<223> Table A; HLA-A*02:03; CTNNB1; S37A; 0

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<223> Table A; HLA-A*02:04; CTNNB1; S37A; 0

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<223> Table A; HLA-A*02:05; CTNNB1; S37A; 0

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<223> Table A; HLA-A*02:06; CTNNB1; S37A; 0

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<223> Table A; HLA-A*02:07; CTNNB1; S37A; 0

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<223> Table A; HLA-A*02:08; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S37A; 1

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<220>
<223> Table A; HLA-A*03:02; CTNNB1; S37A; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37A; 1

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<220>
<223> Table A; HLA-A*26:03; CTNNB1; S37A; 0

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<223> Table A; HLA-A*29:02; CTNNB1; S37A; 0

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<223> Table A; HLA-A*31:01; CTNNB1; S37A; 0

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<223> Table A; HLA-A*68:01; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37A; 1

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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-B*27:02; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-B*27:05; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37A; 0

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1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37A; 0

<400> 20328
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1 5 10

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<220>
<223> Table A; HLA-B*40:02; CTNNB1; S37A; 0

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<220>
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<223> Table A; HLA-B*50:01; CTNNB1; S37A; 0

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<220>
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<223> Table A; HLA-C*08:01; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-C*08:02; CTNNB1; S37A; 0

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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

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<223> Table A; HLA-A*02:01; CTNNB1; S37A; 1

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37A; 0

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<223> Table A; HLA-C*08:03; CTNNB1; S37A; 0

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<213> Homo sapiens

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<223> Table A; HLA-A*02:01; CTNNB1; S37C; 1

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<210> 20342
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37C; 0

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<210> 20343
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37C; 0

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<223> Table A; HLA-B*48:01; CTNNB1; S37C; 0

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<220>
<223> Table A; HLA-C*05:01; CTNNB1; S37C; 1

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<210> 20346
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; S37C; 0

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<210> 20347
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; CTNNB1; S37C; 1

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<210> 20348
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37C; 1

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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37C; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37C; 0

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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S37C; 0

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<223> Table A; HLA-A*02:07; CTNNB1; S37C; 0

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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37C; 1

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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37C; 0

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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37C; 1

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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37C; 1

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<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37C; 1

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<223> Table A; HLA-B*39:01; CTNNB1; S37C; 0

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<223> Table A; HLA-A*01:01; CTNNB1; S37C; 1

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<223> Table A; HLA-A*02:05; CTNNB1; S37C; 0

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1               5                   10


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<223> Table A; HLA-A*02:06; CTNNB1; S37C; 0

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<223> Table A; HLA-A*02:07; CTNNB1; S37C; 0

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1               5                   10


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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S37C; 1

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1               5                   10


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1               5                   10


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<223> Table A; HLA-B*48:01; CTNNB1; S37C; 0

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1               5                   10


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<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37C; 0

<400> 20373
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1               5                   10


<210> 20374
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<223> Table A; HLA-B*54:01; CTNNB1; S37C; 0

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1               5                   10


<210> 20375
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37C; 0

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1               5                   10


<210> 20376
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37F; 1

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1               5


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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37F; 1

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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-A*11:01; CTNNB1; S37F; 1

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1               5


<210> 20381
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<220>
<223> Table A; HLA-A*23:01; CTNNB1; S37F; 1

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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37F; 1

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1 5

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<220>
<223> Table A; HLA-B*13:01; CTNNB1; S37F; 0

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1 5

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<220>
<223> Table A; HLA-B*15:01; CTNNB1; S37F; 1

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1 5

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<212> PRT
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<220>
<223> Table A; HLA-B*15:13; CTNNB1; S37F; 0

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1 5

<210> 20386
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<220>
<223> Table A; HLA-B*35:01; CTNNB1; S37F; 1

<400> 20386
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1 5

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<212> PRT
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<220>
<223> Table A; HLA-B*35:03; CTNNB1; S37F; 0

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1               5


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<220>
<223> Table A; HLA-B*35:08; CTNNB1; S37F; 0

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<220>
<223> Table A; HLA-B*37:01; CTNNB1; S37F; 0

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1               5


<210> 20390
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<220>
<223> Table A; HLA-B*38:01; CTNNB1; S37F; 1

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1               5


<210> 20391

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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37F; 0

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1               5


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<220>
<223> Table A; HLA-B*44:05; CTNNB1; S37F; 0

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1               5


<210> 20393
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<212> PRT
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<220>
<223> Table A; HLA-B*58:01; CTNNB1; S37F; 0

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1               5


<210> 20394
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<220>
<223> Table A; HLA-C*02:02; CTNNB1; S37F; 1

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1               5


<210> 20395
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<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; CTNNB1; S37F; 0

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1               5


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<220>
<223> Table A; HLA-C*03:03; CTNNB1; S37F; 1

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1               5


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<220>
<223> Table A; HLA-C*03:04; CTNNB1; S37F; 1

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1               5


<210> 20398
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; CTNNB1; S37F; 1

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1               5


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<212> PRT
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<220>
<223> Table A; HLA-C*05:01; CTNNB1; S37F; 1

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1               5


<210> 20400
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<212> PRT
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; S37F; 0

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1               5


<210> 20401
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<220>
<223> Table A; HLA-C*08:02; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe
1               5


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<212> PRT
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<220>
<223> Table A; HLA-C*15:02; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 20403
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<220>
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Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 20404
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<220>
<223> Table A; HLA-C*17:01; CTNNB1; S37F; 0

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1               5


<210> 20405
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37F; 1

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1               5


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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe Gly
1               5


<210> 20407
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37F; 0

<400> 20407

Tyr Leu Asp Ser Gly Ile His Phe Gly
1 5

<210> 20408
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37F; 0

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Tyr Leu Asp Ser Gly Ile His Phe Gly
1 5

<210> 20409
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

<400> 20409
Tyr Leu Asp Ser Gly Ile His Phe Gly
1 5

<210> 20410
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1 5 10

<210> 20411
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
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<210> 20412
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37F; 0

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37F; 0

<400> 20413
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20414
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37F; 0

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1               5                   10


<210> 20415
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S37F; 0

<400> 20415
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10

<210> 20416
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37F; 0

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20417
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20418
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<220>
<223> Table A; HLA-A*03:02; CTNNB1; S37F; 0

<400> 20418
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20419
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37F; 1

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
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<210> 20421
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

<400> 20421
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20422
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37F; 1

<400> 20422
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S37F; 1

<400> 20423
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20424
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; S37F; 0

<400> 20424
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20425
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37F; 0

<400> 20425
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20426
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37F; 0

<400> 20426
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20427
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37F; 0

<400> 20427
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 20428
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<220>

<223> Table A; HLA-A*02:07; CTNNB1; S37F; 0

<400> 20428
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala Thr
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<210> 20429
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37F; 0

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Tyr Leu Asp Ser Gly Ile His Phe Gly Ala Thr
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<210> 20430
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; S37P; 0

<400> 20430
Tyr Leu Asp Ser Gly Ile His Pro
1               5


<210> 20431
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37P; 1

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1               5


<210> 20432
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37P; 1

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1               5


<210> 20433
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37P; 0

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1               5


<210> 20434
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37P; 0

<400> 20434
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1               5


<210> 20435
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; S37P; 0

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1               5


<210> 20436
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37P; 0

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1 5

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<220>
<223> Table A; HLA-A*31:01; CTNNB1; S37P; 0

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1 5

<210> 20438
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S37P; 0

<400> 20438
Tyr Leu Asp Ser Gly Ile His Pro Gly
1 5

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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; S37P; 1

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1 5

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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37P; 0

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1 5

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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37P; 0

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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; CTNNB1; S37P; 0

<400> 20443
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<210> 20444
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37P; 1

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1               5                   10


<210> 20445

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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37P; 1

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1               5                   10


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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S37P; 0

<400> 20446
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1               5                   10


<210> 20447
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S37P; 0

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1               5                   10


<210> 20448
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S37P; 0

<400> 20448
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1               5                   10


<210> 20449
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<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; S37P; 0

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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S37P; 0

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<210> 20451
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; S37P; 0

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1               5                   10


<210> 20452
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S37P; 1

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<210> 20454
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<223> Table A; HLA-A*68:01; CTNNB1; S37P; 0

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<210> 20455
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<210> 20456
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<223> Table A; HLA-B*08:01; CTNNB1; S37P; 1

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<223> Table A; HLA-B*13:02; CTNNB1; S37P; 0

<400> 20457
Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 20458
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37P; 0

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Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 20459
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; S37P; 0

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1               5                   10


<210> 20460
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

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Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 20461
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; S37P; 0

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Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 20462
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S37P; 0

<400> 20462
Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 20463
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; S37P; 0

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Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 20464
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<212> PRT
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<220>
<223> Table A; HLA-C*08:02; CTNNB1; S37P; 0

<400> 20464
Tyr Leu Asp Ser Gly Ile His Pro Gly Ala
1               5                   10


<210> 20465
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; S37P; 1

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Tyr Leu Asp Ser Gly Ile His Pro Gly Ala Thr
1               5                   10

<210> 20466
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S37P; 1

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Tyr Leu Asp Ser Gly Ile His Pro Gly Ala Thr
1               5                   10


<210> 20467
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; S37P; 0

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Tyr Leu Asp Ser Gly Ile His Pro Gly Ala Thr
1               5                   10


<210> 20468
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S37P; 0

<400> 20468
Tyr Leu Asp Ser Gly Ile His Pro Gly Ala Thr
1               5                   10


<210> 20469
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34R; 1

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Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5

<210> 20470
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<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; G34R; 0

<400> 20470
Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5


<210> 20471
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; G34R; 0

<400> 20471
Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5


<210> 20472
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; G34R; 1

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1               5


<210> 20473
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34R; 1

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1               5                   10


<210> 20474
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34R; 0

<400> 20474
Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 20475
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; G34R; 0

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Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; G34R; 1

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Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 20477
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34R; 1

<400> 20477
Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 20478
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34R; 0

<400> 20478
Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 20479
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; G34R; 1

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Tyr Leu Asp Ser Arg Ile His Ser Gly Ala Thr
1               5                   10


<210> 20480
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<212> PRT
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<220>
<223> Table A; HLA-A*01:01; CTNNB1; G34V; 1

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Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20481
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<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34V; 1

<400> 20481
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20482
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<212> PRT
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<220>

<223> Table A; HLA-A*02:04; CTNNB1; G34V; 0

<400> 20482
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20483
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34V; 0

<400> 20483
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; G34V; 0

<400> 20484
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


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<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; G34V; 0

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Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20486
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 20486
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20487
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; G34V; 0

<400> 20487
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; CTNNB1; G34V; 1

<400> 20488
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 20489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; G34V; 1

<400> 20489
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 20490
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34V; 1

<400> 20490
Tyr Leu Asp Ser Val Ile His Ser Gly Ala

1 5 10

<210> 20491
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; G34V; 0

<400> 20491
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1 5 10

<210> 20492
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; G34V; 0

<400> 20492
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1 5 10

<210> 20493
<211> 10
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; G34V; 0

<400> 20493
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1 5 10

<210> 20494
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; G34V; 0

<400> 20494
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1 5 10

<210> 20495
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; G34V; 1

<400> 20495
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 20496
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<220>
<223> Table A; HLA-A*03:02; CTNNB1; G34V; 0

<400> 20496
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 20497
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 20497
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 20498
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; G34V; 0

<400> 20498
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 20499

<211> 10
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 20499
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 20500
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; G34V; 0

<400> 20500
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 20501
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; G34V; 1

<400> 20501
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1               5                   10


<210> 20502
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; G34V; 1

<400> 20502
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1               5                   10


<210> 20503
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; G34V; 0

<400> 20503
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1               5                   10


<210> 20504
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; G34V; 0

<400> 20504
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1               5                   10


<210> 20505
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; G34V; 1

<400> 20505
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1               5                   10


<210> 20506
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; G34V; 0

<400> 20506
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1               5                   10


<210> 20507
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; G34V; 0

<400> 20507
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1               5                   10


<210> 20508
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; S33Y; 1

<400> 20508
Tyr Leu Asp Tyr Gly Ile His Ser Gly
1               5


<210> 20509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33Y; 1

<400> 20509
Tyr Leu Asp Tyr Gly Ile His Ser Gly
1               5


<210> 20510
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S33Y; 0

<400> 20510
Tyr Leu Asp Tyr Gly Ile His Ser Gly
1               5


<210> 20511
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; CTNNB1; S33Y; 1

<400> 20511
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20512
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33Y; 1

<400> 20512
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20513
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; S33Y; 0

<400> 20513
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20514
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; S33Y; 0

<400> 20514
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20515
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; S33Y; 0

<400> 20515

Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20516
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; S33Y; 0

<400> 20516
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20517
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S33Y; 0

<400> 20517
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20518
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; S33Y; 1

<400> 20518
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20519
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*03:02; CTNNB1; S33Y; 0

<400> 20519
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10

<210> 20520
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; S33Y; 0

<400> 20520
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20521
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; S33Y; 0

<400> 20521
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20522
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*27:02; CTNNB1; S33Y; 0

<400> 20522
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20523
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; S33Y; 0

<400> 20523
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10

<210> 20524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; S33Y; 0

<400> 20524
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20525
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; S33Y; 0

<400> 20525
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala
1               5                   10


<210> 20526
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; S33Y; 1

<400> 20526
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20527
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; S33Y; 0

<400> 20527
Tyr Leu Asp Tyr Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20528
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; RAC1; A159V; 0

<400> 20528
Tyr Leu Glu Cys Ser Val Leu Thr Gln Arg
1               5                   10


<210> 20529
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<220>
<223> Table A; HLA-A*68:01; RAC1; A159V; 0

<400> 20529
Tyr Leu Glu Cys Ser Val Leu Thr Gln Arg
1               5                   10


<210> 20530
<211> 10
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RAC1; A159V; 0

<400> 20530
Tyr Leu Glu Cys Ser Val Leu Thr Gln Arg
1               5                   10


<210> 20531
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ERBB2; V842I; 0

<400> 20531
Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 20532
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ERBB2; V842I; 0

<400> 20532
Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 20533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; ERBB2; V842I; 0

<400> 20533
Tyr Leu Glu Asp Val Arg Leu Ile His Arg
1               5                   10


<210> 20534
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; ERBB2; V842I; 0

<400> 20534
Tyr Leu Glu Asp Val Arg Leu Ile His Arg
1               5                   10


<210> 20535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; FGFR2; C382R; 0

<400> 20535
Tyr Leu Glu Ile Ala Ile Tyr Arg Ile
1               5


<210> 20536
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*27:02; MAPK1; E322K; 0

<400> 20536
Tyr Leu Glu Gln Tyr Tyr Asp Pro Ser Asp Lys
1  5  10

<210> 20537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32H; 1

<400> 20537
Tyr Leu His Ser Gly Ile His Ser Gly
1  5

<210> 20538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32H; 0

<400> 20538
Tyr Leu His Ser Gly Ile His Ser Gly
1  5

<210> 20539
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32H; 0

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1  5

<210> 20540
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32H; 0

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1               5


<210> 20541
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:03; CTNNB1; D32H; 0

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Tyr Leu His Ser Gly Ile His Ser Gly
1               5


<210> 20542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32H; 0

<400> 20542
Tyr Leu His Ser Gly Ile His Ser Gly
1               5


<210> 20543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32H; 0

<400> 20543
Tyr Leu His Ser Gly Ile His Ser Gly
1               5


<210> 20544
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32H; 0

<400> 20544
Tyr Leu His Ser Gly Ile His Ser Gly

1 5

<210> 20545
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32H; 1

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Tyr Leu His Ser Gly Ile His Ser Gly
1 5

<210> 20546
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32H; 0

<400> 20546
Tyr Leu His Ser Gly Ile His Ser Gly
1 5

<210> 20547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CTNNB1; D32H; 0

<400> 20547
Tyr Leu His Ser Gly Ile His Ser Gly
1 5

<210> 20548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32H; 0

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Tyr Leu His Ser Gly Ile His Ser Gly
1 5

<210> 20549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32H; 1

<400> 20549
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20550
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32H; 0

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Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20551
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32H; 0

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Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20552
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32H; 0

<400> 20552
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20553

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32H; 0

<400> 20553
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20554
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; D32H; 0

<400> 20554
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32H; 1

<400> 20555
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20556
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; D32H; 0

<400> 20556
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20557
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32H; 0

<400> 20557
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20558
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32H; 0

<400> 20558
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32H; 0

<400> 20559
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20560
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32H; 0

<400> 20560
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20561
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32H; 0

<400> 20561
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20562
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32H; 0

<400> 20562
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20563
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32H; 0

<400> 20563
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20564
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32H; 0

<400> 20564
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20565
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32H; 0

<400> 20565
Tyr Leu His Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20566
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32H; 1

<400> 20566
Tyr Leu His Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20567
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32H; 0

<400> 20567
Tyr Leu His Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20568
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32H; 0

<400> 20568
Tyr Leu His Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; TP53; H193Y; 0

<400> 20569

Tyr Leu Ile Arg Val Glu Gly Asn Leu
1               5


<210> 20570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; TP53; H193Y; 0

<400> 20570
Tyr Leu Ile Arg Val Glu Gly Asn Leu
1               5


<210> 20571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32N; 1

<400> 20571
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32N; 0

<400> 20572
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32N; 0

<400> 20573
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5

<210> 20574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32N; 0

<400> 20574
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32N; 1

<400> 20575
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20576
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CTNNB1; D32N; 0

<400> 20576
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; D32N; 1

<400> 20577
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5

<210> 20578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32N; 1

<400> 20578
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32N; 0

<400> 20579
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32N; 0

<400> 20580
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32N; 0

<400> 20581
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20582
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32N; 1

<400> 20582
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20583
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<223> Table A; HLA-B*13:02; CTNNB1; D32N; 1

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1               5


<210> 20584
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32N; 1

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1               5


<210> 20585
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<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32N; 0

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Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20586
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<220>
<223> Table A; HLA-B*46:01; CTNNB1; D32N; 0

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Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20587
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 20587
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 20588
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32N; 0

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1               5


<210> 20589
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32N; 1

<400> 20589
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20590
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<220>

<223> Table A; HLA-A*02:03; CTNNB1; D32N; 0

<400> 20590
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20591
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<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32N; 0

<400> 20591
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20592
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<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32N; 0

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Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20593
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<212> PRT
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; D32N; 0

<400> 20593
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20594
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32N; 0

<400> 20594
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20595
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<212> PRT
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; D32N; 0

<400> 20595
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20596
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32N; 1

<400> 20596
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20597
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<220>
<223> Table A; HLA-A*03:02; CTNNB1; D32N; 0

<400> 20597
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20598
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<212> PRT
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<220>
<223> Table A; HLA-A*26:03; CTNNB1; D32N; 0

<400> 20598
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala

1 5 10

<210> 20599
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32N; 1

<400> 20599
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20600
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32N; 0

<400> 20600
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20601
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32N; 1

<400> 20601
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20602
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32N; 0

<400> 20602
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20603
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; D32N; 1

<400> 20603
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20604
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32N; 0

<400> 20604
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20605
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32N; 1

<400> 20605
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20606
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32N; 1

<400> 20606
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20607

<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32N; 1

<400> 20607
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20608
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32N; 0

<400> 20608
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20609
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<212> PRT
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; D32N; 0

<400> 20609
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20610
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 20610
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20611
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32N; 0

<400> 20611
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20612
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32N; 0

<400> 20612
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; CTNNB1; D32N; 0

<400> 20613
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20614
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32N; 0

<400> 20614
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20615
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32N; 1

<400> 20615
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20616
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32N; 0

<400> 20616
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20617
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32N; 1

<400> 20617
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20618
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32N; 1

<400> 20618
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20619
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32N; 1

<400> 20619
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20620
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32N; 0

<400> 20620
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20621
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; EP300; D1399N; 0

<400> 20621
Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 20622
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; EP300; D1399N; 0

<400> 20622
Tyr Leu Asn Ser Val His Phe Phe
1               5


<210> 20623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; EP300; D1399N; 1

<400> 20623

Tyr Leu Asn Ser Val His Phe Phe Arg
1 5

<210> 20624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; ERBB2; S310Y; 0

<400> 20624
Tyr Leu Ser Thr Asp Val Gly Tyr
1 5

<210> 20625
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; ERBB2; S310Y; 0

<400> 20625
Tyr Leu Ser Thr Asp Val Gly Tyr
1 5

<210> 20626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; ERBB2; S310Y; 0

<400> 20626
Tyr Leu Ser Thr Asp Val Gly Tyr Cys
1 5

<210> 20627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32V; 1

<400> 20627
Tyr Leu Val Ser Gly Ile His Ser Gly
1 5

<210> 20628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32V; 0

<400> 20628
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20629
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32V; 0

<400> 20629
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32V; 0

<400> 20630
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20631
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; D32V; 0

<400> 20631
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5

<210> 20632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32V; 0

<400> 20632
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20633
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; CTNNB1; D32V; 1

<400> 20633
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

<400> 20634
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20635
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32V; 1

<400> 20635
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20636
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; D32V; 0

<400> 20636
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32V; 0

<400> 20637
Tyr Leu Val Ser Gly Ile His Ser Gly
1               5


<210> 20638
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32V; 1

<400> 20638
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32V; 0

<400> 20639
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20640
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32V; 0

<400> 20640
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20641
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32V; 0

<400> 20641
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20642
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CTNNB1; D32V; 0

<400> 20642
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20643
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32V; 0

<400> 20643
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20644
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*02:08; CTNNB1; D32V; 0

<400> 20644
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20645
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32V; 1

<400> 20645
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20646
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; D32V; 0

<400> 20646
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20647
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32V; 1

<400> 20647
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20648
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32V; 0

<400> 20648
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20649
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32V; 1

<400> 20649
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20650
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; CTNNB1; D32V; 1

<400> 20650
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

<400> 20651
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20652
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32V; 1

<400> 20652
Tyr Leu Val Ser Gly Ile His Ser Gly Ala

1 5 10

<210> 20653
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32V; 1

<400> 20653
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20654
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; CTNNB1; D32V; 0

<400> 20654
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20655
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32V; 0

<400> 20655
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20656
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32V; 0

<400> 20656
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20657
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32V; 0

<400> 20657
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20658
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; D32V; 0

<400> 20658
Tyr Leu Val Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20659
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32V; 1

<400> 20659
Tyr Leu Val Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20660
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32V; 0

<400> 20660
Tyr Leu Val Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20661

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32V; 0

<400> 20661
Tyr Leu Val Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20662
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32V; 0

<400> 20662
Tyr Leu Val Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32Y; 1

<400> 20663
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32Y; 0

<400> 20664
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20665
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32Y; 0

<400> 20665
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32Y; 0

<400> 20666
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32Y; 1

<400> 20667
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; CTNNB1; D32Y; 1

<400> 20668
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; CTNNB1; D32Y; 0

<400> 20669
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; CTNNB1; D32Y; 0

<400> 20670
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32Y; 1

<400> 20671
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:01; CTNNB1; D32Y; 0

<400> 20672
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 20673
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; CTNNB1; D32Y; 0

<400> 20674
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20675
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<223> Table A; HLA-A*33:03; CTNNB1; D32Y; 0

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1               5


<210> 20676
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<223> Table A; HLA-A*68:01; CTNNB1; D32Y; 0

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1               5


<210> 20677
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32Y; 0

<400> 20677

Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 20678
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<223> Table A; HLA-B*08:01; CTNNB1; D32Y; 1

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1               5


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<223> Table A; HLA-B*13:02; CTNNB1; D32Y; 0

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1               5


<210> 20680
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32Y; 1

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1               5


<210> 20681
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<220>
<223> Table A; HLA-B*15:02; CTNNB1; D32Y; 0

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1               5

<210> 20682
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<220>
<223> Table A; HLA-B*35:01; CTNNB1; D32Y; 1

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1               5


<210> 20683
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32Y; 0

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1               5


<210> 20684
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<220>
<223> Table A; HLA-B*46:01; CTNNB1; D32Y; 0

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1               5


<210> 20685
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<223> Table A; HLA-B*50:01; CTNNB1; D32Y; 0

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<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32Y; 0

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<210> 20687
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<220>
<223> Table A; HLA-C*08:01; CTNNB1; D32Y; 0

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1               5


<210> 20688
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32Y; 1

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1               5                   10


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<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32Y; 0

<400> 20689
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


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<220>
<223> Table A; HLA-A*02:04; CTNNB1; D32Y; 0

<400> 20690
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20691
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<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32Y; 0

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1               5                   10


<210> 20692
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<220>
<223> Table A; HLA-A*02:06; CTNNB1; D32Y; 0

<400> 20692
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1               5                   10


<210> 20693
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<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32Y; 0

<400> 20693
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20694
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<220>
<223> Table A; HLA-A*02:08; CTNNB1; D32Y; 0

<400> 20694
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20695
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<212> PRT
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32Y; 1

<400> 20695
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<210> 20696
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<220>
<223> Table A; HLA-A*26:03; CTNNB1; D32Y; 0

<400> 20696
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20697
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32Y; 1

<400> 20697
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20698
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<212> PRT
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<220>

<223> Table A; HLA-A*30:01; CTNNB1; D32Y; 0

<400> 20698
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20699
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 20699
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20700
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; CTNNB1; D32Y; 0

<400> 20700
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20701
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<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32Y; 0

<400> 20701
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20702
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<212> PRT
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<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32Y; 1

<400> 20702
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20703
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<220>
<223> Table A; HLA-B*13:02; CTNNB1; D32Y; 0

<400> 20703
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1               5                   10


<210> 20704
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<212> PRT
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<220>
<223> Table A; HLA-B*15:01; CTNNB1; D32Y; 1

<400> 20704
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<210> 20705
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<220>
<223> Table A; HLA-B*15:02; CTNNB1; D32Y; 0

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1               5                   10


<210> 20706
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<212> PRT
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<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32Y; 0

<400> 20706
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala

1 5 10

<210> 20707
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<220>
<223> Table A; HLA-B*40:02; CTNNB1; D32Y; 0

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Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20708
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<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32Y; 0

<400> 20708
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 20709
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<220>
<223> Table A; HLA-B*50:01; CTNNB1; D32Y; 0

<400> 20709
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1 5 10

<210> 20710
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<212> PRT
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<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32Y; 0

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1 5 10

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<223> Table A; HLA-B*56:01; CTNNB1; D32Y; 0

<400> 20711
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 20712
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<220>
<223> Table A; HLA-A*02:01; CTNNB1; D32Y; 1

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1               5                   10


<210> 20713
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32Y; 0

<400> 20713
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20714
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<212> PRT
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<220>
<223> Table A; HLA-A*02:07; CTNNB1; D32Y; 0

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Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20715

<211> 11
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<220>
<223> Table A; HLA-A*03:01; CTNNB1; D32Y; 1

<400> 20715
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20716
<211> 11
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<220>
<223> Table A; HLA-A*29:02; CTNNB1; D32Y; 1

<400> 20716
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20717
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<212> PRT
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<220>
<223> Table A; HLA-A*31:01; CTNNB1; D32Y; 0

<400> 20717
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20718
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; CTNNB1; D32Y; 0

<400> 20718
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20719
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32Y; 1

<400> 20719
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20720
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32Y; 0

<400> 20720
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20721
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; CTNNB1; D32Y; 0

<400> 20721
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20722
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32Y; 0

<400> 20722
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 20723
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; C238F; 0

<400> 20723
Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 20724
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; TP53; C238F; 0

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Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 20725
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; TP53; C238F; 0

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Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 20726
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; TP53; C238F; 0

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Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 20727
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*14:02; TP53; C238F; 0

<400> 20727
Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 20728
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; CNBD1; L396P; 1

<400> 20728
Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20729
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; CNBD1; L396P; 0

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Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20730
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<212> PRT
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<220>
<223> Table A; HLA-A*11:01; CNBD1; L396P; 1

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Tyr Met Gly Lys Pro Lys Glu Lys
1               5


<210> 20731
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<212> PRT
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<220>
<223> Table A; HLA-A*02:03; PIK3CA; V344M; 0

<400> 20731

Tyr Met Asn Leu Asn Ile Arg Asp Ile
1               5


<210> 20732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; CNTNAP2; T373M; 0

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Tyr Met Val Pro Val Phe Phe Asn Ala
1               5


<210> 20733
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*14:02; TP53; C238Y; 0

<400> 20733
Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 20734
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; TP53; C238Y; 0

<400> 20734
Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 20735
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; TP53; C238Y; 0

<400> 20735
Tyr Met Tyr Asn Ser Ser Cys Met
1               5

<210> 20736
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; TP53; C238Y; 0

<400> 20736
Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 20737
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:10; TP53; C238Y; 0

<400> 20737
Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 20738
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; TP53; C238Y; 0

<400> 20738
Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 20739
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; C238Y; 0

<400> 20739
Tyr Met Tyr Asn Ser Ser Cys Met
1               5

<210> 20740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; GLI1; R637Q; 0

<400> 20740
Tyr Asn Pro Asn Ala Gly Val Thr Gln Arg
1               5                   10


<210> 20741
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; GLI1; R637Q; 0

<400> 20741
Tyr Asn Pro Asn Ala Gly Val Thr Gln Arg
1               5                   10


<210> 20742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; GLI1; R637Q; 0

<400> 20742
Tyr Asn Pro Asn Ala Gly Val Thr Gln Arg
1               5                   10


<210> 20743
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; ERBB2; S310Y; 0

<400> 20743
Tyr Asn Tyr Leu Ser Thr Asp Val Gly Tyr
1               5                   10


<210> 20744
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; DICER1; S1344L; 1

<400> 20744
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu
1               5                   10


<210> 20745
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; DICER1; S1344L; 0

<400> 20745
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu
1               5                   10


<210> 20746
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; DICER1; S1344L; 0

<400> 20746
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu
1               5                   10


<210> 20747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; DICER1; S1344L; 0

<400> 20747
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu
1               5                   10


<210> 20748
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; DICER1; S1344L; 0

<400> 20748
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu
1               5                   10


<210> 20749
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; DICER1; S1344L; 1

<400> 20749
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu
1               5                   10


<210> 20750
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; DICER1; S1344L; 1

<400> 20750
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu Tyr
1               5                   10


<210> 20751
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; DICER1; S1344L; 1

<400> 20751
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu Tyr
1               5                   10


<210> 20752
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<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*35:08; DICER1; S1344L; 0

<400> 20752
Tyr Pro Asp Ala His Glu Gly Arg Leu Leu Tyr
1               5                   10


<210> 20753
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PTEN; D92E; 0

<400> 20753
Tyr Pro Phe Glu Glu His Asn Pro
1               5


<210> 20754
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PTEN; D92E; 0

<400> 20754
Tyr Pro Phe Glu Glu His Asn Pro Pro
1               5


<210> 20755
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*35:02; PTEN; D92E; 0

<400> 20755
Tyr Pro Phe Glu Glu His Asn Pro Pro
1               5


<210> 20756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PTEN; D92E; 0

<400> 20756
Tyr Pro Phe Glu Glu His Asn Pro Pro
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<210> 20757
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PTEN; D92E; 0

<400> 20757
Tyr Pro Phe Glu Glu His Asn Pro Pro
1               5


<210> 20758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PTEN; D92E; 0

<400> 20758
Tyr Pro Phe Glu Glu His Asn Pro Pro
1               5


<210> 20759
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PTEN; D92E; 0

<400> 20759
Tyr Pro Phe Glu Glu His Asn Pro Pro Gln
1               5                   10


<210> 20760
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PTEN; D92E; 0

<400> 20760
Tyr Pro Phe Glu Glu His Asn Pro Pro Gln Leu

1 5 10

<210> 20761
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; PTEN; D92E; 0

<400> 20761
Tyr Pro Phe Glu Glu His Asn Pro Pro Gln Leu
1 5 10

<210> 20762
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; PTEN; D92E; 0

<400> 20762
Tyr Pro Phe Glu Glu His Asn Pro Pro Gln Leu
1 5 10

<210> 20763
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; PTEN; D92E; 0

<400> 20763
Tyr Pro Phe Glu Glu His Asn Pro Pro Gln Leu
1 5 10

<210> 20764
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PTEN; D92E; 0

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Tyr Pro Phe Glu Glu His Asn Pro Pro Gln Leu
1 5 10

<210> 20765
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PTEN; D92E; 0

<400> 20765
Tyr Pro Phe Glu Glu His Asn Pro Pro Gln Leu
1               5                   10


<210> 20766
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; PREX2; H1404Y; 0

<400> 20766
Tyr Pro Val Leu Phe Ala Gln Ala
1               5


<210> 20767
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PREX2; H1404Y; 0

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Tyr Pro Val Leu Phe Ala Gln Ala
1               5


<210> 20768
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:01; PREX2; H1404Y; 0

<400> 20768
Tyr Pro Val Leu Phe Ala Gln Ala
1               5


<210> 20769

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; PREX2; H1404Y; 0

<400> 20769
Tyr Pro Val Leu Phe Ala Gln Ala
1               5


<210> 20770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*56:01; PREX2; H1404Y; 0

<400> 20770
Tyr Pro Val Leu Phe Ala Gln Ala
1               5


<210> 20771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*07:02; PREX2; H1404Y; 1

<400> 20771
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*14:02; PREX2; H1404Y; 0

<400> 20772
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20773
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; PREX2; H1404Y; 0

<400> 20773
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20774
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<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; PREX2; H1404Y; 1

<400> 20774
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20775
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<220>
<223> Table A; HLA-B*35:03; PREX2; H1404Y; 0

<400> 20775
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; PREX2; H1404Y; 0

<400> 20776
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; PREX2; H1404Y; 1

<400> 20777
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; PREX2; H1404Y; 0

<400> 20778
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20779
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*55:02; PREX2; H1404Y; 0

<400> 20779
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20780
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*08:01; PREX2; H1404Y; 0

<400> 20780
Tyr Pro Val Leu Phe Ala Gln Ala Leu
1               5


<210> 20781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; TP53; C141Y; 0

<400> 20781
Tyr Pro Val Gln Leu Trp Val Asp Ser
1               5


<210> 20782
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:04; TP53; R110L; 0

<400> 20782
Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5


<210> 20783
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; CDH1; D254Y; 0

<400> 20783
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; CDH1; D254Y; 0

<400> 20784
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*32:01; CDH1; D254Y; 0

<400> 20785

Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; CDH1; D254Y; 0

<400> 20786
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; CDH1; D254Y; 1

<400> 20787
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; CDH1; D254Y; 0

<400> 20788
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20789
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:03; CDH1; D254Y; 0

<400> 20789
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5

<210> 20790
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*15:10; CDH1; D254Y; 0

<400> 20790
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20791
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; CDH1; D254Y; 1

<400> 20791
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20792
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*38:01; CDH1; D254Y; 0

<400> 20792
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20793
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-B*39:01; CDH1; D254Y; 0

<400> 20793
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5

<210> 20794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; CDH1; D254Y; 0

<400> 20794
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20795
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; CDH1; D254Y; 0

<400> 20795
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20796
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-C*02:02; CDH1; D254Y; 0

<400> 20796
Tyr Gln Asn Asp Asn Lys Pro Glu Phe
1               5


<210> 20797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; TP53; D281Y; 0

<400> 20797
Tyr Arg Arg Thr Glu Glu Glu Asn Leu
1               5


<210> 20798
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; TP53; D281Y; 0

<400> 20798
Tyr Arg Arg Thr Glu Glu Glu Asn Leu
1               5


<210> 20799
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; EGFR; A289T; 0

<400> 20799
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1               5


<210> 20800
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; EGFR; A289T; 0

<400> 20800
Tyr Ser Phe Gly Thr Thr Cys Val
1               5


<210> 20801
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; EGFR; A289T; 1

<400> 20801
Tyr Ser Phe Gly Thr Thr Cys Val
1               5


<210> 20802
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; EGFR; A289T; 0

<400> 20802
Tyr Ser Phe Gly Thr Thr Cys Val
1               5


<210> 20803
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; EGFR; A289T; 1

<400> 20803
Tyr Ser Phe Gly Thr Thr Cys Val
1               5


<210> 20804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; EGFR; A289T; 1

<400> 20804
Tyr Ser Phe Gly Thr Thr Cys Val Lys
1               5


<210> 20805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; EGFR; A289T; 0

<400> 20805
Tyr Ser Phe Gly Thr Thr Cys Val Lys
1               5


<210> 20806
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*11:01; EGFR; A289T; 1

<400> 20806
Tyr Ser Phe Gly Thr Thr Cys Val Lys
1               5


<210> 20807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; EGFR; A289T; 0

<400> 20807
Tyr Ser Phe Gly Thr Thr Cys Val Lys
1               5


<210> 20808
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; EGFR; A289T; 1

<400> 20808
Tyr Ser Phe Gly Thr Thr Cys Val Lys Lys
1               5                   10


<210> 20809
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:02; EGFR; A289T; 0

<400> 20809
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1               5                   10


<210> 20810
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; EGFR; A289T; 1

<400> 20810
Tyr Ser Phe Gly Thr Thr Cys Val Lys Lys
1               5                   10


<210> 20811
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; EGFR; A289T; 0

<400> 20811
Tyr Ser Phe Gly Thr Thr Cys Val Lys Lys
1               5                   10


<210> 20812
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; EGFR; A289V; 0

<400> 20812
Tyr Ser Phe Gly Val Thr Cys Val
1               5


<210> 20813
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; EGFR; A289V; 0

<400> 20813
Tyr Ser Phe Gly Val Thr Cys Val
1               5


<210> 20814
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:02; EGFR; A289V; 1

<400> 20814
Tyr Ser Phe Gly Val Thr Cys Val

1 5

<210> 20815
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; EGFR; A289V; 0

<400> 20815
Tyr Ser Phe Gly Val Thr Cys Val
1 5

<210> 20816
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*40:02; EGFR; A289V; 0

<400> 20816
Tyr Ser Phe Gly Val Thr Cys Val
1 5

<210> 20817
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*51:01; EGFR; A289V; 1

<400> 20817
Tyr Ser Phe Gly Val Thr Cys Val
1 5

<210> 20818
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; EGFR; A289V; 0

<400> 20818
Tyr Ser Phe Gly Val Thr Cys Val
1 5

<210> 20819
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*12:03; EGFR; A289V; 1

<400> 20819
Tyr Ser Phe Gly Val Thr Cys Val
1               5


<210> 20820
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*03:01; EGFR; A289V; 1

<400> 20820
Tyr Ser Phe Gly Val Thr Cys Val Lys
1               5


<210> 20821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; EGFR; A289V; 1

<400> 20821
Tyr Ser Phe Gly Val Thr Cys Val Lys
1               5


<210> 20822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; EGFR; A289V; 1

<400> 20822
Tyr Ser Phe Gly Val Thr Cys Val Lys
1               5


<210> 20823

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*11:01; EGFR; A289V; 1

<400> 20823
Tyr Ser Phe Gly Val Thr Cys Val Lys Lys
1               5                   10


<210> 20824
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; EGFR; A289V; 1

<400> 20824
Tyr Ser Phe Gly Val Thr Cys Val Lys Lys
1               5                   10


<210> 20825
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32Y; 0

<400> 20825
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20826
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; CTNNB1; D32Y; 0

<400> 20826
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20827
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; CTNNB1; D32Y; 0

<400> 20827
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20828
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32Y; 1

<400> 20828
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; CTNNB1; D32Y; 0

<400> 20829
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20830
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:06; CTNNB1; D32Y; 0

<400> 20830
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20831
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32Y; 0

<400> 20831
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20832
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; CTNNB1; D32Y; 0

<400> 20832
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20833
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; D32Y; 0

<400> 20833
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20834
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32Y; 0

<400> 20834
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20835
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; CTNNB1; D32Y; 1

<400> 20835
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 20836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; CTNNB1; D32Y; 0

<400> 20836
Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 20837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; CTNNB1; D32Y; 1

<400> 20837
Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 20838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; CTNNB1; D32Y; 1

<400> 20838
Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 20839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; CTNNB1; D32Y; 0

<400> 20839

Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 20840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:04; CTNNB1; D32Y; 0

<400> 20840
Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 20841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; CTNNB1; D32Y; 0

<400> 20841
Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 20842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:03; CTNNB1; D32Y; 0

<400> 20842
Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 20843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; A1CF; E34K; 0

<400> 20843
Tyr Ser Leu Val Gln Lys Asn Gly Gln Arg
1               5                   10

<210> 20844
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; L130F; 0

<400> 20844
Tyr Ser Pro Ala Phe Asn Lys Met
1               5


<210> 20845
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; L130F; 0

<400> 20845
Tyr Ser Pro Ala Phe Asn Lys Met
1               5


<210> 20846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; L130F; 0

<400> 20846
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 20847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; L130F; 0

<400> 20847
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5

<210> 20848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; TP53; L130F; 0

<400> 20848
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 20849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*06:02; TP53; L130F; 0

<400> 20849
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 20850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*12:03; TP53; L130F; 0

<400> 20850
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 20851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*14:02; TP53; L130F; 0

<400> 20851
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 20852
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; TP53; L130F; 0

<400> 20852
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 20853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; F134L; 0

<400> 20853
Tyr Ser Pro Ala Leu Asn Lys Met Leu
1               5


<210> 20854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; F134L; 0

<400> 20854
Tyr Ser Pro Ala Leu Asn Lys Met Leu
1               5


<210> 20855
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; K132N; 0

<400> 20855
Tyr Ser Pro Ala Leu Asn Asn Met
1               5


<210> 20856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; TP53; K132N; 0

<400> 20856
Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 20857
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*23:01; TP53; K132N; 0

<400> 20857
Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 20858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*24:02; TP53; K132N; 0

<400> 20858
Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 20859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; TP53; K132N; 0

<400> 20859
Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 20860
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-C*01:02; TP53; K132N; 0

<400> 20860
Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 20861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; TP53; K132R; 0

<400> 20861
Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5


<210> 20862
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*01:02; TP53; K132R; 0

<400> 20862
Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5


<210> 20863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*16:01; TP53; K132R; 0

<400> 20863
Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5


<210> 20864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; ATM; R337C; 0

<400> 20864
Tyr Ser Ser Gly Phe Cys Asn Ile Ala
1               5


<210> 20865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:04; EZH2; M667T; 0

<400> 20865
Tyr Thr Cys Ser Phe Leu Phe Asn Leu
1               5


<210> 20866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; EZH2; M667T; 0

<400> 20866
Tyr Thr Cys Ser Phe Leu Phe Asn Leu
1               5


<210> 20867
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; RAC1; P29L; 1

<400> 20867
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 20868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; RAC1; P29L; 0

<400> 20868
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr

1 5 10

<210> 20869
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; RAC1; P29L; 0

<400> 20869
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1 5 10

<210> 20870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; RAC1; P29L; 0

<400> 20870
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1 5 10

<210> 20871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; RAC1; P29L; 0

<400> 20871
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1 5 10

<210> 20872
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; RAC1; P29L; 0

<400> 20872
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1 5 10

<210> 20873
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; RAC1; P29L; 0

<400> 20873
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 20874
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; RAC1; P29L; 0

<400> 20874
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 20875
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:04; RAC1; P29L; 0

<400> 20875
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 20876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 20876
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 20877

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RAC1; P29L; 0

<400> 20877
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 20878
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<212> PRT
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<220>
<223> Table A; HLA-C*03:02; RAC1; P29L; 0

<400> 20878
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr
1               5                   10


<210> 20879
<211> 11
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; RAC1; P29L; 0

<400> 20879
Tyr Thr Thr Asn Ala Phe Leu Gly Glu Tyr Ile
1               5                   10


<210> 20880
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; RAC1; P29S; 1

<400> 20880
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20881
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; RAC1; P29S; 1

<400> 20881
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20882
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; RAC1; P29S; 1

<400> 20882
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20883
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; RAC1; P29S; 0

<400> 20883
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:01; RAC1; P29S; 0

<400> 20884
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20885
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*29:02; RAC1; P29S; 1

<400> 20885
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*30:02; RAC1; P29S; 0

<400> 20886
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20887
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*30:04; RAC1; P29S; 0

<400> 20887
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20888
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; RAC1; P29S; 1

<400> 20888
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20889
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:02; RAC1; P29S; 0

<400> 20889
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20890
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; RAC1; P29S; 0

<400> 20890
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20891
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; RAC1; P29S; 0

<400> 20891
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr
1               5                   10


<210> 20892
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RAC1; P29S; 0

<400> 20892
Tyr Thr Thr Asn Ala Phe Ser Gly Glu Tyr Ile
1               5                   10


<210> 20893
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; K335I; 0

<400> 20893

Tyr Thr Tyr Glu Ile Leu Leu Trp
1               5


<210> 20894
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*57:01; CTNNB1; K335I; 1

<400> 20894
Tyr Thr Tyr Glu Ile Leu Leu Trp
1               5


<210> 20895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; K335I; 0

<400> 20895
Tyr Thr Tyr Glu Ile Leu Leu Trp Thr
1               5


<210> 20896
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; CTNNB1; K335I; 0

<400> 20896
Tyr Thr Tyr Glu Ile Leu Leu Trp Thr Thr
1               5                   10


<210> 20897
<211> 8
<212> PRT
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<220>
<223> Table A; HLA-A*33:03; SF3B1; R625C; 0

<400> 20897
Tyr Val Cys Asn Thr Thr Ala Arg
1               5

<210> 20898
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; R625C; 0

<400> 20898
Tyr Val Cys Asn Thr Thr Ala Arg
1               5


<210> 20899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R625C; 0

<400> 20899
Tyr Val Cys Asn Thr Thr Ala Arg Ala
1               5


<210> 20900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R625C; 0

<400> 20900
Tyr Val Cys Asn Thr Thr Ala Arg Ala
1               5


<210> 20901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; SF3B1; R625C; 0

<400> 20901
Tyr Val Cys Asn Thr Thr Ala Arg Ala Phe
1               5                   10

<210> 20902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SMAD4; R361C; 0

<400> 20902
Tyr Val Asp Pro Ser Gly Gly Asp Cys
1               5


<210> 20903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; SMAD4; R361C; 0

<400> 20903
Tyr Val Asp Pro Ser Gly Gly Asp Cys
1               5


<210> 20904
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; SMAD4; R361C; 1

<400> 20904
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20905
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*02:05; SMAD4; R361C; 0

<400> 20905
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20906
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; SMAD4; R361C; 0

<400> 20906
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20907
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SMAD4; R361C; 0

<400> 20907
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20908
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; SMAD4; R361C; 0

<400> 20908
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20909
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; SMAD4; R361C; 0

<400> 20909
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20910
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; SMAD4; R361C; 0

<400> 20910
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20911
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; SMAD4; R361C; 0

<400> 20911
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20912
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SMAD4; R361C; 1

<400> 20912
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SMAD4; R361C; 0

<400> 20913
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20914
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-B*15:13; SMAD4; R361C; 0

<400> 20914
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20915
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SMAD4; R361C; 1

<400> 20915
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20916
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; SMAD4; R361C; 0

<400> 20916
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20917
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SMAD4; R361C; 0

<400> 20917
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; SMAD4; R361C; 0

<400> 20918
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20919
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; SMAD4; R361C; 0

<400> 20919
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20920
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SMAD4; R361C; 0

<400> 20920
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20921
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMAD4; R361C; 0

<400> 20921
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20922
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SMAD4; R361C; 0

<400> 20922
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe

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<210> 20923
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; SMAD4; R361C; 0

<400> 20923
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 20924
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SMAD4; R361C; 0

<400> 20924
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 20925
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; SMAD4; R361C; 0

<400> 20925
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 20926
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; SMAD4; R361C; 0

<400> 20926
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 20927
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:03; SMAD4; R361C; 1

<400> 20927
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20928
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; SMAD4; R361C; 1

<400> 20928
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20929
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; SMAD4; R361C; 1

<400> 20929
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20930
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SMAD4; R361C; 0

<400> 20930
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20931

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; SMAD4; R361C; 0

<400> 20931
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20932
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; SMAD4; R361C; 0

<400> 20932
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 20933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMAD4; R361H; 0

<400> 20933
Tyr Val Asp Pro Ser Gly Gly Asp His
1               5


<210> 20934
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*01:01; SMAD4; R361H; 1

<400> 20934
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20935
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SMAD4; R361H; 0

<400> 20935
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; SMAD4; R361H; 0

<400> 20936
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20937
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; SMAD4; R361H; 0

<400> 20937
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20938
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:02; SMAD4; R361H; 0

<400> 20938
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20939
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*13:01; SMAD4; R361H; 0

<400> 20939
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SMAD4; R361H; 1

<400> 20940
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20941
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SMAD4; R361H; 0

<400> 20941
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20942
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:13; SMAD4; R361H; 0

<400> 20942
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20943
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:01; SMAD4; R361H; 1

<400> 20943
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; SMAD4; R361H; 0

<400> 20944
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20945
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; SMAD4; R361H; 0

<400> 20945
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:08; SMAD4; R361H; 0

<400> 20946
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20947
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:12; SMAD4; R361H; 0

<400> 20947

Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20948
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; SMAD4; R361H; 0

<400> 20948
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20949
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*39:01; SMAD4; R361H; 0

<400> 20949
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SMAD4; R361H; 0

<400> 20950
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20951
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*58:01; SMAD4; R361H; 0

<400> 20951
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10

<210> 20952
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; SMAD4; R361H; 1

<400> 20952
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20953
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:02; SMAD4; R361H; 0

<400> 20953
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20954
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; SMAD4; R361H; 1

<400> 20954
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20955
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; SMAD4; R361H; 1

<400> 20955
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10

<210> 20956
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*05:01; SMAD4; R361H; 1

<400> 20956
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SMAD4; R361H; 0

<400> 20957
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20958
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; SMAD4; R361H; 1

<400> 20958
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*17:01; SMAD4; R361H; 0

<400> 20959
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 20960
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; SMAD4; R361H; 1

<400> 20960
Tyr Val Asp Pro Ser Gly Gly Asp His Phe Cys
1               5                   10


<210> 20961
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; SMAD4; R361H; 0

<400> 20961
Tyr Val Asp Pro Ser Gly Gly Asp His Phe Cys
1               5                   10


<210> 20962
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; EZH2; E745K; 1

<400> 20962
Tyr Val Gly Ile Lys Arg Glu Met
1               5


<210> 20963
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*03:01; SF3B1; R625H; 1

<400> 20963
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20964
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:01; SF3B1; R625H; 0

<400> 20964
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20965
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; SF3B1; R625H; 0

<400> 20965
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20966
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*31:01; SF3B1; R625H; 0

<400> 20966
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20967
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:01; SF3B1; R625H; 0

<400> 20967
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20968
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> Table A; HLA-A*33:03; SF3B1; R625H; 0

<400> 20968
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20969
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:01; SF3B1; R625H; 0

<400> 20969
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20970
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R625H; 0

<400> 20970
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20971
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; SF3B1; R625H; 1

<400> 20971
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20972
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*27:05; SF3B1; R625H; 0

<400> 20972
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20973
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*46:01; SF3B1; R625H; 0

<400> 20973
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20974
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; SF3B1; R625H; 0

<400> 20974
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20975
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R625H; 0

<400> 20975
Tyr Val His Asn Thr Thr Ala Arg
1               5


<210> 20976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; SF3B1; R625H; 0

<400> 20976
Tyr Val His Asn Thr Thr Ala Arg Ala

1 5

<210> 20977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; SF3B1; R625H; 0

<400> 20977
Tyr Val His Asn Thr Thr Ala Arg Ala
1 5

<210> 20978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; SF3B1; R625H; 0

<400> 20978
Tyr Val His Asn Thr Thr Ala Arg Ala
1 5

<210> 20979
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; SF3B1; R625H; 0

<400> 20979
Tyr Val His Asn Thr Thr Ala Arg Ala
1 5

<210> 20980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R625H; 0

<400> 20980
Tyr Val His Asn Thr Thr Ala Arg Ala
1 5

<210> 20981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*50:01; SF3B1; R625H; 0

<400> 20981
Tyr Val His Asn Thr Thr Ala Arg Ala
1               5


<210> 20982
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*54:01; SF3B1; R625H; 0

<400> 20982
Tyr Val His Asn Thr Thr Ala Arg Ala
1               5


<210> 20983
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*25:01; SF3B1; R625H; 0

<400> 20983
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20984
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*26:01; SF3B1; R625H; 0

<400> 20984
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20985

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*26:03; SF3B1; R625H; 0

<400> 20985
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20986
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:01; SF3B1; R625H; 0

<400> 20986
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20987
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; SF3B1; R625H; 0

<400> 20987
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20988
<211> 10
<212> PRT
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<220>
<223> Table A; HLA-B*07:02; SF3B1; R625H; 1

<400> 20988
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20989
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> Table A; HLA-B*08:01; SF3B1; R625H; 1

<400> 20989
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20990
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:01; SF3B1; R625H; 1

<400> 20990
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20991
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*15:02; SF3B1; R625H; 0

<400> 20991
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20992
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<212> PRT
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<220>
<223> Table A; HLA-B*46:01; SF3B1; R625H; 0

<400> 20992
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20993
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<212> PRT
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<220>
<223> Table A; HLA-B*57:01; SF3B1; R625H; 0

<400> 20993
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20994
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<212> PRT
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<220>
<223> Table A; HLA-C*01:02; SF3B1; R625H; 0

<400> 20994
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20995
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*02:02; SF3B1; R625H; 0

<400> 20995
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20996
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*03:04; SF3B1; R625H; 1

<400> 20996
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20997
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:01; SF3B1; R625H; 0

<400> 20997
Tyr Val His Asn Thr Thr Ala Arg Ala Phe
1               5                   10


<210> 20998
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; SF3B1; R625H; 0

<400> 20998
Tyr Val His Asn Thr Thr Ala Arg Ala Phe Ala
1               5                   10


<210> 20999
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<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:03; PIK3CA; N345K; 0

<400> 20999
Tyr Val Lys Leu Asn Ile Arg Asp Ile
1               5


<210> 21000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:01; RHOA; Y42C; 1

<400> 21000
Tyr Val Pro Thr Val Phe Glu Asn Cys
1               5


<210> 21001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; RHOA; Y42C; 0

<400> 21001

Tyr Val Pro Thr Val Phe Glu Asn Cys
1 5

<210> 21002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:06; RHOA; Y42C; 0

<400> 21002
Tyr Val Pro Thr Val Phe Glu Asn Cys
1 5

<210> 21003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:07; RHOA; Y42C; 0

<400> 21003
Tyr Val Pro Thr Val Phe Glu Asn Cys
1 5

<210> 21004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:08; RHOA; Y42C; 0

<400> 21004
Tyr Val Pro Thr Val Phe Glu Asn Cys
1 5

<210> 21005
<211> 9
<212> PRT
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<220>
<223> Table A; HLA-A*68:02; RHOA; Y42C; 0

<400> 21005
Tyr Val Pro Thr Val Phe Glu Asn Cys
1 5

<210> 21006
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*02:05; RHOA; Y42C; 0

<400> 21006
Tyr Val Pro Thr Val Phe Glu Asn Cys Val
1               5                   10


<210> 21007
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*68:02; RHOA; Y42C; 0

<400> 21007
Tyr Val Pro Thr Val Phe Glu Asn Cys Val
1               5                   10


<210> 21008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-A*33:03; MAPK1; E322K; 0

<400> 21008
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5


<210> 21009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:02; MAPK1; E322K; 0

<400> 21009
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5

<210> 21010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*35:03; MAPK1; E322K; 1

<400> 21010
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5


<210> 21011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*38:01; MAPK1; E322K; 1

<400> 21011
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5


<210> 21012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-B*48:01; MAPK1; E322K; 0

<400> 21012
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5


<210> 21013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*04:01; MAPK1; E322K; 1

<400> 21013
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5


<210> 21014
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*07:02; MAPK1; E322K; 1

<400> 21014
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5


<210> 21015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> Table A; HLA-C*08:02; MAPK1; E322K; 1

<400> 21015
Tyr Tyr Asp Pro Ser Asp Lys Pro Ile
1               5


<210> 21016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ACVR1_p.S290L; A2902

<400> 21016
His Tyr His Glu Met Gly Leu Leu Tyr
1               5


<210> 21017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ACVR1_p.S290L; B1801

<400> 21017
His Glu Met Gly Leu Leu Tyr Asp Tyr
1               5


<210> 21018
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ACVR1_p.S290L; A0201

<400> 21018
Leu Leu Tyr Asp Tyr Leu Gln Leu Thr Thr Leu
1               5                   10


<210> 21019
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT2_p.D416N; A0301

<400> 21019
Ser Ile Asn Trp Gln Asn Val Val Gln Lys
1               5                   10


<210> 21020
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT2_p.D416N; A1101

<400> 21020
Ser Ile Asn Trp Gln Asn Val Val Gln Lys
1               5                   10


<210> 21021
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT2_p.D416N; A6801

<400> 21021
Leu Ser Ile Asn Trp Gln Asn Val Val Gln Lys
1               5                   10


<210> 21022
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; AKT2_p.D416N; A1101

<400> 21022
Leu Ser Ile Asn Trp Gln Asn Val Val Gln Lys
1               5                   10


<210> 21023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT2_p.D416N; A1101

<400> 21023
Ile Asn Trp Gln Asn Val Val Gln Lys
1               5


<210> 21024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; A0101

<400> 21024
Phe Ser Glu Asp Arg Thr Ser Phe Tyr
1               5


<210> 21025
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; B1501

<400> 21025
Arg Val Phe Ser Glu Asp Arg Thr Ser Phe
1               5                   10


<210> 21026
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; B5701

<400> 21026
Arg Val Phe Ser Glu Asp Arg Thr Ser Phe
1               5                   10


<210> 21027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; A3201

<400> 21027
Arg Val Phe Ser Glu Asp Arg Thr Ser Phe
1               5                   10


<210> 21028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; A2402

<400> 21028
Val Phe Ser Glu Asp Arg Thr Ser Phe
1               5


<210> 21029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; A2301

<400> 21029
Val Phe Ser Glu Asp Arg Thr Ser Phe
1               5


<210> 21030
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; A2902

<400> 21030
Val Phe Ser Glu Asp Arg Thr Ser Phe Tyr

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<210> 21031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; B1501

<400> 21031
Val Phe Ser Glu Asp Arg Thr Ser Phe
1 5

<210> 21032
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; A0301

<400> 21032
Arg Val Phe Ser Glu Asp Arg Thr Ser Phe Tyr
1 5 10

<210> 21033
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; B1801

<400> 21033
Ser Glu Asp Arg Thr Ser Phe Tyr
1 5

<210> 21034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; C1601

<400> 21034
Phe Ser Glu Asp Arg Thr Ser Phe Tyr
1 5

<210> 21035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; A6801

<400> 21035
Thr Ser Phe Tyr Gly Ala Glu Ile Val Ser Ala
1               5                   10


<210> 21036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; C1601

<400> 21036
Val Phe Ser Glu Asp Arg Thr Ser Phe
1               5


<210> 21037
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; C1601

<400> 21037
Phe Ser Glu Asp Arg Thr Ser Phe
1               5


<210> 21038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AKT3_p.R249S; C0202

<400> 21038
Phe Ser Glu Asp Arg Thr Ser Phe Tyr
1               5


<210> 21039

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.A1280V; B2705

<400> 21039
Ala Arg Asp Ile Tyr Arg Val Ser Tyr
1               5


<210> 21040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.A1280V; A0201

<400> 21040
Gly Met Ala Arg Asp Ile Tyr Arg Val
1               5


<210> 21041
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.C154F; B1801

<400> 21041
Glu Glu Ala Ile Leu Glu Gly Phe
1               5


<210> 21042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.C154F; B4001

<400> 21042
Gly Glu Glu Ala Ile Leu Glu Gly Phe
1               5


<210> 21043
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.C154F; C0304

<400> 21043
Phe Val Gly Pro Pro Gly Glu Ala Ala
1               5


<210> 21044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.C154F; A0201

<400> 21044
Phe Val Gly Pro Pro Gly Glu Ala Ala
1               5


<210> 21045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.G843R; C1601

<400> 21045
Ala Ala Arg Gly Gly Gly Arg Ala Tyr
1               5


<210> 21046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.G843R; B1501

<400> 21046
Ala Ala Arg Gly Gly Gly Arg Ala Tyr
1               5


<210> 21047
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; ALK_p.P1398L; A2601

<400> 21047
Asp Val Ile Asn Thr Ala Leu Leu Ile Glu Tyr
1               5                   10


<210> 21048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.P1398L; A0201

<400> 21048
Leu Leu Ile Glu Tyr Gly Pro Leu Val
1               5


<210> 21049
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; ALK_p.R1181C; B1302

<400> 21049
His Gln Asn Ile Val Cys Cys Ile
1               5


<210> 21050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.R1181C; B3801

<400> 21050
Asn His Gln Asn Ile Val Cys Cys Ile
1               5


<210> 21051
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ALK_p.R41L; B3501

<400> 21051
Gln Pro Leu Glu Pro Leu Ser Tyr
1               5


<210> 21052
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1296Qfs*9; B1302

<400> 21052
Asn Gln Thr Thr Gln Glu Gln Ile
1               5


<210> 21053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1296Qfs*9; C1502

<400> 21053
Thr Thr Gln Glu Gln Ile Leu Leu Ile
1               5


<210> 21054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1296Qfs*9; B3801

<400> 21054
Asn Gln Thr Thr Gln Glu Gln Ile Leu
1               5


<210> 21055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Cfs*22; C1502

<400> 21055

Tyr Ser Arg Trp Ile Phe Leu Phe Ile
1               5


<210> 21056
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Cfs*22; B2702

<400> 21056
Phe Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5                   10


<210> 21057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Cfs*22; A2301

<400> 21057
Lys Tyr Ser Arg Trp Ile Phe Leu Phe
1               5


<210> 21058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Cfs*22; A3101

<400> 21058
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Cfs*22; A6801

<400> 21059
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5

<210> 21060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Cfs*22; A1101

<400> 21060
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; B3701

<400> 21061
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; A0201

<400> 21062
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; B4002

<400> 21063
Met Asp Phe Leu Val His Pro Ala
1               5

<210> 21064
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; B5001

<400> 21064
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; C1402

<400> 21065
His Phe Pro Arg Lys Val Leu Gln Met
1               5


<210> 21066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; A6802

<400> 21066
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; B1801

<400> 21067
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21068
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; B5001

<400> 21068
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21069
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.A1492Pfs*15; A3303

<400> 21069
Asp Ala Asp Thr Leu Leu His Phe Pro Arg
1               5                   10


<210> 21070
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D1486Ifs*21; A0201

<400> 21070
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21071
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D1486Ifs*21; B3501

<400> 21071
Leu Pro Asp Ala Ile Leu Tyr Tyr
1               5


<210> 21072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D1486Ifs*21; C0602

<400> 21072
Leu Tyr Tyr Ile Leu Pro Arg Lys Val
1               5


<210> 21073
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D1486Ifs*21; A2902

<400> 21073
Val Leu Pro Asp Ala Ile Leu Tyr Tyr
1               5


<210> 21074
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D1486Ifs*21; B1801

<400> 21074
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21075
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D1486Ifs*21; A2301

<400> 21075
Tyr Tyr Ile Leu Pro Arg Lys Val Leu
1               5


<210> 21076
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; APC_p.D1562Gfs*5; A3101

<400> 21076
Lys Thr Ile Asp Ser Glu Lys Gly Pro Ile Arg
1               5                   10


<210> 21077
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D1562Gfs*5; A1101

<400> 21077
Lys Thr Ile Asp Ser Glu Lys Gly Pro Ile Arg
1               5                   10


<210> 21078
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D1562Gfs*5; A6801

<400> 21078
Lys Thr Ile Asp Ser Glu Lys Gly Pro Ile Arg
1               5                   10


<210> 21079
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D1562Gfs*5; B5701

<400> 21079
Lys Thr Ile Asp Ser Glu Lys Gly Pro Ile Arg
1               5                   10


<210> 21080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D1562Gfs*5; C0802

<400> 21080
Thr Ile Asp Ser Glu Lys Gly Pro Ile
1               5


<210> 21081
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D170Vfs*4; B5701

<400> 21081
Leu Thr Lys Arg Ile Val Phe Leu
1               5


<210> 21082
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D170Vfs*4; C1203

<400> 21082
Leu Thr Lys Arg Ile Val Phe Leu
1               5


<210> 21083
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; A1101

<400> 21083
Gly Ser Leu Val Leu Val Leu Lys Lys
1               5


<210> 21084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; B5701

<400> 21084
Leu Val Leu Lys Lys Ile Glu Val Trp

1 5

<210> 21085
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; A1101

<400> 21085
Gly Ser Leu Val Leu Val Leu Lys
1 5

<210> 21086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; C0602

<400> 21086
Ser Arg Gly Ser Leu Val Leu Val Leu
1 5

<210> 21087
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; C0701

<400> 21087
Ser Arg Gly Ser Leu Val Leu Val Leu
1 5

<210> 21088
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; B5701

<400> 21088
Val Leu Lys Lys Ile Glu Val Trp
1 5

<210> 21089
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; B2705

<400> 21089
Ser Arg Gly Ser Leu Val Leu Val Leu
1               5


<210> 21090
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; C1502

<400> 21090
Ser Ser Ser Arg Gly Ser Leu Val Leu
1               5


<210> 21091
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; A0301

<400> 21091
Ser Ser Arg Gly Ser Leu Val Leu Val Leu Lys
1               5                   10


<210> 21092
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.D842Vfs*18; A0301

<400> 21092
Gly Ser Leu Val Leu Val Leu Lys Lys
1               5


<210> 21093

<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*12; A3303

<400> 21093
Asn Thr Leu Gln Ile Ala Glu Ile Lys Lys Arg
1               5                   10


<210> 21094
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*12; A6801

<400> 21094
Asn Thr Leu Gln Ile Ala Glu Ile Lys Lys
1               5                   10


<210> 21095
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*12; B2705

<400> 21095
Lys Arg Leu Glu Leu Gly Gln Leu Lys
1               5


<210> 21096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*12; B4002

<400> 21096
Ala Glu Ile Lys Lys Arg Leu Glu Leu
1               5


<210> 21097
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*12; A1101

<400> 21097
Asn Thr Leu Gln Ile Ala Glu Ile Lys Lys
1               5                   10


<210> 21098
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*12; A6802

<400> 21098
Gln Ile Ala Glu Ile Lys Lys Arg Leu
1               5


<210> 21099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*5; B5701

<400> 21099
Gln Ile Ala Glu Ile Lys Lys Asp Trp
1               5


<210> 21100
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*5; A6801

<400> 21100
Asn Thr Leu Gln Ile Ala Glu Ile Lys Lys
1               5                   10


<210> 21101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1309Kfs*5; B4403

<400> 21101
Gln Ile Ala Glu Ile Lys Lys Asp Trp
1               5


<210> 21102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1309Rfs*6; A6801

<400> 21102
Asn Thr Leu Gln Ile Ala Glu Ile Lys Arg
1               5                   10


<210> 21103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A0201

<400> 21103
Cys Leu Ala Asp Val Leu Leu Ser Val
1               5


<210> 21104
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B5701

<400> 21104
Ala Pro Phe Arg Val Asn His Ala Val Glu Trp
1               5                   10


<210> 21105
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B5101

<400> 21105
Asp Val Leu Leu Ser Val His Leu Ile
1               5


<210> 21106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B4901

<400> 21106
Gln Glu Arg Asn Leu Pro Pro Lys Val
1               5


<210> 21107
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B1302

<400> 21107
Cys Leu Ala Asp Val Leu Leu Ser Val
1               5


<210> 21108
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A3001

<400> 21108
Gln Glu Arg Asn Leu Pro Pro Lys Val
1               5


<210> 21109
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A6802

<400> 21109

Ser Val His Leu Ile Val Leu Arg Val
1               5


<210> 21110
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A3101

<400> 21110
Val Val Arg Leu Pro Ala Pro Phe Arg
1               5


<210> 21111
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A3101

<400> 21111
Lys Ala Val Asp Phe Leu Gln Glu Arg
1               5


<210> 21112
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; C1502

<400> 21112
Ser Val His Leu Ile Val Leu Arg Val
1               5


<210> 21113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; C0602

<400> 21113
Phe Arg Val Asn His Ala Val Glu Trp
1               5

<210> 21114
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B5701

<400> 21114
Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21115
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B3701

<400> 21115
Ala Asp Val Leu Leu Ser Val His Leu
1               5


<210> 21116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B4002

<400> 21116
Ala Asp Val Leu Leu Ser Val His Leu
1               5


<210> 21117
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; C0602

<400> 21117
Val Arg Leu Pro Ala Pro Phe Arg Val
1               5

<210> 21118
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B0702

<400> 21118
His Pro Lys Val His Leu Asn Thr Met
1               5


<210> 21119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B4002

<400> 21119
Gln Glu Arg Asn Leu Pro Pro Lys Val
1               5


<210> 21120
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B1302

<400> 21120
Ser Val His Leu Ile Val Leu Arg Val
1               5


<210> 21121
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B4002

<400> 21121
Gln Glu Arg Asn Leu Pro Pro Lys Val Val Leu
1               5                   10


<210> 21122
<211> 9

<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A0205

<400> 21122
Cys Leu Ala Asp Val Leu Leu Ser Val
1               5


<210> 21123
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A6802

<400> 21123
Asp Val Leu Leu Ser Val His Leu Ile
1               5


<210> 21124
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B5701

<400> 21124
Arg Val Val Arg Leu Pro Ala Pro Phe
1               5


<210> 21125
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B0801

<400> 21125
His Pro Lys Val His Leu Asn Thr Met
1               5


<210> 21126
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B0801

<400> 21126
Asn Leu Pro Pro Lys Val Val Leu
1               5


<210> 21127
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A3101

<400> 21127
Ser Val His Leu Ile Val Leu Arg
1               5


<210> 21128
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B5701

<400> 21128
Lys Ala Val Asp Phe Leu Gln Glu Arg
1               5


<210> 21129
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A3101

<400> 21129
Arg Asn Leu Pro Pro Lys Val Val Leu Arg
1               5                   10


<210> 21130
<211> 9
<212> PRT
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<220>

<223> AACR GENIE Results; APC_p.E1353Dfs*62; A3303

<400> 21130
Lys Ala Val Asp Phe Leu Gln Glu Arg
1               5


<210> 21131
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; C0702

<400> 21131
Phe Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21132
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A0301

<400> 21132
Val Val Arg Leu Pro Ala Pro Phe Arg
1               5


<210> 21133
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A0201

<400> 21133
Phe Leu Gln Glu Arg Asn Leu Pro Pro
1               5


<210> 21134
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A3303

<400> 21134
Ser Val His Leu Ile Val Leu Arg
1               5


<210> 21135
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; A6801

<400> 21135
Lys Ala Val Asp Phe Leu Gln Glu Arg
1               5


<210> 21136
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B2705

<400> 21136
Phe Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21137
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Dfs*62; B5501

<400> 21137
Ala Pro Phe Arg Val Asn His Ala
1               5


<210> 21138
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B4403

<400> 21138
Ser Glu Ile Ser Leu Gln Lys Trp

1 5

<210> 21139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; C1402

<400> 21139
Val Phe Phe Arg Ser Glu Ile Ser Leu
1 5

<210> 21140
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B4402

<400> 21140
Ser Glu Ile Ser Leu Gln Lys Trp
1 5

<210> 21141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B5701

<400> 21141
Arg Ser Glu Ile Ser Leu Gln Lys Trp
1 5

<210> 21142
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B5801

<400> 21142
Arg Ser Glu Ile Ser Leu Gln Lys Trp
1 5

<210> 21143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B2705

<400> 21143
Phe Arg Ser Glu Ile Ser Leu Gln Lys
1               5


<210> 21144
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; A2301

<400> 21144
Ser Glu Ile Ser Leu Gln Lys Trp
1               5


<210> 21145
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B4002

<400> 21145
Ser Glu Ile Ser Leu Gln Lys Trp
1               5


<210> 21146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B2702

<400> 21146
Phe Arg Ser Glu Ile Ser Leu Gln Lys
1               5


<210> 21147

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1353Vfs*21; B5801

<400> 21147
Ser Glu Ile Ser Leu Gln Lys Trp
1               5


<210> 21148
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1464Vfs*8; B0702

<400> 21148
Ala Pro Thr Ala Glu Lys Arg Val Asp Leu
1               5                   10


<210> 21149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A3301

<400> 21149
Asp Thr Leu Leu His Phe Ala Thr Lys
1               5


<210> 21150
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A0201

<400> 21150
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21151
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B3701

<400> 21151
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21152
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A3303

<400> 21152
Asp Thr Leu Leu His Phe Ala Thr Lys
1               5


<210> 21153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B5701

<400> 21153
Ala Thr Lys Val Leu Gln Met Asp Phe
1               5


<210> 21154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; C1402

<400> 21154
His Phe Ala Thr Lys Val Leu Gln Met
1               5


<210> 21155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A0205

<400> 21155
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B5001

<400> 21156
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21157
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B4002

<400> 21157
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21158
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A6802

<400> 21158
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A6801

<400> 21159
Asp Thr Leu Leu His Phe Ala Thr Lys
1               5


<210> 21160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A1101

<400> 21160
Asp Thr Leu Leu His Phe Ala Thr Lys
1               5


<210> 21161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B5001

<400> 21161
Leu Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10


<210> 21162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B1501

<400> 21162
Ala Thr Lys Val Leu Gln Met Asp Phe
1               5


<210> 21163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; A0201

<400> 21163

Leu Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10


<210> 21164
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B1801

<400> 21164
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21165
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Kfs*13; B5001

<400> 21165
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21166
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Vfs*12; A0201

<400> 21166
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E1494Vfs*12; B5101

<400> 21167
Asp Thr Leu Leu His Phe Ala Thr Val
1               5

<210> 21168
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Vfs*12; B1801

<400> 21168
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21169
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Vfs*12; A3101

<400> 21169
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21170
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Vfs*12; B3501

<400> 21170
Phe Ala Thr Val Leu Gln Met Asp Phe
1               5


<210> 21171
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E1494Vfs*12; C1601

<400> 21171
Phe Ala Thr Val Leu Gln Met Asp Phe
1               5

<210> 21172
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A3101

<400> 21172
Thr Val Lys Pro Val Gly Ser Gly Arg
1               5


<210> 21173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A6801

<400> 21173
Thr Val Lys Pro Val Gly Ser Gly Arg
1               5


<210> 21174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; B1302

<400> 21174
Ile Gln Cys Gln Leu Leu Leu Asn Ile
1               5


<210> 21175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; B0702

<400> 21175
Lys Pro Val Gly Ser Gly Arg Lys Leu
1               5


<210> 21176
<211> 8

<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; B5101

<400> 21176
Tyr Ala Leu Thr Val Lys Pro Val
1               5


<210> 21177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A6801

<400> 21177
Leu Thr Val Lys Pro Val Gly Ser Gly Arg
1               5                   10


<210> 21178
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; C0602

<400> 21178
Ile Arg Ser Val Leu Leu Cys Val Phe
1               5


<210> 21179
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A0301

<400> 21179
Thr Val Lys Pro Val Gly Ser Gly Arg
1               5


<210> 21180
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; B2705

<400> 21180
Thr Arg Thr Lys Ile Gln Cys Gln Leu
1               5


<210> 21181
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A0301

<400> 21181
Thr Val Lys Pro Val Gly Ser Gly Arg Lys
1               5                   10


<210> 21182
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; B0801

<400> 21182
Leu Leu Asn Ile Arg Ser Val Leu
1               5


<210> 21183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; C0701

<400> 21183
Arg Arg Lys Ser Glu Ser Phe Ile Phe
1               5


<210> 21184
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; APC_p.E403Kfs*51; A0201

<400> 21184
Leu Leu Leu Asn Ile Arg Ser Val Leu Leu
1               5                   10


<210> 21185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A1101

<400> 21185
Thr Val Lys Pro Val Gly Ser Gly Arg
1               5


<210> 21186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A3001

<400> 21186
Thr Val Lys Pro Val Gly Ser Gly Arg
1               5


<210> 21187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; B5701

<400> 21187
Lys Ser Glu Ser Phe Ile Phe Trp
1               5


<210> 21188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; C0702

<400> 21188
Ile Arg Ser Val Leu Leu Cys Val Phe
1               5


<210> 21189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A3101

<400> 21189
Leu Thr Val Lys Pro Val Gly Ser Gly Arg
1               5                   10


<210> 21190
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.E403Kfs*51; A1101

<400> 21190
Leu Thr Val Lys Pro Val Gly Ser Gly Arg
1               5                   10


<210> 21191
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; B5701

<400> 21191
Ala Pro Phe Arg Val Asn His Ala Val Glu Trp
1               5                   10


<210> 21192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; A3101

<400> 21192
Val Val Arg Leu Pro Ala Pro Phe Arg

1 5

<210> 21193
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; C0602

<400> 21193
Phe Arg Val Asn His Ala Val Glu Trp
1 5

<210> 21194
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; B5701

<400> 21194
Arg Val Asn His Ala Val Glu Trp
1 5

<210> 21195
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; A3101

<400> 21195
Ser Ser Leu Asp Ser Leu Arg Val Val Arg
1 5 10

<210> 21196
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; C1502

<400> 21196
Ser Ser Leu Asp Ser Leu Arg Val Val
1 5

<210> 21197
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; B5701

<400> 21197
Arg Val Val Arg Leu Pro Ala Pro Phe
1               5


<210> 21198
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; C0602

<400> 21198
Val Arg Leu Pro Ala Pro Phe Arg Val
1               5


<210> 21199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; C0702

<400> 21199
Phe Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; C1203

<400> 21200
Ser Ser Leu Asp Ser Leu Arg Val Val
1               5


<210> 21201

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; A6801

<400> 21201
Ser Val Ser Ser Leu Asp Ser Leu Arg
1               5


<210> 21202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; A3101

<400> 21202
Ser Leu Asp Ser Leu Arg Val Val Arg
1               5


<210> 21203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; A0301

<400> 21203
Val Val Arg Leu Pro Ala Pro Phe Arg
1               5


<210> 21204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; B2705

<400> 21204
Phe Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21205
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1396Lfs*19; C0602

<400> 21205
Ser Ser Leu Asp Ser Leu Arg Val Val
1               5


<210> 21206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1491Lfs*16; A0201

<400> 21206
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21207
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1491Lfs*16; B3503

<400> 21207
Leu Pro Asp Ala Asp Thr Leu Leu His Leu
1               5                   10


<210> 21208
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1491Lfs*16; B4002

<400> 21208
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21209
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1491Lfs*16; B5101

<400> 21209
Asp Ala Asp Thr Leu Leu His Leu
1               5


<210> 21210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1491Lfs*16; A6802

<400> 21210
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21211
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1491Lfs*16; B2702

<400> 21211
Asp Ala Asp Thr Leu Leu His Leu Pro Arg
1               5                   10


<210> 21212
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.F1491Lfs*16; B1801

<400> 21212
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.G1428Dfs*45; B1501

<400> 21213
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21214
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.G1428Dfs*45; A2301

<400> 21214
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21215
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.G1428Dfs*45; A2301

<400> 21215
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21216
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.G1428Dfs*45; B4403

<400> 21216
Ala Glu Val Lys His Leu His His Leu
1               5


<210> 21217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.G1428Dfs*45; B0702

<400> 21217

Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; B3503

<400> 21218
Leu Pro Asp Ala Asp Thr Leu Leu Leu
1               5


<210> 21219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; A0201

<400> 21219
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21220
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; B4002

<400> 21220
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21221
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; A6802

<400> 21221
Gln Met Asp Phe Leu Val His Pro Ala
1               5

<210> 21222
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; B3501

<400> 21222
Leu Pro Asp Ala Asp Thr Leu Leu Leu
1               5


<210> 21223
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; B2702

<400> 21223
Asp Ala Asp Thr Leu Leu Leu Leu Pro Arg
1               5                   10


<210> 21224
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; B3503

<400> 21224
Leu Pro Asp Ala Asp Thr Leu Leu Leu Leu
1               5                   10


<210> 21225
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.H1490Lfs*17; B1801

<400> 21225
Met Asp Phe Leu Val His Pro Ala
1               5

<210> 21226
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.I1307Nfs*8; A6801

<400> 21226
Asn Thr Leu Gln Ile Ala Glu Asn Lys Arg
1               5                   10


<210> 21227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.I1307Nfs*8; A1101

<400> 21227
Asn Thr Leu Gln Ile Ala Glu Asn Lys
1               5


<210> 21228
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.I1307Nfs*8; A6801

<400> 21228
Asn Thr Leu Gln Ile Ala Glu Asn Lys
1               5


<210> 21229
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.I1307Nfs*8; A6801

<400> 21229
Asp Ser Ala Asn Thr Leu Gln Ile Ala Glu Asn
1               5                   10


<210> 21230
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.I1307Nfs*8; A1101

<400> 21230
Ser Ala Asn Thr Leu Gln Ile Ala Glu Asn Lys
1               5                   10


<210> 21231
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.I1311Lfs*10; B4001

<400> 21231
Ala Glu Ile Lys Glu Lys Leu Glu Leu
1               5


<210> 21232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.I1311Lfs*10; B4403

<400> 21232
Ala Glu Ile Lys Glu Lys Leu Glu Leu
1               5


<210> 21233
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.I1311Lfs*10; B0801

<400> 21233
Glu Ile Lys Glu Lys Leu Glu Leu
1               5


<210> 21234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.I1311Lfs*10; B4402

<400> 21234
Ala Glu Ile Lys Glu Lys Leu Glu Leu
1               5


<210> 21235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Dfs*4; B5801

<400> 21235
Gln Ile Ala Glu Ile Lys Glu Asp Trp
1               5


<210> 21236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Dfs*4; B5701

<400> 21236
Gln Ile Ala Glu Ile Lys Glu Asp Trp
1               5


<210> 21237
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Dfs*4; B4403

<400> 21237
Gln Ile Ala Glu Ile Lys Glu Asp Trp
1               5


<210> 21238
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; APC_p.K1310Dfs*4; B3501

<400> 21238
Gln Ile Ala Glu Ile Lys Glu Asp Trp
1               5


<210> 21239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Dfs*4; B2702

<400> 21239
Gln Ile Ala Glu Ile Lys Glu Asp Trp
1               5


<210> 21240
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; A0205

<400> 21240
Gln Ile Ala Glu Ile Lys Glu Arg Leu
1               5


<210> 21241
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; A3301

<400> 21241
Asn Thr Leu Gln Ile Ala Glu Ile Lys Glu Arg
1               5                   10


<210> 21242
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B4001

<400> 21242
Ala Glu Ile Lys Glu Arg Leu Glu Leu
1               5


<210> 21243
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B4403

<400> 21243
Ala Glu Ile Lys Glu Arg Leu Glu Leu
1               5


<210> 21244
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B4002

<400> 21244
Ala Glu Ile Lys Glu Arg Leu Glu Leu
1               5


<210> 21245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; A6802

<400> 21245
Gln Ile Ala Glu Ile Lys Glu Arg Leu
1               5


<210> 21246
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; A3303

<400> 21246
Asn Thr Leu Gln Ile Ala Glu Ile Lys Glu Arg

1 5 10

<210> 21247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B5001

<400> 21247
Gln Ile Ala Glu Ile Lys Glu Arg Leu
1 5

<210> 21248
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B4901

<400> 21248
Ala Glu Ile Lys Glu Arg Leu Glu Leu
1 5

<210> 21249
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; A6801

<400> 21249
Asn Thr Leu Gln Ile Ala Glu Ile Lys Glu Arg
1 5 10

<210> 21250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B3801

<400> 21250
Gln Ile Ala Glu Ile Lys Glu Arg Leu
1 5

<210> 21251
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; A3001

<400> 21251
Ala Glu Ile Lys Glu Arg Leu Glu Leu
1               5


<210> 21252
<211> 9
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B4002

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Leu Glu Leu Gly Gln Leu Lys Ile Leu
1               5


<210> 21253
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1310Rfs*11; B0702

<400> 21253
Ala Glu Ile Lys Glu Arg Leu Glu Leu
1               5


<210> 21254
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A2301

<400> 21254
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21255

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; B1501

<400> 21255
Gln Thr Ala Gln Thr Ser Glu Lys Tyr
1               5


<210> 21256
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A1101

<400> 21256
Gln Thr Ala Gln Thr Ser Glu Lys Tyr Leu Lys
1               5                   10


<210> 21257
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A2301

<400> 21257
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21258
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A1101

<400> 21258
Ala Gln Thr Ser Glu Lys Tyr Leu Lys
1               5


<210> 21259
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A0101

<400> 21259
Gln Thr Ala Gln Thr Ser Glu Lys Tyr
1               5


<210> 21260
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A1101

<400> 21260
Thr Ala Gln Thr Ser Glu Lys Tyr Leu Lys
1               5                   10


<210> 21261
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; C1502

<400> 21261
Gln Thr Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21262
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; B1302

<400> 21262
Gln Thr Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21263
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A6801

<400> 21263
Gln Thr Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21264
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.K1449Sfs*24; A2301

<400> 21264
Lys Tyr Leu Lys Ile Lys His Leu
1               5


<210> 21265
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.L1302Rfs*3; A6801

<400> 21265
Thr Thr Gln Glu Ala Asp Ser Ala Asn Thr Arg
1               5                   10


<210> 21266
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1302Rfs*3; A3303

<400> 21266
Thr Thr Gln Glu Ala Asp Ser Ala Asn Thr Arg
1               5                   10


<210> 21267
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1302Rfs*3; A3301

<400> 21267
Thr Thr Gln Glu Ala Asp Ser Ala Asn Thr Arg
1               5                   10


<210> 21268
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1302Rfs*3; A3101

<400> 21268
Thr Thr Gln Glu Ala Asp Ser Ala Asn Thr Arg
1               5                   10


<210> 21269
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1302Rfs*3; A1101

<400> 21269
Thr Thr Gln Glu Ala Asp Ser Ala Asn Thr Arg
1               5                   10


<210> 21270
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Ffs*23; C1502

<400> 21270
Tyr Ser Arg Trp Ile Phe Leu Phe Ile
1               5


<210> 21271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.L1488Ffs*23; A2301

<400> 21271

Lys Tyr Ser Arg Trp Ile Phe Leu Phe
1               5


<210> 21272
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Ffs*23; A3101

<400> 21272
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21273
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Ffs*23; A6801

<400> 21273
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21274
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Ffs*23; A1101

<400> 21274
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21275
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; A0201

<400> 21275
Gln Met Asp Phe Leu Val His Pro Ala
1               5

<210> 21276
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; B3501

<400> 21276
Leu Pro Asp Ala Asp Thr Tyr Ile Leu
1               5


<210> 21277
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; B5101

<400> 21277
Asp Thr Tyr Ile Leu Pro Arg Lys Val
1               5


<210> 21278
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; A6801

<400> 21278
Asp Ala Asp Thr Tyr Ile Leu Pro Arg
1               5


<210> 21279
<211> 9
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; B3501

<400> 21279
Gln Val Leu Pro Asp Ala Asp Thr Tyr
1               5

<210> 21280
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; C0802

<400> 21280
Leu Pro Asp Ala Asp Thr Tyr Ile Leu
1               5


<210> 21281
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; B1801

<400> 21281
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21282
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; A2301

<400> 21282
Thr Tyr Ile Leu Pro Arg Lys Val Leu
1               5


<210> 21283
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*18; B2702

<400> 21283
Leu Pro Asp Ala Asp Thr Tyr Ile Leu Pro Arg
1               5                   10


<210> 21284
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B3701

<400> 21284
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21285
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B3503

<400> 21285
Leu Pro Asp Ala Asp Thr Tyr Tyr Ile Leu
1               5                   10


<210> 21286
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; A0201

<400> 21286
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21287
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; C0602

<400> 21287
Thr Tyr Tyr Ile Leu Pro Arg Lys Val
1               5


<210> 21288
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; C1402

<400> 21288
Tyr Tyr Ile Leu Pro Arg Lys Val Leu
1               5


<210> 21289
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B4002

<400> 21289
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21290
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B3502

<400> 21290
Asp Ala Asp Thr Tyr Tyr Ile Leu
1               5


<210> 21291
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; A6802

<400> 21291
Asp Thr Tyr Tyr Ile Leu Pro Arg Lys Val
1               5                   10


<210> 21292
<211> 9
<212> PRT
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<220>

<223> AACR GENIE Results; APC_p.L1488Yfs*19; B5001

<400> 21292
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21293
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; A3301

<400> 21293
Asp Thr Tyr Tyr Ile Leu Pro Arg Lys
1               5


<210> 21294
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B3503

<400> 21294
Asp Ala Asp Thr Tyr Tyr Ile Leu
1               5


<210> 21295
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; A0205

<400> 21295
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21296
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; A6802

<400> 21296
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21297
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B2702

<400> 21297
Asp Ala Asp Thr Tyr Tyr Ile Leu Pro Arg
1               5                   10


<210> 21298
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B1801

<400> 21298
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21299
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B3502

<400> 21299
Leu Pro Asp Ala Asp Thr Tyr Tyr Ile Leu
1               5                   10


<210> 21300
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1488Yfs*19; B5001

<400> 21300
Met Asp Phe Leu Val His Pro Ala

1 5

<210> 21301
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B3701

<400> 21301
Met Asp Phe Leu Val His Pro Ala
1 5

<210> 21302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; A0201

<400> 21302
Gln Met Asp Phe Leu Val His Pro Ala
1 5

<210> 21303
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B3906

<400> 21303
Gln Met Asp Phe Leu Val His Pro Ala
1 5

<210> 21304
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B3906

<400> 21304
Met Asp Phe Leu Val His Pro Ala
1 5

<210> 21305
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B4002

<400> 21305
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21306
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B5001

<400> 21306
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21307
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B3508

<400> 21307
Leu Pro Asp Ala Asp Thr Leu Phe
1               5


<210> 21308
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; A0205

<400> 21308
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21309

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B3503

<400> 21309
Leu Pro Asp Ala Asp Thr Leu Phe Ile Leu
1               5                   10


<210> 21310
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B3502

<400> 21310
Leu Pro Asp Ala Asp Thr Leu Phe
1               5


<210> 21311
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; A6802

<400> 21311
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21312
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B1801

<400> 21312
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21313
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.L1489Ffs*18; B5001

<400> 21313
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21314
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*18; A0201

<400> 21314
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21315
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*18; B1801

<400> 21315
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21316
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*19; A0201

<400> 21316
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21317
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*19; B3501

<400> 21317
Leu Pro Asp Ala Asp Thr Leu Tyr Tyr
1               5


<210> 21318
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*19; A2301

<400> 21318
Tyr Tyr Ile Leu Pro Arg Lys Val Leu
1               5


<210> 21319
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*19; B2702

<400> 21319
Asp Thr Leu Tyr Tyr Ile Leu Pro Arg
1               5


<210> 21320
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*19; B1801

<400> 21320
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21321
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*19; A0301

<400> 21321
Thr Leu Tyr Tyr Ile Leu Pro Arg Lys
1               5


<210> 21322
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.L1489Yfs*19; C0602

<400> 21322
Leu Tyr Tyr Ile Leu Pro Arg Lys Val
1               5


<210> 21323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.L2574I; A6802

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Ser Ser Ser Ser Ile Ile Ser Ala Ser
1               5


<210> 21324
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1413Wfs*2; B1501

<400> 21324
Val Gln Ser Glu Pro Cys Ser Gly Trp
1               5


<210> 21325
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1413Wfs*2; A3201

<400> 21325

Val Gln Ser Glu Pro Cys Ser Gly Trp
1               5


<210> 21326
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1413Wfs*2; B3801

<400> 21326
Val Gln Ser Glu Pro Cys Ser Gly Trp
1               5


<210> 21327
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1413Wfs*2; B4403

<400> 21327
Val Gln Ser Glu Pro Cys Ser Gly Trp
1               5


<210> 21328
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1413Wfs*2; B5701

<400> 21328
Val Gln Ser Glu Pro Cys Ser Gly Trp
1               5


<210> 21329
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1413Wfs*2; B5701

<400> 21329
Ser Ser Val Gln Ser Glu Pro Cys Ser Gly Trp
1               5                   10

<210> 21330
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1413Wfs*2; B4402

<400> 21330
Val Gln Ser Glu Pro Cys Ser Gly Trp
1               5


<210> 21331
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.M1431Cfs*42; B1501

<400> 21331
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21332
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.M1431Cfs*42; A2301

<400> 21332
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21333
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1431Cfs*42; B4403

<400> 21333
Ala Glu Val Lys His Leu His His Leu
1               5

<210> 21334
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.M1431Cfs*42; A2301

<400> 21334
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21335
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.M1431Cfs*42; B0702

<400> 21335
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21336
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.M1431Cfs*42; B1501

<400> 21336
His Gln Ala Glu Val Lys His Leu
1               5


<210> 21337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.M1431Cfs*42; B1302

<400> 21337
Gly Gln Thr Cys His Gln Ala Glu Val
1               5


<210> 21338
<211> 9

<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; B1801

<400> 21338
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21339
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; B4403

<400> 21339
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21340
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; A0101

<400> 21340
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21341
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; B4402

<400> 21341
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1142S; B1501

<400> 21342
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21343
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; B3501

<400> 21343
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21344
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; B4001

<400> 21344
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21345
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; B3501

<400> 21345
Lys Pro Thr Ser Tyr Ser Glu Arg Tyr
1               5


<210> 21346
<211> 9
<212> PRT
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<220>

<223> AACR GENIE Results; APC_p.N1142S; A2601

<400> 21346
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21347
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1142S; B1801

<400> 21347
Asp Asp Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5                   10


<210> 21348
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1142S; A0101

<400> 21348
Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1142S; B0801

<400> 21349
Tyr Glu Asp Asp Lys Pro Thr Ser Tyr
1               5


<210> 21350
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1455Ifs*18; B0801

<400> 21350
Val Pro Lys Ile Lys His Leu Leu
1               5


<210> 21351
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1455Ifs*18; B4403

<400> 21351
Arg Glu Val Pro Lys Ile Lys His Leu
1               5


<210> 21352
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1473Mfs*34; B1501

<400> 21352
Lys Gln Ala Ala Val Met Leu Gln Phe
1               5


<210> 21353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1473Mfs*34; A0201

<400> 21353
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1473Mfs*34; A3201

<400> 21354
Lys Gln Ala Ala Val Met Leu Gln Phe

1 5

<210> 21355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1473Mfs*34; A0301

<400> 21355
Ile Leu Tyr Tyr Ile Leu Pro Arg Lys
1 5

<210> 21356
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1473Mfs*34; B1801

<400> 21356
Met Asp Phe Leu Val His Pro Ala
1 5

<210> 21357
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1473Mfs*34; C0602

<400> 21357
Leu Tyr Tyr Ile Leu Pro Arg Lys Val
1 5

<210> 21358
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; A0301

<400> 21358
Gly Met Lys Gln Asn Gln Ser Ser Leu Lys
1 5 10

<210> 21359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; B1501

<400> 21359
Gly Met Lys Gln Asn Gln Ser Ser Leu
1               5


<210> 21360
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; C1601

<400> 21360
Gln Ser Ser Leu Lys Asn Gln Met
1               5


<210> 21361
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; A3001

<400> 21361
Gly Met Lys Gln Asn Gln Ser Ser Leu
1               5


<210> 21362
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; B1501

<400> 21362
Lys Gln Asn Gln Ser Ser Leu Lys Asn Gln Met
1               5                   10


<210> 21363

<211> 9
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<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; A0301

<400> 21363
Ser Leu Lys Asn Gln Met Lys Thr Lys
1               5


<210> 21364
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; B0801

<400> 21364
Gln Ser Ser Leu Lys Asn Gln Met
1               5


<210> 21365
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; C0602

<400> 21365
Lys Arg Gln Lys Lys Leu Leu Ile Leu
1               5


<210> 21366
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; B3801

<400> 21366
Asn Gln Ser Ser Leu Lys Asn Gln Met
1               5


<210> 21367
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<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N1531Mfs*34; A1101

<400> 21367
Ser Ser Leu Lys Asn Gln Met Lys Thr Lys
1               5                   10


<210> 21368
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B0801

<400> 21368
Thr Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21369
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; C0304

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Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21370
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; C0303

<400> 21370
Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21371
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B0702

<400> 21371
Thr Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21372
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; C1203

<400> 21372
Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21373
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B5701

<400> 21373
Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21374
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B0801

<400> 21374
Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21375
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B1501

<400> 21375
Thr Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21376
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B0801

<400> 21376
Gly Thr Leu Thr Tyr Arg Ser Gln Thr Leu
1               5                   10


<210> 21377
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; A0201

<400> 21377
Thr Leu Thr Tyr Arg Ser Gln Thr Leu
1               5


<210> 21378
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B5701

<400> 21378
Gly Thr Leu Thr Tyr Arg Ser Gln Thr Leu
1               5                   10


<210> 21379
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N627Lfs*2; B1501

<400> 21379

Leu Thr Tyr Arg Ser Gln Thr Leu
1 5

<210> 21380
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N741Ifs*20; A2301

<400> 21380
Lys Tyr Lys Asp Ala Ile Leu Cys Leu
1 5

<210> 21381
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N741Ifs*20; A2402

<400> 21381
Lys Tyr Lys Asp Ala Ile Leu Cys Leu
1 5

<210> 21382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N741Ifs*20; C0702

<400> 21382
Lys Tyr Lys Asp Ala Ile Leu Cys Leu
1 5

<210> 21383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N942Ffs*3; A2402

<400> 21383
Thr Tyr Asn Phe Thr Lys Ser Glu Phe
1 5

<210> 21384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.N942Ffs*3; A2301

<400> 21384
Thr Tyr Asn Phe Thr Lys Ser Glu Phe
1               5


<210> 21385
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N942Ffs*3; B0801

<400> 21385
Tyr Asn Phe Thr Lys Ser Glu Phe
1               5


<210> 21386
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N942Ffs*3; A2601

<400> 21386
Asn Thr Tyr Asn Phe Thr Lys Ser Glu Phe
1               5                   10


<210> 21387
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N942Ffs*3; A2902

<400> 21387
Thr Tyr Asn Phe Thr Lys Ser Glu Phe
1               5

<210> 21388
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.N942Ffs*3; C0702

<400> 21388
Thr Tyr Asn Phe Thr Lys Ser Glu Phe
1               5


<210> 21389
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; A3201

<400> 21389
Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5


<210> 21390
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B1501

<400> 21390
Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5


<210> 21391
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B4402

<400> 21391
Asp Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21392
<211> 11

<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B4403

<400> 21392
Asp Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21393
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B1801

<400> 21393
Asp Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21394
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B0702

<400> 21394
Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5


<210> 21395
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; A2301

<400> 21395
Asp Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21396
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B1501

<400> 21396
Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21397
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B4403

<400> 21397
Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21398
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B3801

<400> 21398
Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21399
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1043Ffs*4; B4402

<400> 21399
Glu Gln Leu Asn Ser Gly Arg Gln Ser Phe
1               5                   10


<210> 21400
<211> 9
<212> PRT
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<220>

<223> AACR GENIE Results; APC_p.P1424Qfs*49; B1501

<400> 21400
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1424Qfs*49; A2301

<400> 21401
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21402
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1424Qfs*49; A2301

<400> 21402
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21403
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1424Qfs*49; B4403

<400> 21403
Ala Glu Val Lys His Leu His His Leu
1               5


<210> 21404
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1424Qfs*49; B0702

<400> 21404
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21405
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1424Qfs*49; B3501

<400> 21405
Ser Pro Ser Asp Leu Gln Ile Ala Leu
1               5


<210> 21406
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1424Qfs*49; B0702

<400> 21406
Ser Pro Ser Asp Leu Gln Ile Ala Leu
1               5


<210> 21407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1427Lfs*46; B1501

<400> 21407
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21408
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1427Lfs*46; A2301

<400> 21408
Lys Tyr Leu Lys Ile Lys His Leu Leu

1 5

<210> 21409
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1427Lfs*46; A2301

<400> 21409
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1 5 10

<210> 21410
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1427Lfs*46; B4403

<400> 21410
Ala Glu Val Lys His Leu His His Leu
1 5

<210> 21411
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1427Lfs*46; B0702

<400> 21411
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1 5

<210> 21412
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; B1501

<400> 21412
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1 5

<210> 21413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; A2301

<400> 21413
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; B4403

<400> 21414
Ala Glu Val Lys His Leu His His Leu
1               5


<210> 21415
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; B4002

<400> 21415
Ala Glu Val Lys His Leu His His Leu
1               5


<210> 21416
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; A2301

<400> 21416
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21417

<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; B1501

<400> 21417
His Gln Ala Glu Val Lys His Leu
1               5


<210> 21418
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; B0702

<400> 21418
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1432Cfs*42; A3002

<400> 21419
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21420
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1439Hfs*35; B1501

<400> 21420
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21421
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1439Hfs*35; B0702

<400> 21421
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21422
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1439Lfs*34; B1501

<400> 21422
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21423
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1439Lfs*34; A2301

<400> 21423
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21424
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1439Lfs*34; A2301

<400> 21424
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1439Lfs*34; B5701

<400> 21425
Arg Ser Lys Thr Leu His His Leu Leu
1               5


<210> 21426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1439Lfs*34; B0702

<400> 21426
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1440Hfs*33; B1501

<400> 21427
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1440Hfs*33; A2301

<400> 21428
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21429
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<220>
<223> AACR GENIE Results; APC_p.P1440Hfs*33; A2301

<400> 21429
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21430
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1440Hfs*33; B0702

<400> 21430
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21431
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1443Lfs*30; A2301

<400> 21431
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21432
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1443Lfs*30; B1501

<400> 21432
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21433
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1443Lfs*30; A2301

<400> 21433

Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21434
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1443Lfs*30; B0702

<400> 21434
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B4001

<400> 21435
Thr Glu Ser Thr Gln Met Asp Phe Leu
1               5


<210> 21436
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B5001

<400> 21436
Thr Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10


<210> 21437
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A0205

<400> 21437
Thr Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10

<210> 21438
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B3701

<400> 21438
Thr Glu Ser Thr Gln Met Asp Phe
1               5


<210> 21439
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B3701

<400> 21439
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21440
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A0201

<400> 21440
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21441
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A3001

<400> 21441
Thr Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10

<210> 21442
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A0201

<400> 21442
Thr Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10


<210> 21443
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B1801

<400> 21443
Thr Glu Ser Thr Gln Met Asp Phe
1               5


<210> 21444
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A6802

<400> 21444
Glu Ser Thr Gln Met Asp Phe Leu Val
1               5


<210> 21445
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B3503

<400> 21445
Phe Ala Thr Glu Ser Thr Gln Met
1               5


<210> 21446
<211> 8

<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B4002

<400> 21446
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B4901

<400> 21447
Thr Glu Ser Thr Gln Met Asp Phe Leu
1               5


<210> 21448
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B3501

<400> 21448
Phe Ala Thr Glu Ser Thr Gln Met
1               5


<210> 21449
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A1101

<400> 21449
Ser Thr Gln Met Asp Phe Leu Val His
1               5


<210> 21450
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B4002

<400> 21450
Thr Glu Ser Thr Gln Met Asp Phe Leu
1               5


<210> 21451
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; C0304

<400> 21451
Phe Ala Thr Glu Ser Thr Gln Met
1               5


<210> 21452
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; C1402

<400> 21452
His Phe Ala Thr Glu Ser Thr Gln Met
1               5


<210> 21453
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; C1601

<400> 21453
Phe Ala Thr Glu Ser Thr Gln Met
1               5


<210> 21454
<211> 10
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<220>

<223> AACR GENIE Results; APC_p.P1497Qfs*10; A6802

<400> 21454
Thr Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10


<210> 21455
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B3801

<400> 21455
Leu His Phe Ala Thr Glu Ser Thr Gln Met
1               5                   10


<210> 21456
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B5801

<400> 21456
Ala Thr Glu Ser Thr Gln Met Asp Phe
1               5


<210> 21457
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B5001

<400> 21457
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21458
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A0205

<400> 21458
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21459
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B1801

<400> 21459
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21460
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A3001

<400> 21460
Thr Glu Ser Thr Gln Met Asp Phe Leu
1               5


<210> 21461
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; C0303

<400> 21461
Phe Ala Thr Glu Ser Thr Gln Met
1               5


<210> 21462
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B3502

<400> 21462
Phe Ala Thr Glu Ser Thr Gln Met

1 5

<210> 21463
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A6802

<400> 21463
Gln Met Asp Phe Leu Val His Pro Ala
1 5

<210> 21464
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B2702

<400> 21464
Phe Ala Thr Glu Ser Thr Gln Met Asp Phe
1 5 10

<210> 21465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B5001

<400> 21465
Thr Gln Met Asp Phe Leu Val His Pro
1 5

<210> 21466
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; A3101

<400> 21466
Thr Gln Met Asp Phe Leu Val His Pro Ala
1 5 10

<210> 21467
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.P1497Qfs*10; B5001

<400> 21467
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21468
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q1294Gfs*6; B1501

<400> 21468
Gly Cys Asn Gln Thr Thr Gly Ser Arg Phe
1               5                   10


<210> 21469
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q1303Kfs*2; A6801

<400> 21469
Glu Ala Asp Ser Ala Asn Thr Leu Lys
1               5


<210> 21470
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q1303Kfs*2; A1101

<400> 21470
Glu Ala Asp Ser Ala Asn Thr Leu Lys
1               5


<210> 21471

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Q1303Kfs*2; A1101

<400> 21471
Ala Asp Ser Ala Asn Thr Leu Lys
1               5


<210> 21472
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Q1303Kfs*2; A1101

<400> 21472
Thr Gln Glu Ala Asp Ser Ala Asn Thr Leu Lys
1               5                   10


<210> 21473
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q1429Kfs*44; B1501

<400> 21473
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21474
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q1429Kfs*44; A2301

<400> 21474
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21475
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Q1429Kfs*44; A2301

<400> 21475
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21476
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q1429Kfs*44; B4403

<400> 21476
Ala Glu Val Lys His Leu His His Leu
1               5


<210> 21477
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q1429Kfs*44; B0702

<400> 21477
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21478
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B4403

<400> 21478
Ser Glu Ser Glu Asp Leu Thr Ala Gly Tyr
1               5                   10


<210> 21479
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; A0101

<400> 21479
Glu Ser Glu Asp Leu Thr Ala Gly Tyr
1               5


<210> 21480
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B1801

<400> 21480
Ser Glu Asp Leu Thr Ala Gly Tyr
1               5


<210> 21481
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B4402

<400> 21481
Ser Glu Ser Glu Asp Leu Thr Ala Gly Tyr
1               5                   10


<210> 21482
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B1801

<400> 21482
Glu Glu Phe Val Leu Ala Ser Arg Cys
1               5


<210> 21483
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B1801

<400> 21483
Ser Glu Ser Glu Asp Leu Thr Ala Gly Tyr
1               5                   10


<210> 21484
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; A2601

<400> 21484
Glu Ser Glu Asp Leu Thr Ala Gly Tyr
1               5


<210> 21485
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B1801

<400> 21485
Glu Glu Phe Val Leu Ala Ser Arg
1               5


<210> 21486
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B4402

<400> 21486
Ser Glu Asp Leu Thr Ala Gly Tyr
1               5


<210> 21487
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; B4403

<400> 21487

Ser Glu Asp Leu Thr Ala Gly Tyr
1               5


<210> 21488
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Q541Tfs*19; A0101

<400> 21488
Lys Ser Glu Ser Glu Asp Leu Thr Ala Gly Tyr
1               5                   10


<210> 21489
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1314Gfs*7; A2601

<400> 21489
Glu Ile Lys Glu Lys Ile Gly Thr Gly
1               5


<210> 21490
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1314Gfs*7; B4001

<400> 21490
Lys Glu Lys Ile Gly Thr Gly Gln Leu
1               5


<210> 21491
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1314Gfs*7; B0702

<400> 21491
Lys Glu Lys Ile Gly Thr Gly Gln Leu
1               5

<210> 21492
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1314Gfs*7; A0301

<400> 21492
Lys Ile Gly Thr Gly Gln Leu Lys
1               5


<210> 21493
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1399Ffs*9; A6802

<400> 21493
Asp Ser Phe Glu Ser Phe Asp Cys Gln Leu
1               5                   10


<210> 21494
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1399Ffs*9; B5801

<400> 21494
Ser Ser Leu Asp Ser Phe Glu Ser Phe
1               5


<210> 21495
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1399Ffs*9; A3303

<400> 21495
Glu Ser Phe Asp Cys Gln Leu Arg
1               5

<210> 21496
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1399Ffs*9; A6801

<400> 21496
Asp Ser Phe Glu Ser Phe Asp Cys Gln Leu
1               5                   10


<210> 21497
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1399Ffs*9; B1501

<400> 21497
Ser Ser Leu Asp Ser Phe Glu Ser Phe
1               5


<210> 21498
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1399Ffs*9; A6801

<400> 21498
Asp Ser Phe Glu Ser Phe Asp Cys Gln Leu Arg
1               5                   10


<210> 21499
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R1399Ffs*9; B4001

<400> 21499
Phe Glu Ser Phe Asp Cys Gln Leu
1               5


<210> 21500
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.R2714C; B5101

<400> 21500
Asn Gly Ser Val Pro Met Cys Thr Val
1               5


<210> 21501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.R640W; B4403

<400> 21501
Ile Glu Ser Gly Gly Gly Ile Leu Trp
1               5


<210> 21502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.R640W; B4402

<400> 21502
Ile Glu Ser Gly Gly Gly Ile Leu Trp
1               5


<210> 21503
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.R640W; B5701

<400> 21503
Ala Ile Ile Glu Ser Gly Gly Gly Ile Leu Trp
1               5                   10


<210> 21504
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R640W; B5701

<400> 21504
Ile Ile Glu Ser Gly Gly Gly Ile Leu Trp
1               5                   10


<210> 21505
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R640W; A2301

<400> 21505
Ile Glu Ser Gly Gly Gly Ile Leu Trp
1               5


<210> 21506
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R653K; A1101

<400> 21506
Ala Thr Asn Glu Asp His Lys Gln Ile Leu Arg
1               5                   10


<210> 21507
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.R653K; A3101

<400> 21507
Ala Thr Asn Glu Asp His Lys Gln Ile Leu Arg
1               5                   10


<210> 21508
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; APC_p.S1298Lfs*7; A6801

<400> 21508
Glu Ala Asp Leu Leu Ile Pro Cys Lys
1               5


<210> 21509
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Ffs*19; B4403

<400> 21509
Ser Glu Ile Ser Leu Gln Lys Trp
1               5


<210> 21510
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Ffs*19; B4402

<400> 21510
Ser Glu Ile Ser Leu Gln Lys Trp
1               5


<210> 21511
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Ffs*19; B5701

<400> 21511
Arg Ser Glu Ile Ser Leu Gln Lys Trp
1               5


<210> 21512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Ffs*19; B2705

<400> 21512
Phe Arg Ser Glu Ile Ser Leu Gln Lys
1               5


<210> 21513
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Ffs*19; A2301

<400> 21513
Ser Glu Ile Ser Leu Gln Lys Trp
1               5


<210> 21514
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Ffs*19; B4901

<400> 21514
Val Glu Phe Phe Arg Ser Glu Ile
1               5


<210> 21515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A0201

<400> 21515
Cys Leu Ala Asp Val Leu Leu Ser Val
1               5


<210> 21516
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B5701

<400> 21516
Ala Pro Phe Arg Val Asn His Ala Val Glu Trp

1 5 10

<210> 21517
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B5101

<400> 21517
Asp Val Leu Leu Ser Val His Leu Ile
1 5

<210> 21518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B4901

<400> 21518
Gln Glu Arg Asn Leu Pro Pro Lys Val
1 5

<210> 21519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B1302

<400> 21519
Cys Leu Ala Asp Val Leu Leu Ser Val
1 5

<210> 21520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A3001

<400> 21520
Gln Glu Arg Asn Leu Pro Pro Lys Val
1 5

<210> 21521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A3101

<400> 21521
Val Val Arg Leu Pro Ala Pro Phe Arg
1               5


<210> 21522
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; C1502

<400> 21522
Ser Val His Leu Ile Val Leu Arg Val
1               5


<210> 21523
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; C0602

<400> 21523
Phe Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21524
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B5701

<400> 21524
Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21525

<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; C0602

<400> 21525
Val Arg Leu Pro Ala Pro Phe Arg Val
1               5


<210> 21526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B0702

<400> 21526
His Pro Lys Val His Leu Asn Thr Met
1               5


<210> 21527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B1302

<400> 21527
Ser Val His Leu Ile Val Leu Arg Val
1               5


<210> 21528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B5701

<400> 21528
Arg Val Val Arg Leu Pro Ala Pro Phe
1               5


<210> 21529
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B0801

<400> 21529
His Pro Lys Val His Leu Asn Thr Met
1               5


<210> 21530
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B0801

<400> 21530
Asn Leu Pro Pro Lys Val Val Leu
1               5


<210> 21531
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A3101

<400> 21531
Ser Val His Leu Ile Val Leu Arg
1               5


<210> 21532
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A3101

<400> 21532
Arg Asn Leu Pro Pro Lys Val Val Leu Arg
1               5                   10


<210> 21533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; C0702

<400> 21533
Phe Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B4001

<400> 21534
Val Glu Phe Leu Gln Glu Arg Asn Leu
1               5


<210> 21535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A0301

<400> 21535
Val Val Arg Leu Pro Ala Pro Phe Arg
1               5


<210> 21536
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A3303

<400> 21536
Ser Val His Leu Ile Val Leu Arg
1               5


<210> 21537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B2705

<400> 21537
Phe Arg Val Asn His Ala Val Glu Trp
1               5


<210> 21538
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; B5501

<400> 21538
Ala Pro Phe Arg Val Asn His Ala
1               5


<210> 21539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1355Lfs*60; A0201

<400> 21539
Phe Leu Gln Glu Arg Asn Leu Pro Pro
1               5


<210> 21540
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; B5701

<400> 21540
Val Gln Ser Glu Pro Cys Arg Glu Trp
1               5


<210> 21541
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; B5701

<400> 21541

Ser Val Gln Ser Glu Pro Cys Arg Glu Trp
1               5                   10


<210> 21542
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; B5701

<400> 21542
Ser Ser Val Gln Ser Glu Pro Cys Arg Glu Trp
1               5                   10


<210> 21543
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; B5801

<400> 21543
Val Gln Ser Glu Pro Cys Arg Glu Trp
1               5


<210> 21544
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; B1501

<400> 21544
Val Gln Ser Glu Pro Cys Arg Glu Trp
1               5


<210> 21545
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; B4403

<400> 21545
Val Gln Ser Glu Pro Cys Arg Glu Trp
1               5

<210> 21546
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; A3001

<400> 21546
Val Gln Ser Glu Pro Cys Arg Glu Trp
1               5


<210> 21547
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; B5701

<400> 21547
Gln Ser Glu Pro Cys Arg Glu Trp
1               5


<210> 21548
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1411Rfs*4; A6801

<400> 21548
Ile Ala Ser Ser Val Gln Ser Glu Pro Cys Arg
1               5                   10


<210> 21549
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1415Kfs*8; B4403

<400> 21549
Ser Glu Pro Cys Ser Gly Met Val Lys Trp
1               5                   10

<210> 21550
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1415Rfs*4; B4002

<400> 21550
Ser Glu Pro Cys Ser Gly Met Val Arg Ala Leu
1               5                   10


<210> 21551
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1415Rfs*4; C1601

<400> 21551
Cys Ser Gly Met Val Arg Ala Leu
1               5


<210> 21552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; A6802

<400> 21552
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B1302

<400> 21553
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21554
<211> 9

<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; A0201

<400> 21554
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21555
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; C1502

<400> 21555
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21556
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B1501

<400> 21556
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; C1701

<400> 21557
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21558
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B5701

<400> 21558
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21559
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; C0704

<400> 21559
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21560
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; A2301

<400> 21560
Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21561
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B3503

<400> 21561
Ser Pro Val Ile Phe Gln Ile Ala Leu
1               5


<210> 21562
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; APC_p.S1421Vfs*52; C0202

<400> 21562
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21563
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; A2301

<400> 21563
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21564
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B4403

<400> 21564
Ala Glu Val Lys His Leu His His Leu
1               5


<210> 21565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B0702

<400> 21565
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21566
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; C1203

<400> 21566
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21567
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B3503

<400> 21567
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21568
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; C0303

<400> 21568
Ile Ile Ser Pro Val Ile Phe Gln Ile
1               5


<210> 21569
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B4002

<400> 21569
Ala Glu Val Lys His Leu His His Leu
1               5


<210> 21570
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B0702

<400> 21570
Ser Pro Val Ile Phe Gln Ile Ala Leu

1 5

<210> 21571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; A3001

<400> 21571
Ile Ile Ser Pro Val Ile Phe Gln Ile
1 5

<210> 21572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1421Vfs*52; B3501

<400> 21572
Ser Pro Val Ile Phe Gln Ile Ala Leu
1 5

<210> 21573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1436Vfs*37; B1501

<400> 21573
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1 5

<210> 21574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1436Vfs*37; A2301

<400> 21574
Lys Tyr Leu Lys Ile Lys His Leu Leu
1 5

<210> 21575
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1436Vfs*37; A2301

<400> 21575
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21576
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1436Vfs*37; B0702

<400> 21576
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Kfs*19; C1502

<400> 21577
Tyr Ser Arg Trp Ile Phe Leu Phe Ile
1               5


<210> 21578
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Kfs*19; A3101

<400> 21578
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21579

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Kfs*19; A2301

<400> 21579
Lys Tyr Ser Arg Trp Ile Phe Leu Phe
1               5


<210> 21580
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Kfs*19; A6801

<400> 21580
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Kfs*19; A1101

<400> 21581
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Kfs*19; B1501

<400> 21582
Leu Leu His Phe Ala Thr Glu Lys Tyr
1               5


<210> 21583
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; A0201

<400> 21583
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21584
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B1801

<400> 21584
Thr Glu Val Leu Gln Met Asp Phe
1               5


<210> 21585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; A0201

<400> 21585
Thr Leu Leu His Phe Ala Thr Glu Val
1               5


<210> 21586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B4001

<400> 21586
Thr Glu Val Leu Gln Met Asp Phe Leu
1               5


<210> 21587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; A6802

<400> 21587
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21588
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B4002

<400> 21588
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21589
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B1302

<400> 21589
Thr Leu Leu His Phe Ala Thr Glu Val
1               5


<210> 21590
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B4901

<400> 21590
Thr Glu Val Leu Gln Met Asp Phe Leu
1               5


<210> 21591
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; A0201

<400> 21591
Leu Gln Met Asp Phe Leu Val His Pro Ala
1               5                   10


<210> 21592
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B4002

<400> 21592
Thr Glu Val Leu Gln Met Asp Phe
1               5


<210> 21593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B4002

<400> 21593
Thr Glu Val Leu Gln Met Asp Phe Leu
1               5


<210> 21594
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; A6802

<400> 21594
Glu Val Leu Gln Met Asp Phe Leu Val
1               5


<210> 21595
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; C1402

<400> 21595

His Phe Ala Thr Glu Val Leu Gln Met
1               5


<210> 21596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; A0101

<400> 21596
Ala Thr Glu Val Leu Gln Met Asp Phe
1               5


<210> 21597
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B1801

<400> 21597
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21598
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; A3101

<400> 21598
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21599
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1495Vfs*12; B3501

<400> 21599
Phe Ala Thr Glu Val Leu Gln Met Asp Phe
1               5                   10

<210> 21600
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; B1801

<400> 21600
Asp Gly Phe Leu Val His Pro Ala
1               5


<210> 21601
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; A0201

<400> 21601
Ser Thr Pro Asp Gly Phe Leu Val His Pro Ala
1               5                   10


<210> 21602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; B4001

<400> 21602
Thr Glu Ser Thr Pro Asp Gly Phe Leu
1               5


<210> 21603
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; B5501

<400> 21603
Thr Pro Asp Gly Phe Leu Val His Pro Ala
1               5                   10

<210> 21604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; A1101

<400> 21604
Ser Thr Pro Asp Gly Phe Leu Val His
1               5


<210> 21605
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; A6801

<400> 21605
Thr Pro Asp Gly Phe Leu Val His Pro Ala
1               5                   10


<210> 21606
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; B5101

<400> 21606
Asp Gly Phe Leu Val His Pro Ala
1               5


<210> 21607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1501Lfs*6; B4901

<400> 21607
Thr Glu Ser Thr Pro Asp Gly Phe Leu
1               5


<210> 21608
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; B1501

<400> 21608
Ser Gln Pro Arg Leu Leu Gln Asn Tyr
1               5


<210> 21609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; B5101

<400> 21609
Leu Pro Cys Gln Gln Ser His His Val
1               5


<210> 21610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; B0702

<400> 21610
Gln Pro Arg Leu Leu Gln Asn Tyr Leu
1               5


<210> 21611
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; B5701

<400> 21611
Arg Leu Leu Gln Asn Tyr Leu His Leu Trp
1               5                   10


<210> 21612
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; B0801

<400> 21612
Asn Pro Lys Ser Met Leu Val Leu
1               5


<210> 21613
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; B0702

<400> 21613
Asn Pro Lys Ser Met Leu Val Leu
1               5


<210> 21614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; A3101

<400> 21614
His Val Lys Gln Lys Ser Gln Pro Arg
1               5


<210> 21615
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; A0301

<400> 21615
Gly Cys Asn Pro Lys Ser Met Leu Val Leu
1               5                   10


<210> 21616
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<212> PRT
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<220>

<223> AACR GENIE Results; APC_p.S1581Lfs*69; B5701

<400> 21616
Lys Ser Gln Pro Arg Leu Leu Gln Asn Tyr
1               5                   10


<210> 21617
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<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S1581Lfs*69; A0201

<400> 21617
His Leu Trp Gln Gly Asn Gln Val Ser Cys
1               5                   10


<210> 21618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S299Cfs*27; B5701

<400> 21618
Gly Val Phe Ile Val Val Asn Ala Trp
1               5


<210> 21619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S299Cfs*27; B1302

<400> 21619
Asn Gln Gly Gly Asn Gly Val Phe Ile
1               5


<210> 21620
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S299Cfs*27; B1302

<400> 21620
Gly Gly Asn Gly Val Phe Ile Val Val
1               5


<210> 21621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S299Cfs*27; B3801

<400> 21621
Asn Gln Gly Gly Asn Gly Val Phe Ile
1               5


<210> 21622
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S299Cfs*27; A2301

<400> 21622
Val Phe Ile Val Val Asn Ala Trp
1               5


<210> 21623
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S299Cfs*27; A2902

<400> 21623
Val Phe Ile Val Val Asn Ala Trp Tyr
1               5


<210> 21624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B3801

<400> 21624
Gln His Leu Gln Lys Leu Leu Thr Ile

1 5

<210> 21625
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B4001

<400> 21625
Ala Glu Leu Asp Ala Gln His Leu Gln Lys Leu
1 5 10

<210> 21626
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B4403

<400> 21626
Ala Glu Leu Asp Ala Gln His Leu Gln Lys Leu
1 5 10

<210> 21627
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B5101

<400> 21627
Asp Ala Gln His Leu Gln Lys Leu
1 5

<210> 21628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B4403

<400> 21628
Ala Glu Leu Asp Ala Gln His Leu Gln
1 5

<210> 21629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B4402

<400> 21629
Ala Glu Leu Asp Ala Gln His Leu Gln
1               5


<210> 21630
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B4402

<400> 21630
Ala Glu Leu Asp Ala Gln His Leu Gln Lys Leu
1               5                   10


<210> 21631
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<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; A2301

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Gln His Leu Gln Lys Leu Leu Thr Ile
1               5


<210> 21632
<211> 9
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<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B0801

<400> 21632
Gln His Leu Gln Lys Leu Leu Thr Ile
1               5


<210> 21633

<211> 10
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<220>
<223> AACR GENIE Results; APC_p.S770Qfs*7; B4403

<400> 21633
Ala Glu Leu Asp Ala Gln His Leu Gln Lys
1               5                   10


<210> 21634
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; B4001

<400> 21634
Gly Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21635
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; B4403

<400> 21635
Gly Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21636
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; B4402

<400> 21636
Gly Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21637
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<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; C0802

<400> 21637
Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21638
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; C0501

<400> 21638
Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21639
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; B0702

<400> 21639
Gly Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21640
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; A2301

<400> 21640
Gly Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21641
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; B1501

<400> 21641
Gly Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21642
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; C0401

<400> 21642
Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21643
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; B3801

<400> 21643
Gly Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21644
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1023Nfs*6; A0101

<400> 21644
Glu Leu Asp Asn Thr Asn Lys Leu
1               5


<210> 21645
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1301Sfs*10; A6801

<400> 21645
Thr Thr Gln Glu Ala Asp Ser Ala Asn Ser Arg
1               5                   10


<210> 21646
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1301Sfs*10; A3101

<400> 21646
Thr Thr Gln Glu Ala Asp Ser Ala Asn Ser Arg
1               5                   10


<210> 21647
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1301Sfs*10; A1101

<400> 21647
Thr Thr Gln Glu Ala Asp Ser Ala Asn Ser Arg
1               5                   10


<210> 21648
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1438Hfs*35; B1501

<400> 21648
Lys Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1438Hfs*35; A2301

<400> 21649

Lys Tyr Leu Lys Ile Lys His Leu Leu
1               5


<210> 21650
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1438Hfs*35; A2301

<400> 21650
Lys Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21651
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1438Hfs*35; B0702

<400> 21651
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5


<210> 21652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1445Qfs*28; B1501

<400> 21652
Gln Gln Leu Lys Pro Ser Glu Lys Tyr
1               5


<210> 21653
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1445Qfs*28; B0702

<400> 21653
Lys Pro Ser Glu Lys Tyr Leu Lys Ile
1               5

<210> 21654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1487Ifs*25; C1502

<400> 21654
Tyr Ser Arg Trp Ile Phe Leu Phe Ile
1               5


<210> 21655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1487Ifs*25; A2301

<400> 21655
Lys Tyr Ser Arg Trp Ile Phe Leu Phe
1               5


<210> 21656
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Ifs*25; A3101

<400> 21656
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1487Ifs*25; A6801

<400> 21657
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5

<210> 21658
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Ifs*25; A1101

<400> 21658
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21659
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Nfs*27; B3501

<400> 21659
Leu Pro Asp Ala Asp Asn Phe Ile Thr Phe
1               5                   10


<210> 21660
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Nfs*27; C1502

<400> 21660
Tyr Ser Arg Trp Ile Phe Leu Phe Ile
1               5


<210> 21661
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Nfs*27; A2301

<400> 21661
Lys Tyr Ser Arg Trp Ile Phe Leu Phe
1               5


<210> 21662
<211> 9

<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Nfs*27; A3101

<400> 21662
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21663
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Nfs*27; A6801

<400> 21663
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1487Nfs*27; A1101

<400> 21664
Ile Gln Pro Glu Cys Ser Glu Pro Arg
1               5


<210> 21665
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1487Nfs*27; B3501

<400> 21665
Asp Ala Asp Asn Phe Ile Thr Phe
1               5


<210> 21666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1487Yfs*18; A0201

<400> 21666
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21667
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1487Yfs*18; B1801

<400> 21667
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21668
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1493Rfs*14; B3701

<400> 21668
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21669
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1493Rfs*14; A0201

<400> 21669
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21670
<211> 8
<212> PRT
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<220>

<223> AACR GENIE Results; APC_p.T1493Rfs*14; B4002

<400> 21670
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21671
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1493Rfs*14; A6802

<400> 21671
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21672
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1493Rfs*14; B1801

<400> 21672
Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21673
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1493Rfs*14; A3101

<400> 21673
Gln Met Asp Phe Leu Val His Pro Ala
1               5


<210> 21674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1556Lfs*9; A6801

<400> 21674
Glu Ala Glu Lys Leu Leu Ile Leu Lys
1               5


<210> 21675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1556Lfs*9; B4001

<400> 21675
Lys Glu Ala Glu Lys Leu Leu Ile Leu
1               5


<210> 21676
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1556Nfs*3; B4403

<400> 21676
Gln Glu Lys Glu Ala Glu Lys Asn Tyr
1               5


<210> 21677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1556Nfs*3; B4402

<400> 21677
Gln Glu Lys Glu Ala Glu Lys Asn Tyr
1               5


<210> 21678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1556Nfs*3; B4102

<400> 21678
Gln Glu Lys Glu Ala Glu Lys Asn Tyr

1 5

<210> 21679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.T1556Nfs*3; B4405

<400> 21679
Gln Glu Lys Glu Ala Glu Lys Asn Tyr
1 5

<210> 21680
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.T1556Nfs*3; A2301

<400> 21680
Gln Glu Lys Glu Ala Glu Lys Asn Tyr
1 5

<210> 21681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.V1452Yfs*21; A2301

<400> 21681
Glu Tyr Leu Lys Ile Lys His Leu Leu
1 5

<210> 21682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.V1452Yfs*21; A2402

<400> 21682
Glu Tyr Leu Lys Ile Lys His Leu Leu
1 5

<210> 21683
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.V1452Yfs*21; A2301

<400> 21683
Glu Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21684
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.V1452Yfs*21; A2402

<400> 21684
Glu Tyr Leu Lys Ile Lys His Leu Leu Leu
1               5                   10


<210> 21685
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; B3901

<400> 21685
Thr His Ser Asn Thr Ile Ser Leu
1               5


<210> 21686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A3303

<400> 21686
His Ser Asn Thr Ile Ser Leu Ser Arg
1               5


<210> 21687

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A6801

<400> 21687
His Ser Asn Thr Ile Ser Leu Ser Arg
1               5


<210> 21688
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; B3801

<400> 21688
Thr His Ser Asn Thr Ile Ser Leu
1               5


<210> 21689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A3301

<400> 21689
His Ser Asn Thr Ile Ser Leu Ser Arg
1               5


<210> 21690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; B1302

<400> 21690
Ile Gln Ile Gly His Val Leu Cys Leu
1               5


<210> 21691
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A3101

<400> 21691
His Ser Asn Thr Ile Ser Leu Ser Arg
1               5


<210> 21692
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; C0304

<400> 21692
His Thr His Ser Asn Thr Ile Ser Leu
1               5


<210> 21693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A3001

<400> 21693
His Thr His Ser Asn Thr Ile Ser Leu
1               5


<210> 21694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; B1501

<400> 21694
Ile Gln Ile Gly His Val Leu Cys Leu
1               5


<210> 21695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A6802

<400> 21695
His Thr His Ser Asn Thr Ile Ser Leu
1               5


<210> 21696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; B4002

<400> 21696
His Thr His Ser Asn Thr Ile Ser Leu
1               5


<210> 21697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; B3503

<400> 21697
His Thr His Ser Asn Thr Ile Ser Leu
1               5


<210> 21698
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A3303

<400> 21698
His Thr His Ser Asn Thr Ile Ser Leu Ser Arg
1               5                   10


<210> 21699
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; APC_p.Y935Ifs*19; A6801

<400> 21699
His Thr His Ser Asn Thr Ile Ser Leu Ser Arg
1               5                   10


<210> 21700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.A597T; A3101

<400> 21700
Lys Gln Lys Tyr Leu Cys Thr Ser Arg
1               5


<210> 21701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.F814V; B5801

<400> 21701
Val Ser Ile Ile Pro Val Asp Gly Leu
1               5


<210> 21702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.F814V; A6802

<400> 21702
Leu Val Ser Ile Ile Pro Val Asp Gly Leu
1               5                   10


<210> 21703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.F814V; C0304

<400> 21703

Val Ser Ile Ile Pro Val Asp Gly Leu
1               5


<210> 21704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.F814V; B1501

<400> 21704
Val Ser Ile Ile Pro Val Asp Gly Leu
1               5


<210> 21705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.F814V; B4001

<400> 21705
Val Ser Ile Ile Pro Val Asp Gly Leu
1               5


<210> 21706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.F814V; C0303

<400> 21706
Val Ser Ile Ile Pro Val Asp Gly Leu
1               5


<210> 21707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.F814V; A0201

<400> 21707
Leu Leu Leu Val Ser Ile Ile Pro Val
1               5

<210> 21708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.R609M; A1101

<400> 21708
Cys Thr Ile Asp Lys Phe Arg Met Lys
1               5


<210> 21709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AR_p.R609M; A0301

<400> 21709
Cys Thr Ile Asp Lys Phe Arg Met Lys
1               5


<210> 21710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARAF_p.F101C; B5101

<400> 21710
Val Pro Leu Thr Met His Asn Cys Val
1               5


<210> 21711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B1501

<400> 21711
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5

<210> 21712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B3501

<400> 21712
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21713
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; C0303

<400> 21713
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21714
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B1501

<400> 21714
Ala Val Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5                   10


<210> 21715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; C0304

<400> 21715
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21716
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; C0202

<400> 21716
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; C1203

<400> 21717
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21718
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B0702

<400> 21718
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B5101

<400> 21719
Val Ala Ala Ala Ala Ala Ala Ala Val
1               5


<210> 21720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; C1601

<400> 21720
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B3501

<400> 21721
Val Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5                   10


<210> 21722
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B1501

<400> 21722
Val Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5                   10


<210> 21723
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; B3501

<400> 21723
Ala Val Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5                   10


<210> 21724
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID1A_p.A167dup; C0303

<400> 21724
Val Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5                   10


<210> 21725
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A167dup; A3201

<400> 21725
Ala Ala Ala Ala Ala Ala Ala Val Phe
1               5


<210> 21726
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A45dup; A6801

<400> 21726
Glu Ala Ala Ala Ala Ala Ala Ala Ala Glu Arg
1               5                   10


<210> 21727
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.A45dup; A6801

<400> 21727
Ala Ala Ala Ala Ala Ala Ala Ala Glu Arg
1               5                   10


<210> 21728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A2601

<400> 21728
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1801

<400> 21729
Asp Glu Leu Ile Gly Phe Thr Ser His
1               5


<210> 21730
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1801

<400> 21730
Asp Glu Asn His Ser Arg Val Tyr
1               5


<210> 21731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A0201

<400> 21731
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B0801

<400> 21732
Glu Leu Ile Gly Phe Thr Ser His Leu

1 5

<210> 21733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C0102

<400> 21733
Glu Leu Ile Gly Phe Thr Ser His Leu
1 5

<210> 21734
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B3801

<400> 21734
Gly His Leu Gly Ile Thr Val Asp Glu Leu
1 5 10

<210> 21735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A6801

<400> 21735
Glu Leu Ile Gly Phe Thr Ser His Leu
1 5

<210> 21736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1501

<400> 21736
Glu Leu Ile Gly Phe Thr Ser His Leu
1 5

<210> 21737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B0801

<400> 21737
Glu Asn His Ser Arg Val Tyr Ser Val
1               5


<210> 21738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1302

<400> 21738
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21739
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B5701

<400> 21739
Ile Thr Val Asp Glu Leu Ile Gly Phe
1               5


<210> 21740
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A2301

<400> 21740
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21741

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C1601

<400> 21741
Val Tyr Ser Val Arg Ile Thr Ala Val
1               5


<210> 21742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B0801

<400> 21742
Val Tyr Ser Val Arg Ile Thr Ala Val
1               5


<210> 21743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A2402

<400> 21743
Val Tyr Ser Val Arg Ile Thr Ala Val
1               5


<210> 21744
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B5101

<400> 21744
Thr Ala Val Gly His Leu Gly Ile
1               5


<210> 21745
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B3801

<400> 21745
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C0602

<400> 21746
Val Arg Ile Thr Ala Val Gly His Leu
1               5


<210> 21747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A0301

<400> 21747
Ser Val Arg Ile Thr Ala Val Gly His Leu
1               5                   10


<210> 21748
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1801

<400> 21748
Asp Glu Leu Ile Gly Phe Thr Ser
1               5


<210> 21749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B2705

<400> 21749
Val Arg Ile Thr Ala Val Gly His Leu
1               5


<210> 21750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B0702

<400> 21750
Ser Val Arg Ile Thr Ala Val Gly His Leu
1               5                   10


<210> 21751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A2601

<400> 21751
Ile Thr Val Asp Glu Leu Ile Gly Phe
1               5


<210> 21752
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B5101

<400> 21752
Val Gly His Leu Gly Ile Thr Val
1               5


<210> 21753
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C1203

<400> 21753
Tyr Ser Val Arg Ile Thr Ala Val
1               5


<210> 21754
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B0801

<400> 21754
Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A2902

<400> 21755
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C1502

<400> 21756
Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A3001

<400> 21757

Glu Leu Ile Gly Phe Thr Ser His Leu
1 5

<210> 21758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A2301

<400> 21758
Val Tyr Ser Val Arg Ile Thr Ala Val
1 5

<210> 21759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B4403

<400> 21759
Glu Leu Ile Gly Phe Thr Ser His Leu
1 5

<210> 21760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1402

<400> 21760
Glu Asn His Ser Arg Val Tyr Ser Val
1 5

<210> 21761
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1302

<400> 21761
Tyr Ser Val Arg Ile Thr Ala Val
1 5

<210> 21762
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B5101

<400> 21762
Tyr Ser Val Arg Ile Thr Ala Val
1               5


<210> 21763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A3101

<400> 21763
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21764
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C0501

<400> 21764
Thr Val Asp Glu Leu Ile Gly Phe
1               5


<210> 21765
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1501

<400> 21765
Ile Thr Val Asp Glu Leu Ile Gly Phe
1               5

<210> 21766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; A1101

<400> 21766
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21767
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1801

<400> 21767
Asp Glu Leu Ile Gly Phe Thr Ser His Leu
1               5                   10


<210> 21768
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B3501

<400> 21768
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B0801

<400> 21769
Tyr Ser Val Arg Ile Thr Ala Val
1               5


<210> 21770
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C0304

<400> 21770
Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; B1402

<400> 21771
Val Arg Ile Thr Ala Val Gly His Leu
1               5


<210> 21772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.E2250Rfs*28; C0304

<400> 21772
Glu Leu Ile Gly Phe Thr Ser His Leu
1               5


<210> 21773
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1215I; B0702

<400> 21773
Thr Pro Asn Pro Gly Tyr Gln Pro Ser Ile
1               5                   10


<210> 21774
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1215I; B3501

<400> 21774
Thr Pro Asn Pro Gly Tyr Gln Pro Ser Ile
1               5                   10


<210> 21775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1215I; B3501

<400> 21775
Gln Pro Ser Ile Asn Thr Ser Asp Met
1               5


<210> 21776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1215I; B0702

<400> 21776
Gln Pro Ser Ile Asn Thr Ser Asp Met
1               5


<210> 21777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B3501

<400> 21777
Phe Pro Ser Gln Gln Thr Thr Val Tyr
1               5


<210> 21778
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID1A_p.M1361V; B3501

<400> 21778
Ser Pro Phe Pro Ser Gln Gln Thr Thr Val Tyr
1               5                   10


<210> 21779
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; A0301

<400> 21779
Thr Val Tyr Gln Gln Gln Gln Gln Asn Tyr Lys
1               5                   10


<210> 21780
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; A1101

<400> 21780
Thr Val Tyr Gln Gln Gln Gln Gln Asn Tyr Lys
1               5                   10


<210> 21781
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; A2601

<400> 21781
Thr Val Tyr Gln Gln Gln Gln Gln Asn Tyr
1               5                   10


<210> 21782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; A2402

<400> 21782
Val Tyr Gln Gln Gln Gln Gln Asn Tyr
1               5


<210> 21783
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B1501

<400> 21783
Thr Val Tyr Gln Gln Gln Gln Gln Asn Tyr
1               5                   10


<210> 21784
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B5101

<400> 21784
Ser Pro Phe Pro Ser Gln Gln Thr Thr Val
1               5                   10


<210> 21785
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B1501

<400> 21785
Ser Pro Phe Pro Ser Gln Gln Thr Thr Val Tyr
1               5                   10


<210> 21786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B3501

<400> 21786
Thr Val Tyr Gln Gln Gln Gln Gln Asn Tyr

1 5 10

<210> 21787
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; A0301

<400> 21787
Thr Val Tyr Gln Gln Gln Gln Gln Asn Tyr
1 5 10

<210> 21788
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B0702

<400> 21788
Ser Pro Phe Pro Ser Gln Gln Thr Thr Val
1 5 10

<210> 21789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B5101

<400> 21789
Phe Pro Ser Gln Gln Thr Thr Val
1 5

<210> 21790
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B1501

<400> 21790
Val Tyr Gln Gln Gln Gln Gln Asn Tyr
1 5

<210> 21791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; A1101

<400> 21791
Thr Val Tyr Gln Gln Gln Gln Gln Asn Tyr
1               5                   10


<210> 21792
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B1501

<400> 21792
Phe Pro Ser Gln Gln Thr Thr Val Tyr
1               5


<210> 21793
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B1501

<400> 21793
Pro Ser Gln Gln Thr Thr Val Tyr
1               5


<210> 21794
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; A1101

<400> 21794
Val Tyr Gln Gln Gln Gln Gln Asn Tyr Lys
1               5                   10


<210> 21795

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.M1361V; B0702

<400> 21795
Ser Pro Phe Pro Ser Gln Gln Thr Thr Val Tyr
1               5                   10


<210> 21796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21796
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 21797
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 21797
Asp Ala Leu Pro Ala Gly Cys Val
1               5


<210> 21798
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21798
Leu Pro Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5                   10


<210> 21799
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 21799
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21800
Leu Pro Ala Ala Ala Thr Ser Ala Ala
1               5


<210> 21801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A2601

<400> 21801
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5


<210> 21802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21802
Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5


<210> 21803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21803
Leu Pro Ala Ala Ala Thr Ser Ala Ala
1               5


<210> 21804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21804
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 21805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0303

<400> 21805
Ala Ala Thr Ser Ala Ala Ser Thr Leu
1               5


<210> 21806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21806
Ala Ala Thr Ser Ala Ala Ser Thr Leu
1               5


<210> 21807
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6801

<400> 21807
Leu Pro Ser Thr Ala Gly Ala Ile Ser Arg
1               5                   10


<210> 21808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21808
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 21809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 21809
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0303

<400> 21810
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21811
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21811

Ala Pro Pro Glu Pro Ala Pro Leu Leu Thr Ala
1 5 10

<210> 21812
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21812
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu Leu
1 5 10

<210> 21813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21813
Val Pro Gly Ser Ile Pro Leu Pro Ala
1 5

<210> 21814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1701

<400> 21814
Gly Ala Ile Ser Arg Phe Ile Trp Val
1 5

<210> 21815
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21815
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1 5

<210> 21816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21816
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 21817
Thr Ala Pro Val Leu Ser Ala Ser Ile
1               5


<210> 21818
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21818
Val Pro Gly Ser Ile Pro Leu Pro Ala Val
1               5                   10


<210> 21819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 21819
Ala Pro Val Leu Ser Ala Ser Ile Leu
1               5

<210> 21820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 21820
Thr Ala Ala Pro Pro Glu Pro Ala Pro
1               5


<210> 21821
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21821
Val Pro Ala Asn Cys Leu Phe Pro Ala Ala
1               5                   10


<210> 21822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21822
Leu Pro Ala Ala Ile Pro Ala Ser Thr
1               5


<210> 21823
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21823
Ala Pro Val Leu Ser Ala Ser Ile Leu
1               5


<210> 21824
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 21824
Ala Ile Pro Ala Ser Thr Ser Ala Val
1               5


<210> 21825
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B2702

<400> 21825
Leu Pro Ser Thr Ala Gly Ala Ile Ser Arg
1               5                   10


<210> 21826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21826
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 21827
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21828
Gln Pro Gln Ser Ser Thr Thr Thr Ala
1               5


<210> 21829
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21829
Leu Pro Ala Ala Ala Thr Ser Ala
1               5


<210> 21830
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 21830
Thr Leu Asp Ala Leu Pro Ala Gly Cys
1               5


<210> 21831
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21831
Thr Ala Ala Pro Pro Glu Pro Ala Pro
1               5


<210> 21832
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21832
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21833
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5701

<400> 21833
Ser Thr Ala Gly Ala Ile Ser Arg Phe Ile Trp
1               5                   10


<210> 21834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 21834
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 21835
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21836
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 21836
Thr Ala Pro Val Leu Ser Ala Ser Ile Leu
1               5                   10


<210> 21837
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21837
Leu Pro Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5                   10


<210> 21838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21838
Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5


<210> 21839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 21839
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21840
Ser Ala Val Pro Gly Ser Ile Pro Leu

1 5

<210> 21841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 21841
Thr Ala Pro Val Leu Ser Ala Ser Ile
1 5

<210> 21842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21842
Leu Pro Ala Gly Cys Val Ser Ser Ala
1 5

<210> 21843
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21843
Thr Ala Thr Gly Ser Val Ser Leu
1 5

<210> 21844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 21844
Ala Leu Pro Ser Thr Ala Gly Ala Ile
1 5

<210> 21845
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21845
Phe Pro Ala Ala Leu Pro Ser Thr
1               5


<210> 21846
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 21846
Ile Pro Ala Ser Thr Ser Ala Val
1               5


<210> 21847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21847
Gln Pro Gln Ser Ser Thr Thr Thr Ala
1               5


<210> 21848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21848
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21849

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21849
Ile Pro Leu Pro Ala Val Asp Asp Thr Ala Ala
1               5                   10


<210> 21850
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21850
Thr Thr Ala Pro Val Leu Ser Ala Ser Ile
1               5                   10


<210> 21851
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21851
Ala Pro Val Leu Ser Ala Ser Ile Leu Pro Ala
1               5                   10


<210> 21852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21852
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 21853
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21853
Gly Ser Val Ser Leu Pro Ala Ala Ala
1               5


<210> 21854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3901

<400> 21854
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21855
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 21855
Ala Val Pro Gly Ser Ile Pro Leu Pro Ala Val
1               5                   10


<210> 21856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21856
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21857
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21857
Phe Pro Ala Ala Leu Pro Ser Thr Ala Gly Ala
1               5                   10


<210> 21858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21858
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21859
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21859
Ile Pro Ala Ser Thr Ser Ala Val
1               5


<210> 21860
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 21860
Ala Pro Val Ser Ala Val Pro Ala Asn Cys Leu
1               5                   10


<210> 21861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A1101

<400> 21861
Ala Thr Gly Ser Val Ser Leu Pro Ala
1               5


<210> 21862
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21862
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21863
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21863
Phe Pro Ala Ala Leu Pro Ser Thr Ala Gly
1               5                   10


<210> 21864
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 21864
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21865

Ala Pro Pro Glu Pro Ala Pro Leu Leu
1 5

<210> 21866
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21866
Phe Pro Ala Ala Leu Pro Ser Thr Ala Gly
1 5 10

<210> 21867
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 21867
Leu Pro Ser Thr Ala Gly Ala Ile
1 5

<210> 21868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B1302

<400> 21868
Ala Leu Pro Ser Thr Ala Gly Ala Ile
1 5

<210> 21869
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21869
Phe Pro Ala Ala Leu Pro Ser Thr
1 5

<210> 21870
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21870
Ala Pro Val Ser Ala Val Pro Ala Asn
1               5


<210> 21871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B4601

<400> 21871
Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5


<210> 21872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 21872
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21873
Ser Ala Val Pro Gly Ser Ile Pro Leu
1               5

<210> 21874
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21874
Phe Pro Ala Ala Leu Pro Ser Thr Ala Gly
1               5                   10


<210> 21875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21875
Leu Pro Ala Ala Ala Thr Ser Ala Ala
1               5


<210> 21876
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21876
Ala Pro Val Ser Ala Val Pro Ala
1               5


<210> 21877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21877
Ala Pro Val Ser Ala Val Pro Ala Asn
1               5


<210> 21878
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1601

<400> 21878
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1502

<400> 21879
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 21880
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21880
Ala Pro Pro Glu Pro Ala Pro Leu Leu Thr Ala
1               5                   10


<210> 21881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 21881
Ser Ala Pro Val Ser Ala Val Pro Ala
1               5


<210> 21882
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6801

<400> 21882
Asp Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21883
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B2702

<400> 21883
Phe Pro Ala Ala Leu Pro Ser Thr Ala Gly
1               5                   10


<210> 21884
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 21884
Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5


<210> 21885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 21885
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21886
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21886
Val Pro Gly Ser Ile Pro Leu Pro Ala
1               5


<210> 21887
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21887
Leu Pro Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5                   10


<210> 21888
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 21888
Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5


<210> 21889
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21889
Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21890
Thr Ala Ala Pro Pro Glu Pro Ala Pro
1               5


<210> 21891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21891
Val Pro Gly Ser Ile Pro Leu Pro Ala
1               5


<210> 21892
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 21892
Thr Ala Thr Gly Ser Val Ser Leu
1               5


<210> 21893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21893
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B1501

<400> 21894
Ser Thr Ala Gly Ala Ile Ser Arg Phe

1 5

<210> 21895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 21895
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1 5

<210> 21896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21896
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1 5

<210> 21897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 21897
Ser Leu Pro Ala Ala Ala Thr Ser Ala
1 5

<210> 21898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6801

<400> 21898
Pro Ser Thr Ala Gly Ala Ile Ser Arg
1 5

<210> 21899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21899
Leu Pro Ala Ala Ala Thr Ser Ala Ala
1               5


<210> 21900
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21900
Ser Val Ser Leu Pro Ala Ala Ala Thr Ser Ala
1               5                   10


<210> 21901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21901
Ala Pro Val Ser Ala Val Pro Ala Asn Cys
1               5                   10


<210> 21902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21902
Leu Pro Ala Ala Ile Pro Ala Ser Thr
1               5


<210> 21903

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 21903
Ala Val Pro Gly Ser Ile Pro Leu Pro Ala Val
1               5                   10


<210> 21904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 21904
Ser Ala Val Pro Gly Ser Ile Pro Leu
1               5


<210> 21905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 21905
Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5


<210> 21906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21906
Ala Ala Thr Ser Ala Ala Ser Thr Leu
1               5


<210> 21907
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1203

<400> 21907
Gly Ala Ile Ser Arg Phe Ile Trp Val
1               5


<210> 21908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 21908
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 21909
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21909
Asp Ala Leu Pro Ala Gly Cys Val
1               5


<210> 21910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B1302

<400> 21910
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 21911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 21911
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21912
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0303

<400> 21912
Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21913
Ile Pro Leu Pro Ala Val Asp Asp Thr Ala
1               5                   10


<210> 21914
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21914
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5                   10


<210> 21915
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21915
Thr Thr Ala Pro Val Leu Ser Ala Ser Ile Leu
1               5                   10


<210> 21916
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21916
Ser Ala Ser Ile Leu Pro Ala Ala
1               5


<210> 21917
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 21917
Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21918
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1701

<400> 21918
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5                   10


<210> 21919
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21919

Glu Pro Ala Pro Leu Leu Thr Ala
1               5


<210> 21920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A3001

<400> 21920
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B1501

<400> 21921
Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5


<210> 21922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21922
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 21923
Gly Ser Val Ser Leu Pro Ala Ala Ala
1               5

<210> 21924
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21924
Leu Pro Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5                   10


<210> 21925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21925
Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5


<210> 21926
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21926
Gly Ser Val Ser Leu Pro Ala Ala
1               5


<210> 21927
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21927
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5                   10

<210> 21928
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21928
Leu Pro Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5                   10


<210> 21929
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B4002

<400> 21929
Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A3303

<400> 21930
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21931
Leu Pro Ala Ala Ile Pro Ala Ser Thr
1               5


<210> 21932
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1701

<400> 21932
Ser Ala Val Pro Gly Ser Ile Pro Leu
1               5


<210> 21933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0202

<400> 21933
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5


<210> 21934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1502

<400> 21934
Gly Ala Ile Ser Arg Phe Ile Trp Val
1               5


<210> 21935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 21935
Ala Ala Thr Ser Ala Ala Ser Thr Leu
1               5


<210> 21936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21936
Leu Pro Ala Ala Ile Pro Ala Ser Thr Ser
1               5                   10


<210> 21937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21937
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 21938
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 21939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21939
Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5


<210> 21940
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 21940
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 21941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21941
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 21942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6801

<400> 21942
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5


<210> 21943
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21943
Ser Thr Leu Asp Ala Leu Pro Ala Gly Cys
1               5                   10


<210> 21944
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21944
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5                   10


<210> 21945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3801

<400> 21945
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21946
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21946
Phe Pro Ala Ala Leu Pro Ser Thr
1               5


<210> 21947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21947
Leu Pro Ala Gly Cys Val Ser Ser Ala
1               5


<210> 21948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21948
Leu Pro Ala Ala Ala Thr Ser Ala Ala

1 5

<210> 21949
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21949
Pro Pro Glu Pro Ala Pro Leu Leu
1 5

<210> 21950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 21950
Thr Thr Thr Ala Pro Val Leu Ser Ala
1 5

<210> 21951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 21951
Ser Ala Val Pro Ala Asn Cys Leu Phe
1 5

<210> 21952
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21952
Ser Thr Leu Asp Ala Leu Pro Ala Gly Cys Val
1 5 10

<210> 21953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21953
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 21954
Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5


<210> 21955
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 21955
Gly Ser Val Ser Leu Pro Ala Ala Ala
1               5


<210> 21956
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21956
Leu Pro Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5                   10


<210> 21957

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 21957
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21958
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3901

<400> 21958
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 21959
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 21960
Pro Glu Pro Ala Pro Leu Leu Thr Ala
1               5


<210> 21961
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21961
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 21962
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5


<210> 21963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6801

<400> 21963
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 21964
Ser Thr Leu Asp Ala Leu Pro Ala Gly
1               5


<210> 21965
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21965
Leu Pro Ala Ala Ala Thr Ser Ala
1               5


<210> 21966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 21966
Ala Pro Val Leu Ser Ala Ser Ile Leu
1               5


<210> 21967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B4601

<400> 21967
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 21968
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21968
Ile Pro Leu Pro Ala Val Asp Asp Thr Ala Ala
1               5                   10


<210> 21969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1502

<400> 21969
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21970
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A3001

<400> 21970
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 21971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0303

<400> 21971
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 21972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A3001

<400> 21972
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 21973
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 21973

Leu Pro Ala Ala Ile Pro Ala Ser Thr
1               5


<210> 21974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 21974
Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5


<210> 21975
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21975
Ile Pro Ala Ser Thr Ser Ala Val
1               5


<210> 21976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 21976
Leu Thr Ala Thr Gly Ser Val Ser Leu
1               5


<210> 21977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 21977
Leu Pro Ala Ala Ala Thr Ser Ala Ala
1               5

<210> 21978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A1101

<400> 21978
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5


<210> 21979
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21979
Asp Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21980
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21980
Ile Pro Leu Pro Ala Val Asp Asp Thr Ala
1               5                   10


<210> 21981
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1601

<400> 21981
Ser Thr Thr Thr Ala Pro Val Leu
1               5

<210> 21982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21982
Ser Thr Ala Gly Ala Ile Ser Arg Phe Ile
1               5                   10


<210> 21983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 21983
Ser Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21984
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 21984
Ser Ala Val Pro Gly Ser Ile Pro Leu
1               5


<210> 21985
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0303

<400> 21985
Ser Ala Val Pro Gly Ser Ile Pro Leu
1               5


<210> 21986
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 21986
Trp Val Ser Gly Ile Leu Ser Pro Leu
1               5


<210> 21987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 21987
Val Ser Ala Val Pro Ala Asn Cys Leu
1               5


<210> 21988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 21988
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 21989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B1501

<400> 21989
Ala Ala Thr Ser Ala Ala Ser Thr Leu
1               5


<210> 21990
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21990
Leu Pro Ser Thr Ala Gly Ala Ile Ser Arg
1               5                   10


<210> 21991
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 21991
Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 21992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0301

<400> 21992
Ala Thr Gly Ser Val Ser Leu Pro Ala
1               5


<210> 21993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 21993
Ala Val Pro Gly Ser Ile Pro Leu Pro
1               5


<210> 21994
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5701

<400> 21994
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5


<210> 21995
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3801

<400> 21995
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5                   10


<210> 21996
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3901

<400> 21996
Asp Ala Leu Pro Ala Gly Cys Val
1               5


<210> 21997
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 21997
Thr Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5                   10


<210> 21998
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A1101

<400> 21998
Ala Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5                   10


<210> 21999
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6801

<400> 21999
Thr Thr Ala Pro Val Leu Ser Ala Ser Ile Leu
1               5                   10


<210> 22000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0602

<400> 22000
Ser Arg Phe Ile Trp Val Ser Gly Ile
1               5


<210> 22001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 22001
Ile Leu Pro Ala Ala Ile Pro Ala Ser
1               5


<210> 22002
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 22002
Thr Ala Gly Ala Ile Ser Arg Phe

1 5

<210> 22003
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 22003
Ser Thr Leu Asp Ala Leu Pro Ala Gly Cys
1 5 10

<210> 22004
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 22004
Glu Pro Ala Pro Leu Leu Thr Ala
1 5

<210> 22005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 22005
Ser Ala Ser Ile Leu Pro Ala Ala Ile
1 5

<210> 22006
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 22006
Thr Ala Thr Gly Ser Val Ser Leu
1 5

<210> 22007
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 22007
Ile Pro Ala Ser Thr Ser Ala Val Pro
1               5


<210> 22008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 22008
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 22009
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 22009
Ala Leu Pro Ala Gly Cys Val Ser Ser Ala
1               5                   10


<210> 22010
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0302

<400> 22010
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 22011

<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 22011
Ala Ala Ser Thr Leu Asp Ala Leu
1               5


<210> 22012
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 22012
Ala Pro Val Ser Ala Val Pro Ala
1               5


<210> 22013
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 22013
Leu Pro Ala Ala Ala Thr Ser Ala
1               5


<210> 22014
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0801

<400> 22014
Asp Ala Leu Pro Ala Gly Cys Val
1               5


<210> 22015
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 22015
Ser Thr Ser Ala Val Pro Gly Ser Ile
1               5


<210> 22016
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 22016
Ala Pro Val Ser Ala Val Pro Ala Asn Cys Leu
1               5                   10


<210> 22017
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 22017
Phe Pro Ala Ala Leu Pro Ser Thr
1               5


<210> 22018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 22018
Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5


<210> 22019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 22019
Ser Ala Val Pro Ala Asn Cys Leu Phe
1               5


<210> 22020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 22020
Ala Ala Pro Pro Glu Pro Ala Pro Leu
1               5


<210> 22021
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 22021
Thr Thr Thr Ala Pro Val Leu Ser Ala
1               5


<210> 22022
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A1101

<400> 22022
Ser Val Ser Leu Pro Ala Ala Ala Thr Ser Ala
1               5                   10


<210> 22023
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A1101

<400> 22023
Ser Thr Leu Asp Ala Leu Pro Ala Gly Cys
1               5                   10


<210> 22024
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3502

<400> 22024
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 22025
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5501

<400> 22025
Val Pro Gly Ser Ile Pro Leu Pro Ala Val
1               5                   10


<210> 22026
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 22026
Leu Pro Ser Thr Ala Gly Ala Ile
1               5


<210> 22027
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3901

<400> 22027

Thr Ala Ala Pro Pro Glu Pro Ala Pro
1 5

<210> 22028
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 22028
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1 5

<210> 22029
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 22029
Ala Thr Gly Ser Val Ser Leu Pro Ala
1 5

<210> 22030
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 22030
Ser Ile Leu Pro Ala Ala Ile Pro Ala
1 5

<210> 22031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B4601

<400> 22031
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1 5

<210> 22032
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 22032
Ala Ala Thr Ser Ala Ala Ser Thr Leu
1               5


<210> 22033
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 22033
Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5


<210> 22034
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 22034
Ala Pro Val Ser Ala Val Pro Ala
1               5


<210> 22035
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1701

<400> 22035
Ala Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5                   10

<210> 22036
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 22036
Thr Ala Thr Gly Ser Val Ser Leu Pro Ala Ala
1               5                   10


<210> 22037
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 22037
Phe Pro Ala Ala Leu Pro Ser Thr Ala
1               5


<210> 22038
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A3303

<400> 22038
Leu Pro Ser Thr Ala Gly Ala Ile Ser Arg
1               5                   10


<210> 22039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0303

<400> 22039
Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5


<210> 22040
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B1302

<400> 22040
Ser Ala Ser Ile Leu Pro Ala Ala Ile
1               5


<210> 22041
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A3001

<400> 22041
Ala Val Pro Gly Ser Ile Pro Leu Pro Ala
1               5                   10


<210> 22042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 22042
Ala Ala Thr Ser Ala Ala Ser Thr Leu
1               5


<210> 22043
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5502

<400> 22043
Ile Pro Ala Ser Thr Ser Ala Val Pro Gly
1               5                   10


<210> 22044
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 22044
Ala Pro Pro Glu Pro Ala Pro Leu Leu Thr Ala
1               5                   10


<210> 22045
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 22045
Ala Pro Val Leu Ser Ala Ser Ile
1               5


<210> 22046
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 22046
Ala Leu Pro Ala Gly Cys Val Ser Ser Ala
1               5                   10


<210> 22047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C1203

<400> 22047
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 22048
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 22048
Asp Thr Ala Ala Pro Pro Glu Pro Ala
1               5


<210> 22049
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 22049
Ser Thr Leu Asp Ala Leu Pro Ala Gly Cys
1               5                   10


<210> 22050
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0301

<400> 22050
Ala Leu Pro Ser Thr Ala Gly Ala Ile Ser Arg
1               5                   10


<210> 22051
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A1101

<400> 22051
Ala Val Pro Gly Ser Ile Pro Leu Pro Ala
1               5                   10


<210> 22052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 22052
Ser Thr Ala Gly Ala Ile Ser Arg Phe
1               5


<210> 22053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 22053
Ala Ile Pro Ala Ser Thr Ser Ala Val
1               5


<210> 22054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0206

<400> 22054
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 22055
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 22055
Ala Thr Ser Ala Ala Ser Thr Leu Asp Ala Leu
1               5                   10


<210> 22056
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3906

<400> 22056
Thr Thr Ala Pro Val Leu Ser Ala

1 5

<210> 22057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0102

<400> 22057
Ser Ala Ala Ser Thr Leu Asp Ala Leu
1 5

<210> 22058
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 22058
Ile Leu Pro Ala Ala Ile Pro Ala Ser Thr
1 5 10

<210> 22059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 22059
Val Ser Ser Ala Pro Val Ser Ala Val
1 5

<210> 22060
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6801

<400> 22060
Ile Pro Ala Ser Thr Ser Ala Val Pro Gly
1 5 10

<210> 22061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 22061
Leu Pro Ala Ala Ala Thr Ser Ala
1               5


<210> 22062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 22062
Val Ser Ser Ala Pro Val Ser Ala Val
1               5


<210> 22063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B1401

<400> 22063
Asp Ala Leu Pro Ala Gly Cys Val
1               5


<210> 22064
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0801

<400> 22064
Thr Ala Ala Pro Pro Glu Pro Ala Pro
1               5


<210> 22065

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5701

<400> 22065
Ala Gly Ala Ile Ser Arg Phe Ile Trp
1               5


<210> 22066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 22066
Leu Thr Ala Thr Gly Ser Val Ser Leu
1               5


<210> 22067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; C0304

<400> 22067
Val Ser Ala Val Pro Ala Asn Cys Leu
1               5


<210> 22068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 22068
Ala Pro Val Leu Ser Ala Ser Ile Leu
1               5


<210> 22069
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 22069
Ala Ala Ile Pro Ala Ser Thr Ser Ala
1               5


<210> 22070
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A6802

<400> 22070
Ser Ser Ala Pro Val Ser Ala Val Pro Ala
1               5                   10


<210> 22071
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 22071
Leu Pro Ala Ala Ala Thr Ser Ala Ala
1               5


<210> 22072
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3501

<400> 22072
Ser Ala Val Pro Gly Ser Ile Pro Leu
1               5


<210> 22073
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0205

<400> 22073
Ala Val Pro Gly Ser Ile Pro Leu Pro Ala Val
1               5                   10


<210> 22074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5101

<400> 22074
Leu Pro Ala Ala Ile Pro Ala Ser Thr
1               5


<210> 22075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5001

<400> 22075
Cys Val Ser Ser Ala Pro Val Ser Ala
1               5


<210> 22076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3901

<400> 22076
Ala Pro Pro Glu Pro Ala Pro Leu Leu
1               5


<210> 22077
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B3503

<400> 22077
Leu Pro Ala Ala Ala Thr Ser Ala
1               5


<210> 22078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; A0201

<400> 22078
Val Leu Ser Ala Ser Ile Leu Pro Ala
1               5


<210> 22079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5701

<400> 22079
Gly Ala Ile Ser Arg Phe Ile Trp
1               5


<210> 22080
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 22080
Ser Thr Thr Thr Ala Pro Val Leu
1               5


<210> 22081
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B0702

<400> 22081

Ala Pro Leu Leu Thr Ala Thr Gly Ser Val
1 5 10

<210> 22082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.Q507Sfs*116; B5801

<400> 22082
Leu Thr Ala Thr Gly Ser Val Ser Leu
1 5

<210> 22083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.R2158Q; A0201

<400> 22083
Phe Leu Ser Asp Gln Lys Asn Pro Val Cys
1 5 10

<210> 22084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.R2158Q; A0201

<400> 22084
Phe Leu Ser Asp Gln Lys Asn Pro Val
1 5

<210> 22085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.S733L; B0702

<400> 22085
Pro Pro Arg Pro Pro Ser Gly Gln Leu
1 5

<210> 22086
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1A_p.S733L; B0702

<400> 22086
Met Pro Pro Arg Pro Pro Ser Gly Gln Leu
1               5                   10


<210> 22087
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID1B_p.A350dup; B2702

<400> 22087
Gln Arg Phe Ala Gly Gln Thr Asp Gln His
1               5                   10


<210> 22088
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A6801

<400> 22088
Thr Thr Val Phe Pro Asn His Thr Val Lys Arg
1               5                   10


<210> 22089
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A1101

<400> 22089
Thr Thr Val Phe Pro Asn His Thr Val Lys
1               5                   10

<210> 22090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A6801

<400> 22090
Thr Thr Val Phe Pro Asn His Thr Val Lys
1               5                   10


<210> 22091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; C1502

<400> 22091
Thr Thr Val Phe Pro Asn His Thr Val
1               5


<210> 22092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A6801

<400> 22092
Thr Thr Val Phe Pro Asn His Thr Val
1               5


<210> 22093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; B1302

<400> 22093
Thr Thr Val Phe Pro Asn His Thr Val
1               5


<210> 22094
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A3101

<400> 22094
Thr Thr Val Phe Pro Asn His Thr Val Lys Arg
1               5                   10


<210> 22095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A2402

<400> 22095
Phe Tyr Lys Cys Leu Thr Thr Val Phe
1               5


<210> 22096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A2301

<400> 22096
Phe Tyr Lys Cys Leu Thr Thr Val Phe
1               5


<210> 22097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A0201

<400> 22097
Thr Thr Val Phe Pro Asn His Thr Val
1               5


<210> 22098
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.R572T; A0301

<400> 22098
Thr Thr Val Phe Pro Asn His Thr Val Lys
1               5                   10


<210> 22099
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.S759Y; B3501

<400> 22099
Gly Pro Gln Pro Val Thr Val Val Asn Tyr
1               5                   10


<210> 22100
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.S759Y; B3501

<400> 22100
Gln Pro Val Thr Val Val Asn Tyr
1               5


<210> 22101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID2_p.S759Y; B1501

<400> 22101
Pro Gln Pro Val Thr Val Val Asn Tyr
1               5


<210> 22102
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ARID2_p.S759Y; A0301

<400> 22102
Val Val Asn Tyr Gln Thr Leu Leu His
1               5


<210> 22103
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID5B_p.R34I; B4001

<400> 22103
Leu Glu Gly Lys Pro Ile Ile Leu
1               5


<210> 22104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID5B_p.R34I; A3001

<400> 22104
Glu Gly Lys Pro Ile Ile Leu Ser Leu
1               5


<210> 22105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID5B_p.R34I; C0501

<400> 22105
His Leu Glu Gly Lys Pro Ile Ile Leu
1               5


<210> 22106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ARID5B_p.R34I; B0801

<400> 22106
Glu Gly Lys Pro Ile Ile Leu Ser Leu
1               5


<210> 22107
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.G646Wfs*12; B5801

<400> 22107
Ala Thr Thr Ala Ile Gly Gly Gly Gly Trp
1               5                   10


<210> 22108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.G646Wfs*12; B5801

<400> 22108
Thr Thr Ala Ile Gly Gly Gly Gly Trp
1               5


<210> 22109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.G646Wfs*12; C0801

<400> 22109
Thr Thr Ala Ile Gly Gly Gly Gly Trp
1               5


<210> 22110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.G646Wfs*12; B5701

<400> 22110
Thr Thr Ala Ile Gly Gly Gly Gly Trp

1 5

<210> 22111
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.G646Wfs*12; B5801

<400> 22111
Ala Ala Thr Thr Ala Ile Gly Gly Gly Gly Trp
1 5 10

<210> 22112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.G646Wfs*12; A6801

<400> 22112
Thr Thr Ala Ile Gly Gly Gly Gly Trp
1 5

<210> 22113
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.P873L; B1801

<400> 22113
Asp Glu Leu Gly Leu Gly Gly Ser Cys Leu
1 5 10

<210> 22114
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; B4001

<400> 22114
Arg Glu Ala Ala Val Thr Lys Gly Ser Leu
1 5 10

<210> 22115
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; A1101

<400> 22115
Ala Val Thr Lys Gly Ser Leu Val Asp Lys
1               5                   10


<210> 22116
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; A1101

<400> 22116
Val Thr Lys Gly Ser Leu Val Asp Lys
1               5


<210> 22117
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; A0301

<400> 22117
Ala Val Thr Lys Gly Ser Leu Val Asp Lys
1               5                   10


<210> 22118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; A0301

<400> 22118
Val Thr Lys Gly Ser Leu Val Asp Lys
1               5


<210> 22119

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; A3101

<400> 22119
Val Thr Lys Gly Ser Leu Val Asp Lys
1               5


<210> 22120
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; A1101

<400> 22120
Ala Ala Val Thr Lys Gly Ser Leu Val Asp Lys
1               5                   10


<210> 22121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; A6801

<400> 22121
Val Thr Lys Gly Ser Leu Val Asp Lys
1               5


<210> 22122
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ASXL1_p.S1028L; B0801

<400> 22122
Ala Ala Val Thr Lys Gly Ser Leu
1               5


<210> 22123
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.A2274V; B1501

<400> 22123
Thr Gln Leu Pro Glu Arg Val Ile Phe
1               5


<210> 22124
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.A2274V; B1501

<400> 22124
Val Ile Phe Gln Ile Lys Gln Tyr
1               5


<210> 22125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.A2274V; B5701

<400> 22125
Arg Val Ile Phe Gln Ile Lys Gln Tyr
1               5


<210> 22126
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.A2274V; B5101

<400> 22126
Leu Pro Glu Arg Val Ile Phe Gln Ile
1               5


<210> 22127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.A2274V; B1501

<400> 22127
Arg Val Ile Phe Gln Ile Lys Gln Tyr
1               5


<210> 22128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.D2708N; A3303

<400> 22128
Asp Cys Val Gly Ser Asn Gly Lys Glu Arg
1               5                   10


<210> 22129
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.D2708N; A6801

<400> 22129
Asp Cys Val Gly Ser Asn Gly Lys Glu Arg
1               5                   10


<210> 22130
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.D2720Y; C0401

<400> 22130
Arg Tyr Asp Leu Arg Gln Asp Ala Val Met
1               5                   10


<210> 22131
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.D2721N; B3701

<400> 22131
Arg Asp Asn Leu Arg Gln Asp Ala Val
1               5


<210> 22132
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; B1501

<400> 22132
Ala Val Met Gln Gln Val Leu Gln Met
1               5


<210> 22133
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; A1101

<400> 22133
Ala Val Met Gln Gln Val Leu Gln Met
1               5


<210> 22134
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; B5101

<400> 22134
Asp Ala Val Met Gln Gln Val Leu
1               5


<210> 22135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; A0301

<400> 22135

Ala Val Met Gln Gln Val Leu Gln Met
1               5


<210> 22136
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; B0801

<400> 22136
Asp Ala Val Met Gln Gln Val Leu
1               5


<210> 22137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; A0201

<400> 22137
Ala Val Met Gln Gln Val Leu Gln Met
1               5


<210> 22138
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; B3501

<400> 22138
Asp Ala Val Met Gln Gln Val Leu
1               5


<210> 22139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; A2601

<400> 22139
Ala Val Met Gln Gln Val Leu Gln Met
1               5

<210> 22140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.F2732L; B3501

<400> 22140
Ala Val Met Gln Gln Val Leu Gln Met
1               5


<210> 22141
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.G2891D; C0501

<400> 22141
His Ile Asp Leu Asp Val Ala Phe
1               5


<210> 22142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.G2891D; B1501

<400> 22142
Val His Ile Asp Leu Asp Val Ala Phe
1               5


<210> 22143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.G2891D; B3501

<400> 22143
Val His Ile Asp Leu Asp Val Ala Phe
1               5

<210> 22144
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.H2038Q; A0301

<400> 22144
Arg Thr Tyr Glu Gln Glu Ala Met Trp Gly Lys
1               5                   10


<210> 22145
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.H2038Q; A1101

<400> 22145
Arg Thr Tyr Glu Gln Glu Ala Met Trp Gly Lys
1               5                   10


<210> 22146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.H2038Q; B4402

<400> 22146
Gln Glu Ala Met Trp Gly Lys Ala Leu
1               5


<210> 22147
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; B0702

<400> 22147
Ser Pro Asp Ser Tyr Gln Lys Ile Ile Leu
1               5                   10


<210> 22148
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; A2301

<400> 22148
Ser Tyr Gln Lys Ile Ile Leu Ala Ile
1               5


<210> 22149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; A2402

<400> 22149
Ser Tyr Gln Lys Ile Ile Leu Ala Ile
1               5


<210> 22150
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; B0801

<400> 22150
Asp Ser Tyr Gln Lys Ile Ile Leu
1               5


<210> 22151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; B5101

<400> 22151
Ser Pro Asp Ser Tyr Gln Lys Ile Ile
1               5


<210> 22152
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; B1402

<400> 22152
Asp Ser Tyr Gln Lys Ile Ile Leu
1               5


<210> 22153
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; B3501

<400> 22153
Ser Pro Asp Ser Tyr Gln Lys Ile Ile Leu
1               5                   10


<210> 22154
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L1419I; B5101

<400> 22154
Asp Ser Tyr Gln Lys Ile Ile Leu
1               5


<210> 22155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; C0304

<400> 22155
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22156
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ATM_p.L2877F; C0303

<400> 22156
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; A0201

<400> 22157
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; C0102

<400> 22158
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; B1501

<400> 22159
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; B3501

<400> 22160
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; C0202

<400> 22161
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; B0801

<400> 22162
Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5


<210> 22163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; A2402

<400> 22163
Ile Phe Ile Asn Glu Gln Ser Ala Glu Leu
1               5                   10


<210> 22164
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.L2877F; B0702

<400> 22164
Phe Ile Asn Glu Gln Ser Ala Glu Leu

1 5

<210> 22165
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.P2699L; A1101

<400> 22165
Ala Gly Gly Val Asn Leu Leu Lys
1 5

<210> 22166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.P2699L; A0201

<400> 22166
Asn Leu Leu Lys Ile Ile Asp Cys Val
1 5

<210> 22167
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.P2699L; A0301

<400> 22167
Arg Leu Ala Gly Gly Val Asn Leu Leu Lys
1 5 10

<210> 22168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.P2699L; A1101

<400> 22168
Leu Ala Gly Gly Val Asn Leu Leu Lys
1 5

<210> 22169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.P2699L; A0301

<400> 22169
Arg Leu Ala Gly Gly Val Asn Leu Leu
1               5


<210> 22170
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2724K; B0801

<400> 22170
Asp Leu Arg Lys Asp Ala Val Met
1               5


<210> 22171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2724K; B0702

<400> 22171
Lys Asp Ala Val Met Gln Gln Val Phe
1               5


<210> 22172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2724K; B4402

<400> 22172
Lys Asp Ala Val Met Gln Gln Val Phe
1               5


<210> 22173

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2730L; C0602

<400> 22173
Leu Arg Gln Asp Ala Val Met Gln Leu
1               5


<210> 22174
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2730L; B3501

<400> 22174
Asp Ala Val Met Gln Leu Val Phe
1               5


<210> 22175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2730L; A1101

<400> 22175
Ala Val Met Gln Leu Val Phe Gln Met
1               5


<210> 22176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2730L; C0702

<400> 22176
Leu Arg Gln Asp Ala Val Met Gln Leu
1               5


<210> 22177
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2730L; C0701

<400> 22177
Leu Arg Gln Asp Ala Val Met Gln Leu
1               5


<210> 22178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.Q2730L; A0201

<400> 22178
Ala Val Met Gln Leu Val Phe Gln Met
1               5


<210> 22179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2227C; B1302

<400> 22179
Ala Leu Cys Thr Val Ile Leu Glu Ile
1               5


<210> 22180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2227C; B5101

<400> 22180
Glu Pro Ile Met Ala Leu Cys Thr Val
1               5


<210> 22181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2227C; A0201

<400> 22181
Ala Leu Cys Thr Val Ile Leu Glu Ile
1               5


<210> 22182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; C0304

<400> 22182
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; C0303

<400> 22183
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; C1502

<400> 22184
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22185
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; B4001

<400> 22185
Gln Glu Leu Glu Leu Asp Glu Leu Ala Leu
1               5                   10


<210> 22186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; B1302

<400> 22186
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; B0801

<400> 22187
Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22188
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; A3001

<400> 22188
Gln Glu Leu Glu Leu Asp Glu Leu Ala Leu
1               5                   10


<210> 22189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; A3001

<400> 22189

Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; B5701

<400> 22190
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; C1203

<400> 22191
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; C1601

<400> 22192
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; B1501

<400> 22193
Thr Val Lys Val Gln Gln Glu Leu
1               5

<210> 22194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; C0202

<400> 22194
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; B4001

<400> 22195
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; A6801

<400> 22196
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5


<210> 22197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R2443Q; B3501

<400> 22197
Tyr Thr Val Lys Val Gln Gln Glu Leu
1               5

<210> 22198
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008C; A0301

<400> 22198
Lys Val Ala Glu Cys Val Leu Met Arg
1               5


<210> 22199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008C; A1101

<400> 22199
Lys Val Ala Glu Cys Val Leu Met Arg
1               5


<210> 22200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008C; B5001

<400> 22200
Gln Ser Phe Asn Lys Val Ala Glu Cys
1               5


<210> 22201
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008C; A3101

<400> 22201
Lys Val Ala Glu Cys Val Leu Met Arg
1               5


<210> 22202
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008H; A0301

<400> 22202
Lys Val Ala Glu His Val Leu Met Arg
1               5


<210> 22203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008H; A1101

<400> 22203
Lys Val Ala Glu His Val Leu Met Arg
1               5


<210> 22204
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008H; A0301

<400> 22204
Lys Val Ala Glu His Val Leu Met Arg Leu
1               5                   10


<210> 22205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008H; A3101

<400> 22205
Lys Val Ala Glu His Val Leu Met Arg
1               5


<210> 22206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008H; A6801

<400> 22206
Lys Val Ala Glu His Val Leu Met Arg
1               5


<210> 22207
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R3008H; B4403

<400> 22207
Ala Glu His Val Leu Met Arg Leu
1               5


<210> 22208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337C; A2402

<400> 22208
Lys Tyr Ser Ser Gly Phe Cys Asn Ile
1               5


<210> 22209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337C; A2301

<400> 22209
Lys Tyr Ser Ser Gly Phe Cys Asn Ile
1               5


<210> 22210
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ATM_p.R337H; A2402

<400> 22210
Lys Tyr Ser Ser Gly Phe His Asn Ile
1               5


<210> 22211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; A2301

<400> 22211
Lys Tyr Ser Ser Gly Phe His Asn Ile
1               5


<210> 22212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; C1203

<400> 22212
Tyr Ser Ser Gly Phe His Asn Ile Ala
1               5


<210> 22213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; A1101

<400> 22213
Ser Gly Phe His Asn Ile Ala Val Lys
1               5


<210> 22214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; B3801

<400> 22214
His Asn Ile Ala Val Lys Glu Asn Leu
1               5


<210> 22215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; C1502

<400> 22215
Ser Ser Gly Phe His Asn Ile Ala Val
1               5


<210> 22216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; A3001

<400> 22216
Ser Gly Phe His Asn Ile Ala Val Lys
1               5


<210> 22217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; C1502

<400> 22217
Tyr Ser Ser Gly Phe His Asn Ile Ala Val
1               5                   10


<210> 22218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; A3001

<400> 22218
Tyr Ser Ser Gly Phe His Asn Ile Ala

1 5

<210> 22219
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; B3801

<400> 22219
Phe His Asn Ile Ala Val Lys Glu Asn Leu
1 5 10

<210> 22220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; A6801

<400> 22220
Ser Gly Phe His Asn Ile Ala Val Lys
1 5

<210> 22221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.R337H; A0301

<400> 22221
Ser Gly Phe His Asn Ile Ala Val Lys
1 5

<210> 22222
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; B5701

<400> 22222
Lys Met Met Glu Val Gln Lys Lys Val Phe
1 5 10

<210> 22223
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; B1801

<400> 22223
Met Glu Val Gln Lys Lys Val Phe
1               5


<210> 22224
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; B0801

<400> 22224
Met Glu Val Gln Lys Lys Val Phe
1               5


<210> 22225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; B1501

<400> 22225
Lys Met Met Glu Val Gln Lys Lys Val Phe
1               5                   10


<210> 22226
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; B4403

<400> 22226
Met Glu Val Gln Lys Lys Val Phe
1               5


<210> 22227

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; A0201

<400> 22227
Lys Met Met Glu Val Gln Lys Lys Val
1               5


<210> 22228
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; B4403

<400> 22228
Lys Met Met Glu Val Gln Lys Lys Val Phe
1               5                   10


<210> 22229
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; A0301

<400> 22229
Lys Met Met Glu Val Gln Lys Lys Val Phe
1               5                   10


<210> 22230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.S2812Vfs*3; A2402

<400> 22230
Lys Met Met Glu Val Gln Lys Lys Val Phe
1               5                   10


<210> 22231
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; C0602

<400> 22231
Ser Tyr Ala Lys Ala Leu Lys Leu Phe
1               5


<210> 22232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; A2402

<400> 22232
Ser Tyr Ala Lys Ala Leu Lys Leu Phe
1               5


<210> 22233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; A0301

<400> 22233
Ala Ser Tyr Ala Lys Ala Leu Lys Leu
1               5


<210> 22234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; C1203

<400> 22234
Ala Ser Tyr Ala Lys Ala Leu Lys Leu
1               5


<210> 22235
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; B5101

<400> 22235
Asp Ala Ser Tyr Ala Lys Ala Leu
1               5


<210> 22236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; A1101

<400> 22236
Ala Ser Tyr Ala Lys Ala Leu Lys Leu
1               5


<210> 22237
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; B0801

<400> 22237
Asp Ala Ser Tyr Ala Lys Ala Leu
1               5


<210> 22238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; B0702

<400> 22238
Lys Asp Ala Ser Tyr Ala Lys Ala Leu
1               5


<210> 22239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; A1101

<400> 22239
His Ser Lys Asp Ala Ser Tyr Ala Lys
1               5


<210> 22240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; B4403

<400> 22240
Lys Asp Ala Ser Tyr Ala Lys Ala Leu
1               5


<210> 22241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; C1601

<400> 22241
Ala Ser Tyr Ala Lys Ala Leu Lys Leu
1               5


<210> 22242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.T1697A; C0304

<400> 22242
Ala Ser Tyr Ala Lys Ala Leu Lys Leu
1               5


<210> 22243
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.V2424G; A3101

<400> 22243

Arg Ala Lys Glu Glu Gly Gly Leu Leu Arg
1 5 10

<210> 22244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.V2424G; B4402

<400> 22244
Glu Glu Gly Gly Leu Leu Arg Glu His
1 5

<210> 22245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.V2424G; B0702

<400> 22245
Arg Ala Lys Glu Glu Gly Gly Leu Leu
1 5

<210> 22246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; C0304

<400> 22246
Leu Thr Met Asn Pro Leu Lys Ala Leu
1 5

<210> 22247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; C0401

<400> 22247
Leu Phe Asp Leu Thr Met Asn Pro Leu
1 5

<210> 22248
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; B3501

<400> 22248
Asp Pro Leu Phe Asp Leu Thr Met
1               5


<210> 22249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; A0201

<400> 22249
Leu Leu Tyr Asp Pro Leu Phe Asp Leu
1               5


<210> 22250
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; A2601

<400> 22250
Leu Thr Met Asn Pro Leu Lys Ala Leu Tyr
1               5                   10


<210> 22251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; C0702

<400> 22251
Leu Tyr Asp Pro Leu Phe Asp Leu
1               5

<210> 22252
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; A0201

<400> 22252
Leu Leu Tyr Asp Pro Leu Phe Asp Leu Thr Met
1               5                   10


<210> 22253
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W2960L; A0101

<400> 22253
Leu Thr Met Asn Pro Leu Lys Ala Leu Tyr
1               5                   10


<210> 22254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W412L; B5101

<400> 22254
Asp Leu Val Pro Leu Leu Gln Ile
1               5


<210> 22255
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W412L; B0702

<400> 22255
Val Pro Leu Leu Gln Ile Ala Thr Gln Leu
1               5                   10


<210> 22256
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATM_p.W412L; C0401

<400> 22256
Asp Phe Asp Leu Val Pro Leu Leu
1               5


<210> 22257
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATR_p.D1560N; B3801

<400> 22257
Lys His Asp Asn Gln His Thr Ile
1               5


<210> 22258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A1101

<400> 22258
Ser Tyr Ser Thr Leu Ile Val Pro Lys
1               5


<210> 22259
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A1101

<400> 22259
Ser Thr Leu Ile Val Pro Lys Glu Met Ile Lys
1               5                   10


<210> 22260
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A0301

<400> 22260
Thr Leu Ile Val Pro Lys Glu Met Ile Lys Lys
1               5                   10


<210> 22261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A0301

<400> 22261
Ser Tyr Ser Thr Leu Ile Val Pro Lys
1               5


<210> 22262
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A1101

<400> 22262
Tyr Ser Tyr Ser Thr Leu Ile Val Pro Lys
1               5                   10


<210> 22263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; B5701

<400> 22263
Ser Thr Leu Ile Val Pro Lys Glu Met
1               5


<210> 22264
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ATRX_p.A345T; A6801

<400> 22264
Ser Tyr Ser Thr Leu Ile Val Pro Lys
1               5


<210> 22265
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A1101

<400> 22265
Tyr Ser Thr Leu Ile Val Pro Lys
1               5


<210> 22266
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A0301

<400> 22266
Tyr Ser Tyr Ser Thr Leu Ile Val Pro Lys
1               5                   10


<210> 22267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; A1101

<400> 22267
Ser Thr Leu Ile Val Pro Lys Glu Met
1               5


<210> 22268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.A345T; C1601

<400> 22268
Ser Thr Leu Ile Val Pro Lys Glu Met
1               5


<210> 22269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; B4001

<400> 22269
Lys Glu Ile Gln Ser Gly Ser Ser Leu
1               5


<210> 22270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; B0702

<400> 22270
Lys Glu Ile Gln Ser Gly Ser Ser Leu
1               5


<210> 22271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; B1501

<400> 22271
Lys Glu Ile Gln Ser Gly Ser Ser Leu
1               5


<210> 22272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; B4403

<400> 22272
Lys Glu Ile Gln Ser Gly Ser Ser Leu

1 5

<210> 22273
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; B4402

<400> 22273
Lys Glu Ile Gln Ser Gly Ser Ser Leu
1 5

<210> 22274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; C0304

<400> 22274
Lys Glu Ile Gln Ser Gly Ser Ser Leu
1 5

<210> 22275
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; C0102

<400> 22275
Lys Glu Ile Gln Ser Gly Ser Ser Leu
1 5

<210> 22276
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1155L; C0303

<400> 22276
Lys Glu Ile Gln Ser Gly Ser Ser Leu
1 5

<210> 22277
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.S1174F; B0801

<400> 22277
Ser Phe Lys Lys Lys Ala Val Ile
1               5


<210> 22278
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; B3501

<400> 22278
Glu Ala Ser Ala Phe Ser Lys Ala Met
1               5


<210> 22279
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; B4402

<400> 22279
Asn Glu Ala Ser Ala Phe Ser Lys Ala Met
1               5                   10


<210> 22280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; B0702

<400> 22280
Ala Phe Ser Lys Ala Met Asn Ser Ile
1               5


<210> 22281

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; A0301

<400> 22281
Ile Leu Lys Asn Glu Ala Ser Ala Phe Ser Lys
1               5                   10


<210> 22282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; B0801

<400> 22282
Ile Leu Lys Asn Glu Ala Ser Ala Phe
1               5


<210> 22283
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; C1203

<400> 22283
Phe Ser Lys Ala Met Asn Ser Ile
1               5


<210> 22284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; B0702

<400> 22284
Ile Leu Lys Asn Glu Ala Ser Ala Phe
1               5


<210> 22285
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ATRX_p.V1731F; A0301

<400> 22285
Ile Leu Lys Asn Glu Ala Ser Ala Phe
1               5


<210> 22286
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; AXIN2_p.M5Vfs*14; B5101

<400> 22286
Leu Pro Pro Gly Pro Gln Gln Gln Leu
1               5


<210> 22287
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.L15Ffs*41; A2902

<400> 22287
Ser Phe Trp Pro Gly Gly Tyr Pro Ala Tyr
1               5                   10


<210> 22288
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; B2M_p.L15Ffs*41; B5701

<400> 22288
Leu Thr Ser Ser Ser Arg Glu Trp
1               5


<210> 22289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; C0102

<400> 22289
Ala Cys Pro Val Asn His Val Thr Leu
1               5


<210> 22290
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; C0304

<400> 22290
Tyr Ala Cys Pro Val Asn His Val Thr Leu
1               5                   10


<210> 22291
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; C0303

<400> 22291
Tyr Ala Cys Pro Val Asn His Val Thr Leu
1               5                   10


<210> 22292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; C1203

<400> 22292
Tyr Ala Cys Pro Val Asn His Val Thr Leu
1               5                   10


<210> 22293
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; B5101

<400> 22293
Tyr Ala Cys Pro Val Asn His Val
1               5


<210> 22294
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; B0801

<400> 22294
Cys Pro Val Asn His Val Thr Leu
1               5


<210> 22295
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; B0702

<400> 22295
Cys Pro Val Asn His Val Thr Leu
1               5


<210> 22296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; B2M_p.R101P; B1801

<400> 22296
Asp Glu Tyr Ala Cys Pro Val Asn His
1               5


<210> 22297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BAP1_p.P293L; C1203

<400> 22297

Ser Ala Ser Asn Lys Ser Leu Leu Val
1 5

<210> 22298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BAP1_p.Y173C; B5101

<400> 22298
Glu Ala Phe His Phe Val Ser Cys Val
1 5

<210> 22299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BAP1_p.Y173C; A1101

<400> 22299
Val Ser Cys Val Pro Ile Thr Gly Arg
1 5

<210> 22300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BCL6_p.N73S; B1302

<400> 22300
Ser Val Ile Ser Leu Asp Pro Glu Ile
1 5

<210> 22301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BCL6_p.N73S; A0201

<400> 22301
Ser Val Ile Ser Leu Asp Pro Glu Ile
1 5

<210> 22302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BCL6_p.N73S; B3801

<400> 22302
Ser Val Ile Ser Leu Asp Pro Glu Ile
1               5


<210> 22303
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BCL6_p.N73S; A2601

<400> 22303
Ser Val Ile Ser Leu Asp Pro Glu Ile
1               5


<210> 22304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BLM_p.H281P; B4001

<400> 22304
Ala Glu Leu Pro Ser Thr Glu Lys Val
1               5


<210> 22305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BLM_p.H281P; B4403

<400> 22305
Ala Glu Leu Pro Ser Thr Glu Lys Val
1               5

<210> 22306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BLM_p.P822S; C0304

<400> 22306
Phe Ser Ser Val Pro Val Met Ala Leu
1               5


<210> 22307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BLM_p.P822S; C1203

<400> 22307
Phe Ser Ser Val Pro Val Met Ala Leu
1               5


<210> 22308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BLM_p.S232R; B4403

<400> 22308
Ser Glu Trp Leu Arg Ser Asp Val Ile
1               5


<210> 22309
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BMPR1A_p.R480Q; B5701

<400> 22309
Arg Leu Gln Pro Ile Val Ser Asn Arg Trp
1               5                   10


<210> 22310
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BMPR1A_p.R480Q; A0301

<400> 22310
Arg Leu Gln Pro Ile Val Ser Asn Arg
1               5


<210> 22311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BMPR1A_p.R486W; B5701

<400> 22311
Arg Leu Arg Pro Ile Val Ser Asn Trp
1               5


<210> 22312
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BMPR1A_p.R486W; B5701

<400> 22312
Arg Leu Arg Pro Ile Val Ser Asn Trp Trp
1               5                   10


<210> 22313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.D594G; A1101

<400> 22313
Gly Gly Phe Gly Leu Ala Thr Val Lys
1               5


<210> 22314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.D594G; A3001

<400> 22314
Thr Val Lys Ile Gly Gly Phe Gly Leu
1               5


<210> 22315
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.D594N; A1101

<400> 22315
Gly Asn Phe Gly Leu Ala Thr Val Lys
1               5


<210> 22316
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.D594N; A3001

<400> 22316
Thr Val Lys Ile Gly Asn Phe Gly Leu
1               5


<210> 22317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G464V; B1501

<400> 22317
Gly Gln Arg Ile Val Ser Gly Ser Phe
1               5


<210> 22318
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; BRAF_p.G464V; B1501

<400> 22318
Val Ser Gly Ser Phe Gly Thr Val Tyr
1               5


<210> 22319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G464V; B1501

<400> 22319
Ile Val Ser Gly Ser Phe Gly Thr Val Tyr
1               5                   10


<210> 22320
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G464V; A1101

<400> 22320
Ile Val Ser Gly Ser Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 22321
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G464V; B1501

<400> 22321
Arg Ile Val Ser Gly Ser Phe Gly Thr Val Tyr
1               5                   10


<210> 22322
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G464V; A1101

<400> 22322
Val Ser Gly Ser Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 22323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; B1501

<400> 22323
Gly Gln Arg Ile Gly Ser Ala Ser Phe
1               5


<210> 22324
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; A1101

<400> 22324
Gly Ser Ala Ser Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 22325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; B1501

<400> 22325
Gly Ser Ala Ser Phe Gly Thr Val Tyr
1               5


<210> 22326
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; A1101

<400> 22326
Ser Ala Ser Phe Gly Thr Val Tyr Lys

1 5

<210> 22327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; A0301

<400> 22327
Gly Ser Ala Ser Phe Gly Thr Val Tyr Lys
1 5 10

<210> 22328
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; A1101

<400> 22328
Ala Ser Phe Gly Thr Val Tyr Lys
1 5

<210> 22329
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; A1101

<400> 22329
Ala Ser Phe Gly Thr Val Tyr Lys Gly Lys
1 5 10

<210> 22330
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; B1501

<400> 22330
Arg Ile Gly Ser Ala Ser Phe Gly Thr Val Tyr
1 5 10

<210> 22331
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466A; B1501

<400> 22331
Ser Ala Ser Phe Gly Thr Val Tyr
1               5


<210> 22332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466E; A0101

<400> 22332
Gly Ser Glu Ser Phe Gly Thr Val Tyr
1               5


<210> 22333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466R; B1501

<400> 22333
Gly Gln Arg Ile Gly Ser Arg Ser Phe
1               5


<210> 22334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466R; B1501

<400> 22334
Gly Ser Arg Ser Phe Gly Thr Val Tyr
1               5


<210> 22335

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466R; A0301

<400> 22335
Gly Ser Arg Ser Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 22336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; B1501

<400> 22336
Gly Gln Arg Ile Gly Ser Val Ser Phe
1               5


<210> 22337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; A1101

<400> 22337
Ser Val Ser Phe Gly Thr Val Tyr Lys
1               5


<210> 22338
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; A1101

<400> 22338
Gly Ser Val Ser Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 22339
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; B1501

<400> 22339
Gly Ser Val Ser Phe Gly Thr Val Tyr
1               5


<210> 22340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; A0301

<400> 22340
Ser Val Ser Phe Gly Thr Val Tyr Lys
1               5


<210> 22341
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; B5701

<400> 22341
Val Ser Phe Gly Thr Val Tyr Lys Gly Lys Trp
1               5                   10


<210> 22342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; B5801

<400> 22342
Gly Ser Val Ser Phe Gly Thr Val Tyr
1               5


<210> 22343
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G466V; A0301

<400> 22343
Gly Ser Val Ser Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 22344
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; BRAF_p.G466V; A3002

<400> 22344
Gly Ser Val Ser Phe Gly Thr Val Tyr
1               5


<210> 22345
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; BRAF_p.G466V; B1501

<400> 22345
Ser Val Ser Phe Gly Thr Val Tyr
1               5


<210> 22346
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; BRAF_p.G466V; A6801

<400> 22346
Ser Val Ser Phe Gly Thr Val Tyr Lys
1               5


<210> 22347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469A; A1101

<400> 22347
Ser Gly Ser Phe Ala Thr Val Tyr Lys
1               5


<210> 22348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469A; B1501

<400> 22348
Gly Ser Gly Ser Phe Ala Thr Val Tyr
1               5


<210> 22349
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469A; A1101

<400> 22349
Gly Ser Gly Ser Phe Ala Thr Val Tyr Lys
1               5                   10


<210> 22350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469A; A3002

<400> 22350
Gly Ser Gly Ser Phe Ala Thr Val Tyr
1               5


<210> 22351
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469A; B3901

<400> 22351

Gln Arg Ile Gly Ser Gly Ser Phe Ala Thr Val
1 5 10

<210> 22352
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469A; A3002

<400> 22352
Ile Gly Ser Gly Ser Phe Ala Thr Val Tyr
1 5 10

<210> 22353
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; BRAF_p.G469A; A1101

<400> 22353
Gly Ser Phe Ala Thr Val Tyr Lys
1 5

<210> 22354
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; BRAF_p.G469A; B1501

<400> 22354
Arg Ile Gly Ser Gly Ser Phe Ala Thr Val Tyr
1 5 10

<210> 22355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469R; B1501

<400> 22355
Gly Ser Gly Ser Phe Arg Thr Val Tyr
1 5

<210> 22356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469R; A1101

<400> 22356
Ser Gly Ser Phe Arg Thr Val Tyr Lys
1               5


<210> 22357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469S; A1101

<400> 22357
Ser Gly Ser Phe Ser Thr Val Tyr Lys
1               5


<210> 22358
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469S; A1101

<400> 22358
Gly Ser Gly Ser Phe Ser Thr Val Tyr Lys
1               5                   10


<210> 22359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469S; B1501

<400> 22359
Gly Ser Gly Ser Phe Ser Thr Val Tyr
1               5

<210> 22360
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469S; A0301

<400> 22360
Gly Ser Gly Ser Phe Ser Thr Val Tyr Lys
1               5                   10


<210> 22361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469S; A1101

<400> 22361
Gly Ser Phe Ser Thr Val Tyr Lys
1               5


<210> 22362
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469S; A1101

<400> 22362
Ile Gly Ser Gly Ser Phe Ser Thr Val Tyr Lys
1               5                   10


<210> 22363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; A1101

<400> 22363
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 22364
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; B1501

<400> 22364
Gly Ser Gly Ser Phe Val Thr Val Tyr
1               5


<210> 22365
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; A1101

<400> 22365
Gly Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5                   10


<210> 22366
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; A0301

<400> 22366
Gly Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5                   10


<210> 22367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; A6801

<400> 22367
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 22368
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; A1101

<400> 22368
Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 22369
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; B1501

<400> 22369
Ser Gly Ser Phe Val Thr Val Tyr
1               5


<210> 22370
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.G469V; A0301

<400> 22370
Ser Gly Ser Phe Val Thr Val Tyr Lys
1               5


<210> 22371
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.K483E; B5101

<400> 22371
Val Ala Val Glu Met Leu Asn Val
1               5


<210> 22372
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; BRAF_p.K601E; B5701

<400> 22372
Leu Ala Thr Val Glu Ser Arg Trp
1               5


<210> 22373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.K601E; B5701

<400> 22373
Gly Leu Ala Thr Val Glu Ser Arg Trp
1               5


<210> 22374
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.K601E; B5701

<400> 22374
Phe Gly Leu Ala Thr Val Glu Ser Arg Trp
1               5                   10


<210> 22375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.K601E; B2702

<400> 22375
Phe Gly Leu Ala Thr Val Glu Ser Arg
1               5


<210> 22376
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.K601N; B5701

<400> 22376
Leu Ala Thr Val Asn Ser Arg Trp
1               5


<210> 22377
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.K601N; B5701

<400> 22377
Phe Gly Leu Ala Thr Val Asn Ser Arg Trp
1               5                   10


<210> 22378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.K601N; B5701

<400> 22378
Gly Leu Ala Thr Val Asn Ser Arg Trp
1               5


<210> 22379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.L382M; B1801

<400> 22379
Asp Asp Met Ile Arg Asp Gln Gly Phe
1               5


<210> 22380
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.V600E; A0302

<400> 22380
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys

1 5 10

<210> 22381
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.V600E; A0301

<400> 22381
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1 5 10

<210> 22382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.V600E; B2702

<400> 22382
Gly Asp Phe Gly Leu Ala Thr Glu Lys
1 5

<210> 22383
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.V600E; B2702

<400> 22383
Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1 5 10

<210> 22384
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRAF_p.V600E; B2702

<400> 22384
Lys Ile Gly Asp Phe Gly Leu Ala Thr Glu Lys
1 5 10

<210> 22385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.D1546N; B4001

<400> 22385
Leu Glu Glu Ser Gly Pro His Asn Leu
1               5


<210> 22386
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.D1546N; B3501

<400> 22386
Gly Pro His Asn Leu Thr Glu Thr Ser Tyr
1               5                   10


<210> 22387
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.E453D; A1101

<400> 22387
Ser Val Asp Ser Asn Ile Glu Asp Lys
1               5


<210> 22388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.E597K; A1101

<400> 22388
Ser Ser Ile Ser Asn Met Glu Leu Lys
1               5


<210> 22389

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.K1606E; B1302

<400> 22389
Ala Leu Lys Val Pro Gln Leu Glu Val
1               5


<210> 22390
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.K1606E; A3001

<400> 22390
Ala Leu Lys Val Pro Gln Leu Glu Val
1               5


<210> 22391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.K1606E; B1501

<400> 22391
Ala Leu Lys Val Pro Gln Leu Glu Val
1               5


<210> 22392
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA1_p.K1606E; A0201

<400> 22392
Ala Leu Lys Val Pro Gln Leu Glu Val
1               5


<210> 22393
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA2_p.S445Y; A2402

<400> 22393
Asn Tyr Leu Pro Arg Ile Ser Ser Leu
1               5


<210> 22394
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA2_p.S445Y; A2301

<400> 22394
Asn Tyr Leu Pro Arg Ile Ser Ser Leu
1               5


<210> 22395
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA2_p.S445Y; B1402

<400> 22395
Glu Asn Tyr Leu Pro Arg Ile Ser Ser Leu
1               5                   10


<210> 22396
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRCA2_p.V3091I; C1701

<400> 22396
Gly Leu Ala Pro Phe Ile Tyr Leu
1               5


<210> 22397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRIP1_p.L892I; B1302

<400> 22397
His Gln Lys Val Ile Asn Val Ser Ile
1               5


<210> 22398
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRIP1_p.L892I; B1501

<400> 22398
His Gln Lys Val Ile Asn Val Ser Ile
1               5


<210> 22399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRIP1_p.L892I; B0801

<400> 22399
His Gln Lys Val Ile Asn Val Ser Ile
1               5


<210> 22400
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRIP1_p.L892I; A3101

<400> 22400
Lys Val Ile Asn Val Ser Ile Lys Asp Arg
1               5                   10


<210> 22401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BRIP1_p.L892I; A3001

<400> 22401
His Gln Lys Val Ile Asn Val Ser Ile
1               5


<210> 22402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; B1501

<400> 22402
Ala Gln Gln Arg Pro Leu Ala Val Leu
1               5


<210> 22403
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; A1101

<400> 22403
Ala Gln Gln Arg Pro Leu Ala Val Leu Lys
1               5                   10


<210> 22404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; A3001

<400> 22404
Gln Gln Arg Pro Leu Ala Val Leu Lys
1               5


<210> 22405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; C1502

<400> 22405

Leu Ala Gln Gln Arg Pro Leu Ala Val
1 5

<210> 22406
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; B1302

<400> 22406
Ala Gln Gln Arg Pro Leu Ala Val
1 5

<210> 22407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; C1601

<400> 22407
Leu Ala Gln Gln Arg Pro Leu Ala Val
1 5

<210> 22408
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; A3101

<400> 22408
Gln Gln Arg Pro Leu Ala Val Leu Lys
1 5

<210> 22409
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; B0801

<400> 22409
Leu Ala Gln Gln Arg Pro Leu Ala Val
1 5

<210> 22410
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; B1302

<400> 22410
Ala Gln Gln Arg Pro Leu Ala Val Leu
1               5


<210> 22411
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; A0301

<400> 22411
Gln Gln Arg Pro Leu Ala Val Leu Lys
1               5


<210> 22412
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; B1501

<400> 22412
Gln Gln Arg Pro Leu Ala Val Leu
1               5


<210> 22413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; B3901

<400> 22413
Ala Gln Gln Arg Pro Leu Ala Val Leu
1               5

<210> 22414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; C1203

<400> 22414
Leu Ala Gln Gln Arg Pro Leu Ala Val
1               5


<210> 22415
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; BUB1B_p.R555Q; A1101

<400> 22415
Gln Gln Arg Pro Leu Ala Val Leu Lys
1               5


<210> 22416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CARD11_p.G540R; B5701

<400> 22416
Arg Ser Leu Pro Ile Thr Asn Ser Phe
1               5


<210> 22417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CARD11_p.G540R; C0102

<400> 22417
Ala Ser Pro Ser Ser Cys Arg Ser Leu
1               5


<210> 22418
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CARD11_p.G540R; A3201

<400> 22418
Arg Ser Leu Pro Ile Thr Asn Ser Phe
1               5


<210> 22419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CARD11_p.G540R; A2301

<400> 22419
Arg Ser Leu Pro Ile Thr Asn Ser Phe
1               5


<210> 22420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CARD11_p.G540R; B1501

<400> 22420
Arg Ser Leu Pro Ile Thr Asn Ser Phe
1               5


<210> 22421
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CARD11_p.G540R; A1101

<400> 22421
Arg Ser Leu Pro Ile Thr Asn Ser Phe Thr Lys
1               5                   10


<210> 22422
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CARD11_p.G540R; B5701

<400> 22422
Arg Ser Leu Pro Ile Thr Asn Ser Phe Thr Lys
1               5                   10


<210> 22423
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CARD11_p.G540R; A2402

<400> 22423
Arg Ser Leu Pro Ile Thr Asn Ser Phe
1               5


<210> 22424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CASP8_p.R68Q; C1402

<400> 22424
Leu Phe Gln Ile Asn Arg Leu Asp Leu
1               5


<210> 22425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CASP8_p.R68Q; C1701

<400> 22425
Phe Gln Ile Asn Arg Leu Asp Leu Leu
1               5


<210> 22426
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CASP8_p.R68Q; A0201

<400> 22426
Phe Gln Ile Asn Arg Leu Asp Leu Leu
1               5


<210> 22427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CASP8_p.R68Q; A0201

<400> 22427
Phe Leu Lys Glu Leu Leu Phe Gln Ile
1               5


<210> 22428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CASP8_p.R68Q; C0202

<400> 22428
Phe Gln Ile Asn Arg Leu Asp Leu Leu
1               5


<210> 22429
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CASP8_p.R68Q; A6802

<400> 22429
Glu Leu Leu Phe Gln Ile Asn Arg Leu
1               5


<210> 22430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CASP8_p.R68Q; A6802

<400> 22430
Phe Gln Ile Asn Arg Leu Asp Leu Leu
1               5


<210> 22431
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; C0304

<400> 22431
Val Ala Ser Ser Ala Ser Ala Leu
1               5


<210> 22432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; C0303

<400> 22432
Val Ala Ser Ser Ala Ser Ala Leu
1               5


<210> 22433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; B0702

<400> 22433
Cys Val Ala Ser Ser Ala Ser Ala Leu
1               5


<210> 22434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; C0304

<400> 22434
Cys Val Ala Ser Ser Ala Ser Ala Leu

1 5

<210> 22435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; B1501

<400> 22435
Cys Val Ala Ser Ser Ala Ser Ala Leu
1 5

<210> 22436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; C0303

<400> 22436
Cys Val Ala Ser Ser Ala Ser Ala Leu
1 5

<210> 22437
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; B1501

<400> 22437
Val Ala Ser Ser Ala Ser Ala Leu
1 5

<210> 22438
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; C0102

<400> 22438
Val Ala Ser Ser Ala Ser Ala Leu
1 5

<210> 22439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; A0201

<400> 22439
Leu Leu Pro Gln Arg Val Cys Val Ala
1               5


<210> 22440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CBL_p.P510A; C0102

<400> 22440
Cys Val Ala Ser Ser Ala Ser Ala Leu
1               5


<210> 22441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1801

<400> 22441
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4001

<400> 22442
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22443

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A2601

<400> 22443
Glu Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4901

<400> 22444
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4001

<400> 22445
Gln Glu Gln Ile Glu Val Val Leu Leu
1               5


<210> 22446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A3001

<400> 22446
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22447
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1402

<400> 22447
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22448
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4001

<400> 22448
Gln Glu Gln Ile Glu Val Val Leu
1               5


<210> 22449
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1501

<400> 22449
Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3801

<400> 22450
Cys Gln Glu Gln Ile Glu Val Val Leu
1               5


<210> 22451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A2301

<400> 22451
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22452
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3501

<400> 22452
Glu Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22453
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A6801

<400> 22453
Glu Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4403

<400> 22454
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22455
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A3101

<400> 22455
Val Val Leu Leu Asn Ser Leu Gln Gln Tyr Arg
1               5                   10


<210> 22456
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A2902

<400> 22456
Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22457
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3801

<400> 22457
Glu Gln Ile Glu Val Val Leu Leu Asn Ser Leu
1               5                   10


<210> 22458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4403

<400> 22458
Gln Glu Gln Ile Glu Val Val Leu Leu
1               5


<210> 22459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B5101

<400> 22459

Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A3001

<400> 22460
Gln Glu Gln Ile Glu Val Val Leu Leu
1               5


<210> 22461
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A2601

<400> 22461
Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22462
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1402

<400> 22462
Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4901

<400> 22463
Gln Glu Gln Ile Glu Val Val Leu Leu
1               5

<210> 22464
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B0801

<400> 22464
Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1501

<400> 22465
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4402

<400> 22466
Gln Glu Gln Ile Glu Val Val Leu Leu
1               5


<210> 22467
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B5101

<400> 22467
Glu Val Val Leu Leu Asn Ser Leu
1               5

<210> 22468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3801

<400> 22468
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22469
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B0702

<400> 22469
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22470
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1801

<400> 22470
Gln Glu Gln Ile Glu Val Val Leu
1               5


<210> 22471
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4402

<400> 22471
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22472
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A0201

<400> 22472
Ala Cys Gln Glu Gln Ile Glu Val Val
1               5


<210> 22473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1302

<400> 22473
Lys Ala Cys Gln Glu Gln Ile Glu Val
1               5


<210> 22474
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1501

<400> 22474
Glu Gln Ile Glu Val Val Leu Leu
1               5


<210> 22475
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1501

<400> 22475
Glu Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; C1601

<400> 22476
Lys Ala Cys Gln Glu Gln Ile Glu Val
1               5


<210> 22477
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A3001

<400> 22477
Ala Cys Gln Glu Gln Ile Glu Val Val Leu
1               5                   10


<210> 22478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3801

<400> 22478
Gln Glu Gln Ile Glu Val Val Leu Leu
1               5


<210> 22479
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4403

<400> 22479
Glu Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22480
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CCND2_p.A252V; B5701

<400> 22480
Val Val Leu Leu Asn Ser Leu Gln Gln Tyr
1               5                   10


<210> 22481
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1302

<400> 22481
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1302

<400> 22482
Glu Gln Ile Glu Val Val Leu Leu
1               5


<210> 22483
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B4001

<400> 22483
Gln Ile Glu Val Val Leu Leu Asn Ser Leu
1               5                   10


<210> 22484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; C1502

<400> 22484
Lys Ala Cys Gln Glu Gln Ile Glu Val
1               5


<210> 22485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1501

<400> 22485
Cys Gln Glu Gln Ile Glu Val Val Leu
1               5


<210> 22486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B2705

<400> 22486
Ile Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A3001

<400> 22487
Gln Glu Gln Ile Glu Val Val Leu
1               5


<210> 22488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3501

<400> 22488
Val Val Leu Leu Asn Ser Leu Gln Gln Tyr

1 5 10

<210> 22489
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; A3001

<400> 22489
Glu Gln Ile Glu Val Val Leu Leu Asn Ser Leu
1 5 10

<210> 22490
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1302

<400> 22490
Glu Gln Ile Glu Val Val Leu Leu Asn Ser Leu
1 5 10

<210> 22491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3501

<400> 22491
Ile Glu Val Val Leu Leu Asn Ser Leu
1 5

<210> 22492
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B3801

<400> 22492
Gln Ile Glu Val Val Leu Leu Asn Ser Leu
1 5 10

<210> 22493
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; B1801

<400> 22493
Glu Val Val Leu Leu Asn Ser Leu
1               5


<210> 22494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCND2_p.A252V; C0802

<400> 22494
Cys Gln Glu Gln Ile Glu Val Val Leu
1               5


<210> 22495
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; A0101

<400> 22495
Tyr Leu Ala Gln Asp Leu Phe Asp Arg Tyr
1               5                   10


<210> 22496
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; A2902

<400> 22496
Tyr Leu Ala Gln Asp Leu Phe Asp Arg Tyr
1               5                   10


<210> 22497

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; B2702

<400> 22497
Tyr Leu Ala Gln Asp Leu Phe Asp Arg
1               5


<210> 22498
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; A2902

<400> 22498
Phe Tyr Leu Ala Gln Asp Leu Phe Asp Arg Tyr
1               5                   10


<210> 22499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; B3501

<400> 22499
Leu Ala Gln Asp Leu Phe Asp Arg Tyr
1               5


<210> 22500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; B5701

<400> 22500
Leu Ala Gln Asp Leu Phe Asp Arg Tyr
1               5


<210> 22501
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; A0101

<400> 22501
Leu Ala Gln Asp Leu Phe Asp Arg Tyr
1               5


<210> 22502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; A2902

<400> 22502
Leu Ala Gln Asp Leu Phe Asp Arg Tyr
1               5


<210> 22503
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CCNE1_p.F172L; A1101

<400> 22503
Ala Gln Asp Leu Phe Asp Arg Tyr
1               5


<210> 22504
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDC73_p.R139Q; B4901

<400> 22504
Ala Glu Ala Lys Lys Pro Gln Ile
1               5


<210> 22505
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDC73_p.R139Q; B4002

<400> 22505
Ala Glu Ala Lys Lys Pro Gln Ile
1               5


<210> 22506
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDC73_p.R139Q; B4403

<400> 22506
Ala Glu Ala Lys Lys Pro Gln Ile
1               5


<210> 22507
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDC73_p.R91Q; B1501

<400> 22507
Asp Gln Lys Asp Leu Leu Gly Tyr
1               5


<210> 22508
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDC73_p.R91Q; B0702

<400> 22508
Arg Pro Asp Gln Lys Asp Leu Leu
1               5


<210> 22509
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; A0201

<400> 22509
Ala Leu Asp Pro His Ser Gly His Phe Val
1               5                   10


<210> 22510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; C0501

<400> 22510
Ala Leu Asp Pro His Ser Gly His Phe
1               5


<210> 22511
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; B1302

<400> 22511
Ala Leu Asp Pro His Ser Gly His Phe Val
1               5                   10


<210> 22512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; C0802

<400> 22512
Ala Leu Asp Pro His Ser Gly His Phe
1               5


<210> 22513
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; B5701

<400> 22513

Lys Ala Leu Asp Pro His Ser Gly His Phe
1               5                   10


<210> 22514
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; B3801

<400> 22514
Ala Leu Asp Pro His Ser Gly His Phe
1               5


<210> 22515
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; A0201

<400> 22515
Ala Leu Asp Pro His Ser Gly His Phe Val Ala
1               5                   10


<210> 22516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; A2301

<400> 22516
Ala Tyr Gly Thr Val Tyr Lys Ala Leu
1               5


<210> 22517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; A0101

<400> 22517
Ala Leu Asp Pro His Ser Gly His Phe
1               5

<210> 22518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; A2402

<400> 22518
Ala Tyr Gly Thr Val Tyr Lys Ala Leu
1               5


<210> 22519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; B1501

<400> 22519
Ala Leu Asp Pro His Ser Gly His Phe
1               5


<210> 22520
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; C0501

<400> 22520
Ala Leu Asp Pro His Ser Gly His Phe Val
1               5                   10


<210> 22521
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; C0304

<400> 22521
Lys Ala Leu Asp Pro His Ser Gly His Phe
1               5                   10

<210> 22522
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; A0301

<400> 22522
Ala Leu Asp Pro His Ser Gly His Phe Val
1               5                   10


<210> 22523
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDK4_p.R24L; A0301

<400> 22523
Lys Ala Leu Asp Pro His Ser Gly His Phe
1               5                   10


<210> 22524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN1B_p.S10Afs*32; B0702

<400> 22524
Ser Pro Arg Pro Ala Gly Thr Ser Ser Ala
1               5                   10


<210> 22525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN1B_p.S10Afs*32; B0702

<400> 22525
Ser Pro Arg Pro Ala Gly Thr Ser Ser
1               5


<210> 22526
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN1B_p.S10Afs*32; A1101

<400> 22526
Gly Thr Ser Ser Ala Arg Trp Thr Thr Lys
1               5                   10


<210> 22527
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN1B_p.S10Afs*32; A0301

<400> 22527
Gly Thr Ser Ser Ala Arg Trp Thr Thr Lys
1               5                   10


<210> 22528
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A102E; B4403

<400> 22528
Gly Glu Arg Leu Asp Val Arg Asp Ala Trp
1               5                   10


<210> 22529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A102E; C0602

<400> 22529
His Arg Ala Gly Glu Arg Leu Asp Val
1               5


<210> 22530
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A102E; B4402

<400> 22530
Gly Glu Arg Leu Asp Val Arg Asp Ala Trp
1               5                   10


<210> 22531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A102V; C0602

<400> 22531
His Arg Ala Gly Val Arg Leu Asp Val
1               5


<210> 22532
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A102V; C1601

<400> 22532
Arg Ala Gly Val Arg Leu Asp Val
1               5


<210> 22533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; C0102

<400> 22533
Leu Ser Pro Asp Pro Cys Thr Thr Leu
1               5


<210> 22534
<211> 8
<212> PRT
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<220>

<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; A1101

<400> 22534
Pro Glu Ala Val Thr Met Pro Ala
1               5


<210> 22535
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B1501

<400> 22535
Arg Leu Arg Gly Ala Pro Glu Ala Val Thr Met
1               5                   10


<210> 22536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B1501

<400> 22536
Arg Gly Ala Pro Glu Ala Val Thr Met
1               5


<210> 22537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; A0301

<400> 22537
Arg Ser Trp Ala Ile Ala Met Ser His
1               5


<210> 22538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B0702

<400> 22538
Ile Ala Met Ser His Gly Thr Cys Ala
1               5


<210> 22539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B3501

<400> 22539
Arg Gly Ala Pro Glu Ala Val Thr Met
1               5


<210> 22540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; A0201

<400> 22540
Arg Leu Arg Gly Ala Pro Glu Ala Val
1               5


<210> 22541
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B5101

<400> 22541
Gly Ala Pro Glu Ala Val Thr Met
1               5


<210> 22542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B0702

<400> 22542
Ala Pro Glu Ala Val Thr Met Pro Ala

1 5

<210> 22543
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; C0102

<400> 22543
Gly Ala Pro Glu Ala Val Thr Met
1 5

<210> 22544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B3501

<400> 22544
Ala Pro Glu Ala Val Thr Met Pro Ala
1 5

<210> 22545
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B0702

<400> 22545
Arg Gly Ala Pro Glu Ala Val Thr Met
1 5

<210> 22546
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; B3501

<400> 22546
Met Pro Gly Ala Val Cys Pro Trp
1 5

<210> 22547
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; A1101

<400> 22547
Gly Ala Pro Glu Ala Val Thr Met Pro Ala
1               5                   10


<210> 22548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; C0304

<400> 22548
Ile Ala Met Ser His Gly Thr Cys Ala
1               5


<210> 22549
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.A76Pfs*70; A1101

<400> 22549
Arg Gly Ala Pro Glu Ala Val Thr Met Pro Ala
1               5                   10


<210> 22550
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D108H; B4403

<400> 22550
Ala Arg Leu Asp Val Arg His Ala Trp
1               5


<210> 22551

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D108N; B4403

<400> 22551
Ala Arg Leu Asp Val Arg Asn Ala Trp
1               5


<210> 22552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D108Y; B1501

<400> 22552
Ala Gly Ala Arg Leu Asp Val Arg Tyr
1               5


<210> 22553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74G; B0702

<400> 22553
Gly Pro Ala Thr Leu Thr Arg Pro Val
1               5


<210> 22554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74G; A1101

<400> 22554
Cys Ala Gly Pro Ala Thr Leu Thr Arg
1               5


<210> 22555
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74G; B0801

<400> 22555
Gly Pro Ala Thr Leu Thr Arg Pro Val
1               5


<210> 22556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; B3501

<400> 22556
His Gly Ala Glu Pro Asn Cys Ala Tyr
1               5


<210> 22557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; B1501

<400> 22557
His Gly Ala Glu Pro Asn Cys Ala Tyr
1               5


<210> 22558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; B5101

<400> 22558
Tyr Pro Ala Thr Leu Thr Arg Pro Val
1               5


<210> 22559
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; B4001

<400> 22559
Ala Glu Pro Asn Cys Ala Tyr Pro Ala Thr Leu
1               5                   10


<210> 22560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; A1101

<400> 22560
Cys Ala Tyr Pro Ala Thr Leu Thr Arg
1               5


<210> 22561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; A0301

<400> 22561
Cys Ala Tyr Pro Ala Thr Leu Thr Arg
1               5


<210> 22562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; B0702

<400> 22562
Tyr Pro Ala Thr Leu Thr Arg Pro Val
1               5


<210> 22563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; B0801

<400> 22563
Tyr Pro Ala Thr Leu Thr Arg Pro Val
1               5


<210> 22564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; B3501

<400> 22564
Tyr Pro Ala Thr Leu Thr Arg Pro Val
1               5


<210> 22565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D74Y; C1203

<400> 22565
Cys Ala Tyr Pro Ala Thr Leu Thr Arg
1               5


<210> 22566
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84G; B0702

<400> 22566
Arg Pro Val His Gly Ala Ala Arg Glu Gly Phe
1               5                   10


<210> 22567
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84N; B0702

<400> 22567

Arg Pro Val His Asn Ala Ala Arg Glu Gly Phe
1 5 10

<210> 22568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84N; B0702

<400> 22568
Leu Thr Arg Pro Val His Asn Ala Ala
1 5

<210> 22569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; C1502

<400> 22569
Ala Thr Leu Thr Arg Pro Val His Val
1 5

<210> 22570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; B3801

<400> 22570
Val His Val Ala Ala Arg Glu Gly Phe
1 5

<210> 22571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; A3101

<400> 22571
Leu Thr Arg Pro Val His Val Ala Ala Arg
1 5 10

<210> 22572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; A0201

<400> 22572
Ala Thr Leu Thr Arg Pro Val His Val
1               5


<210> 22573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; A3001

<400> 22573
Leu Thr Arg Pro Val His Val Ala Ala
1               5


<210> 22574
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; C1701

<400> 22574
Val Ala Ala Arg Glu Gly Phe Leu
1               5


<210> 22575
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; A3101

<400> 22575
Ala Thr Leu Thr Arg Pro Val His Val Ala Ala
1               5                   10

<210> 22576
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; B2705

<400> 22576
Thr Arg Pro Val His Val Ala Ala Arg
1               5


<210> 22577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84V; B0702

<400> 22577
Leu Thr Arg Pro Val His Val Ala Ala
1               5


<210> 22578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; C1601

<400> 22578
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; A2902

<400> 22579
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22580
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; B5701

<400> 22580
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; A1101

<400> 22581
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; A0301

<400> 22582
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22583
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; A3101

<400> 22583
Leu Thr Arg Pro Val His Tyr Ala Ala Arg
1               5                   10


<210> 22584
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; B1801

<400> 22584
Asp Pro Ala Thr Leu Thr Arg Pro Val His Tyr
1               5                   10


<210> 22585
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; B3501

<400> 22585
Asp Pro Ala Thr Leu Thr Arg Pro Val His Tyr
1               5                   10


<210> 22586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; B1501

<400> 22586
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.D84Y; C1203

<400> 22587
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22588
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CDKN2A_p.D84Y; A3201

<400> 22588
Ala Thr Leu Thr Arg Pro Val His Tyr
1               5


<210> 22589
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.E69G; A0201

<400> 22589
Leu Leu Leu His Gly Ala Gly Pro Asn Cys
1               5                   10


<210> 22590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55C; B0801

<400> 22590
Met Cys Ser Ala Arg Val Ala Glu Leu
1               5


<210> 22591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55C; B0702

<400> 22591
Met Cys Ser Ala Arg Val Ala Glu Leu
1               5


<210> 22592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; B0702

<400> 22592
Met Val Ser Ala Arg Val Ala Glu Leu
1               5


<210> 22593
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; B0801

<400> 22593
Met Val Ser Ala Arg Val Ala Glu Leu
1               5


<210> 22594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; C0304

<400> 22594
Met Val Ser Ala Arg Val Ala Glu Leu
1               5


<210> 22595
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; B0801

<400> 22595
Met Met Val Ser Ala Arg Val Ala Glu Leu
1               5                   10


<210> 22596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; A0301

<400> 22596
Met Val Ser Ala Arg Val Ala Glu Leu

1 5

<210> 22597
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; C0304

<400> 22597
Val Ser Ala Arg Val Ala Glu Leu
1 5

<210> 22598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; A0201

<400> 22598
Met Val Ser Ala Arg Val Ala Glu Leu
1 5

<210> 22599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.G55V; A0201

<400> 22599
Val Met Met Met Val Ser Ala Arg Val
1 5

<210> 22600
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83D; B0702

<400> 22600
Arg Pro Val Asp Asp Ala Ala Arg Glu Gly Phe
1 5 10

<210> 22601
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83D; B3501

<400> 22601
Arg Pro Val Asp Asp Ala Ala Arg Glu Gly Phe
1               5                   10


<210> 22602
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83R; A6801

<400> 22602
Asp Pro Ala Thr Leu Thr Arg Pro Val Arg
1               5                   10


<210> 22603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; C0401

<400> 22603
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 22604
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; B3701

<400> 22604
Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 22605

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; B3501

<400> 22605
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 22606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; A2402

<400> 22606
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 22607
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; C1601

<400> 22607
Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 22608
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; A2601

<400> 22608
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 22609
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; A2301

<400> 22609
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 22610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; A3001

<400> 22610
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 22611
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; B3508

<400> 22611
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 22612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; A0205

<400> 22612
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 22613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; A2501

<400> 22613
Asp Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5                   10


<210> 22614
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; C0401

<400> 22614
Val Tyr Asp Ala Ala Arg Glu Gly Phe Leu
1               5                   10


<210> 22615
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; A3101

<400> 22615
Leu Thr Arg Pro Val Tyr Asp Ala Ala Arg
1               5                   10


<210> 22616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; C1402

<400> 22616
Val Tyr Asp Ala Ala Arg Glu Gly Phe
1               5


<210> 22617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; C0302

<400> 22617
Leu Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 22618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; C1601

<400> 22618
Pro Ala Thr Leu Thr Arg Pro Val Tyr
1               5


<210> 22619
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.H83Y; B3906

<400> 22619
Thr Arg Pro Val Tyr Asp Ala Ala
1               5


<210> 22620
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L104Cfs*11; B0702

<400> 22620
Gly Pro Ser Ala Arg Gly Pro Gly
1               5


<210> 22621
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L16Pfs*9; A1101

<400> 22621

Ser Ser Met Glu Pro Ser Ala Asp Trp Pro Arg
1 5 10

<210> 22622
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L16Pfs*9; A6801

<400> 22622
Ser Ser Met Glu Pro Ser Ala Asp Trp Pro Arg
1 5 10

<210> 22623
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L16Pfs*9; B2702

<400> 22623
Ser Ser Met Glu Pro Ser Ala Asp Trp Pro Arg
1 5 10

<210> 22624
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B5801

<400> 22624
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1 5 10

<210> 22625
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; A3002

<400> 22625
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1 5 10

<210> 22626
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B5701

<400> 22626
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22627
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B1501

<400> 22627
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22628
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B3501

<400> 22628
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22629
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B3901

<400> 22629
Val Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10

<210> 22630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B5001

<400> 22630
Glu Glu Val Arg Ala Leu Pro Asn Ala
1               5


<210> 22631
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; A2902

<400> 22631
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22632
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B3901

<400> 22632
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22633
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B2702

<400> 22633
Val Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22634
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; C1601

<400> 22634
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B2702

<400> 22635
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22636
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; A3201

<400> 22636
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22637
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; A3303

<400> 22637
Glu Val Arg Ala Leu Pro Asn Ala Pro Asn
1               5                   10


<210> 22638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; B4002

<400> 22638
Glu Glu Val Arg Ala Leu Pro Asn Ala
1               5


<210> 22639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; A2301

<400> 22639
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; A3303

<400> 22640
Glu Val Arg Ala Leu Pro Asn Ala Pro
1               5


<210> 22641
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32_L37del; C0202

<400> 22641
Arg Ala Leu Pro Asn Ala Pro Asn Ser Tyr
1               5                   10


<210> 22642
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CDKN2A_p.L32Q; A0201

<400> 22642
Ala Leu Gln Glu Ala Gly Ala Leu Pro Asn Ala
1               5                   10


<210> 22643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32Q; A3001

<400> 22643
Gln Glu Ala Gly Ala Leu Pro Asn Ala
1               5


<210> 22644
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32Q; A3001

<400> 22644
Gln Glu Ala Gly Ala Leu Pro Asn Ala Pro
1               5                   10


<210> 22645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32Q; B0702

<400> 22645
Arg Ala Leu Gln Glu Ala Gly Ala Leu
1               5


<210> 22646
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32Q; A0201

<400> 22646
Leu Gln Glu Ala Gly Ala Leu Pro Asn Ala
1               5                   10


<210> 22647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L32Q; B4403

<400> 22647
Gln Glu Ala Gly Ala Leu Pro Asn Ala
1               5


<210> 22648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; A0301

<400> 22648
Arg Val Ala Glu Pro Leu Leu Leu His
1               5


<210> 22649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; A1101

<400> 22649
Arg Val Ala Glu Pro Leu Leu Leu His
1               5


<210> 22650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; C0602

<400> 22650
Ala Arg Val Ala Glu Pro Leu Leu Leu

1 5

<210> 22651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; B0702

<400> 22651
Ser Ala Arg Val Ala Glu Pro Leu Leu
1 5

<210> 22652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; C1203

<400> 22652
Ser Ala Arg Val Ala Glu Pro Leu Leu
1 5

<210> 22653
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; B5101

<400> 22653
Ser Ala Arg Val Ala Glu Pro Leu Leu
1 5

<210> 22654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; A0201

<400> 22654
Met Gly Ser Ala Arg Val Ala Glu Pro
1 5

<210> 22655
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; A0301

<400> 22655
Arg Val Ala Glu Pro Leu Leu Leu His Gly
1               5                   10


<210> 22656
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; A0301

<400> 22656
Met Met Gly Ser Ala Arg Val Ala Glu Pro Leu
1               5                   10


<210> 22657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; B1501

<400> 22657
Arg Val Ala Glu Pro Leu Leu Leu His
1               5


<210> 22658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; C0202

<400> 22658
Ser Ala Arg Val Ala Glu Pro Leu Leu
1               5


<210> 22659

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L62P; C0701

<400> 22659
Ala Arg Val Ala Glu Pro Leu Leu Leu
1               5


<210> 22660
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A3301

<400> 22660
Asp Pro Ala Thr His Pro Thr Arg
1               5


<210> 22661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A6801

<400> 22661
His Ala Gly Gly Ala Ala Pro Gly Arg
1               5


<210> 22662
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; B5101

<400> 22662
Asp Pro Ala Thr His Pro Thr Arg
1               5


<210> 22663
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; B0702

<400> 22663
Gly Ala Ala Pro Gly Arg Gly Ala Ala
1               5


<210> 22664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A0205

<400> 22664
Gly Gly Ala Ala Pro Gly Arg Gly Ala
1               5


<210> 22665
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A3303

<400> 22665
Pro Ala Thr His Pro Thr Arg Ala Arg
1               5


<210> 22666
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A6801

<400> 22666
Asp Pro Ala Thr His Pro Thr Arg
1               5


<210> 22667
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A3303

<400> 22667
Asp Pro Ala Thr His Pro Thr Arg
1               5


<210> 22668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; B5101

<400> 22668
Asp Pro Ala Thr His Pro Thr Arg Ala
1               5


<210> 22669
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A0301

<400> 22669
Cys Leu Gly Pro Ser Ala Arg Gly Pro Gly
1               5                   10


<210> 22670
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; B3501

<400> 22670
Asp Pro Ala Thr His Pro Thr Arg
1               5


<210> 22671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.L78Hfs*41; A3301

<400> 22671
Pro Ala Thr His Pro Thr Arg Ala Arg
1               5


<210> 22672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; C0602

<400> 22672
Arg Arg Pro Ile Gln Val Met Ile Met
1               5


<210> 22673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; C0702

<400> 22673
Arg Arg Pro Ile Gln Val Met Ile Met
1               5


<210> 22674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; A3101

<400> 22674
Gln Val Met Ile Met Gly Ser Ala Arg
1               5


<210> 22675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; C0701

<400> 22675

Arg Arg Pro Ile Gln Val Met Ile Met
1 5

<210> 22676
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; B1302

<400> 22676
Val Met Ile Met Gly Ser Ala Arg Val
1 5

<210> 22677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; A6801

<400> 22677
Gln Val Met Ile Met Gly Ser Ala Arg
1 5

<210> 22678
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; B0702

<400> 22678
Arg Pro Ile Gln Val Met Ile Met
1 5

<210> 22679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M53I; B1302

<400> 22679
Ile Gln Val Met Ile Met Gly Ser Ala
1 5

<210> 22680
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; B5502

<400> 22680
Arg Pro Ile Gln Val Met Met Gly Ser Ala
1               5                   10


<210> 22681
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; B5501

<400> 22681
Arg Pro Ile Gln Val Met Met Gly Ser Ala
1               5                   10


<210> 22682
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; B3906

<400> 22682
Ile Gln Val Met Met Gly Ser Ala
1               5


<210> 22683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; A0205

<400> 22683
Gln Val Met Met Gly Ser Ala Arg Val
1               5

<210> 22684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; A0206

<400> 22684
Gln Val Met Met Gly Ser Ala Arg Val
1               5


<210> 22685
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; A0201

<400> 22685
Val Met Met Gly Ser Ala Arg Val Ala Glu Leu
1               5                   10


<210> 22686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; A6802

<400> 22686
Gln Val Met Met Gly Ser Ala Arg Val
1               5


<210> 22687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.M54del; B1302

<400> 22687
Gln Val Met Met Gly Ser Ala Arg Val
1               5


<210> 22688
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.P114L; C0501

<400> 22688
Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 22689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.P114L; A0201

<400> 22689
Leu Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 22690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.P114L; C0602

<400> 22690
Val Arg Asp Ala Trp Gly Arg Leu Leu
1               5


<210> 22691
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.P114L; C0401

<400> 22691
Leu Val Asp Leu Ala Glu Glu Leu
1               5


<210> 22692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.Q50H; C0602

<400> 22692
Arg Arg Pro Ile His Val Met Met Met
1               5


<210> 22693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.Q50H; C0701

<400> 22693
Arg Arg Pro Ile His Val Met Met Met
1               5


<210> 22694
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.Q50H; C0602

<400> 22694
Gly Arg Arg Pro Ile His Val Met
1               5


<210> 22695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.Q50H; C0702

<400> 22695
Arg Arg Pro Ile His Val Met Met Met
1               5


<210> 22696
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CDKN2A_p.Q50H; B0702

<400> 22696
Arg Pro Ile His Val Met Met Met
1               5


<210> 22697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.R131P; B5101

<400> 22697
Leu Pro Ala Ala Ala Gly Gly Thr Arg
1               5


<210> 22698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.R131P; A2601

<400> 22698
Asp Val Ala Arg Tyr Leu Pro Ala Ala
1               5


<210> 22699
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.R87P; B3501

<400> 22699
Asp Ala Ala Pro Glu Gly Phe Leu Asp Thr Leu
1               5                   10


<210> 22700
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.R87P; C0102

<400> 22700
Ala Ala Pro Glu Gly Phe Leu Asp Thr Leu
1               5                   10


<210> 22701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.R87P; B3501

<400> 22701
Ala Pro Glu Gly Phe Leu Asp Thr Leu
1               5


<210> 22702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.R87P; B0702

<400> 22702
Ala Pro Glu Gly Phe Leu Asp Thr Leu
1               5


<210> 22703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; A6801

<400> 22703
Leu Ala Thr Ala Thr Ala Ala Ala Arg
1               5


<210> 22704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; B2702

<400> 22704
Leu Ala Thr Ala Thr Ala Ala Ala Arg

1 5

<210> 22705
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; B4002

<400> 22705
Ala Asp Trp Leu Ala Thr Ala Thr
1 5

<210> 22706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; A0203

<400> 22706
Trp Leu Ala Thr Ala Thr Ala Ala Ala
1 5

<210> 22707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; B4002

<400> 22707
Ala Asp Trp Leu Ala Thr Ala Thr Ala
1 5

<210> 22708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; A6801

<400> 22708
Thr Ala Thr Ala Ala Ala Arg Gly Arg
1 5

<210> 22709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; B3906

<400> 22709
Ala Asp Trp Leu Ala Thr Ala Thr Ala
1               5


<210> 22710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; B3501

<400> 22710
Leu Ala Thr Ala Thr Ala Ala Ala Arg
1               5


<210> 22711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; B5001

<400> 22711
Ala Asp Trp Leu Ala Thr Ala Thr Ala
1               5


<210> 22712
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; A1101

<400> 22712
Ala Thr Ala Thr Ala Ala Ala Arg Gly Arg
1               5                   10


<210> 22713

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; A6801

<400> 22713
Ala Thr Ala Thr Ala Ala Ala Arg Gly Arg
1               5                   10


<210> 22714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CDKN2A_p.T18_A19dup; B3906

<400> 22714
Trp Leu Ala Thr Ala Thr Ala Ala Ala
1               5


<210> 22715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CHEK2_p.P484L; B4403

<400> 22715
Thr Glu Glu Ala Leu Arg His Leu Trp
1               5


<210> 22716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CHEK2_p.P484L; B4402

<400> 22716
Thr Glu Glu Ala Leu Arg His Leu Trp
1               5


<210> 22717
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CHEK2_p.R519G; A0301

<400> 22717
Val Leu Ala Gln Pro Ser Thr Ser Gly Lys
1               5                   10


<210> 22718
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CHEK2_p.R519G; A0301

<400> 22718
Gln Val Leu Ala Gln Pro Ser Thr Ser Gly Lys
1               5                   10


<210> 22719
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CIITA_p.E26D; A1101

<400> 22719
Ala Thr Met Asp Leu Gly Pro Leu Glu Gly
1               5                   10


<210> 22720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CIITA_p.E26D; A2601

<400> 22720
Asp Leu Gly Pro Leu Glu Gly Gly Tyr
1               5


<210> 22721
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CIITA_p.E26D; A0101

<400> 22721
Thr Met Asp Leu Gly Pro Leu Glu Gly Gly Tyr
1               5                   10


<210> 22722
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CIITA_p.E26D; B2702

<400> 22722
Met Asp Leu Gly Pro Leu Glu Gly Gly Tyr
1               5                   10


<210> 22723
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CIITA_p.R548Q; B0702

<400> 22723
Gln Pro Arg Gly Arg Leu Val Gln Ser Leu
1               5                   10


<210> 22724
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CIITA_p.R548Q; B1501

<400> 22724
Ala Gln Pro Arg Gly Arg Leu Val Gln Ser Leu
1               5                   10


<210> 22725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A1101

<400> 22725
Lys Thr Val Glu Val Lys Pro Val Met Lys
1               5                   10


<210> 22726
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A0301

<400> 22726
Lys Thr Val Glu Val Lys Pro Val Met Lys
1               5                   10


<210> 22727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; B5701

<400> 22727
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; C1601

<400> 22728
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A1101

<400> 22729

Thr Val Glu Val Lys Pro Val Met Lys
1               5


<210> 22730
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; B5701

<400> 22730
Lys Thr Val Glu Val Lys Pro Val Met Lys
1               5                   10


<210> 22731
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A6801

<400> 22731
Lys Thr Val Glu Val Lys Pro Val Met Lys
1               5                   10


<210> 22732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A3001

<400> 22732
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; B1501

<400> 22733
Lys Thr Val Glu Val Lys Pro Val Met
1               5

<210> 22734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A6801

<400> 22734
Thr Val Glu Val Lys Pro Val Met Lys
1               5


<210> 22735
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; B0801

<400> 22735
Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; B3501

<400> 22736
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; C0304

<400> 22737
Lys Thr Val Glu Val Lys Pro Val Met
1               5

<210> 22738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; C1203

<400> 22738
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22739
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A3101

<400> 22739
Lys Thr Val Glu Val Lys Pro Val Met Lys
1               5                   10


<210> 22740
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A6801

<400> 22740
Glu Val Lys Pro Val Met Lys Ser Arg
1               5


<210> 22741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; B1302

<400> 22741
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22742
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; C1502

<400> 22742
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A3201

<400> 22743
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22744
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A0301

<400> 22744
Thr Val Glu Val Lys Pro Val Met Lys
1               5


<210> 22745
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A1101

<400> 22745
Val Glu Val Lys Pro Val Met Lys
1               5


<210> 22746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; B0702

<400> 22746
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22747
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A2301

<400> 22747
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A3101

<400> 22748
Glu Val Lys Pro Val Met Lys Ser Arg
1               5


<210> 22749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1374V; A0201

<400> 22749
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22750
<211> 9
<212> PRT
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<220>

<223> AACR GENIE Results; CREBBP_p.G1374V; C0701

<400> 22750
Lys Thr Val Glu Val Lys Pro Val Met
1               5


<210> 22751
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B4403

<400> 22751
Glu Glu Ile Asp Ser Val Asp Val Cys Phe
1               5                   10


<210> 22752
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B4001

<400> 22752
Glu Glu Ile Asp Ser Val Asp Val Cys Phe
1               5                   10


<210> 22753
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B4402

<400> 22753
Glu Glu Ile Asp Ser Val Asp Val Cys Phe
1               5                   10


<210> 22754
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B1801

<400> 22754
Glu Glu Ile Asp Ser Val Asp Val Cys Phe
1               5                   10


<210> 22755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B4001

<400> 22755
Phe Glu Glu Ile Asp Ser Val Asp Val
1               5


<210> 22756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B5101

<400> 22756
Phe Ala Phe Glu Glu Ile Asp Ser Val
1               5


<210> 22757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; C1203

<400> 22757
Phe Ala Phe Glu Glu Ile Asp Ser Val
1               5


<210> 22758
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; A0201

<400> 22758
Ala Leu Phe Ala Phe Glu Glu Ile Asp Ser Val

1 5 10

<210> 22759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; C0501

<400> 22759
Glu Ile Asp Ser Val Asp Val Cys Phe
1 5

<210> 22760
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B3501

<400> 22760
Phe Ala Phe Glu Glu Ile Asp Ser Val Asp Val
1 5 10

<210> 22761
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B3501

<400> 22761
Phe Ala Phe Glu Glu Ile Asp Ser Val
1 5

<210> 22762
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; B4403

<400> 22762
Glu Glu Ile Asp Ser Val Asp Val Cys Phe Phe
1 5 10

<210> 22763
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CREBBP_p.G1404S; A0201

<400> 22763
Phe Ala Phe Glu Glu Ile Asp Ser Val
1               5


<210> 22764
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.K1139T; A6801

<400> 22764
Asn Pro Met Asp Leu Ser Thr Ile Thr Arg
1               5                   10


<210> 22765
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; CREBBP_p.K1139T; A6801

<400> 22765
Asn Pro Met Asp Leu Ser Thr Ile Thr Arg Lys
1               5                   10


<210> 22766
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.K1139T; B3501

<400> 22766
Asn Pro Met Asp Leu Ser Thr Ile Thr Arg
1               5                   10


<210> 22767

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.R742P; C0102

<400> 22767
Met Gly Pro Pro Ala Ala Ser Pro Met
1               5


<210> 22768
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.R742P; B0702

<400> 22768
Ala Pro Met Gly Pro Pro Ala Ala Ser Pro Met
1               5                   10


<210> 22769
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.R742P; B3501

<400> 22769
Ala Pro Met Gly Pro Pro Ala Ala Ser Pro Met
1               5                   10


<210> 22770
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.R742P; B0702

<400> 22770
Ala Pro Met Gly Pro Pro Ala Ala Ser Pro
1               5                   10


<210> 22771
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CREBBP_p.S1934P; A1101

<400> 22771
Thr Gln Pro Pro Thr Thr Val Pro Thr Gly Lys
1               5                   10


<210> 22772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C0501

<400> 22772
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3502

<400> 22773
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C0802

<400> 22774
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3801

<400> 22775
Ala His Ala Asp Glu Lys Glu Ser Leu
1               5


<210> 22776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3503

<400> 22776
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22777
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C0802

<400> 22777
His Ala Asp Glu Lys Glu Ser Leu
1               5


<210> 22778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3901

<400> 22778
Ala His Ala Asp Glu Lys Glu Ser Leu
1               5


<210> 22779
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3502

<400> 22779
His Ala Asp Glu Lys Glu Ser Leu
1               5


<210> 22780
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C0501

<400> 22780
His Ala Asp Glu Lys Glu Ser Leu
1               5


<210> 22781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3501

<400> 22781
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C0401

<400> 22782
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C0304

<400> 22783

His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22784
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3701

<400> 22784
Lys Glu Ser Leu Met Ser Glu Leu
1               5


<210> 22785
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3502

<400> 22785
Thr Ala His Ala Asp Glu Lys Glu Ser Leu
1               5                   10


<210> 22786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3801

<400> 22786
Ala His Ala Asp Glu Lys Glu Ser Leu Met
1               5                   10


<210> 22787
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B4001

<400> 22787
Lys Glu Ser Leu Met Ser Glu Leu
1               5

<210> 22788
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3503

<400> 22788
His Ala Asp Glu Lys Glu Ser Leu
1               5


<210> 22789
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3503

<400> 22789
Thr Ala His Ala Asp Glu Lys Glu Ser Leu
1               5                   10


<210> 22790
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B4002

<400> 22790
Lys Glu Ser Leu Met Ser Glu Leu
1               5


<210> 22791
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; A3001

<400> 22791
Asp Glu Lys Glu Ser Leu Met Ser Glu Leu
1               5                   10

<210> 22792
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B0801

<400> 22792
His Ala Asp Glu Lys Glu Ser Leu
1               5


<210> 22793
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B4002

<400> 22793
Asp Glu Lys Glu Ser Leu Met Ser Glu Leu
1               5                   10


<210> 22794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C1701

<400> 22794
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22795
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3901

<400> 22795
Ala His Ala Asp Glu Lys Glu Ser Leu Met
1               5                   10


<210> 22796
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B3801

<400> 22796
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22797
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; A3001

<400> 22797
Lys Glu Ser Leu Met Ser Glu Leu
1               5


<210> 22798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; C0303

<400> 22798
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22799
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B1801

<400> 22799
Asp Glu Lys Glu Ser Leu Met Ser Glu Leu
1               5                   10


<210> 22800
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.A629S; B5101

<400> 22800
His Ala Asp Glu Lys Glu Ser Leu Met
1               5


<210> 22801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; C0401

<400> 22801
Val Trp Asp Asp Pro Tyr His Glu Val
1               5


<210> 22802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; C0501

<400> 22802
Val Trp Asp Asp Pro Tyr His Glu Val
1               5


<210> 22803
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; C0401

<400> 22803
Val Trp Asp Asp Pro Tyr His Glu Val Leu
1               5                   10


<210> 22804
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CSF1R_p.P455H; B0801

<400> 22804
Asp Asp Pro Tyr His Glu Val Leu
1               5


<210> 22805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; B1801

<400> 22805
His Glu Val Leu Ser Gln Glu Pro Phe
1               5


<210> 22806
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; B5101

<400> 22806
Asp Asp Pro Tyr His Glu Val Leu
1               5


<210> 22807
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; A0201

<400> 22807
Gln Val Trp Asp Asp Pro Tyr His Glu Val
1               5                   10


<210> 22808
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; C0501

<400> 22808
Val Trp Asp Asp Pro Tyr His Glu Val Leu
1               5                   10


<210> 22809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CSF1R_p.P455H; B4001

<400> 22809
His Glu Val Leu Ser Gln Glu Pro Phe
1               5


<210> 22810
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; B4403

<400> 22810
Val Glu Ala Ile Val Glu Glu Ser Lys Thr Phe
1               5                   10


<210> 22811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; B1501

<400> 22811
Ala Ile Val Glu Glu Ser Lys Thr Phe
1               5


<210> 22812
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; A1101

<400> 22812
Ala Ile Val Glu Glu Ser Lys Thr Phe Ile Lys

1 5 10

<210> 22813
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; B4402

<400> 22813
Val Glu Ala Ile Val Glu Glu Ser Lys Thr Phe
1 5 10

<210> 22814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; C0501

<400> 22814
Ile Val Glu Glu Ser Lys Thr Phe Ile
1 5

<210> 22815
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; B3501

<400> 22815
Glu Ala Ile Val Glu Glu Ser Lys Thr Phe
1 5 10

<210> 22816
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; A1101

<400> 22816
Ile Val Glu Glu Ser Lys Thr Phe Ile Lys
1 5 10

<210> 22817
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; A0301

<400> 22817
Ile Val Glu Glu Ser Lys Thr Phe Ile Lys
1               5                   10


<210> 22818
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; A0201

<400> 22818
Ala Ile Val Glu Glu Ser Lys Thr Phe Ile
1               5                   10


<210> 22819
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; B1801

<400> 22819
Val Glu Ala Ile Val Glu Glu Ser Lys Thr Phe
1               5                   10


<210> 22820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; A0301

<400> 22820
Lys Thr Phe Ile Lys Gly Lys Glu Arg
1               5


<210> 22821

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTCF_p.E14K; A2601

<400> 22821
Glu Ala Ile Val Glu Glu Ser Lys Thr Phe
1               5                   10


<210> 22822
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; B5101

<400> 22822
Gln Ser Tyr Leu Gly Ser Gly Ile
1               5


<210> 22823
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A0201

<400> 22823
Tyr Leu Gly Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22824
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A0201

<400> 22824
Tyr Leu Gly Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 22825
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A6801

<400> 22825
Leu Gly Ser Gly Ile His Ser Gly Ala
1               5


<210> 22826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A1101

<400> 22826
Gln Ser Tyr Leu Gly Ser Gly Ile His
1               5


<210> 22827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; B0801

<400> 22827
Tyr Leu Gly Ser Gly Ile His Ser Gly
1               5


<210> 22828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; B0801

<400> 22828
Leu Gly Ser Gly Ile His Ser Gly Ala
1               5


<210> 22829
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A0301

<400> 22829
Gln Ser Tyr Leu Gly Ser Gly Ile His
1               5


<210> 22830
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A0201

<400> 22830
Tyr Leu Gly Ser Gly Ile His Ser Gly
1               5


<210> 22831
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A1101

<400> 22831
Ser Tyr Leu Gly Ser Gly Ile His Ser Gly
1               5                   10


<210> 22832
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A0201

<400> 22832
Ser Tyr Leu Gly Ser Gly Ile His Ser Gly
1               5                   10


<210> 22833
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; B0801

<400> 22833
Tyr Leu Gly Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22834
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32G; A6801

<400> 22834
Gln Ser Tyr Leu Gly Ser Gly Ile His Ser Gly
1               5                   10


<210> 22835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A0201

<400> 22835
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22836
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A0201

<400> 22836
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 22837
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; B5101

<400> 22837

Gln Ser Tyr Leu Asn Ser Gly Ile
1               5


<210> 22838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A0201

<400> 22838
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 22839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A1101

<400> 22839
Gln Ser Tyr Leu Asn Ser Gly Ile His
1               5


<210> 22840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; B0801

<400> 22840
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 22841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; B1501

<400> 22841
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10

<210> 22842
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; B0801

<400> 22842
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A0301

<400> 22843
Tyr Leu Asn Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A2601

<400> 22844
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 22845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A0301

<400> 22845
Gln Ser Tyr Leu Asn Ser Gly Ile His
1               5

<210> 22846
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32N; A0301

<400> 22846
Tyr Leu Asn Ser Gly Ile His Ser Gly
1               5


<210> 22847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A2902

<400> 22847
His Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 22848
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A0201

<400> 22848
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A0201

<400> 22849
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 22850
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A0201

<400> 22850
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 22851
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; B1501

<400> 22851
Trp Gln Gln Gln Ser Tyr Leu Tyr
1               5


<210> 22852
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A3101

<400> 22852
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5                   10


<210> 22853
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A0301

<400> 22853
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; B0801

<400> 22854
Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5


<210> 22855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A3101

<400> 22855
Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 22856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A0301

<400> 22856
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 22857
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; B0801

<400> 22857
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 22858
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.D32Y; B1501

<400> 22858
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1               5                   10


<210> 22859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A3101

<400> 22859
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 22860
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A2601

<400> 22860
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 22861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; B0801

<400> 22861
Tyr Leu Tyr Ser Gly Ile His Ser Gly
1               5


<210> 22862
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A3101

<400> 22862
Ser Tyr Leu Tyr Ser Gly Ile His Ser
1               5


<210> 22863
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; B5101

<400> 22863
Gln Ser Tyr Leu Tyr Ser Gly Ile
1               5


<210> 22864
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A3101

<400> 22864
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 22865
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; B0801

<400> 22865
Tyr Ser Gly Ile His Ser Gly Ala
1               5


<210> 22866
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A3101

<400> 22866
Ser Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala

1 5 10

<210> 22867
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; B0801

<400> 22867
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 22868
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; C1203

<400> 22868
Tyr Ser Gly Ile His Ser Gly Ala
1 5

<210> 22869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A0201

<400> 22869
Leu Tyr Ser Gly Ile His Ser Gly Ala Thr
1 5 10

<210> 22870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.D32Y; A2902

<400> 22870
Tyr Leu Tyr Ser Gly Ile His Ser Gly Ala
1 5 10

<210> 22871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; A0201

<400> 22871
Tyr Leu Asp Ser Glu Ile His Ser Gly Ala
1               5                   10


<210> 22872
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; A0201

<400> 22872
Tyr Leu Asp Ser Glu Ile His Ser Gly Ala Thr
1               5                   10


<210> 22873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; A0201

<400> 22873
Tyr Leu Asp Ser Glu Ile His Ser Gly
1               5


<210> 22874
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; A0101

<400> 22874
Tyr Leu Asp Ser Glu Ile His Ser Gly Ala Thr
1               5                   10


<210> 22875

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; A0201

<400> 22875
Leu Asp Ser Glu Ile His Ser Gly Ala
1               5


<210> 22876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; A0101

<400> 22876
Tyr Leu Asp Ser Glu Ile His Ser Gly Ala
1               5                   10


<210> 22877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; B0801

<400> 22877
Glu Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 22878
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34E; A1101

<400> 22878
Ser Glu Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22879
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34R; B1501

<400> 22879
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22880
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34R; A0201

<400> 22880
Tyr Leu Asp Ser Arg Ile His Ser Gly Ala
1               5                   10


<210> 22881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34R; B1501

<400> 22881
Arg Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 22882
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34R; A0301

<400> 22882
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22883
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34R; B5101

<400> 22883
Gln Ser Tyr Leu Asp Ser Arg Ile
1               5


<210> 22884
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34R; A0201

<400> 22884
Tyr Leu Asp Ser Arg Ile His Ser Gly
1               5


<210> 22885
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34R; B0702

<400> 22885
Arg Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22886
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1402

<400> 22886
Asp Ser Val Ile His Ser Gly Ala
1               5


<210> 22887
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A3101

<400> 22887
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 22888
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1302

<400> 22888
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 22889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B3801

<400> 22889
Gln Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 22890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1302

<400> 22890
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 22891
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A2902

<400> 22891

Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 22892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A2301

<400> 22892
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 22893
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A0201

<400> 22893
Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 22894
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1501

<400> 22894
Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1501

<400> 22895
Val Ile His Ser Gly Ala Thr Thr Thr
1               5

<210> 22896
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A2301

<400> 22896
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 22897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A0201

<400> 22897
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 22898
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1501

<400> 22898
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22899
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A6801

<400> 22899
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10

<210> 22900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A3101

<400> 22900
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 22901
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1501

<400> 22901
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 22902
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1302

<400> 22902
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 22903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A1101

<400> 22903
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 22904
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A0101

<400> 22904
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1               5                   10


<210> 22905
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1302

<400> 22905
Gln Gln Ser Tyr Leu Asp Ser Val
1               5


<210> 22906
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B5101

<400> 22906
Gln Ser Tyr Leu Asp Ser Val Ile
1               5


<210> 22907
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A3101

<400> 22907
Ser Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 22908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B0801

<400> 22908
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 22909
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A0201

<400> 22909
Ser Tyr Leu Asp Ser Val Ile His Ser Gly Ala
1               5                   10


<210> 22910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A2402

<400> 22910
Ser Tyr Leu Asp Ser Val Ile His Ser
1               5


<210> 22911
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A1101

<400> 22911
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22912
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.G34V; B2705

<400> 22912
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 22913
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B0801

<400> 22913
Asp Ser Val Ile His Ser Gly Ala
1               5


<210> 22914
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A0101

<400> 22914
Tyr Leu Asp Ser Val Ile His Ser Gly
1               5


<210> 22915
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A6801

<400> 22915
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 22916
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A3101

<400> 22916
Ser Val Ile His Ser Gly Ala Thr Thr Thr
1 5 10

<210> 22917
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1302

<400> 22917
Val Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 22918
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B5101

<400> 22918
Asp Ser Val Ile His Ser Gly Ala
1 5

<210> 22919
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A3101

<400> 22919
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1 5

<210> 22920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; C0802

<400> 22920
Tyr Leu Asp Ser Val Ile His Ser Gly

1 5

<210> 22921
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A0201

<400> 22921
Tyr Leu Asp Ser Val Ile His Ser Gly Ala Thr
1 5 10

<210> 22922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A0201

<400> 22922
Gln Gln Gln Ser Tyr Leu Asp Ser Val
1 5

<210> 22923
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B3501

<400> 22923
Ser Val Ile His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 22924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A1101

<400> 22924
Gln Ser Tyr Leu Asp Ser Val Ile His
1 5

<210> 22925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B1302

<400> 22925
Val Ile His Ser Gly Ala Thr Thr Thr
1               5


<210> 22926
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; A1101

<400> 22926
Ser Tyr Leu Asp Ser Val Ile His Ser Gly
1               5                   10


<210> 22927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G34V; B0702

<400> 22927
Ser Val Ile His Ser Gly Ala Thr Thr
1               5


<210> 22928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; C0304

<400> 22928
Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5


<210> 22929

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; B2705

<400> 22929
Thr Arg Ala Leu His Ile Leu Ala Arg
1               5


<210> 22930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; C0802

<400> 22930
Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5


<210> 22931
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A6801

<400> 22931
Glu Ile Val Glu Gly Cys Thr Arg
1               5


<210> 22932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; B4403

<400> 22932
Glu Glu Ile Val Glu Gly Cys Thr Arg
1               5


<210> 22933
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; C0303

<400> 22933
Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5


<210> 22934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; B0702

<400> 22934
Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5


<210> 22935
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; B4402

<400> 22935
Glu Glu Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5                   10


<210> 22936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A2601

<400> 22936
Glu Ile Val Glu Gly Cys Thr Arg Ala
1               5


<210> 22937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A6801

<400> 22937
Glu Glu Ile Val Glu Gly Cys Thr Arg
1               5


<210> 22938
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; C0102

<400> 22938
Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5


<210> 22939
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A3101

<400> 22939
Arg Ala Leu His Ile Leu Ala Arg
1               5


<210> 22940
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A3101

<400> 22940
Arg Met Glu Glu Ile Val Glu Gly Cys Thr Arg
1               5                   10


<210> 22941
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A2601

<400> 22941
Glu Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5                   10


<210> 22942
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; B4403

<400> 22942
Glu Glu Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5                   10


<210> 22943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; B4402

<400> 22943
Glu Glu Ile Val Glu Gly Cys Thr Arg
1               5


<210> 22944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A6801

<400> 22944
Glu Ile Val Glu Gly Cys Thr Arg Ala Leu
1               5                   10


<210> 22945
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.G575R; A3101

<400> 22945

Cys Thr Arg Ala Leu His Ile Leu Ala Arg
1               5                   10


<210> 22946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A0201

<400> 22946
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3901

<400> 22947
Ser His Ser Gly Ala Thr Thr Thr Ala
1               5


<210> 22948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; C0802

<400> 22948
Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5


<210> 22949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3901

<400> 22949
Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5

<210> 22950
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3801

<400> 22950
Ser His Ser Gly Ala Thr Thr Thr Ala
1               5


<210> 22951
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A3303

<400> 22951
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A0201

<400> 22952
Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5


<210> 22953
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A0101

<400> 22953
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10

<210> 22954
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3901

<400> 22954
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5                   10


<210> 22955
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; C0802

<400> 22955
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22956
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3901

<400> 22956
Ser His Ser Gly Ala Thr Thr Thr
1               5


<210> 22957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3901

<400> 22957
Ser His Ser Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 22958
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A3303

<400> 22958
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5                   10


<210> 22959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A2902

<400> 22959
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5                   10


<210> 22960
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A3101

<400> 22960
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5                   10


<210> 22961
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3901

<400> 22961
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala Thr
1               5                   10


<210> 22962
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B1302

<400> 22962
Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5


<210> 22963
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A3001

<400> 22963
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22964
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A0201

<400> 22964
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala Thr
1               5                   10


<210> 22965
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; C1402

<400> 22965
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5                   10


<210> 22966
<211> 10
<212> PRT
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<220>

<223> AACR GENIE Results; CTNNB1_p.I35S; A0301

<400> 22966
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22967
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A3101

<400> 22967
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22968
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B2702

<400> 22968
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22969
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B0801

<400> 22969
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala Thr
1               5                   10


<210> 22970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A0101

<400> 22970
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala Thr
1               5                   10


<210> 22971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A0101

<400> 22971
Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5


<210> 22972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A3303

<400> 22972
Ser Tyr Leu Asp Ser Gly Ser His Ser
1               5


<210> 22973
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B1302

<400> 22973
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1               5                   10


<210> 22974
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A6802

<400> 22974
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala

1 5 10

<210> 22975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B1501

<400> 22975
Gly Ser His Ser Gly Ala Thr Thr Thr Ala
1 5 10

<210> 22976
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3901

<400> 22976
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1 5 10

<210> 22977
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; B3801

<400> 22977
Ser His Ser Gly Ala Thr Thr Thr Ala Pro
1 5 10

<210> 22978
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A0201

<400> 22978
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly Ala
1 5 10

<210> 22979
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A6802

<400> 22979
Tyr Leu Asp Ser Gly Ser His Ser Gly Ala Thr
1               5                   10


<210> 22980
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.I35S; A2402

<400> 22980
Ser Tyr Leu Asp Ser Gly Ser His Ser Gly
1               5                   10


<210> 22981
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; B5701

<400> 22981
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu Trp
1               5                   10


<210> 22982
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; A2402

<400> 22982
Thr Tyr Thr Tyr Glu Ile Leu Leu Trp
1               5


<210> 22983

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; C1502

<400> 22983
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 22984
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; B5701

<400> 22984
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 22985
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; A2301

<400> 22985
Thr Tyr Thr Tyr Glu Ile Leu Leu Trp
1               5


<210> 22986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; B2702

<400> 22986
Glu Ile Leu Leu Trp Thr Thr Ser Arg
1               5


<210> 22987
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; A6801

<400> 22987
Glu Ile Leu Leu Trp Thr Thr Ser Arg
1               5


<210> 22988
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; C0701

<400> 22988
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 22989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; A3101

<400> 22989
Glu Ile Leu Leu Trp Thr Thr Ser Arg
1               5


<210> 22990
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; B5701

<400> 22990
Tyr Thr Tyr Glu Ile Leu Leu Trp
1               5


<210> 22991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; A0201

<400> 22991
Ile Leu Leu Trp Thr Thr Ser Arg Val
1               5


<210> 22992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; B4901

<400> 22992
Tyr Glu Ile Leu Leu Trp Thr Thr Ser
1               5


<210> 22993
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; C1701

<400> 22993
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 22994
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; A0301

<400> 22994
Ile Leu Leu Trp Thr Thr Ser Arg Val Leu Lys
1               5                   10


<210> 22995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; C1203

<400> 22995
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 22996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.K335I; C1601

<400> 22996
Arg Thr Tyr Thr Tyr Glu Ile Leu Leu
1               5


<210> 22997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B1501

<400> 22997
Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 22998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; A3201

<400> 22998
Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 22999
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B3501

<400> 22999

Thr Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5                   10


<210> 23000
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B1501

<400> 23000
Thr Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5                   10


<210> 23001
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; A2601

<400> 23001
Thr Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5                   10


<210> 23002
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B1501

<400> 23002
Arg Thr Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5                   10


<210> 23003
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; A3201

<400> 23003
Arg Thr Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5                   10

<210> 23004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B0801

<400> 23004
Gln Asp Thr Gln Arg Arg Thr Ser Val
1               5


<210> 23005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B3501

<400> 23005
Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 23006
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; C1601

<400> 23006
Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 23007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B0702

<400> 23007
Gln Asp Thr Gln Arg Arg Thr Ser Val
1               5

<210> 23008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; A2601

<400> 23008
Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 23009
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B4403

<400> 23009
Thr Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5                   10


<210> 23010
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B1501

<400> 23010
Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 23011
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B0801

<400> 23011
Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 23012
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; B0702

<400> 23012
Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5


<210> 23013
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.M553V; A1101

<400> 23013
Thr Ser Val Gly Gly Thr Gln Gln Gln Phe
1               5                   10


<210> 23014
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.N387K; A0301

<400> 23014
Thr Leu Arg Lys Leu Ser Asp Ala Ala Thr Lys
1               5                   10


<210> 23015
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.N387K; A0301

<400> 23015
Lys Leu Ser Asp Ala Ala Thr Lys
1               5


<210> 23016
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; C0401

<400> 23016
Ala Trp Asp Val His Asn Arg Ile
1               5


<210> 23017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; B5701

<400> 23017
Thr Gly Ala Leu His Ile Leu Ala Trp
1               5


<210> 23018
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; A3303

<400> 23018
Leu Ala Trp Asp Val His Asn Arg
1               5


<210> 23019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; A3101

<400> 23019
Ile Leu Ala Trp Asp Val His Asn Arg
1               5


<210> 23020
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.R582W; B5101

<400> 23020
Leu Ala Trp Asp Val His Asn Arg Ile
1               5


<210> 23021
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; B5701

<400> 23021
Gly Ala Leu His Ile Leu Ala Trp
1               5


<210> 23022
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; A3101

<400> 23022
Leu Ala Trp Asp Val His Asn Arg
1               5


<210> 23023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; A6802

<400> 23023
Leu Ala Trp Asp Val His Asn Arg Ile
1               5


<210> 23024
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; A6801

<400> 23024
Leu Ala Trp Asp Val His Asn Arg
1               5


<210> 23025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; C0401

<400> 23025
Ala Trp Asp Val His Asn Arg Ile Val
1               5


<210> 23026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; B4403

<400> 23026
Thr Gly Ala Leu His Ile Leu Ala Trp
1               5


<210> 23027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; A0201

<400> 23027
Ala Leu His Ile Leu Ala Trp Asp Val
1               5


<210> 23028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; B5701

<400> 23028
Leu Ala Trp Asp Val His Asn Arg Ile

1 5

<210> 23029
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R582W; A3101

<400> 23029
His Ile Leu Ala Trp Asp Val His Asn Arg
1 5 10

<210> 23030
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B3501

<400> 23030
Tyr Ala Ala Ala Val Leu Phe Gln Met
1 5

<210> 23031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C0202

<400> 23031
Tyr Ala Ala Ala Val Leu Phe Gln Met
1 5

<210> 23032
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C1601

<400> 23032
Tyr Ala Ala Ala Val Leu Phe Gln Met
1 5

<210> 23033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C0304

<400> 23033
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23034
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C1601

<400> 23034
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23035
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C0303

<400> 23035
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C1203

<400> 23036
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23037

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A2402

<400> 23037
Thr Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5                   10


<210> 23038
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A1101

<400> 23038
Ala Val Leu Phe Gln Met Ser Glu Asp Lys
1               5                   10


<210> 23039
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A2301

<400> 23039
Thr Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5                   10


<210> 23040
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B3501

<400> 23040
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23041
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B1501

<400> 23041
Phe Gln Met Ser Glu Asp Lys Pro Gln Asp Tyr
1               5                   10


<210> 23042
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C1203

<400> 23042
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23043
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B1501

<400> 23043
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B1302

<400> 23044
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A2902

<400> 23045
Thr Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5                   10


<210> 23046
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B0801

<400> 23046
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A0201

<400> 23047
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23048
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A1101

<400> 23048
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23049
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A0101

<400> 23049
Gln Met Ser Glu Asp Lys Pro Gln Asp Tyr
1               5                   10


<210> 23050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A6801

<400> 23050
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23051
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B1302

<400> 23051
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B5701

<400> 23052
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A0301

<400> 23053

Ala Val Leu Phe Gln Met Ser Glu Asp Lys
1               5                   10


<210> 23054
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A1101

<400> 23054
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23055
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B5101

<400> 23055
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; C1502

<400> 23056
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23057
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B5701

<400> 23057
Ala Ala Ala Val Leu Phe Gln Met
1               5

<210> 23058
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A2902

<400> 23058
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B5101

<400> 23059
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A3001

<400> 23060
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23061
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A2902

<400> 23061
Gln Met Ser Glu Asp Lys Pro Gln Asp Tyr
1               5                   10

<210> 23062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B0702

<400> 23062
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A6801

<400> 23063
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23064
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B1501

<400> 23064
Gln Met Ser Glu Asp Lys Pro Gln Asp Tyr
1               5                   10


<210> 23065
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A1101

<400> 23065
Gln Met Ser Glu Asp Lys Pro Gln Asp Tyr Lys
1               5                   10


<210> 23066
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A2601

<400> 23066
Tyr Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A2601

<400> 23067
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23068
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; B0702

<400> 23068
Ala Ala Ala Val Leu Phe Gln Met
1               5


<210> 23069
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.R661Q; A3101

<400> 23069
Thr Tyr Ala Ala Ala Val Leu Phe Gln Met Ser
1               5                   10


<210> 23070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33C; B1302

<400> 23070
Gln Gln Ser Tyr Leu Asp Cys Gly Ile
1               5


<210> 23071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33C; A0201

<400> 23071
Tyr Leu Asp Cys Gly Ile His Ser Gly Ala
1               5                   10


<210> 23072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33C; B3801

<400> 23072
Gln Gln Ser Tyr Leu Asp Cys Gly Ile
1               5


<210> 23073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33C; A0201

<400> 23073
Tyr Leu Asp Cys Gly Ile His Ser Gly
1               5


<210> 23074
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.S33F; B1302

<400> 23074
Gln Gln Ser Tyr Leu Asp Phe Gly Ile
1               5


<210> 23075
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A0201

<400> 23075
Tyr Leu Asp Phe Gly Ile His Ser Gly Ala
1               5                   10


<210> 23076
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A3101

<400> 23076
Ser Tyr Leu Asp Phe Gly Ile His Ser Gly
1               5                   10


<210> 23077
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A2301

<400> 23077
Ser Tyr Leu Asp Phe Gly Ile His Ser Gly
1               5                   10


<210> 23078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A3101

<400> 23078
Ser Tyr Leu Asp Phe Gly Ile His Ser
1               5


<210> 23079
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; B0801

<400> 23079
Phe Gly Ile His Ser Gly Ala Thr Thr Thr
1               5                   10


<210> 23080
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A0201

<400> 23080
Tyr Leu Asp Phe Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 23081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A2301

<400> 23081
Ser Tyr Leu Asp Phe Gly Ile His Ser
1               5


<210> 23082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; B3801

<400> 23082
Gln Gln Ser Tyr Leu Asp Phe Gly Ile

1 5

<210> 23083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A0101

<400> 23083
Tyr Leu Asp Phe Gly Ile His Ser Gly Ala
1 5 10

<210> 23084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; B1501

<400> 23084
Trp Gln Gln Gln Ser Tyr Leu Asp Phe
1 5

<210> 23085
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; B1501

<400> 23085
Gln Gln Gln Ser Tyr Leu Asp Phe
1 5

<210> 23086
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A1101

<400> 23086
Leu Asp Phe Gly Ile His Ser Gly
1 5

<210> 23087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A0201

<400> 23087
Tyr Leu Asp Phe Gly Ile His Ser Gly
1               5


<210> 23088
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A2902

<400> 23088
Tyr Leu Asp Phe Gly Ile His Ser Gly Ala
1               5                   10


<210> 23089
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A0201

<400> 23089
Leu Asp Phe Gly Ile His Ser Gly
1               5


<210> 23090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33F; A0201

<400> 23090
Leu Asp Phe Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 23091

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0201

<400> 23091
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23092
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B1302

<400> 23092
Gln Gln Ser Tyr Leu Asp Pro Gly Ile
1               5


<210> 23093
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3303

<400> 23093
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23094
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3303

<400> 23094
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23095
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3101

<400> 23095
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B3801

<400> 23096
Gln Gln Ser Tyr Leu Asp Pro Gly Ile
1               5


<210> 23097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0201

<400> 23097
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B3901

<400> 23098
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23099
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0201

<400> 23099
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 23100
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3101

<400> 23100
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23101
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0101

<400> 23101
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3303

<400> 23102
Ser Tyr Leu Asp Pro Gly Ile His Ser
1               5


<210> 23103
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A2902

<400> 23103
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23104
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B2702

<400> 23104
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23105
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0101

<400> 23105
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 23106
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A2301

<400> 23106
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23107
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A6802

<400> 23107

Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23108
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A1101

<400> 23108
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23109
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0301

<400> 23109
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23110
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B3901

<400> 23110
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23111
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A2902

<400> 23111
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10

<210> 23112
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B1302

<400> 23112
Gln Gln Gln Ser Tyr Leu Asp Pro Gly Ile
1               5                   10


<210> 23113
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B1302

<400> 23113
Gln Ser Tyr Leu Asp Pro Gly Ile
1               5


<210> 23114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3101

<400> 23114
Ser Tyr Leu Asp Pro Gly Ile His Ser
1               5


<210> 23115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B3801

<400> 23115
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5

<210> 23116
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; C0704

<400> 23116
Leu Asp Pro Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 23117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; C0802

<400> 23117
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B1302

<400> 23118
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0101

<400> 23119
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23120
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A1101

<400> 23120
Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23121
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B5101

<400> 23121
Gln Ser Tyr Leu Asp Pro Gly Ile
1               5


<210> 23122
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3101

<400> 23122
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23123
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A6802

<400> 23123
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 23124
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B3801

<400> 23124
Gln Gln Gln Ser Tyr Leu Asp Pro Gly Ile
1               5                   10


<210> 23125
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; C0802

<400> 23125
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A2402

<400> 23126
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23127
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3001

<400> 23127
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23128
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.S33P; B3901

<400> 23128
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala Thr
1               5                   10


<210> 23129
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B1302

<400> 23129
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23130
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; C1402

<400> 23130
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A1101

<400> 23131
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23132
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B0801

<400> 23132
Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5


<210> 23133
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A6801

<400> 23133
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly
1               5                   10


<210> 23134
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3101

<400> 23134
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A1101

<400> 23135
Gln Ser Tyr Leu Asp Pro Gly Ile His
1               5


<210> 23136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B0801

<400> 23136
Leu Asp Pro Gly Ile His Ser Gly Ala Thr

1 5 10

<210> 23137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A2601

<400> 23137
Tyr Leu Asp Pro Gly Ile His Ser Gly
1 5

<210> 23138
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A3101

<400> 23138
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala Thr
1 5 10

<210> 23139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0301

<400> 23139
Gln Ser Tyr Leu Asp Pro Gly Ile His
1 5

<210> 23140
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A6801

<400> 23140
Leu Asp Pro Gly Ile His Ser Gly Ala Thr
1 5 10

<210> 23141
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; A0201

<400> 23141
Ser Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23142
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S33P; B1501

<400> 23142
Tyr Leu Asp Pro Gly Ile His Ser Gly Ala
1               5                   10


<210> 23143
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A0201

<400> 23143
Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5


<210> 23144
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A0201

<400> 23144
Tyr Leu Asp Ser Gly Ile His Cys Gly Ala
1               5                   10


<210> 23145

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; C1402

<400> 23145
Ser Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 23146
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A3303

<400> 23146
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 23147
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A3101

<400> 23147
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 23148
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A0201

<400> 23148
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 23149
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; B3901

<400> 23149
Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5


<210> 23150
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; B3901

<400> 23150
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 23151
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; C0802

<400> 23151
Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 23152
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A3101

<400> 23152
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly Ala
1               5                   10


<210> 23153
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A3001

<400> 23153
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 23154
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; C0501

<400> 23154
Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 23155
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A3303

<400> 23155
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly Ala
1               5                   10


<210> 23156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A2301

<400> 23156
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5                   10


<210> 23157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; B1302

<400> 23157
Tyr Leu Asp Ser Gly Ile His Cys Gly
1               5


<210> 23158
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A6802

<400> 23158
Tyr Leu Asp Ser Gly Ile His Cys Gly Ala
1               5                   10


<210> 23159
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A0201

<400> 23159
Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 23160
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A0201

<400> 23160
Leu Asp Ser Gly Ile His Cys Gly
1               5


<210> 23161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A0101

<400> 23161

Tyr Leu Asp Ser Gly Ile His Cys Gly Ala
1               5                   10


<210> 23162
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; B3901

<400> 23162
Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 23163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; B3901

<400> 23163
Ser Tyr Leu Asp Ser Gly Ile His Cys
1               5


<210> 23164
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A0201

<400> 23164
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly Ala
1               5                   10


<210> 23165
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; A6802

<400> 23165
Leu Asp Ser Gly Ile His Cys Gly Ala
1               5

<210> 23166
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37C; B2705

<400> 23166
Ser Tyr Leu Asp Ser Gly Ile His Cys Gly Ala
1               5                   10


<210> 23167
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2301

<400> 23167
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C1402

<400> 23168
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2402

<400> 23169
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5

<210> 23170
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0501

<400> 23170
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23171
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0802

<400> 23171
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23172
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C1701

<400> 23172
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23173
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0401

<400> 23173
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23174
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A0201

<400> 23174
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3901

<400> 23175
Ile His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 23176
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B5801

<400> 23176
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A3101

<400> 23177
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly
1               5                   10


<210> 23178
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3801

<400> 23178
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23179
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A0101

<400> 23179
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0702

<400> 23180
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A0201

<400> 23181
Tyr Leu Asp Ser Gly Ile His Phe Gly
1               5


<210> 23182
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.S37F; A3101

<400> 23182
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23183
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0202

<400> 23183
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23184
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B1501

<400> 23184
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 23185
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A6802

<400> 23185
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23186
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3503

<400> 23186
Phe Gly Ala Thr Thr Thr Ala Pro Ser Leu
1               5                   10


<210> 23187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2301

<400> 23187
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23188
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B5801

<400> 23188
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 23189
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2902

<400> 23189
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23190
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B5701

<400> 23190
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe

1 5 10

<210> 23191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A6802

<400> 23191
Leu Asp Ser Gly Ile His Phe Gly Ala
1 5

<210> 23192
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A0205

<400> 23192
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1 5 10

<210> 23193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0304

<400> 23193
Tyr Leu Asp Ser Gly Ile His Phe
1 5

<210> 23194
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3901

<400> 23194
Tyr Leu Asp Ser Gly Ile His Phe
1 5

<210> 23195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3801

<400> 23195
Ile His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 23196
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2902

<400> 23196
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly
1               5                   10


<210> 23197
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B2702

<400> 23197
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23198
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3901

<400> 23198
Ile His Phe Gly Ala Thr Thr Thr
1               5


<210> 23199

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0801

<400> 23199
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B5001

<400> 23200
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 23201
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B4002

<400> 23201
Phe Gly Ala Thr Thr Thr Ala Pro Ser Leu
1               5                   10


<210> 23202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A3303

<400> 23202
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23203
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A3301

<400> 23203
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly
1               5                   10


<210> 23204
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A3303

<400> 23204
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly
1               5                   10


<210> 23205
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2902

<400> 23205
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B1501

<400> 23206
Gly Ile His Phe Gly Ala Thr Thr Thr
1               5


<210> 23207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3901

<400> 23207
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B0801

<400> 23208
Asp Ser Gly Ile His Phe Gly Ala Thr
1               5


<210> 23209
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A0101

<400> 23209
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23210
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A3303

<400> 23210
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3801

<400> 23211
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B1503

<400> 23212
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23213
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3901

<400> 23213
Ile His Phe Gly Ala Thr Thr Thr Ala Pro
1               5                   10


<210> 23214
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A6801

<400> 23214
Asp Ser Gly Ile His Phe Gly Ala
1               5


<210> 23215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2301

<400> 23215

Ser Tyr Leu Asp Ser Gly Ile His Phe Gly
1               5                   10


<210> 23216
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B1302

<400> 23216
Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23217
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B1302

<400> 23217
Gly Ile His Phe Gly Ala Thr Thr Thr Ala
1               5                   10


<210> 23218
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A2902

<400> 23218
Ser Tyr Leu Asp Ser Gly Ile His Phe Gly Ala
1               5                   10


<210> 23219
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0302

<400> 23219
Tyr Leu Asp Ser Gly Ile His Phe
1               5

<210> 23220
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0303

<400> 23220
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; C0401

<400> 23221
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23222
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A3301

<400> 23222
Asp Ser Gly Ile His Phe Gly Ala
1               5


<210> 23223
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A6802

<400> 23223
Leu Asp Ser Gly Ile His Phe Gly Ala Thr
1               5                   10

<210> 23224
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B1501

<400> 23224
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 23225
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3501

<400> 23225
Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23226
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A6801

<400> 23226
Gln Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5                   10


<210> 23227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B5001

<400> 23227
Ile His Phe Gly Ala Thr Thr Thr Ala
1               5


<210> 23228
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B1501

<400> 23228
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B5001

<400> 23229
Leu Asp Ser Gly Ile His Phe Gly Ala
1               5


<210> 23230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; B3701

<400> 23230
Leu Asp Ser Gly Ile His Phe Gly Ala
1               5


<210> 23231
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A3101

<400> 23231
Ser Tyr Leu Asp Ser Gly Ile His Phe
1               5


<210> 23232
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S37F; A1101

<400> 23232
Asp Ser Gly Ile His Phe Gly Ala Thr
1               5


<210> 23233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45del; A0301

<400> 23233
Thr Thr Thr Ala Pro Leu Ser Gly Lys
1               5


<210> 23234
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45del; A0301

<400> 23234
Ala Thr Thr Thr Ala Pro Leu Ser Gly Lys
1               5                   10


<210> 23235
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45del; A0301

<400> 23235
Gly Ala Thr Thr Thr Ala Pro Leu Ser Gly Lys
1               5                   10


<210> 23236
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.S45del; A0301

<400> 23236
Thr Thr Ala Pro Leu Ser Gly Lys
1               5


<210> 23237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45del; B0702

<400> 23237
Ser Gly Ala Thr Thr Thr Ala Pro Leu
1               5


<210> 23238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23238
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6801

<400> 23239
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A0301

<400> 23240
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23241
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23241
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 23242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C1701

<400> 23242
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23243
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6801

<400> 23243
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 23244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C0304

<400> 23244
Gly Ala Thr Thr Thr Ala Pro Phe Leu

1 5

<210> 23245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3303

<400> 23245
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1 5

<210> 23246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C0303

<400> 23246
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1 5

<210> 23247
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A0301

<400> 23247
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1 5 10

<210> 23248
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23248
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1 5 10

<210> 23249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6802

<400> 23249
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23250
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B5801

<400> 23250
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B5801

<400> 23251
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23252
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C0304

<400> 23252
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23253

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6802

<400> 23253
Thr Thr Ala Pro Phe Leu Ser Gly Lys Gly
1               5                   10


<210> 23254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C1502

<400> 23254
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23255
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B4002

<400> 23255
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B3503

<400> 23256
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23257
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23257
Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5


<210> 23258
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B3801

<400> 23258
Ile His Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5                   10


<210> 23259
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B5701

<400> 23259
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23260
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C0303

<400> 23260
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23261
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6802

<400> 23261
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 23262
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A0301

<400> 23262
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 23263
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3101

<400> 23263
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B3501

<400> 23264
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 23265
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3303

<400> 23265
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 23266
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C1601

<400> 23266
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6801

<400> 23267
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 23268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B1302

<400> 23268
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3001

<400> 23269

Thr Thr Ala Pro Phe Leu Ser Gly Lys
1 5

<210> 23270
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6801

<400> 23270
Thr Thr Ala Pro Phe Leu Ser Gly Lys Gly
1 5 10

<210> 23271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B1501

<400> 23271
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1 5

<210> 23272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3001

<400> 23272
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1 5

<210> 23273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3303

<400> 23273
Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1 5 10

<210> 23274
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6801

<400> 23274
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 23275
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23275
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5                   10


<210> 23276
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23276
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5                   10


<210> 23277
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A2902

<400> 23277
Thr Thr Ala Pro Phe Leu Ser Gly Lys Gly
1               5                   10

<210> 23278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C1701

<400> 23278
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23279
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B5701

<400> 23279
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6802

<400> 23280
Ala Thr Thr Thr Ala Pro Phe Leu Ser
1               5


<210> 23281
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B2702

<400> 23281
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23282
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3001

<400> 23282
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23283
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B1302

<400> 23283
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23284
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B0702

<400> 23284
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3101

<400> 23285
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 23286
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23286
Thr Thr Ala Pro Phe Leu Ser Gly Lys Gly
1               5                   10


<210> 23287
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A2601

<400> 23287
Thr Thr Ala Pro Phe Leu Ser Gly Lys Gly
1               5                   10


<210> 23288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B4002

<400> 23288
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23289
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 23290
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.S45F; B4001

<400> 23290
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23291
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6801

<400> 23291
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5                   10


<210> 23292
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6802

<400> 23292
Ser Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5                   10


<210> 23293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B3503

<400> 23293
Ser Gly Ala Thr Thr Thr Ala Pro Phe
1               5


<210> 23294
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A0301

<400> 23294
Thr Thr Ala Pro Phe Leu Ser Gly Lys Gly
1               5                   10


<210> 23295
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A1101

<400> 23295
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A2601

<400> 23296
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23297
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B0702

<400> 23297
Ala Pro Phe Leu Ser Gly Lys Gly Asn Pro
1               5                   10


<210> 23298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B3901

<400> 23298
Ser Gly Ala Thr Thr Thr Ala Pro Phe

1 5

<210> 23299
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B0702

<400> 23299
Ala Pro Phe Leu Ser Gly Lys Gly
1 5

<210> 23300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; C1601

<400> 23300
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1 5

<210> 23301
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3303

<400> 23301
Thr Thr Ala Pro Phe Leu Ser Gly Lys Gly
1 5 10

<210> 23302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B2705

<400> 23302
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1 5

<210> 23303
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3301

<400> 23303
Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23304
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; B5101

<400> 23304
Thr Ala Pro Phe Leu Ser Gly Lys
1               5


<210> 23305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A0201

<400> 23305
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A0205

<400> 23306
Gly Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23307

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3101

<400> 23307
Ala Thr Thr Thr Ala Pro Phe Leu Ser Gly Lys
1               5                   10


<210> 23308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3001

<400> 23308
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 23309
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A3101

<400> 23309
Ala Thr Thr Thr Ala Pro Phe Leu
1               5


<210> 23310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45F; A6802

<400> 23310
Thr Thr Thr Ala Pro Phe Leu Ser Gly
1               5


<210> 23311
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A0301

<400> 23311
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23312
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A6801

<400> 23313
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23314
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23314
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 23315
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A0301

<400> 23315
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 23316
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23316
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 23317
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A0301

<400> 23317
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 23318
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A6801

<400> 23318
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 23319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23319
Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1               5                   10


<210> 23320
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; C0304

<400> 23320
Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A3101

<400> 23321
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23322
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B5701

<400> 23322
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; C0303

<400> 23323

Gly Ala Thr Thr Thr Ala Pro Pro Leu
1 5

<210> 23324
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A6801

<400> 23324
Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1 5 10

<210> 23325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B3501

<400> 23325
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1 5

<210> 23326
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A6801

<400> 23326
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1 5 10

<210> 23327
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; C0303

<400> 23327
Ala Thr Thr Thr Ala Pro Pro Leu
1 5

<210> 23328
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; C0304

<400> 23328
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23329
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A0301

<400> 23329
Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1               5                   10


<210> 23330
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B0702

<400> 23330
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23331
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23331
Ala Thr Thr Thr Ala Pro Pro Leu Ser
1               5

<210> 23332
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A2902

<400> 23332
Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1               5                   10


<210> 23333
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23333
Ala Thr Thr Thr Ala Pro Pro Leu Ser Gly
1               5                   10


<210> 23334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A2601

<400> 23334
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23335
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A6801

<400> 23335
Thr Thr Thr Ala Pro Pro Leu Ser Gly
1               5


<210> 23336
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B3501

<400> 23336
Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23337
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B5101

<400> 23337
Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23338
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A2601

<400> 23338
Thr Thr Ala Pro Pro Leu Ser Gly Lys Gly
1               5                   10


<210> 23339
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A3101

<400> 23339
Thr Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5                   10


<210> 23340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B1501

<400> 23340
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B1501

<400> 23341
Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23342
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23342
Ser Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5                   10


<210> 23343
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A6801

<400> 23343
Ser Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5                   10


<210> 23344
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.S45P; A6801

<400> 23344
Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B0702

<400> 23345
Thr Thr Ala Pro Pro Leu Ser Gly Lys
1               5


<210> 23346
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; C1601

<400> 23346
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A1101

<400> 23347
Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; A3101

<400> 23348
Thr Thr Thr Ala Pro Pro Leu Ser Gly
1               5


<210> 23349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B0702

<400> 23349
Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23350
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B1501

<400> 23350
Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45P; B4001

<400> 23351
Gly Ala Thr Thr Thr Ala Pro Pro Leu
1               5


<210> 23352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23352
Thr Thr Ala Pro Tyr Leu Ser Gly Lys

1 5

<210> 23353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A0301

<400> 23353
Thr Thr Ala Pro Tyr Leu Ser Gly Lys
1 5

<210> 23354
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23354
Ala Thr Thr Thr Ala Pro Tyr Leu Ser Gly Lys
1 5 10

<210> 23355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; C0304

<400> 23355
Gly Ala Thr Thr Thr Ala Pro Tyr Leu
1 5

<210> 23356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; B3501

<400> 23356
Ser Gly Ala Thr Thr Thr Ala Pro Tyr
1 5

<210> 23357
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23357
Thr Thr Thr Ala Pro Tyr Leu Ser Gly Lys
1               5                   10


<210> 23358
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; C0304

<400> 23358
Ala Thr Thr Thr Ala Pro Tyr Leu
1               5


<210> 23359
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A0301

<400> 23359
Thr Thr Thr Ala Pro Tyr Leu Ser Gly Lys
1               5                   10


<210> 23360
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A0301

<400> 23360
Ala Thr Thr Thr Ala Pro Tyr Leu Ser Gly Lys
1               5                   10


<210> 23361

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23361
Thr Thr Ala Pro Tyr Leu Ser Gly Lys Gly
1               5                   10


<210> 23362
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; B0702

<400> 23362
Ala Thr Thr Thr Ala Pro Tyr Leu
1               5


<210> 23363
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A0301

<400> 23363
Thr Thr Ala Pro Tyr Leu Ser Gly Lys Gly
1               5                   10


<210> 23364
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23364
Ala Thr Thr Thr Ala Pro Tyr Leu Ser
1               5


<210> 23365
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23365
Ala Thr Thr Thr Ala Pro Tyr Leu Ser Gly
1               5                   10


<210> 23366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A0201

<400> 23366
Gly Ala Thr Thr Thr Ala Pro Tyr Leu
1               5


<210> 23367
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23367
Ser Gly Ala Thr Thr Thr Ala Pro Tyr Leu
1               5                   10


<210> 23368
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; B0702

<400> 23368
Ala Pro Tyr Leu Ser Gly Lys Gly Asn Pro
1               5                   10


<210> 23369
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23369
Ala Thr Thr Thr Ala Pro Tyr Leu
1               5


<210> 23370
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; B0702

<400> 23370
Ala Pro Tyr Leu Ser Gly Lys Gly
1               5


<210> 23371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; B3501

<400> 23371
Gly Ala Thr Thr Thr Ala Pro Tyr Leu
1               5


<210> 23372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; B3501

<400> 23372
Thr Thr Ala Pro Tyr Leu Ser Gly Lys
1               5


<210> 23373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23373
Gly Ala Thr Thr Thr Ala Pro Tyr Leu
1               5


<210> 23374
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23374
Ser Gly Ala Thr Thr Thr Ala Pro Tyr Leu Ser
1               5                   10


<210> 23375
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; B3501

<400> 23375
His Ser Gly Ala Thr Thr Thr Ala Pro Tyr
1               5                   10


<210> 23376
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23376
Thr Ala Pro Tyr Leu Ser Gly Lys
1               5


<210> 23377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.S45Y; A1101

<400> 23377

Ser Gly Ala Thr Thr Thr Ala Pro Tyr
1               5


<210> 23378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0301

<400> 23378
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A1101

<400> 23379
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23380
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A1101

<400> 23380
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23381
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0301

<400> 23381
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10

<210> 23382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C0304

<400> 23382
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C0303

<400> 23383
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3503

<400> 23384
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3901

<400> 23385
Ile His Ser Gly Ala Thr Ala Thr Ala
1               5

<210> 23386
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A6801

<400> 23386
Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23387
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B5801

<400> 23387
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23388
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A6801

<400> 23388
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23389
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B5801

<400> 23389
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23390
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C0303

<400> 23390
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A6801

<400> 23391
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23392
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3901

<400> 23392
Ile His Ser Gly Ala Thr Ala Thr Ala Pro
1               5                   10


<210> 23393
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C0304

<400> 23393
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23394
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3901

<400> 23394
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23395
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B4002

<400> 23395
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23396
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A1101

<400> 23396
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 23397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B4002

<400> 23397
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23398
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.T41A; B1302

<400> 23398
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23399
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C1601

<400> 23399
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23400
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B2702

<400> 23400
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3801

<400> 23401
Ile His Ser Gly Ala Thr Ala Thr Ala
1               5


<210> 23402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A3001

<400> 23402
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23403
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A1101

<400> 23403
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 23404
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3901

<400> 23404
Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 23405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0205

<400> 23405
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5


<210> 23406
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B5001

<400> 23406
Gly Ile His Ser Gly Ala Thr Ala Thr Ala

1 5 10

<210> 23407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A1101

<400> 23407
Ala Thr Ala Thr Ala Pro Ser Leu Ser
1 5

<210> 23408
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C1701

<400> 23408
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 23409
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3501

<400> 23409
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 23410
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0301

<400> 23410
Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1 5 10

<210> 23411
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A3001

<400> 23411
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23412
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B1501

<400> 23412
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23413
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B0702

<400> 23413
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23414
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A1101

<400> 23414
Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23415

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0205

<400> 23415
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 23416
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B2702

<400> 23416
Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B0702

<400> 23417
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23418
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A3001

<400> 23418
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23419
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3502

<400> 23419
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23420
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A3303

<400> 23420
Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A3101

<400> 23421
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C1601

<400> 23422
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B1501

<400> 23423
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23424
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B4002

<400> 23424
Ser Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5                   10


<210> 23425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B1501

<400> 23425
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 23426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B4001

<400> 23426
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3901

<400> 23427
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23428
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B1302

<400> 23428
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23429
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C1402

<400> 23429
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23430
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A3101

<400> 23430
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10


<210> 23431
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0301

<400> 23431

Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5                   10


<210> 23432
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B1501

<400> 23432
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 23433
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B4001

<400> 23433
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0205

<400> 23434
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23435
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A6802

<400> 23435
Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5                   10

<210> 23436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3501

<400> 23436
Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5


<210> 23437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0301

<400> 23437
Ala Thr Ala Thr Ala Pro Ser Leu Ser
1               5


<210> 23438
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C0102

<400> 23438
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B5001

<400> 23439
Ser Gly Ile His Ser Gly Ala Thr Ala
1               5

<210> 23440
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0205

<400> 23440
Ser Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 23441
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B3701

<400> 23441
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0201

<400> 23442
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23443
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B5701

<400> 23443
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23444
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B0702

<400> 23444
Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5


<210> 23445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B2705

<400> 23445
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23446
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0301

<400> 23446
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 23447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A3001

<400> 23447
Thr Ala Thr Ala Pro Ser Leu Ser Gly
1               5


<210> 23448
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C1502

<400> 23448
Ala Thr Ala Thr Ala Pro Ser Leu
1               5


<210> 23449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B1302

<400> 23449
Gly Ile His Ser Gly Ala Thr Ala Thr
1               5


<210> 23450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A6802

<400> 23450
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A0201

<400> 23451
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23452
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; CTNNB1_p.T41A; A6801

<400> 23452
Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 23453
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A2601

<400> 23453
Ala Thr Ala Pro Ser Leu Ser Gly Lys Gly
1               5                   10


<210> 23454
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B1302

<400> 23454
Gly Ile His Ser Gly Ala Thr Ala Thr Ala
1               5                   10


<210> 23455
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; B5701

<400> 23455
Ala Thr Ala Pro Ser Leu Ser Gly Lys
1               5


<210> 23456
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C1701

<400> 23456
Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 23457
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; C1203

<400> 23457
Gly Ala Thr Ala Thr Ala Pro Ser Leu
1 5

<210> 23458
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CTNNB1_p.T41A; A6802

<400> 23458
Ala Thr Ala Thr Ala Pro Ser Leu Ser Gly Lys
1 5 10

<210> 23459
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.T748I; B1501

<400> 23459
Ser Ile Ser Pro Met Pro Thr Val Ser Ser Tyr
1 5 10

<210> 23460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.T748I; A0201

<400> 23460
Ile Leu Thr Pro Lys Leu Leu Ser Ile

1 5

<210> 23461
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.T748I; A0201

<400> 23461
Lys Leu Leu Ser Ile Ser Pro Met Pro Thr Val
1 5 10

<210> 23462
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.T748I; B1501

<400> 23462
Ile Ser Pro Met Pro Thr Val Ser Ser Tyr
1 5 10

<210> 23463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.T748I; B5101

<400> 23463
Leu Ser Ile Ser Pro Met Pro Thr Val
1 5

<210> 23464
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.T748I; A0201

<400> 23464
Lys Leu Leu Ser Ile Ser Pro Met Pro Thr
1 5 10

<210> 23465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.V545I; B1302

<400> 23465
Ser Gln Ser Glu Ser Ala Gly Ser Ile
1               5


<210> 23466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.V545I; B1501

<400> 23466
Gly Ser Ile Ser Glu Gly Glu Glu Met
1               5


<210> 23467
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; CUX1_p.V545I; B0702

<400> 23467
Ser Pro Ser Gln Ser Glu Ser Ala Gly Ser Ile
1               5                   10


<210> 23468
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; B4002

<400> 23468
Val Glu Lys Ala Ala Ala Gln His Ser Leu
1               5                   10


<210> 23469

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; A3001

<400> 23469
Val Glu Lys Ala Ala Ala Gln His Ser Leu
1               5                   10


<210> 23470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; A3101

<400> 23470
Ala Gln His Ser Leu Gly Leu Pro Arg
1               5


<210> 23471
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; A1101

<400> 23471
Ala Ala Gln His Ser Leu Gly Leu Pro Arg
1               5                   10


<210> 23472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; B2702

<400> 23472
Ala Ala Gln His Ser Leu Gly Leu Pro Arg
1               5                   10


<210> 23473
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; C1602

<400> 23473
Ala Ala Ala Gln His Ser Leu Gly Leu
1               5


<210> 23474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; B3901

<400> 23474
Glu Lys Ala Ala Ala Gln His Ser Leu
1               5


<210> 23475
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; B4001

<400> 23475
Val Glu Lys Ala Ala Ala Gln His Ser Leu
1               5                   10


<210> 23476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; C0304

<400> 23476
Ala Ala Ala Gln His Ser Leu Gly Leu
1               5


<210> 23477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; A1101

<400> 23477
Ala Gln His Ser Leu Gly Leu Pro Arg
1               5


<210> 23478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; C1502

<400> 23478
Ala Ala Ala Gln His Ser Leu Gly Leu
1               5


<210> 23479
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; A3101

<400> 23479
Ala Ala Gln His Ser Leu Gly Leu Pro Arg
1               5                   10


<210> 23480
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DAXX_p.R299Q; A0301

<400> 23480
Ala Gln His Ser Leu Gly Leu Pro Arg
1               5


<210> 23481
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDB2_p.Q265K; A1101

<400> 23481
Ala Thr Ala Ser Val Asp Lys Thr Val Lys
1               5                   10


<210> 23482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDB2_p.Q265K; C0501

<400> 23482
Ser Val Asp Lys Thr Val Lys Ile
1               5


<210> 23483
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDB2_p.Q265K; A0301

<400> 23483
Ala Thr Ala Ser Val Asp Lys Thr Val Lys
1               5                   10


<210> 23484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDB2_p.Q265K; A0301

<400> 23484
Phe Leu Ala Thr Ala Ser Val Asp Lys
1               5


<210> 23485
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.I488M; B1501

<400> 23485

Tyr Gln Glu Pro Ser Arg Leu Met
1 5

<210> 23486
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; C0501

<400> 23486
Phe Thr Asp Gly Val Ser Gly Leu
1 5

<210> 23487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A0201

<400> 23487
Gly Leu Gly Gln Phe Thr Asp Gly Val
1 5

<210> 23488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A0101

<400> 23488
Tyr Ser Met Thr Glu Gly Leu Gly Gln Phe
1 5 10

<210> 23489
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; C0401

<400> 23489
Phe Thr Asp Gly Val Ser Gly Leu
1 5

<210> 23490
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; C0501

<400> 23490
Phe Thr Asp Gly Val Ser Gly Leu Asp Asp Phe
1               5                   10


<210> 23491
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A0101

<400> 23491
Phe Thr Asp Gly Val Ser Gly Leu Asp Asp Phe
1               5                   10


<210> 23492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A0201

<400> 23492
Ser Met Thr Glu Gly Leu Gly Gln Phe
1               5


<210> 23493
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A1101

<400> 23493
Tyr Ser Met Thr Glu Gly Leu Gly Gln Phe
1               5                   10

<210> 23494
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A0201

<400> 23494
Ser Met Thr Glu Gly Leu Gly Gln Phe Thr
1               5                   10


<210> 23495
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A0201

<400> 23495
Gly Gln Phe Thr Asp Gly Val Ser Gly Leu
1               5                   10


<210> 23496
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; A2402

<400> 23496
Ser Met Thr Glu Gly Leu Gly Gln Phe
1               5


<210> 23497
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; C0401

<400> 23497
Met Thr Glu Gly Leu Gly Gln Phe
1               5


<210> 23498
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; C0304

<400> 23498
Phe Thr Asp Gly Val Ser Gly Leu
1               5


<210> 23499
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.L232F; C0501

<400> 23499
Met Thr Glu Gly Leu Gly Gln Phe
1               5


<210> 23500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.R668H; A0301

<400> 23500
Gly Asp Leu Asn Gln Phe Leu Ser His
1               5


<210> 23501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.R668H; A1101

<400> 23501
Gly Asp Leu Asn Gln Phe Leu Ser His
1               5


<210> 23502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DDR2_p.V250L; A0201

<400> 23502
His Leu Trp Pro Gly Tyr Asp Tyr Val
1               5


<210> 23503
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.K228N; A1101

<400> 23503
Lys Ile Gln Lys Leu Glu Asn Ile Leu Lys
1               5                   10


<210> 23504
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.K228N; A0301

<400> 23504
Lys Ile Gln Lys Leu Glu Asn Ile Leu Lys
1               5                   10


<210> 23505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.P762S; C0602

<400> 23505
Ser Arg Pro Asp Gln Pro Cys Tyr Leu
1               5


<210> 23506
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; DICER1_p.P762S; B1501

<400> 23506
Tyr Ser Arg Pro Asp Gln Pro Cys Tyr
1               5


<210> 23507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.P762S; C0202

<400> 23507
Tyr Ser Arg Pro Asp Gln Pro Cys Tyr
1               5


<210> 23508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.P762S; A0101

<400> 23508
Tyr Ser Arg Pro Asp Gln Pro Cys Tyr
1               5


<210> 23509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.P762S; C1601

<400> 23509
Tyr Ser Arg Pro Asp Gln Pro Cys Tyr
1               5


<210> 23510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.P762S; A2601

<400> 23510
Tyr Ser Arg Pro Asp Gln Pro Cys Tyr
1               5


<210> 23511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DICER1_p.P762S; B3501

<400> 23511
Tyr Ser Arg Pro Asp Gln Pro Cys Tyr
1               5


<210> 23512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.D488Y; A0201

<400> 23512
Gly Cys Thr Asp Ile Asp Tyr Ala Leu
1               5


<210> 23513
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B1801

<400> 23513
Ile Glu Glu Val Ile Pro Ala Phe
1               5


<210> 23514
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; A2601

<400> 23514
Glu Val Ile Pro Ala Phe Thr Cys Glu Glu Tyr

1 5 10

<210> 23515
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B1501

<400> 23515
Val Ile Pro Ala Phe Thr Cys Glu Glu Tyr
1 5 10

<210> 23516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B1501

<400> 23516
Ala Ile Glu Glu Val Ile Pro Ala Phe
1 5

<210> 23517
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B5701

<400> 23517
Lys Ala Ile Glu Glu Val Ile Pro Ala Phe
1 5 10

<210> 23518
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B3501

<400> 23518
Lys Ala Ile Glu Glu Val Ile Pro Ala Phe
1 5 10

<210> 23519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; A2601

<400> 23519
Ala Ile Glu Glu Val Ile Pro Ala Phe
1               5


<210> 23520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B3501

<400> 23520
Ala Ile Glu Glu Val Ile Pro Ala Phe
1               5


<210> 23521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B4001

<400> 23521
Lys Glu Lys Ala Ile Glu Glu Val Ile
1               5


<210> 23522
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.G188V; B1501

<400> 23522
Lys Ala Ile Glu Glu Val Ile Pro Ala Phe
1               5                   10


<210> 23523

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; B3901

<400> 23523
Asn Arg Ile Asp Met Val Pro Glu Leu
1               5


<210> 23524
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; B1401

<400> 23524
Asn Arg Ile Asp Met Val Pro Glu Leu
1               5


<210> 23525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; C0602

<400> 23525
Asn Arg Ile Asp Met Val Pro Glu Leu
1               5


<210> 23526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; B2705

<400> 23526
Asn Arg Ile Asp Met Val Pro Glu Leu
1               5


<210> 23527
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; B3801

<400> 23527
Asn Arg Ile Asp Met Val Pro Glu Leu
1               5


<210> 23528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; A6801

<400> 23528
Thr Thr Val Tyr Leu Cys Glu Asn Arg
1               5


<210> 23529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; C0702

<400> 23529
Asn Arg Ile Asp Met Val Pro Glu Leu
1               5


<210> 23530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; A3303

<400> 23530
Thr Thr Val Tyr Leu Cys Glu Asn Arg
1               5


<210> 23531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DIS3_p.K535N; B3503

<400> 23531
Asn Arg Ile Asp Met Val Pro Glu Leu
1               5


<210> 23532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT1_p.R1401W; B5701

<400> 23532
Gln Ser Trp Phe Gln Arg Gln Leu Trp
1               5


<210> 23533
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.I780T; A0201

<400> 23533
Val Met Thr Asp Ala Lys Glu Val Ser Ala Ala
1               5                   10


<210> 23534
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.I780T; A0201

<400> 23534
Val Met Thr Asp Ala Lys Glu Val Ser Ala
1               5                   10


<210> 23535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.I780T; A0201

<400> 23535
Phe Leu Glu Ser Asn Pro Val Met Thr
1               5


<210> 23536
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.I780T; A0201

<400> 23536
Val Met Thr Asp Ala Lys Glu Val
1               5


<210> 23537
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.I780T; B0801

<400> 23537
Val Met Thr Asp Ala Lys Glu Val Ser Ala
1               5                   10


<210> 23538
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.P904L; A0201

<400> 23538
Ala Leu Leu Lys Glu Tyr Phe Ala Cys Val
1               5                   10


<210> 23539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.P904L; A2402

<400> 23539

Leu Phe Ala Leu Leu Lys Glu Tyr Phe
1 5

<210> 23540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.P904L; A0201

<400> 23540
Leu Leu Lys Glu Tyr Phe Ala Cys Val
1 5

<210> 23541
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.P904L; C1601

<400> 23541
Phe Ala Leu Leu Lys Glu Tyr Phe
1 5

<210> 23542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.P904L; A0201

<400> 23542
Ala Leu Leu Lys Glu Tyr Phe Ala Cys
1 5

<210> 23543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R736C; A0301

<400> 23543
Cys Leu Leu His Asp Ala Arg Pro Lys
1 5

<210> 23544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R742P; A0301

<400> 23544
Arg Leu Leu His Asp Ala Pro Pro Lys
1               5


<210> 23545
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R742P; A1101

<400> 23545
Arg Leu Leu His Asp Ala Pro Pro Lys
1               5


<210> 23546
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R742P; B3501

<400> 23546
Ala Pro Pro Lys Glu Gly Asp Asp Arg Pro Phe
1               5                   10


<210> 23547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; B4002

<400> 23547
Thr Asp Val Ser Asn Met Ser Cys Leu
1               5

<210> 23548
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; A6801

<400> 23548
Asp Val Ser Asn Met Ser Cys Leu Ala Arg
1               5                   10


<210> 23549
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; A0101

<400> 23549
Tyr Thr Asp Val Ser Asn Met Ser Cys
1               5


<210> 23550
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; C0802

<400> 23550
Tyr Thr Asp Val Ser Asn Met Ser Cys
1               5


<210> 23551
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; C0802

<400> 23551
Tyr Thr Asp Val Ser Asn Met Ser Cys Leu
1               5                   10


<210> 23552
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; B3901

<400> 23552
Thr Asp Val Ser Asn Met Ser Cys Leu
1               5


<210> 23553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; A3101

<400> 23553
Val Ser Asn Met Ser Cys Leu Ala Arg
1               5


<210> 23554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; B5801

<400> 23554
Tyr Thr Asp Val Ser Asn Met Ser Cys
1               5


<210> 23555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; A3303

<400> 23555
Asp Val Ser Asn Met Ser Cys Leu Ala Arg
1               5                   10


<210> 23556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882C; A1101

<400> 23556
Val Ser Asn Met Ser Cys Leu Ala Arg
1               5


<210> 23557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A6801

<400> 23557
Asp Val Ser Asn Met Ser His Leu Ala Arg
1               5                   10


<210> 23558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A0101

<400> 23558
Tyr Thr Asp Val Ser Asn Met Ser His
1               5


<210> 23559
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; C0802

<400> 23559
Tyr Thr Asp Val Ser Asn Met Ser His Leu
1               5                   10


<210> 23560
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; DNMT3A_p.R882H; A3303

<400> 23560
Asp Val Ser Asn Met Ser His Leu Ala Arg
1               5                   10


<210> 23561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; B4002

<400> 23561
Thr Asp Val Ser Asn Met Ser His Leu
1               5


<210> 23562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3101

<400> 23562
Val Ser Asn Met Ser His Leu Ala Arg
1               5


<210> 23563
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A0101

<400> 23563
Tyr Thr Asp Val Ser Asn Met Ser His Leu Ala
1               5                   10


<210> 23564
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3303

<400> 23564
Ser Asn Met Ser His Leu Ala Arg
1               5


<210> 23565
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3303

<400> 23565
Met Ser His Leu Ala Arg Gln Arg
1               5


<210> 23566
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A2601

<400> 23566
Asp Val Ser Asn Met Ser His Leu
1               5


<210> 23567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A6801

<400> 23567
Asp Val Ser Asn Met Ser His Leu Ala
1               5


<210> 23568
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3303

<400> 23568
His Tyr Thr Asp Val Ser Asn Met Ser His

1 5 10

<210> 23569
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; C0501

<400> 23569
Tyr Thr Asp Val Ser Asn Met Ser His Leu
1 5 10

<210> 23570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; B3801

<400> 23570
Thr Asp Val Ser Asn Met Ser His Leu
1 5

<210> 23571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3303

<400> 23571
Val Ser Asn Met Ser His Leu Ala Arg
1 5

<210> 23572
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A2402

<400> 23572
His Tyr Thr Asp Val Ser Asn Met Ser His Leu
1 5 10

<210> 23573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3303

<400> 23573
Asn Met Ser His Leu Ala Arg Gln Arg
1               5


<210> 23574
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3101

<400> 23574
Ser Asn Met Ser His Leu Ala Arg
1               5


<210> 23575
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882H; A3303

<400> 23575
Ser Asn Met Ser His Leu Ala Arg Gln Arg
1               5                   10


<210> 23576
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A6801

<400> 23576
Asp Val Ser Asn Met Ser Pro Leu Ala Arg
1               5                   10


<210> 23577

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A3101

<400> 23577
Val Ser Asn Met Ser Pro Leu Ala Arg
1               5


<210> 23578
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A3101

<400> 23578
Val Ser Asn Met Ser Pro Leu Ala Arg Gln Arg
1               5                   10


<210> 23579
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A6801

<400> 23579
Thr Asp Val Ser Asn Met Ser Pro Leu Ala Arg
1               5                   10


<210> 23580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; B0702

<400> 23580
Ser Pro Leu Ala Arg Gln Arg Leu Leu
1               5


<210> 23581
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A6801

<400> 23581
Asn Met Ser Pro Leu Ala Arg Gln Arg
1               5


<210> 23582
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; B0702

<400> 23582
Ser Pro Leu Ala Arg Gln Arg Leu
1               5


<210> 23583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A1101

<400> 23583
Val Ser Asn Met Ser Pro Leu Ala Arg
1               5


<210> 23584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A6801

<400> 23584
Val Ser Asn Met Ser Pro Leu Ala Arg
1               5


<210> 23585
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A1101

<400> 23585
Ser Asn Met Ser Pro Leu Ala Arg
1               5


<210> 23586
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A3101

<400> 23586
Ser Asn Met Ser Pro Leu Ala Arg
1               5


<210> 23587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; C0802

<400> 23587
Tyr Thr Asp Val Ser Asn Met Ser Pro Leu
1               5                   10


<210> 23588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A0301

<400> 23588
Val Ser Asn Met Ser Pro Leu Ala Arg
1               5


<210> 23589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; C0102

<400> 23589
Met Ser Pro Leu Ala Arg Gln Arg Leu
1               5


<210> 23590
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A6801

<400> 23590
Ser Asn Met Ser Pro Leu Ala Arg
1               5


<210> 23591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A6801

<400> 23591
Asp Val Ser Asn Met Ser Pro Leu Ala
1               5


<210> 23592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A3101

<400> 23592
Asn Met Ser Pro Leu Ala Arg Gln Arg
1               5


<210> 23593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.R882P; A2601

<400> 23593

Asp Val Ser Asn Met Ser Pro Leu Ala Arg
1               5                   10


<210> 23594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; C0102

<400> 23594
Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5


<210> 23595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B3502

<400> 23595
Ala Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; C0801

<400> 23596
Ala Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23597
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A6802

<400> 23597
Glu Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5                   10

<210> 23598
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B4001

<400> 23598
Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; C0802

<400> 23599
Ala Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A0206

<400> 23600
Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5


<210> 23601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A0201

<400> 23601
Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5

<210> 23602
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A6801

<400> 23602
Gly Ala Ala Glu Thr Leu Pro Glu Ala Leu Arg
1               5                   10


<210> 23603
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B4002

<400> 23603
Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B1502

<400> 23604
Ala Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23605
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B5101

<400> 23605
Leu Pro Glu Ala Leu Arg Ala Val
1               5


<210> 23606
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B3503

<400> 23606
Ala Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B5001

<400> 23607
Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5


<210> 23608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B3901

<400> 23608
Ala Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A0205

<400> 23609
Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5


<210> 23610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; C0501

<400> 23610
Ala Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23611
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B4002

<400> 23611
Ala Glu Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5                   10


<210> 23612
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B2702

<400> 23612
Gly Ala Ala Glu Thr Leu Pro Glu Ala Leu Arg
1               5                   10


<210> 23613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A6801

<400> 23613
Ala Ala Glu Thr Leu Pro Glu Ala Leu Arg
1               5                   10


<210> 23614
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; DNMT3A_p.S129L; A6802

<400> 23614
Glu Thr Leu Pro Glu Ala Leu Arg Ala
1               5


<210> 23615
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B3701

<400> 23615
Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23616
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A3303

<400> 23616
Glu Thr Leu Pro Glu Ala Leu Arg
1               5


<210> 23617
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A3001

<400> 23617
Ala Glu Thr Leu Pro Glu Ala Leu
1               5


<210> 23618
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A0205

<400> 23618
Ala Glu Thr Leu Pro Glu Ala Leu Arg Ala
1               5                   10


<210> 23619
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A2601

<400> 23619
Glu Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5                   10


<210> 23620
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B5001

<400> 23620
Ala Glu Thr Leu Pro Glu Ala Leu Arg Ala
1               5                   10


<210> 23621
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B5501

<400> 23621
Leu Pro Glu Ala Leu Arg Ala Val
1               5


<210> 23622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B3501

<400> 23622
Ala Ala Glu Thr Leu Pro Glu Ala Leu

1 5

<210> 23623
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A6802

<400> 23623
Gly Ala Ala Glu Thr Leu Pro Glu Ala Leu Arg
1 5 10

<210> 23624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B1302

<400> 23624
Thr Leu Pro Glu Ala Leu Arg Ala Val
1 5

<210> 23625
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B4002

<400> 23625
Ala Glu Thr Leu Pro Glu Ala Leu Arg Ala
1 5 10

<210> 23626
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B4002

<400> 23626
Gly Ala Ala Glu Thr Leu Pro Glu Ala Leu
1 5 10

<210> 23627
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; B4403

<400> 23627
Ala Glu Thr Leu Pro Glu Ala Leu Arg Ala
1               5                   10


<210> 23628
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.S129L; A0205

<400> 23628
Glu Thr Leu Pro Glu Ala Leu Arg Ala Val
1               5                   10


<210> 23629
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; B1501

<400> 23629
Met Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5                   10


<210> 23630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; B3501

<400> 23630
Met Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5                   10


<210> 23631

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; A0101

<400> 23631
Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5


<210> 23632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; B3501

<400> 23632
Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5


<210> 23633
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; B1501

<400> 23633
Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5


<210> 23634
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; A2601

<400> 23634
Met Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5                   10


<210> 23635
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; A0201

<400> 23635
Met Leu Val Glu Pro Glu Ala Ala Ala
1               5


<210> 23636
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; A0101

<400> 23636
Met Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5                   10


<210> 23637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; A2601

<400> 23637
Leu Val Glu Pro Glu Ala Ala Ala Tyr
1               5


<210> 23638
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; DNMT3A_p.W440L; B4001

<400> 23638
Lys Glu Val Tyr Thr Asp Met Leu
1               5


<210> 23639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A289T; A0301

<400> 23639
Tyr Ser Phe Gly Thr Thr Cys Val Lys
1               5


<210> 23640
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A289T; A0301

<400> 23640
Tyr Ser Phe Gly Thr Thr Cys Val Lys Lys
1               5                   10


<210> 23641
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A289V; B5101

<400> 23641
Tyr Ser Phe Gly Val Thr Cys Val
1               5


<210> 23642
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A289V; A1101

<400> 23642
Tyr Ser Phe Gly Val Thr Cys Val Lys Lys
1               5                   10


<210> 23643
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A289V; A6801

<400> 23643
Tyr Ser Phe Gly Val Thr Cys Val Lys Lys
1               5                   10


<210> 23644
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A289V; B1302

<400> 23644
Tyr Ser Phe Gly Val Thr Cys Val
1               5


<210> 23645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A289V; C1203

<400> 23645
Tyr Ser Phe Gly Val Thr Cys Val
1               5


<210> 23646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A750P; A0301

<400> 23646
Glu Leu Arg Glu Pro Thr Ser Pro Lys
1               5


<210> 23647
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A750P; A0301

<400> 23647

Lys Glu Leu Arg Glu Pro Thr Ser Pro Lys
1 5 10

<210> 23648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A755G; B0702

<400> 23648
Ser Pro Lys Gly Asn Lys Glu Ile Leu
1 5

<210> 23649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A755G; C0102

<400> 23649
Thr Ser Pro Lys Gly Asn Lys Glu Ile
1 5

<210> 23650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A0201

<400> 23650
Tyr Val Met Ala Ser Val Ala Ser Val
1 5

<210> 23651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A6802

<400> 23651
Ser Val Ala Ser Val Asp Asn Pro His Val
1 5 10

<210> 23652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A6802

<400> 23652
Tyr Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23653
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A0201

<400> 23653
Ser Val Ala Ser Val Asp Asn Pro His Val
1               5                   10


<210> 23654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; B1302

<400> 23654
Tyr Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A2601

<400> 23655
Tyr Val Met Ala Ser Val Ala Ser Val
1               5

<210> 23656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; B0801

<400> 23656
Tyr Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23657
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; B1801

<400> 23657
Asp Glu Ala Tyr Val Met Ala Ser Val Ala
1               5                   10


<210> 23658
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A6802

<400> 23658
Ser Val Ala Ser Val Asp Asn Pro His Val Cys
1               5                   10


<210> 23659
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A0201

<400> 23659
Val Ala Ser Val Asp Asn Pro His Val
1               5


<210> 23660
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A1101

<400> 23660
Ser Val Ala Ser Val Asp Asn Pro His
1               5


<210> 23661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; B4002

<400> 23661
Tyr Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A3001

<400> 23662
Tyr Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23663
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; A0201

<400> 23663
Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; B3503

<400> 23664
Tyr Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23665
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.A767_V769dup; B5101

<400> 23665
Tyr Val Met Ala Ser Val Ala Ser Val
1               5


<210> 23666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.C797S; B3501

<400> 23666
Met Pro Phe Gly Ser Leu Leu Asp Tyr
1               5


<210> 23667
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.C797S; A6802

<400> 23667
Met Pro Phe Gly Ser Leu Leu Asp Tyr Val
1               5                   10


<210> 23668
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; EGFR_p.C797S; B5101

<400> 23668
Met Pro Phe Gly Ser Leu Leu Asp Tyr Val
1               5                   10


<210> 23669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.C797S; B3503

<400> 23669
Met Pro Phe Gly Ser Leu Leu Asp Tyr
1               5


<210> 23670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.C797S; B2702

<400> 23670
Met Pro Phe Gly Ser Leu Leu Asp Tyr
1               5


<210> 23671
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.C797S; A2902

<400> 23671
Leu Met Pro Phe Gly Ser Leu Leu Asp Tyr
1               5                   10


<210> 23672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.C797S; A0301

<400> 23672
Ser Leu Leu Asp Tyr Val Arg Glu His
1               5


<210> 23673
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.C797S; A2902

<400> 23673
Gln Leu Met Pro Phe Gly Ser Leu Leu Asp Tyr
1               5                   10


<210> 23674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E709_T710delinsD; A2301

<400> 23674
Asp Glu Phe Lys Lys Ile Lys Val Leu
1               5


<210> 23675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E709_T710delinsD; B1801

<400> 23675
Asp Glu Phe Lys Lys Ile Lys Val Leu
1               5


<210> 23676
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E709_T710delinsD; B1801

<400> 23676
Asp Glu Phe Lys Lys Ile Lys Val

1 5

<210> 23677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E709_T710delinsD; B4403

<400> 23677
Asp Glu Phe Lys Lys Ile Lys Val Leu
1 5

<210> 23678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E709A; A0301

<400> 23678
Arg Ile Leu Lys Ala Thr Glu Phe Lys
1 5

<210> 23679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E709V; B5101

<400> 23679
Gln Ala Leu Leu Arg Ile Leu Lys Val
1 5

<210> 23680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E709V; C0602

<400> 23680
Leu Arg Ile Leu Lys Val Thr Glu Phe
1 5

<210> 23681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; B5502

<400> 23681
Ile Pro Val Ala Ile Lys Thr Ser Pro
1               5


<210> 23682
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; B5401

<400> 23682
Ile Pro Val Ala Ile Lys Thr Ser Pro
1               5


<210> 23683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; B5501

<400> 23683
Ile Pro Val Ala Ile Lys Thr Ser Pro
1               5


<210> 23684
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; B5401

<400> 23684
Ile Pro Val Ala Ile Lys Thr Ser Pro Lys Ala
1               5                   10


<210> 23685

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; B5502

<400> 23685
Ile Pro Val Ala Ile Lys Thr Ser Pro Lys Ala
1               5                   10


<210> 23686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; A0301

<400> 23686
Pro Val Ala Ile Lys Thr Ser Pro Lys
1               5


<210> 23687
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; B3501

<400> 23687
Ile Pro Val Ala Ile Lys Thr Ser Pro
1               5


<210> 23688
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; A1101

<400> 23688
Val Ala Ile Lys Thr Ser Pro Lys
1               5


<210> 23689
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; A0301

<400> 23689
Lys Ile Pro Val Ala Ile Lys Thr Ser Pro Lys
1               5                   10


<210> 23690
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; A1101

<400> 23690
Pro Val Ala Ile Lys Thr Ser Pro Lys
1               5


<210> 23691
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_A750del; A0302

<400> 23691
Pro Val Ala Ile Lys Thr Ser Pro Lys
1               5


<210> 23692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_T751delinsA; A0301

<400> 23692
Pro Val Ala Ile Lys Ala Ser Pro Lys
1               5


<210> 23693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.E746_T751delinsA; C0102

<400> 23693
Ala Ser Pro Lys Ala Asn Lys Glu Ile
1               5


<210> 23694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B1501

<400> 23694
Ala Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23695
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; A1101

<400> 23695
Ala Ser Gly Ala Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 23696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B1503

<400> 23696
Ile Lys Val Leu Ala Ser Gly Ala Phe
1               5


<210> 23697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; A3002

<400> 23697
Ala Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23698
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B1501

<400> 23698
Val Leu Ala Ser Gly Ala Phe Gly Thr Val Tyr
1               5                   10


<210> 23699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B1503

<400> 23699
Ala Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B5801

<400> 23700
Ala Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23701
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; A0301

<400> 23701

Ala Ser Gly Ala Phe Gly Thr Val Tyr Lys
1 5 10

<210> 23702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B1501

<400> 23702
Leu Ala Ser Gly Ala Phe Gly Thr Val Tyr
1 5 10

<210> 23703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B3901

<400> 23703
Ala Ser Gly Ala Phe Gly Thr Val Tyr
1 5

<210> 23704
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; C0202

<400> 23704
Leu Ala Ser Gly Ala Phe Gly Thr Val Tyr
1 5 10

<210> 23705
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B3501

<400> 23705
Leu Ala Ser Gly Ala Phe Gly Thr Val Tyr
1 5 10

<210> 23706
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; A0201

<400> 23706
Val Leu Ala Ser Gly Ala Phe Gly Thr Val
1               5                   10


<210> 23707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; B5101

<400> 23707
Leu Ala Ser Gly Ala Phe Gly Thr Val
1               5


<210> 23708
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719A; A3002

<400> 23708
Leu Ala Ser Gly Ala Phe Gly Thr Val Tyr
1               5                   10


<210> 23709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719C; B1501

<400> 23709
Cys Ser Gly Ala Phe Gly Thr Val Tyr
1               5

<210> 23710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719C; B5801

<400> 23710
Cys Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23711
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719C; A1101

<400> 23711
Cys Ser Gly Ala Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 23712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; B1501

<400> 23712
Ser Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23713
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; A1101

<400> 23713
Ser Ser Gly Ala Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 23714
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; B1501

<400> 23714
Val Leu Ser Ser Gly Ala Phe Gly Thr Val Tyr
1               5                   10


<210> 23715
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; A1101

<400> 23715
Leu Ser Ser Gly Ala Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 23716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; B3901

<400> 23716
Ser Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23717
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; B1501

<400> 23717
Leu Ser Ser Gly Ala Phe Gly Thr Val Tyr
1               5                   10


<210> 23718
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; B3501

<400> 23718
Ser Ser Gly Ala Phe Gly Thr Val Tyr
1               5


<210> 23719
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; A6801

<400> 23719
Ser Ser Gly Ala Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 23720
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G719S; B2702

<400> 23720
Ser Ser Gly Ala Phe Gly Thr Val Tyr Lys
1               5                   10


<210> 23721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; A1101

<400> 23721
Ser Gly Ala Phe Ser Thr Val Tyr Lys
1               5


<210> 23722
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; EGFR_p.G724S; B1501

<400> 23722
Gly Ser Gly Ala Phe Ser Thr Val Tyr
1               5


<210> 23723
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; A1101

<400> 23723
Gly Ser Gly Ala Phe Ser Thr Val Tyr Lys
1               5                   10


<210> 23724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; A0301

<400> 23724
Ser Gly Ala Phe Ser Thr Val Tyr Lys
1               5


<210> 23725
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; B1501

<400> 23725
Ser Gly Ala Phe Ser Thr Val Tyr
1               5


<210> 23726
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; B1501

<400> 23726
Val Leu Gly Ser Gly Ala Phe Ser Thr Val Tyr
1               5                   10


<210> 23727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; A6801

<400> 23727
Ser Gly Ala Phe Ser Thr Val Tyr Lys
1               5


<210> 23728
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; A0301

<400> 23728
Gly Ser Gly Ala Phe Ser Thr Val Tyr Lys
1               5                   10


<210> 23729
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; A0201

<400> 23729
Lys Val Leu Gly Ser Gly Ala Phe Ser Thr Val
1               5                   10


<210> 23730
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; A1101

<400> 23730
Gly Ala Phe Ser Thr Val Tyr Lys

1 5

<210> 23731
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.G724S; B3501

<400> 23731
Ser Gly Ala Phe Ser Thr Val Tyr
1 5

<210> 23732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773_V774insAH; C0501

<400> 23732
Ser Val Asp Asn Pro His Ala His Val
1 5

<210> 23733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773_V774insAH; A1101

<400> 23733
Ala Ser Val Asp Asn Pro His Ala His
1 5

<210> 23734
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773_V774insAH; A1101

<400> 23734
Ser Val Asp Asn Pro His Ala His Val Cys Arg
1 5 10

<210> 23735
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773dup; C0501

<400> 23735
Ser Val Asp Asn Pro His His Val
1               5


<210> 23736
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773dup; A1101

<400> 23736
Ser Val Asp Asn Pro His His Val Cys Arg
1               5                   10


<210> 23737
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773dup; A6801

<400> 23737
Ser Val Asp Asn Pro His His Val Cys Arg
1               5                   10


<210> 23738
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773dup; A0201

<400> 23738
Val Met Ala Ser Val Asp Asn Pro His His Val
1               5                   10


<210> 23739

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773dup; C0802

<400> 23739
Ser Val Asp Asn Pro His His Val
1               5


<210> 23740
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773dup; C0401

<400> 23740
Ser Val Asp Asn Pro His His Val
1               5


<210> 23741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.H773dup; C0802

<400> 23741
Ser Val Asp Asn Pro His His Val Cys
1               5


<210> 23742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.I740_K745dup; A0301

<400> 23742
Ala Ile Lys Ile Pro Val Ala Ile Lys
1               5


<210> 23743
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L62R; A2601

<400> 23743
Glu Val Val Arg Gly Asn Leu Glu Ile Thr Tyr
1               5                   10


<210> 23744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L62R; B1501

<400> 23744
Val Val Arg Gly Asn Leu Glu Ile Thr Tyr
1               5                   10


<210> 23745
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L62R; B3501

<400> 23745
Glu Val Val Arg Gly Asn Leu Glu Ile Thr Tyr
1               5                   10


<210> 23746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L747_E749del; A0301

<400> 23746
Ala Ile Lys Glu Ala Thr Ser Pro Lys
1               5


<210> 23747
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L747_E749del; B5501

<400> 23747
Ile Pro Val Ala Ile Lys Glu Ala
1               5


<210> 23748
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L747_E749del; A3001

<400> 23748
Ala Ile Lys Glu Ala Thr Ser Pro Lys
1               5


<210> 23749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L747_E749del; A1101

<400> 23749
Ala Ile Lys Glu Ala Thr Ser Pro Lys
1               5


<210> 23750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L747_E749del; B2702

<400> 23750
Val Ala Ile Lys Glu Ala Thr Ser Pro Lys
1               5                   10


<210> 23751
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L747_E749del; A1101

<400> 23751
Val Ala Ile Lys Glu Ala Thr Ser Pro Lys
1               5                   10


<210> 23752
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L747_E749del; A0301

<400> 23752
Val Ala Ile Lys Glu Ala Thr Ser Pro Lys
1               5                   10


<210> 23753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; C0501

<400> 23753
Ile Thr Asp Phe Gly Arg Ala Lys Leu
1               5


<210> 23754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; B3701

<400> 23754
Thr Asp Phe Gly Arg Ala Lys Leu Leu
1               5


<210> 23755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; C0802

<400> 23755

Ile Thr Asp Phe Gly Arg Ala Lys Leu
1 5

<210> 23756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; B4102

<400> 23756
Thr Asp Phe Gly Arg Ala Lys Leu
1 5

<210> 23757
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; B4002

<400> 23757
Thr Asp Phe Gly Arg Ala Lys Leu
1 5

<210> 23758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; A0301

<400> 23758
Lys Ile Thr Asp Phe Gly Arg Ala Lys
1 5

<210> 23759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; A1101

<400> 23759
Lys Ile Thr Asp Phe Gly Arg Ala Lys
1 5

<210> 23760
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L858R; B2705

<400> 23760
Gly Arg Ala Lys Leu Leu Gly Ala Glu Glu Lys
1               5                   10


<210> 23761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L861Q; B1501

<400> 23761
Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1               5                   10


<210> 23762
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L861Q; A3002

<400> 23762
Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1               5                   10


<210> 23763
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.L861Q; B4403

<400> 23763
Thr Asp Phe Gly Leu Ala Lys Gln Leu
1               5

<210> 23764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L861Q; B4002

<400> 23764
Thr Asp Phe Gly Leu Ala Lys Gln Leu
1               5


<210> 23765
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L861Q; B1503

<400> 23765
Lys Gln Leu Gly Ala Glu Glu Lys Glu Tyr
1               5                   10


<210> 23766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L861Q; B4402

<400> 23766
Thr Asp Phe Gly Leu Ala Lys Gln Leu
1               5


<210> 23767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.L861R; B4403

<400> 23767
Thr Asp Phe Gly Leu Ala Lys Arg Leu
1               5


<210> 23768
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_H773dup; A0201

<400> 23768
Ser Val Asp Asn Pro His Asn Pro His Val
1               5                   10


<210> 23769
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_P772insH; A1101

<400> 23769
Ser Val Asp Asn His Pro His Val Cys Arg
1               5                   10


<210> 23770
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_P772insH; A3101

<400> 23770
Ser Val Asp Asn His Pro His Val Cys Arg
1               5                   10


<210> 23771
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_P772insH; C0501

<400> 23771
Ser Val Asp Asn His Pro His Val
1               5


<210> 23772
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_P772insH; C0802

<400> 23772
Ser Val Asp Asn His Pro His Val
1               5


<210> 23773
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_P772insH; A6801

<400> 23773
Ser Val Asp Asn His Pro His Val Cys Arg
1               5                   10


<210> 23774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_P772insH; C1502

<400> 23774
Ala Ser Val Asp Asn His Pro His Val
1               5


<210> 23775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771_P772insH; A3101

<400> 23775
Val Asp Asn His Pro His Val Cys Arg
1               5


<210> 23776
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; EGFR_p.N771_P772insH; B1302

<400> 23776
Ala Ser Val Asp Asn His Pro His Val
1               5


<210> 23777
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771dup; A1101

<400> 23777
Ser Val Asp Asn Asn Pro His Val Cys Arg
1               5                   10


<210> 23778
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771dup; C0501

<400> 23778
Ser Val Asp Asn Asn Pro His Val
1               5


<210> 23779
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.N771dup; A0201

<400> 23779
Ser Val Asp Asn Asn Pro His Val Cys
1               5


<210> 23780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.R108K; B1501

<400> 23780
Leu Gln Ile Ile Lys Gly Asn Met Tyr
1               5


<210> 23781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.R108K; B1501

<400> 23781
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1               5


<210> 23782
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.R108K; B1501

<400> 23782
Gln Ile Ile Lys Gly Asn Met Tyr
1               5


<210> 23783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.R108K; A2902

<400> 23783
Gln Ile Ile Lys Gly Asn Met Tyr Tyr
1               5


<210> 23784
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.R748K; A0301

<400> 23784
Lys Glu Leu Lys Glu Ala Thr Ser Pro Lys

1 5 10

<210> 23785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.R748K; A0301

<400> 23785
Glu Leu Lys Glu Ala Thr Ser Pro Lys
1 5

<210> 23786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
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<400> 23786
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<210> 23787
<211> 10
<212> PRT
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<220>
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<400> 23787
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1 5 10

<210> 23788
<211> 9
<212> PRT
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1 5

<210> 23789
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<212> PRT
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<220>
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1               5


<210> 23790
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S177L; C0802

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1               5


<210> 23791
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S752_I759del; A0201

<400> 23791
Thr Leu Asp Glu Ala Tyr Val Met Ala
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<210> 23792
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<220>
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Arg Glu Ala Thr Leu Asp Glu Ala Tyr Val Met
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<210> 23793

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<212> PRT
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<220>
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<400> 23793
Thr Leu Asp Glu Ala Tyr Val Met
1               5


<210> 23794
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<212> PRT
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<220>
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Arg Glu Ala Thr Leu Asp Glu Ala Tyr
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<210> 23795
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<212> PRT
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<220>
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Arg Glu Ala Thr Leu Asp Glu Ala Tyr
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<210> 23796
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<220>
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Thr Leu Asp Glu Ala Tyr Val Met
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<210> 23797
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<220>
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<210> 23798
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<220>
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Thr Leu Asp Glu Ala Tyr Val Met
1               5


<210> 23799
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S752_I759del; A1101

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Ala Thr Leu Asp Glu Ala Tyr Val Met
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<210> 23800
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S752_I759del; A2601

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<210> 23801
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S752_I759del; B3501

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<210> 23802
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<212> PRT
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<220>
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Arg Glu Ala Thr Leu Asp Glu Ala Tyr
1               5


<210> 23803
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S752_I759del; B1501

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Arg Glu Ala Thr Leu Asp Glu Ala Tyr
1               5


<210> 23804
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S752_I759del; B5701

<400> 23804
Ala Thr Leu Asp Glu Ala Tyr Val Met
1               5


<210> 23805
<211> 10
<212> PRT
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<220>
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Asp Ser Val Asp Asn Pro His Val Cys Arg
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<210> 23806
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768_D770dup; A0201

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Tyr Val Met Ala Ser Val Asp Ser Val
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<210> 23807
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768_D770dup; A0201

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<220>
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Tyr Val Met Ala Ser Val Asp Ser Val
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<210> 23809
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<220>
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<400> 23809

Tyr Val Met Ala Ser Val Asp Ser Val
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<210> 23810
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768_D770dup; B5101

<400> 23810
Asp Ser Val Asp Asn Pro His Val
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<210> 23811
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; B1801

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Asp Glu Ala Tyr Val Met Ala Ile
1               5


<210> 23812
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; B5101

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1               5


<210> 23813
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; A3303

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Ile Val Asp Asn Pro His Val Cys Arg
1               5

<210> 23814
<211> 8
<212> PRT
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<220>
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Asp Glu Ala Tyr Val Met Ala Ile
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<210> 23815
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; C0501

<400> 23815
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<210> 23816
<211> 9
<212> PRT
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<220>
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1               5


<210> 23817
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<220>
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Met Ala Ile Val Asp Asn Pro His Val
1               5

<210> 23818
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; B3502

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1               5


<210> 23819
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; A0201

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<210> 23820
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<220>
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1               5


<210> 23821
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<220>
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<210> 23822
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<212> PRT
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<220>
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<210> 23823
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<220>
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1               5


<210> 23824
<211> 9
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1               5


<210> 23825
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<220>
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1               5


<210> 23826
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<220>
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1               5                   10


<210> 23827
<211> 9
<212> PRT
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<220>
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1               5


<210> 23828
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; C0802

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1               5                   10


<210> 23829
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<212> PRT
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<220>
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1               5


<210> 23830
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<220>

<223> AACR GENIE Results; EGFR_p.S768I; A0201

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1               5


<210> 23831
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; A0201

<400> 23831
Tyr Val Met Ala Ile Val Asp Asn Pro His Val
1               5                   10


<210> 23832
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; A0301

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Ile Val Asp Asn Pro His Val Cys Arg
1               5


<210> 23833
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.S768I; C0802

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1               5                   10


<210> 23834
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<220>
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Glu Leu Arg Glu Ala Ile Ser Pro Lys
1               5


<210> 23835
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.T751I; C0102

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1               5


<210> 23836
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<212> PRT
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<220>
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1               5


<210> 23837
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.T790M; A6802

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1               5


<210> 23838
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<212> PRT
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<220>
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1 5

<210> 23839
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.T790M; A1101

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1 5

<210> 23840
<211> 9
<212> PRT
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<220>
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1 5

<210> 23841
<211> 9
<212> PRT
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<220>
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Leu Thr Ser Thr Val Gln Leu Ile Met
1 5

<210> 23842
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<212> PRT
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<220>
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1 5

<210> 23843
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.T790M; A6801

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Ser Thr Val Gln Leu Ile Met Gln Leu
1               5


<210> 23844
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.T790M; C1502

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1               5


<210> 23845
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V765L; B5101

<400> 23845
Glu Ala Tyr Leu Met Ala Ser Val
1               5


<210> 23846
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V765L; B1801

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Asp Glu Ala Tyr Leu Met Ala Ser Val
1               5


<210> 23847

<211> 9
<212> PRT
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<220>
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<400> 23847
Lys Glu Ile Leu Asp Glu Ala Tyr Leu
1               5


<210> 23848
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V765L; A0201

<400> 23848
Ile Leu Asp Glu Ala Tyr Leu Met Ala
1               5


<210> 23849
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V765L; A0201

<400> 23849
Tyr Leu Met Ala Ser Val Asp Asn Pro His Val
1               5                   10


<210> 23850
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V765L; C0501

<400> 23850
Ile Leu Asp Glu Ala Tyr Leu Met
1               5


<210> 23851
<211> 10
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<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V765L; A0201

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Leu Met Ala Ser Val Asp Asn Pro His Val
1               5                   10


<210> 23852
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V765L; C0802

<400> 23852
Ile Leu Asp Glu Ala Tyr Leu Met
1               5


<210> 23853
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<212> PRT
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<220>
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Asp Glu Ala Tyr Val Met Ala Ser Leu
1               5


<210> 23854
<211> 8
<212> PRT
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<220>
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Glu Ala Tyr Val Met Ala Ser Leu
1               5


<210> 23855
<211> 10
<212> PRT
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<220>
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Val Met Ala Ser Leu Asp Asn Pro His Val
1               5                   10


<210> 23856
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769L; A1101

<400> 23856
Ser Leu Asp Asn Pro His Val Cys Arg
1               5


<210> 23857
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769L; A1101

<400> 23857
Ala Ser Leu Asp Asn Pro His Val Cys Arg Leu
1               5                   10


<210> 23858
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769L; A0301

<400> 23858
Ser Leu Asp Asn Pro His Val Cys Arg Leu
1               5                   10


<210> 23859
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769L; B0801

<400> 23859
Glu Ala Tyr Val Met Ala Ser Leu
1               5


<210> 23860
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<212> PRT
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<220>
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<400> 23860
Asp Glu Ala Tyr Val Met Ala Ser Met
1               5


<210> 23861
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<212> PRT
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<220>
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Met Asp Asn Pro His Val Cys Arg Leu
1               5


<210> 23862
<211> 8
<212> PRT
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<220>
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Glu Ala Tyr Val Met Ala Ser Met
1               5


<210> 23863
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A3101

<400> 23863

Ala Ser Met Asp Asn Pro His Val Cys Arg
1               5                   10


<210> 23864
<211> 8
<212> PRT
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<220>
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<400> 23864
Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23865
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A3303

<400> 23865
Ser Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23866
<211> 10
<212> PRT
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<220>
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<400> 23866
Ala Ser Met Asp Asn Pro His Val Cys Arg
1               5                   10


<210> 23867
<211> 9
<212> PRT
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<220>
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<400> 23867
Ala Ser Met Asp Asn Pro His Val Cys
1               5

<210> 23868
<211> 10
<212> PRT
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<220>
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<400> 23868
Ala Ser Met Asp Asn Pro His Val Cys Arg
1               5                   10


<210> 23869
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A3101

<400> 23869
Ser Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23870
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A0201

<400> 23870
Val Met Ala Ser Met Asp Asn Pro His Val
1               5                   10


<210> 23871
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A6801

<400> 23871
Ala Ser Met Asp Asn Pro His Val Cys Arg
1               5                   10

<210> 23872
<211> 9
<212> PRT
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<220>
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<400> 23872
Met Asp Asn Pro His Val Cys Arg Leu
1               5


<210> 23873
<211> 8
<212> PRT
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<220>
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<400> 23873
Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23874
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; B3501

<400> 23874
Glu Ala Tyr Val Met Ala Ser Met
1               5


<210> 23875
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A1101

<400> 23875
Ala Ser Met Asp Asn Pro His Val Cys Arg Leu
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<210> 23876
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<212> PRT
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<220>
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<400> 23876
Ser Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23877
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<220>
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<400> 23877
Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23878
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<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A0301

<400> 23878
Ser Met Asp Asn Pro His Val Cys Arg Leu
1               5                   10


<210> 23879
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<212> PRT
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<220>
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<400> 23879
Ala Ser Met Asp Asn Pro His Val Cys Arg
1               5                   10


<210> 23880
<211> 8
<212> PRT
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<220>
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<400> 23880
Glu Ala Tyr Val Met Ala Ser Met
1               5


<210> 23881
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<220>
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<400> 23881
Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23882
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A3301

<400> 23882
Ala Ser Met Asp Asn Pro His Val Cys Arg
1               5                   10


<210> 23883
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; EGFR_p.V769M; A1101

<400> 23883
Ala Ser Met Asp Asn Pro His Val Cys
1               5


<210> 23884
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<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; EGFR_p.V769M; A6801

<400> 23884
Ser Met Asp Asn Pro His Val Cys Arg
1               5


<210> 23885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V769M; B4002

<400> 23885
Asp Glu Ala Tyr Val Met Ala Ser Met
1               5


<210> 23886
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; B3501

<400> 23886
Met Ala Ser Val Asp Asn Pro His Met
1               5


<210> 23887
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; A1101

<400> 23887
Ser Val Asp Asn Pro His Met Cys Arg
1               5


<210> 23888
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; A0201

<400> 23888
Val Met Ala Ser Val Asp Asn Pro His Met
1               5                   10


<210> 23889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; C1601

<400> 23889
Met Ala Ser Val Asp Asn Pro His Met
1               5


<210> 23890
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; C0501

<400> 23890
Ser Val Asp Asn Pro His Met Cys Arg Leu
1               5                   10


<210> 23891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; C0304

<400> 23891
Met Ala Ser Val Asp Asn Pro His Met
1               5


<210> 23892
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; A0301

<400> 23892
Val Asp Asn Pro His Met Cys Arg

1 5

<210> 23893
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V774M; A1101

<400> 23893
Ser Val Asp Asn Pro His Met Cys Arg Leu
1 5 10

<210> 23894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EGFR_p.V834L; A0301

<400> 23894
Tyr Leu Glu Asp Arg Arg Leu Leu His
1 5

<210> 23895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B1501

<400> 23895
Ser Gln Pro Pro Pro Leu Gln Ser Phe
1 5

<210> 23896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B3501

<400> 23896
Gln Pro Gly Pro Glu Phe Asn Ala Phe
1 5

<210> 23897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B1501

<400> 23897
Gly Gln Pro His Gly Thr Arg Ala Phe
1               5


<210> 23898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B0702

<400> 23898
Phe Pro Lys Asp Ala Ala Ser Ala Phe
1               5


<210> 23899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B3501

<400> 23899
Phe Pro Lys Asp Ala Ala Ser Ala Phe
1               5


<210> 23900
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B1501

<400> 23900
Cys Gln Pro Gly Pro Glu Phe Asn Ala Phe
1               5                   10


<210> 23901

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; A6801

<400> 23901
Asp Ala Ala Ser Ala Phe Ser Thr Pro Arg
1               5                   10


<210> 23902
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; A1101

<400> 23902
Ser Gln Pro Pro Pro Leu Gln Ser Phe Pro Lys
1               5                   10


<210> 23903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B0702

<400> 23903
Thr Pro Arg Phe Pro Thr Asp Lys Phe
1               5


<210> 23904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; A3201

<400> 23904
Ser Gln Pro Pro Pro Leu Gln Ser Phe
1               5


<210> 23905
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; A6801

<400> 23905
Ala Ala Ser Ala Phe Ser Thr Pro Arg
1               5


<210> 23906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B1501

<400> 23906
Phe Pro Lys Asp Ala Ala Ser Ala Phe
1               5


<210> 23907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B0702

<400> 23907
Gln Pro Gly Pro Glu Phe Asn Ala Phe
1               5


<210> 23908
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B1501

<400> 23908
Gln Ser Phe Pro Lys Asp Ala Ala Ser Ala Phe
1               5                   10


<210> 23909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; A2402

<400> 23909
Ser Gln Pro Pro Pro Leu Gln Ser Phe
1               5


<210> 23910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; A1101

<400> 23910
Ala Ala Ser Ala Phe Ser Thr Pro Arg
1               5


<210> 23911
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B5701

<400> 23911
Thr Asp Lys Phe Pro Thr Ser Trp
1               5


<210> 23912
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B5701

<400> 23912
Gln Ser Phe Pro Lys Asp Ala Ala Ser Ala Phe
1               5                   10


<210> 23913
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; C0202

<400> 23913
Phe Pro Lys Asp Ala Ala Ser Ala Phe
1               5


<210> 23914
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B5701

<400> 23914
Gln Ser Gln Pro Pro Pro Leu Gln Ser Phe
1               5                   10


<210> 23915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B5701

<400> 23915
Ala Ser Ala Phe Ser Thr Pro Arg Phe
1               5


<210> 23916
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; A2402

<400> 23916
Cys Gln Pro Gly Pro Glu Phe Asn Ala Phe
1               5                   10


<210> 23917
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.H2324Pfs*55; B5101

<400> 23917

Phe Pro Lys Asp Ala Ala Ser Ala Phe
1               5


<210> 23918
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EP300_p.T858A; B1501

<400> 23918
Ala Gln Gln Pro Pro Ala Thr Ala Ile
1               5


<210> 23919
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.A966E; B4402

<400> 23919
Ala Glu His Ser Pro Leu Gly Ser Gly Glu Tyr
1               5                   10


<210> 23920
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.A966E; B3501

<400> 23920
Ser Pro Leu Gly Ser Gly Glu Tyr
1               5


<210> 23921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.A966E; A0101

<400> 23921
His Ser Pro Leu Gly Ser Gly Glu Tyr
1               5

<210> 23922
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.A966E; B0702

<400> 23922
Ser Pro Leu Gly Ser Gly Glu Tyr Arg Ser Val
1               5                   10


<210> 23923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.L255F; A0201

<400> 23923
Phe Leu Glu Val Ser Gly Ser Cys Val
1               5


<210> 23924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.M427I; B1501

<400> 23924
Gly Leu Lys Asn Thr Ser Val Ile Met
1               5


<210> 23925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; B1501

<400> 23925
Ala Leu Val Ser Val Ser Val Tyr Tyr
1               5

<210> 23926
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; B1501

<400> 23926
Ala Leu Val Ser Val Ser Val Tyr
1               5


<210> 23927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; B3501

<400> 23927
Ile Ala Leu Val Ser Val Ser Val Tyr
1               5


<210> 23928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; A2902

<400> 23928
Ala Leu Val Ser Val Ser Val Tyr Tyr
1               5


<210> 23929
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; A1101

<400> 23929
Leu Val Ser Val Ser Val Tyr Tyr Lys
1               5


<210> 23930
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; B5101

<400> 23930
Ile Ala Leu Val Ser Val Ser Val
1               5


<210> 23931
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; A1101

<400> 23931
Val Ser Val Ser Val Tyr Tyr Lys
1               5


<210> 23932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; B1501

<400> 23932
Ile Ala Leu Val Ser Val Ser Val Tyr
1               5


<210> 23933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; A1101

<400> 23933
Val Ser Val Ser Val Tyr Tyr Lys Lys
1               5


<210> 23934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; A0301

<400> 23934
Leu Val Ser Val Ser Val Tyr Tyr Lys
1               5


<210> 23935
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; B5701

<400> 23935
Ile Ala Leu Val Ser Val Ser Val Tyr Tyr
1               5                   10


<210> 23936
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; B1501

<400> 23936
Leu Val Ser Val Ser Val Tyr Tyr
1               5


<210> 23937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R227S; A0301

<400> 23937
Ala Leu Val Ser Val Ser Val Tyr Tyr
1               5


<210> 23938
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; EPHA5_p.R853Q; A6801

<400> 23938
Thr Ala Pro Glu Ala Ile Ala Phe Gln Lys
1               5                   10


<210> 23939
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R853Q; A2301

<400> 23939
Pro Glu Ala Ile Ala Phe Gln Lys Phe
1               5


<210> 23940
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R853Q; C0304

<400> 23940
Ile Ala Phe Gln Lys Phe Thr Ser Ala
1               5


<210> 23941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R853Q; C0303

<400> 23941
Ile Ala Phe Gln Lys Phe Thr Ser Ala
1               5


<210> 23942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.R853Q; B0801

<400> 23942
Ile Ala Phe Gln Lys Phe Thr Ser Ala
1               5


<210> 23943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.W844C; B1501

<400> 23943
Cys Thr Ala Pro Glu Ala Ile Ala Phe
1               5


<210> 23944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.W844C; A6801

<400> 23944
Cys Thr Ala Pro Glu Ala Ile Ala Phe Arg
1               5                   10


<210> 23945
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.W844C; A1101

<400> 23945
Cys Thr Ala Pro Glu Ala Ile Ala Phe Arg Lys
1               5                   10


<210> 23946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.W844C; A1101

<400> 23946
Cys Thr Ala Pro Glu Ala Ile Ala Phe

1 5

<210> 23947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA5_p.W844C; B3501

<400> 23947
Cys Thr Ala Pro Glu Ala Ile Ala Phe
1 5

<210> 23948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA7_p.R486M; B0801

<400> 23948
Asp Gln Met Glu Arg Thr Tyr Ser Thr
1 5

<210> 23949
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA7_p.R486M; B4402

<400> 23949
Tyr Glu Lys Asp Gln Met Glu Arg Thr Tyr
1 5 10

<210> 23950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA7_p.R69Q; B1801

<400> 23950
Asp Glu Asn Tyr Thr Pro Ile Gln Thr Tyr
1 5 10

<210> 23951
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA7_p.R69Q; B4403

<400> 23951
Asp Glu Asn Tyr Thr Pro Ile Gln Thr Tyr
1               5                   10


<210> 23952
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA7_p.R69Q; B4402

<400> 23952
Asp Glu Asn Tyr Thr Pro Ile Gln Thr Tyr
1               5                   10


<210> 23953
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHA7_p.R69Q; B5101

<400> 23953
Thr Pro Ile Gln Thr Tyr Gln Val
1               5


<210> 23954
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHB1_p.A922T; A3101

<400> 23954
Ser Thr Ile Lys Met Val Gln Tyr Arg
1               5


<210> 23955

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHB1_p.A922T; C0802

<400> 23955
Thr Val Asp Asp Trp Leu Ser Thr Ile
1               5


<210> 23956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHB1_p.A922T; C1601

<400> 23956
Leu Ser Thr Ile Lys Met Val Gln Tyr
1               5


<210> 23957
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHB1_p.A922T; A1101

<400> 23957
Ser Thr Ile Lys Met Val Gln Tyr Arg
1               5


<210> 23958
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHB1_p.A922T; B1501

<400> 23958
Ser Thr Ile Lys Met Val Gln Tyr
1               5


<210> 23959
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHB1_p.A922T; A6801

<400> 23959
Ser Thr Ile Lys Met Val Gln Tyr Arg
1               5


<210> 23960
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; EPHB1_p.R222Q; A6802

<400> 23960
Ser Thr Ser Leu Val Ile Ala Gln Gly Thr
1               5                   10


<210> 23961
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.D769Y; A0301

<400> 23961
Ile Leu Tyr Glu Ala Tyr Val Met Ala Gly
1               5                   10


<210> 23962
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B1801

<400> 23962
Asp Glu Ala Tyr Val Met Ala Val
1               5


<210> 23963
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A6801

<400> 23963
Ala Val Val Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23964
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B5101

<400> 23964
Glu Ala Tyr Val Met Ala Val Val
1               5


<210> 23965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A3101

<400> 23965
Val Val Gly Ser Pro Tyr Val Ser Arg
1               5


<210> 23966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A6801

<400> 23966
Val Val Gly Ser Pro Tyr Val Ser Arg
1               5


<210> 23967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B1501

<400> 23967
Val Met Ala Val Val Gly Ser Pro Tyr
1               5


<210> 23968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A1101

<400> 23968
Val Val Gly Ser Pro Tyr Val Ser Arg
1               5


<210> 23969
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A1101

<400> 23969
Ala Val Val Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23970
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A0301

<400> 23970
Val Val Gly Ser Pro Tyr Val Ser Arg
1               5


<210> 23971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B1801

<400> 23971

Asp Glu Ala Tyr Val Met Ala Val Val
1               5


<210> 23972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A0201

<400> 23972
Ile Leu Asp Glu Ala Tyr Val Met Ala Val
1               5                   10


<210> 23973
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A3101

<400> 23973
Ala Val Val Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B5101

<400> 23974
Met Ala Val Val Gly Ser Pro Tyr Val
1               5


<210> 23975
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A6801

<400> 23975
Met Ala Val Val Gly Ser Pro Tyr Val Ser Arg
1               5                   10

<210> 23976
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A0301

<400> 23976
Ala Val Val Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23977
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B3501

<400> 23977
Tyr Val Met Ala Val Val Gly Ser Pro Tyr
1               5                   10


<210> 23978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B1801

<400> 23978
Asp Glu Ala Tyr Val Met Ala Val Val Gly
1               5                   10


<210> 23979
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B1302

<400> 23979
Ala Val Val Gly Ser Pro Tyr Val
1               5

<210> 23980
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A2601

<400> 23980
Tyr Val Met Ala Val Val Gly Ser Pro Tyr
1               5                   10


<210> 23981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A2902

<400> 23981
Val Met Ala Val Val Gly Ser Pro Tyr
1               5


<210> 23982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A0201

<400> 23982
Val Met Ala Val Val Gly Ser Pro Tyr Val
1               5                   10


<210> 23983
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B3501

<400> 23983
Met Ala Val Val Gly Ser Pro Tyr
1               5


<210> 23984
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; B1501

<400> 23984
Tyr Val Met Ala Val Val Gly Ser Pro Tyr
1               5                   10


<210> 23985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G776V; A2601

<400> 23985
Ala Val Val Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23986
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; A3101

<400> 23986
Val Gly Ser Pro Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; B1501

<400> 23987
Gly Val Gly Ser Pro Gly Ser Pro Tyr
1               5


<210> 23988
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; A6801

<400> 23988
Val Gly Ser Pro Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; B5101

<400> 23989
Val Gly Ser Pro Gly Ser Pro Tyr Val
1               5


<210> 23990
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; B1501

<400> 23990
Ala Gly Val Gly Ser Pro Gly Ser Pro Tyr
1               5                   10


<210> 23991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; B1302

<400> 23991
Val Gly Ser Pro Gly Ser Pro Tyr Val
1               5


<210> 23992
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ERBB2_p.G778_P780dup; A6801

<400> 23992
Ser Pro Gly Ser Pro Tyr Val Ser Arg
1               5


<210> 23993
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; B0702

<400> 23993
Ser Pro Gly Ser Pro Tyr Val Ser Arg Leu
1               5                   10


<210> 23994
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; A6801

<400> 23994
Gly Ser Pro Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23995
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; A0201

<400> 23995
Val Gly Ser Pro Gly Ser Pro Tyr Val
1               5


<210> 23996
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; A1101

<400> 23996
Val Gly Ser Pro Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 23997
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.G778_P780dup; B3501

<400> 23997
Ala Gly Val Gly Ser Pro Gly Ser Pro Tyr
1               5                   10


<210> 23998
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755A; A0301

<400> 23998
Lys Val Ala Arg Glu Asn Thr Ser Pro Lys
1               5                   10


<210> 23999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755A; A0301

<400> 23999
Val Ala Arg Glu Asn Thr Ser Pro Lys
1               5


<210> 24000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755P; A6801

<400> 24000
Ile Pro Val Ala Ile Lys Val Pro Arg

1 5

<210> 24001
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755P; A0301

<400> 24001
Lys Val Pro Arg Glu Asn Thr Ser Pro Lys
1 5 10

<210> 24002
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755P; B0702

<400> 24002
Val Pro Arg Glu Asn Thr Ser Pro Lys Ala
1 5 10

<210> 24003
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755P; A1101

<400> 24003
Lys Val Pro Arg Glu Asn Thr Ser Pro Lys
1 5 10

<210> 24004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755S; A6801

<400> 24004
Ile Pro Val Ala Ile Lys Val Ser Arg
1 5

<210> 24005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.L755S; A0301

<400> 24005
Val Ser Arg Glu Asn Thr Ser Pro Lys
1               5


<210> 24006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Q709L; B0702

<400> 24006
Thr Pro Ser Gly Ala Met Pro Asn Leu
1               5


<210> 24007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Q709L; B3501

<400> 24007
Thr Pro Ser Gly Ala Met Pro Asn Leu
1               5


<210> 24008
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.R678Q; B1501

<400> 24008
Gln Gln Gln Lys Ile Arg Lys Tyr
1               5


<210> 24009

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.S310F; C0802

<400> 24009
Ser Thr Asp Val Gly Phe Cys Thr Leu
1               5


<210> 24010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.S310F; A2301

<400> 24010
Asn Tyr Leu Ser Thr Asp Val Gly Phe
1               5


<210> 24011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.S310F; C0501

<400> 24011
Ser Thr Asp Val Gly Phe Cys Thr Leu
1               5


<210> 24012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.S310F; A2402

<400> 24012
Asn Tyr Leu Ser Thr Asp Val Gly Phe
1               5


<210> 24013
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.S310F; C0304

<400> 24013
Ser Thr Asp Val Gly Phe Cys Thr Leu
1               5


<210> 24014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V659E; C1203

<400> 24014
Ser Ala Val Glu Gly Ile Leu Leu Val
1               5


<210> 24015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V659E; B5101

<400> 24015
Ser Ala Val Glu Gly Ile Leu Leu Val
1               5


<210> 24016
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V659E; C0304

<400> 24016
Ser Ala Val Glu Gly Ile Leu Leu
1               5


<210> 24017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V659E; A0201

<400> 24017
Ser Ile Ile Ser Ala Val Glu Gly Ile
1               5


<210> 24018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B1801

<400> 24018
Asp Glu Ala Tyr Val Met Ala Gly Leu
1               5


<210> 24019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B1501

<400> 24019
Val Met Ala Gly Leu Gly Ser Pro Tyr
1               5


<210> 24020
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B5101

<400> 24020
Glu Ala Tyr Val Met Ala Gly Leu
1               5


<210> 24021
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A2601

<400> 24021
Tyr Val Met Ala Gly Leu Gly Ser Pro Tyr
1               5                   10


<210> 24022
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A3101

<400> 24022
Ala Gly Leu Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 24023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A3101

<400> 24023
Gly Leu Gly Ser Pro Tyr Val Ser Arg
1               5


<210> 24024
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A0201

<400> 24024
Val Met Ala Gly Leu Gly Ser Pro Tyr Val
1               5                   10


<210> 24025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A0301

<400> 24025

Gly Leu Gly Ser Pro Tyr Val Ser Arg
1 5

<210> 24026
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B1501

<400> 24026
Tyr Val Met Ala Gly Leu Gly Ser Pro Tyr
1 5 10

<210> 24027
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A3303

<400> 24027
Met Ala Gly Leu Gly Ser Pro Tyr Val Ser Arg
1 5 10

<210> 24028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B2702

<400> 24028
Gly Leu Gly Ser Pro Tyr Val Ser Arg
1 5

<210> 24029
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A6801

<400> 24029
Met Ala Gly Leu Gly Ser Pro Tyr Val Ser Arg
1 5 10

<210> 24030
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B1302

<400> 24030
Ala Gly Leu Gly Ser Pro Tyr Val
1               5


<210> 24031
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B2702

<400> 24031
Ala Gly Leu Gly Ser Pro Tyr Val Ser Arg
1               5                   10


<210> 24032
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V777L; B3501

<400> 24032
Tyr Val Met Ala Gly Leu Gly Ser Pro Tyr
1               5                   10


<210> 24033
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; ERBB2_p.V777L; A0301

<400> 24033
Gly Leu Gly Ser Pro Tyr Val Ser Arg Leu
1               5                   10

<210> 24034
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; ERBB2_p.V842I; A2402

<400> 24034
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 24035
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V842I; A2301

<400> 24035
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 24036
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V842I; A3101

<400> 24036
Ser Tyr Leu Glu Asp Val Arg Leu Ile His Arg
1               5                   10


<210> 24037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V842I; C0602

<400> 24037
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 24038
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V842I; C1402

<400> 24038
Ser Tyr Leu Glu Asp Val Arg Leu Ile
1               5


<210> 24039
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.V842I; A3303

<400> 24039
Ser Tyr Leu Glu Asp Val Arg Leu Ile His Arg
1               5                   10


<210> 24040
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B1801

<400> 24040
Asp Glu Ala Tyr Val Met Ala Tyr
1               5


<210> 24041
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B5101

<400> 24041
Glu Ala Tyr Val Met Ala Tyr Val
1               5


<210> 24042
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A0101

<400> 24042
Ile Leu Asp Glu Ala Tyr Val Met Ala Tyr
1               5                   10


<210> 24043
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B5101

<400> 24043
Met Ala Tyr Val Met Ala Gly Val
1               5


<210> 24044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B3501

<400> 24044
Glu Ala Tyr Val Met Ala Tyr Val Met
1               5


<210> 24045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B1502

<400> 24045
Glu Ala Tyr Val Met Ala Tyr Val Met
1               5


<210> 24046
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B3503

<400> 24046
Glu Ala Tyr Val Met Ala Tyr Val Met
1               5


<210> 24047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B5101

<400> 24047
Glu Ala Tyr Val Met Ala Tyr Val Met
1               5


<210> 24048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A0201

<400> 24048
Val Met Ala Tyr Val Met Ala Gly Val
1               5


<210> 24049
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A6802

<400> 24049
Asp Glu Ala Tyr Val Met Ala Tyr Val
1               5


<210> 24050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; C0302

<400> 24050
Asp Glu Ala Tyr Val Met Ala Tyr
1               5


<210> 24051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; C0801

<400> 24051
Glu Ala Tyr Val Met Ala Tyr Val Met
1               5


<210> 24052
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B1801

<400> 24052
Asp Glu Ala Tyr Val Met Ala Tyr Val Met
1               5                   10


<210> 24053
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A2301

<400> 24053
Asp Glu Ala Tyr Val Met Ala Tyr
1               5


<210> 24054
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B1502

<400> 24054
Asp Glu Ala Tyr Val Met Ala Tyr

1 5

<210> 24055
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; C1402

<400> 24055
Ala Tyr Val Met Ala Tyr Val Met
1 5

<210> 24056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B1302

<400> 24056
Val Met Ala Tyr Val Met Ala Gly Val
1 5

<210> 24057
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B4403

<400> 24057
Asp Glu Ala Tyr Val Met Ala Tyr
1 5

<210> 24058
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A2601

<400> 24058
Glu Ile Leu Asp Glu Ala Tyr Val Met Ala Tyr
1 5 10

<210> 24059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A6802

<400> 24059
Glu Ala Tyr Val Met Ala Tyr Val Met
1               5


<210> 24060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B4901

<400> 24060
Asp Glu Ala Tyr Val Met Ala Tyr Val
1               5


<210> 24061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B5801

<400> 24061
Asp Glu Ala Tyr Val Met Ala Tyr
1               5


<210> 24062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B1801

<400> 24062
Leu Asp Glu Ala Tyr Val Met Ala Tyr
1               5


<210> 24063

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A2301

<400> 24063
Ala Tyr Val Met Ala Tyr Val Met
1               5


<210> 24064
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; A6802

<400> 24064
Tyr Val Met Ala Tyr Val Met Ala Gly Val
1               5                   10


<210> 24065
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB2_p.Y772_A775dup; B1502

<400> 24065
Ile Leu Asp Glu Ala Tyr Val Met Ala Tyr
1               5                   10


<210> 24066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.D297Y; A0301

<400> 24066
Val Val Tyr Gln Thr Ser Cys Val Arg
1               5


<210> 24067
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.D297Y; A3101

<400> 24067
Val Val Tyr Gln Thr Ser Cys Val Arg
1               5


<210> 24068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.D297Y; A1101

<400> 24068
Val Val Tyr Gln Thr Ser Cys Val Arg
1               5


<210> 24069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.D297Y; B5101

<400> 24069
Val Val Tyr Gln Thr Ser Cys Val
1               5


<210> 24070
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.D297Y; B3501

<400> 24070
Cys Pro His Asn Phe Val Val Tyr
1               5


<210> 24071
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.D297Y; A6801

<400> 24071
Val Val Tyr Gln Thr Ser Cys Val Arg
1               5


<210> 24072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.I649R; C0602

<400> 24072
Val Arg Ala Gly Leu Val Val Ile Phe
1               5


<210> 24073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.I649R; C0702

<400> 24073
Val Arg Ala Gly Leu Val Val Ile Phe
1               5


<210> 24074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.S846I; A0201

<400> 24074
Val Leu Leu Lys Ser Pro Ile Gln Val
1               5


<210> 24075
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.S846I; B3501

<400> 24075
Ser Pro Ile Gln Val Gln Val Ala Asp Phe
1               5                   10


<210> 24076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.S846I; C0602

<400> 24076
Leu Lys Ser Pro Ile Gln Val Gln Val
1               5


<210> 24077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.V104L; B5101

<400> 24077
Leu Pro Leu Pro Asn Leu Arg Leu Val
1               5


<210> 24078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.V104L; B1501

<400> 24078
Arg Leu Val Arg Gly Thr Gln Val Tyr
1               5


<210> 24079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.V104L; B1501

<400> 24079

Leu Val Arg Gly Thr Gln Val Tyr
1 5

<210> 24080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.V104M; B5101

<400> 24080
Leu Pro Leu Pro Asn Leu Arg Met Val
1 5

<210> 24081
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.V104M; B1501

<400> 24081
Met Val Arg Gly Thr Gln Val Tyr
1 5

<210> 24082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.V104M; B1501

<400> 24082
Arg Met Val Arg Gly Thr Gln Val Tyr
1 5

<210> 24083
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB3_p.V104M; A2601

<400> 24083
Met Val Arg Gly Thr Gln Val Tyr
1 5

<210> 24084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.E1201K; A2402

<400> 24084
Lys Tyr Val Asn Glu Pro Leu Tyr Leu
1               5


<210> 24085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.E1201K; C0702

<400> 24085
Lys Tyr Val Asn Glu Pro Leu Tyr Leu
1               5


<210> 24086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.E1201K; C0602

<400> 24086
Lys Tyr Val Asn Glu Pro Leu Tyr Leu
1               5


<210> 24087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R1040T; C0501

<400> 24087
Thr Ile Asp Ser Asn Arg Ser Glu Ile
1               5

<210> 24088
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R1040T; B0702

<400> 24088
Thr Ile Asp Ser Asn Arg Ser Glu Ile
1               5


<210> 24089
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; B1402

<400> 24089
Asp Leu Ala Ala His Asn Val Leu
1               5


<210> 24090
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; B0801

<400> 24090
Asp Leu Ala Ala His Asn Val Leu
1               5


<210> 24091
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; B3701

<400> 24091
Arg Asp Leu Ala Ala His Asn Val
1               5


<210> 24092
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; B3701

<400> 24092
Arg Asp Leu Ala Ala His Asn Val Leu
1               5


<210> 24093
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; A1101

<400> 24093
Ala Ala His Asn Val Leu Val Lys
1               5


<210> 24094
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; B4002

<400> 24094
Arg Asp Leu Ala Ala His Asn Val Leu
1               5


<210> 24095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; A6802

<400> 24095
Asp Leu Ala Ala His Asn Val Leu Val
1               5


<210> 24096
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; A0301

<400> 24096
Ala Ala His Asn Val Leu Val Lys
1               5


<210> 24097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.R847H; B1402

<400> 24097
Arg Asp Leu Ala Ala His Asn Val Leu
1               5


<210> 24098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S1046I; C0501

<400> 24098
Arg Ile Asp Ser Asn Arg Ile Glu Ile
1               5


<210> 24099
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S1046I; B4403

<400> 24099
Ile Glu Ile Gly His Ser Pro Pro Pro Ala Tyr
1               5                   10


<210> 24100
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; ERBB4_p.S1046I; A0301

<400> 24100
Arg Ile Asp Ser Asn Arg Ile Glu Ile
1               5


<210> 24101
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S1046I; B1501

<400> 24101
Ile Glu Ile Gly His Ser Pro Pro Pro Ala Tyr
1               5                   10


<210> 24102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; B1801

<400> 24102
Asp Glu Ala Leu Ile Met Ala Arg Met
1               5


<210> 24103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; C0602

<400> 24103
Ala Arg Met Asp His Pro His Leu Val
1               5


<210> 24104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; B2705

<400> 24104
Ala Arg Met Asp His Pro His Leu Val
1               5


<210> 24105
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; B1801

<400> 24105
Asp Glu Ala Leu Ile Met Ala Arg
1               5


<210> 24106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; B4403

<400> 24106
Asp Glu Ala Leu Ile Met Ala Arg Met
1               5


<210> 24107
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; B5101

<400> 24107
Glu Ala Leu Ile Met Ala Arg Met
1               5


<210> 24108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; A2301

<400> 24108
Asp Glu Ala Leu Ile Met Ala Arg Met

1 5

<210> 24109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; A3101

<400> 24109
Arg Met Asp His Pro His Leu Val Arg
1 5

<210> 24110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.S774R; A0301

<400> 24110
Arg Met Asp His Pro His Leu Val Arg
1 5

<210> 24111
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.T926M; B5101

<400> 24111
Asp Gly Ile Pro Met Arg Glu Ile
1 5

<210> 24112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERBB4_p.T926M; B3501

<400> 24112
Ile Pro Met Arg Glu Ile Pro Asp Leu
1 5

<210> 24113
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC3_p.G587V; A0201

<400> 24113
Tyr Ile Tyr Gly Pro Thr Ser Gln Val
1               5


<210> 24114
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC3_p.G587V; A1101

<400> 24114
Tyr Ile Tyr Gly Pro Thr Ser Gln Val Glu Arg
1               5                   10


<210> 24115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC3_p.G587V; B3501

<400> 24115
Gly Pro Thr Ser Gln Val Glu Arg Met
1               5


<210> 24116
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC3_p.G587V; A2402

<400> 24116
Ile Tyr Gly Pro Thr Ser Gln Val Glu Arg Met
1               5                   10


<210> 24117

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.E527D; B1801

<400> 24117
Asp Glu Ile Lys His Glu Glu Phe
1               5


<210> 24118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.Q322H; B5701

<400> 24118
Lys Ala Phe Gly His Asn Ser Gly Trp
1               5


<210> 24119
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.Q406R; C0304

<400> 24119
Leu Gly Gly Pro Gly Arg Val Leu
1               5


<210> 24120
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.Q406R; B4001

<400> 24120
Ser Glu Ala Leu Gly Gly Pro Gly Arg Val Leu
1               5                   10


<210> 24121
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.R618H; B4001

<400> 24121
Thr Glu Glu Gln His Tyr Leu Thr Ala Leu
1               5                   10


<210> 24122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.R618H; B1801

<400> 24122
Glu Glu Gln His Tyr Leu Thr Ala Leu
1               5


<210> 24123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.R618H; B4001

<400> 24123
Glu Glu Gln His Tyr Leu Thr Ala Leu
1               5


<210> 24124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.S540L; B4403

<400> 24124
Glu Glu Phe Asp Val Asn Leu Ser Leu
1               5


<210> 24125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.S540L; B4001

<400> 24125
Glu Glu Phe Asp Val Asn Leu Ser Leu
1               5


<210> 24126
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.S540L; B1801

<400> 24126
Glu Glu Phe Asp Val Asn Leu Ser Leu
1               5


<210> 24127
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC4_p.S540L; A1101

<400> 24127
Ser Leu Asp Ala Ala Phe Gly Ile Leu Lys
1               5                   10


<210> 24128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC5_p.T105A; C0602

<400> 24128
Ser Arg Lys Ala Thr Glu Lys Leu Leu
1               5


<210> 24129
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERCC5_p.T105A; A1101

<400> 24129
Ala Thr Glu Lys Leu Leu Lys Thr Phe Leu Lys
1               5                   10


<210> 24130
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERG_p.E39Q; B0702

<400> 24130
Thr Pro His Leu Ala Lys Thr Gln Met
1               5


<210> 24131
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERG_p.E39Q; B1501

<400> 24131
Thr Gln Met Thr Ala Ser Ser Ser Ser Asp Tyr
1               5                   10


<210> 24132
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERG_p.E39Q; B3501

<400> 24132
Thr Pro His Leu Ala Lys Thr Gln Met
1               5


<210> 24133
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERG_p.E39Q; B0801

<400> 24133

Thr Pro His Leu Ala Lys Thr Gln Met
1               5


<210> 24134
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ERG_p.E39Q; B1501

<400> 24134
Gln Met Thr Ala Ser Ser Ser Ser Asp Tyr
1               5                   10


<210> 24135
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.L35M; B3501

<400> 24135
Ile Pro Met Glu Arg Pro Leu Gly Glu Val Tyr
1               5                   10


<210> 24136
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.L35M; B1801

<400> 24136
Met Glu Arg Pro Leu Gly Glu Val Tyr
1               5


<210> 24137
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.L35M; B5101

<400> 24137
Ile Pro Met Glu Arg Pro Leu Gly Glu Val
1               5                   10

<210> 24138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.L35M; B4403

<400> 24138
Met Glu Arg Pro Leu Gly Glu Val Tyr
1               5


<210> 24139
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.L35M; B4402

<400> 24139
Met Glu Arg Pro Leu Gly Glu Val Tyr
1               5


<210> 24140
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.L35M; B0702

<400> 24140
Ile Pro Met Glu Arg Pro Leu Gly Glu Val
1               5                   10


<210> 24141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.S106G; C0102

<400> 24141
Val Ser Pro Gly Pro Leu Met Leu Leu
1               5

<210> 24142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.S106G; C0304

<400> 24142
Asn Ser Val Ser Pro Gly Pro Leu Met
1               5


<210> 24143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.S106G; C0303

<400> 24143
Asn Ser Val Ser Pro Gly Pro Leu Met
1               5


<210> 24144
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.T311M; A0201

<400> 24144
Ser Leu Met Ala Asp Gln Met Val Ser Ala
1               5                   10


<210> 24145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.T311M; C0501

<400> 24145
Met Ala Asp Gln Met Val Ser Ala Leu
1               5


<210> 24146
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.T311M; A0201

<400> 24146
Leu Met Ala Asp Gln Met Val Ser Ala
1               5


<210> 24147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.T311M; B3501

<400> 24147
Met Ala Asp Gln Met Val Ser Ala Leu
1               5


<210> 24148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ESR1_p.T311M; C0304

<400> 24148
Met Ala Asp Gln Met Val Ser Ala Leu
1               5


<210> 24149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ETV1_p.R205M; B3501

<400> 24149
Met Pro Met Glu Gly Arg Pro Met Tyr
1               5


<210> 24150
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ETV4_p.E30K; A0301

<400> 24150
Lys Ala Leu Ile Gly Pro Leu Gly Lys
1               5


<210> 24151
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ETV4_p.E30K; A1101

<400> 24151
Lys Ser Pro Gly Asn Gly Ser Leu Arg Lys
1               5                   10


<210> 24152
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ETV4_p.E30K; A0301

<400> 24152
Lys Ala Leu Ile Gly Pro Leu Gly Lys Leu
1               5                   10


<210> 24153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ETV4_p.E30K; A1101

<400> 24153
Lys Ala Leu Ile Gly Pro Leu Gly Lys
1               5


<210> 24154
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; EZH2_p.P219S; C0802

<400> 24154
Ser Ser Asp Lys Ile Phe Glu Ala Ile
1               5


<210> 24155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.D23Ifs*23; B5701

<400> 24155
Pro Ser Lys Thr Pro Val Phe Thr Trp
1               5


<210> 24156
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.D23Ifs*23; A2301

<400> 24156
Val Trp Ile Arg Leu Pro Leu Trp
1               5


<210> 24157
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.D23Ifs*23; B5701

<400> 24157
Leu Ser Val Trp Ile Arg Leu Pro Leu Trp
1               5                   10


<210> 24158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.D23Ifs*23; B5701

<400> 24158
Ser Val Trp Ile Arg Leu Pro Leu Trp
1               5


<210> 24159
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.D23Ifs*23; B0702

<400> 24159
Lys Pro Ser Lys Thr Pro Val Phe
1               5


<210> 24160
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.F275L; A3001

<400> 24160
Leu Ile Lys Asp Ser Ser Leu Pro Gln Ala
1               5                   10


<210> 24161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.M350V; B5101

<400> 24161
Phe Pro Tyr Thr Ser Pro Ser Leu Ala Val
1               5                   10


<210> 24162
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.M350V; B5101

<400> 24162
Phe Pro Tyr Thr Ser Pro Ser Leu Ala Val Val

1 5 10

<210> 24163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.M350V; B0702

<400> 24163
Ser Pro Ser Leu Ala Val Val Leu Leu
1 5

<210> 24164
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.M350V; B0702

<400> 24164
Ser Pro Ser Leu Ala Val Val Leu
1 5

<210> 24165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.M350V; C0102

<400> 24165
Thr Ser Pro Ser Leu Ala Val Val Leu
1 5

<210> 24166
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.M350V; B3501

<400> 24166
Phe Pro Tyr Thr Ser Pro Ser Leu Ala Val
1 5 10

<210> 24167
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCC_p.Q3H; B3502

<400> 24167
Met Ala His Asp Ser Val Asp Leu
1               5


<210> 24168
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; B1501

<400> 24168
Ala Gln Asn Leu Leu His Ser Leu
1               5


<210> 24169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; C0303

<400> 24169
Leu Ala Gln Asn Leu Leu His Ser Leu
1               5


<210> 24170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; C0304

<400> 24170
Leu Ala Gln Asn Leu Leu His Ser Leu
1               5


<210> 24171

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; A0201

<400> 24171
Ser Leu Ala Gln Asn Leu Leu His Ser Leu
1               5                   10


<210> 24172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; C1601

<400> 24172
Leu Ala Gln Asn Leu Leu His Ser Leu
1               5


<210> 24173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; C1203

<400> 24173
Leu Ala Gln Asn Leu Leu His Ser Leu
1               5


<210> 24174
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; A0201

<400> 24174
Ile Leu Ser Leu Ala Gln Asn Leu Leu
1               5


<210> 24175
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; FANCD2_p.S441N; B0801

<400> 24175
Ala Gln Asn Leu Leu His Ser Leu
1               5


<210> 24176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FAT1_p.A3261G; B4403

<400> 24176
Ile Glu Gly Asn Ala Glu Ile Thr Tyr
1               5


<210> 24177
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FAT1_p.A3261G; B1801

<400> 24177
Ile Glu Gly Asn Ala Glu Ile Thr Tyr
1               5


<210> 24178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FAT1_p.A3261G; B1501

<400> 24178
Ile Glu Gly Asn Ala Glu Ile Thr Tyr
1               5


<210> 24179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FAT1_p.A3261G; B4001

<400> 24179
Ile Glu Gly Asn Ala Glu Ile Thr Tyr
1               5


<210> 24180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FAT1_p.H3814Y; A0101

<400> 24180
Val Ser Asp Pro Trp Glu Glu Lys Tyr
1               5


<210> 24181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FAT1_p.H3814Y; B5801

<400> 24181
Val Ser Asp Pro Trp Glu Glu Lys Tyr
1               5


<210> 24182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FAT1_p.V2603M; B1801

<400> 24182
Tyr Glu Met Asn Ile Gly Ser Ser Ala
1               5


<210> 24183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.A503V; C1601

<400> 24183
Val Ala Val Val Arg Cys Val Gln Tyr
1               5


<210> 24184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.A503V; A0201

<400> 24184
Val Leu Met Gly His Val Ala Val Val
1               5


<210> 24185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.A503V; C1203

<400> 24185
Val Ala Val Val Arg Cys Val Gln Tyr
1               5


<210> 24186
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.A503V; A0201

<400> 24186
Leu Met Gly His Val Ala Val Val
1               5


<210> 24187
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.A503V; B1302

<400> 24187

Val Leu Met Gly His Val Ala Val Val
1               5


<210> 24188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.A503V; B1501

<400> 24188
Val Ala Val Val Arg Cys Val Gln Tyr
1               5


<210> 24189
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.G423V; B5701

<400> 24189
Arg Thr Leu Val Gly His Thr Gly Val Val Trp
1               5                   10


<210> 24190
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R465C; B1502

<400> 24190
Thr Leu Tyr Gly His Thr Ser Thr Val Cys
1               5                   10


<210> 24191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R465H; B3801

<400> 24191
Gly His Thr Ser Thr Val His Cys Met
1               5

<210> 24192
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R479Q; B5701

<400> 24192
Gly Ser Gln Asp Ala Thr Leu Arg Val Trp
1               5                   10


<210> 24193
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R479Q; B5801

<400> 24193
Gly Ser Gln Asp Ala Thr Leu Arg Val Trp
1               5                   10


<210> 24194
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R479Q; A0206

<400> 24194
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10


<210> 24195
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R479Q; A0205

<400> 24195
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10

<210> 24196
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R479Q; B1302

<400> 24196
Ser Gln Asp Ala Thr Leu Arg Val
1               5


<210> 24197
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R479Q; A6801

<400> 24197
Val Val Ser Gly Ser Gln Asp Ala Thr Leu Arg
1               5                   10


<210> 24198
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R479Q; B5801

<400> 24198
Arg Val Val Ser Gly Ser Gln Asp Ala Thr Leu
1               5                   10


<210> 24199
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R658Q; B4001

<400> 24199
Gly Glu Phe Ile Gln Asn Leu Val Thr Leu
1               5                   10


<210> 24200
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R658Q; B4901

<400> 24200
Gly Glu Phe Ile Gln Asn Leu Val
1               5


<210> 24201
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R658Q; B4901

<400> 24201
Gly Glu Phe Ile Gln Asn Leu Val Thr Leu
1               5                   10


<210> 24202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R658Q; A2301

<400> 24202
Glu Phe Ile Gln Asn Leu Val Thr Leu
1               5


<210> 24203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R658Q; A3303

<400> 24203
Glu Phe Ile Gln Asn Leu Val Thr Leu
1               5


<210> 24204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R658Q; C1502

<400> 24204
Lys Thr Gly Glu Phe Ile Gln Asn Leu
1               5


<210> 24205
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.R689W; B2702

<400> 24205
Gly Ser Trp Asn Gly Thr Glu Glu Thr Lys
1               5                   10


<210> 24206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.S582L; B3801

<400> 24206
Ile His Thr Leu Thr Gly His Gln Leu
1               5


<210> 24207
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FBXW7_p.S582L; B1501

<400> 24207
His Gln Leu Leu Thr Ser Gly Met
1               5


<210> 24208
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; FBXW7_p.S86L; B4403

<400> 24208
Glu Glu Asn Asn Asn Arg Phe Ile Leu
1               5


<210> 24209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR1_p.A121S; C0304

<400> 24209
Phe Ser Val Asn Val Ser Asp Ser Leu
1               5


<210> 24210
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR2_p.R450C; B0801

<400> 24210
Thr Pro Leu Val Arg Ile Thr Thr Cys
1               5


<210> 24211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR2_p.T454M; A0201

<400> 24211
Ser Met Ala Asp Thr Pro Met Leu Ala
1               5


<210> 24212
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B4403

<400> 24212
Ser Glu Leu Glu Leu Pro Ala Asn Pro Lys Trp
1               5                   10


<210> 24213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B3503

<400> 24213
Leu Pro Ala Asn Pro Lys Trp Glu Leu
1               5


<210> 24214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B0702

<400> 24214
Leu Pro Ala Asn Pro Lys Trp Glu Leu
1               5


<210> 24215
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B4402

<400> 24215
Ser Glu Leu Glu Leu Pro Ala Asn Pro Lys Trp
1               5                   10


<210> 24216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B3501

<400> 24216
Leu Pro Ala Asn Pro Lys Trp Glu Leu

1 5

<210> 24217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B4403

<400> 24217
Leu Glu Leu Pro Ala Asn Pro Lys Trp
1 5

<210> 24218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B3502

<400> 24218
Leu Pro Ala Asn Pro Lys Trp Glu Leu
1 5

<210> 24219
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FGFR3_p.D462N; B5001

<400> 24219
Ser Glu Leu Glu Leu Pro Ala Asn Pro
1 5

<210> 24220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; B4403

<400> 24220
Lys Glu Thr Ala Ile Lys Leu Gly Tyr
1 5

<210> 24221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; B4402

<400> 24221
Lys Glu Thr Ala Ile Lys Leu Gly Tyr
1               5


<210> 24222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A1101

<400> 24222
Ser Thr Leu Lys Glu Thr Ala Ile Lys
1               5


<210> 24223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A2301

<400> 24223
Lys Glu Thr Ala Ile Lys Leu Gly Tyr
1               5


<210> 24224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A2601

<400> 24224
Glu Thr Ala Ile Lys Leu Gly Tyr Leu
1               5


<210> 24225

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A2601

<400> 24225
Glu Thr Ala Ile Lys Leu Gly Tyr
1               5


<210> 24226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; B0801

<400> 24226
Thr Leu Lys Glu Thr Ala Ile Lys Leu
1               5


<210> 24227
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A0201

<400> 24227
Thr Leu Lys Glu Thr Ala Ile Lys Leu
1               5


<210> 24228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A0301

<400> 24228
Thr Leu Lys Glu Thr Ala Ile Lys Leu
1               5


<210> 24229
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A1101

<400> 24229
Ser Thr Leu Lys Glu Thr Ala Ile Lys Leu
1               5                   10


<210> 24230
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A0301

<400> 24230
Ser Thr Leu Lys Glu Thr Ala Ile Lys Leu
1               5                   10


<210> 24231
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FH_p.E488K; A0301

<400> 24231
Ser Thr Leu Lys Glu Thr Ala Ile Lys
1               5


<210> 24232
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT1_p.D270N; B0801

<400> 24232
Tyr Pro Asn Glu Lys Asn Lys Arg
1               5


<210> 24233
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT1_p.R224Q; A2402

<400> 24233
Asn Tyr Leu Thr His Gln Gln Thr Asn Thr Ile
1               5                   10


<210> 24234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT1_p.R312C; A0301

<400> 24234
Cys Val Arg Ser Gly Pro Ser Phe Lys
1               5


<210> 24235
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT1_p.R501K; B5101

<400> 24235
Asp Ser Asn Met Gly Asn Lys Ile
1               5


<210> 24236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT1_p.R501K; B3801

<400> 24236
Ala Asp Ser Asn Met Gly Asn Lys Ile
1               5


<210> 24237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.C206Y; A2402

<400> 24237
Leu Tyr Leu Gln Tyr Glu Thr Thr Trp
1               5


<210> 24238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.E100K; B1501

<400> 24238
Lys Val His Ala Asn Asp Thr Gly Ser Tyr
1               5                   10


<210> 24239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P219H; C0802

<400> 24239
Asp Gln Asp Phe Leu Ser Asn His Phe
1               5


<210> 24240
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P219H; B4403

<400> 24240
Gln Asp Phe Leu Ser Asn His Phe
1               5


<210> 24241
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; B5701

<400> 24241

Ala Ala Tyr Pro Leu Pro Glu Phe Gln Trp
1               5                   10


<210> 24242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; B3501

<400> 24242
Tyr Pro Leu Pro Glu Phe Gln Trp Tyr
1               5


<210> 24243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; C0303

<400> 24243
Leu Ala Ala Tyr Pro Leu Pro Glu Phe
1               5


<210> 24244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; A2402

<400> 24244
Ala Tyr Pro Leu Pro Glu Phe Gln Trp
1               5


<210> 24245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; C0304

<400> 24245
Leu Ala Ala Tyr Pro Leu Pro Glu Phe
1               5

<210> 24246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; C1601

<400> 24246
Leu Ala Ala Tyr Pro Leu Pro Glu Phe
1               5


<210> 24247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; B3501

<400> 24247
Leu Ala Ala Tyr Pro Leu Pro Glu Phe
1               5


<210> 24248
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; FLT4_p.P363L; C0202

<400> 24248
Leu Ala Ala Tyr Pro Leu Pro Glu Phe
1               5


<210> 24249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P363L; A2301

<400> 24249
Ala Tyr Pro Leu Pro Glu Phe Gln Trp
1               5

<210> 24250
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P364S; C0304

<400> 24250
Leu Ala Ala Tyr Pro Pro Ser Glu Phe
1               5


<210> 24251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P364S; C1203

<400> 24251
Ala Ala Tyr Pro Pro Ser Glu Phe
1               5


<210> 24252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P364S; C1203

<400> 24252
Leu Ala Ala Tyr Pro Pro Ser Glu Phe
1               5


<210> 24253
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P364S; A2402

<400> 24253
Ala Tyr Pro Pro Ser Glu Phe Gln Trp
1               5


<210> 24254
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P364S; C0304

<400> 24254
Ala Ala Tyr Pro Pro Ser Glu Phe
1               5


<210> 24255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.P364S; B3501

<400> 24255
Tyr Pro Pro Ser Glu Phe Gln Trp Tyr
1               5


<210> 24256
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; FLT4_p.R1242T; A0201

<400> 24256
Val Ser Phe Pro Gly Cys Leu Ala Thr Gly
1               5                   10


<210> 24257
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GATA3_p.A109D; C0501

<400> 24257
His Thr Asp Ser Pro Trp Asn Leu
1               5


<210> 24258
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GATA4_p.H436Q; B1501

<400> 24258
Ser Gln Gly Asp Ile Ile Thr Ala
1               5


<210> 24259
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GATA4_p.H436Q; A0201

<400> 24259
Ser Gln Gly Asp Ile Ile Thr Ala
1               5


<210> 24260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GATA4_p.H436Q; B3501

<400> 24260
Asp Ser Gln Gly Asp Ile Ile Thr Ala
1               5


<210> 24261
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.A918T; B3501

<400> 24261
Thr Pro Ala Gln Glu Pro Ser Tyr
1               5


<210> 24262
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; GLI1_p.D400Mfs*30; B0702

<400> 24262
Ser Pro Arg Gly Ser Gly Lys Glu Val
1               5


<210> 24263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.R380Q; A0101

<400> 24263
Tyr Thr Asp Pro Ser Ser Leu Gln Lys
1               5


<210> 24264
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.R380Q; A0101

<400> 24264
Tyr Thr Asp Pro Ser Ser Leu Gln Lys His
1               5                   10


<210> 24265
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.R380Q; A1101

<400> 24265
Tyr Thr Asp Pro Ser Ser Leu Gln Lys
1               5


<210> 24266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.R380Q; B5101

<400> 24266
Asp Pro Ser Ser Leu Gln Lys His Val
1               5


<210> 24267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.R380Q; A0301

<400> 24267
Tyr Thr Asp Pro Ser Ser Leu Gln Lys
1               5


<210> 24268
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.R380Q; B2705

<400> 24268
Lys Arg Tyr Thr Asp Pro Ser Ser Leu Gln Lys
1               5                   10


<210> 24269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI1_p.R380Q; A0201

<400> 24269
Ser Leu Gln Lys His Val Lys Thr Val
1               5


<210> 24270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; A2402

<400> 24270
Thr Tyr Ser Ser Thr Pro Val Ser Leu

1 5

<210> 24271
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C0304

<400> 24271
Tyr Ser Ser Thr Pro Val Ser Leu
1 5

<210> 24272
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C0303

<400> 24272
Tyr Ser Ser Thr Pro Val Ser Leu
1 5

<210> 24273
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C0304

<400> 24273
Phe Thr Tyr Ser Ser Thr Pro Val Ser Leu
1 5 10

<210> 24274
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C0303

<400> 24274
Phe Thr Tyr Ser Ser Thr Pro Val Ser Leu
1 5 10

<210> 24275
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C1601

<400> 24275
Tyr Ser Ser Thr Pro Val Ser Leu
1               5


<210> 24276
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; A2402

<400> 24276
Thr Tyr Ser Ser Thr Pro Val Ser Leu His Met
1               5                   10


<210> 24277
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C1203

<400> 24277
Tyr Ser Ser Thr Pro Val Ser Leu
1               5


<210> 24278
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C0702

<400> 24278
Thr Tyr Ser Ser Thr Pro Val Ser Leu
1               5


<210> 24279

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.A353T; C1601

<400> 24279
Ser Ser Thr Pro Val Ser Leu His Met
1               5


<210> 24280
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GLI3_p.M274V; A2402

<400> 24280
Glu Tyr Leu His Ala Val Asp Ser Thr Arg Phe
1               5                   10


<210> 24281
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.Q227L; C0401

<400> 24281
Met Phe Asp Val Gly Gly Leu Arg
1               5


<210> 24282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.Q227L; B3801

<400> 24282
Phe His Met Phe Asp Val Gly Gly Leu
1               5


<210> 24283
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201C; A1101

<400> 24283
Cys Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24284
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201C; A0301

<400> 24284
Cys Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24285
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201C; B2702

<400> 24285
Cys Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24286
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201H; B2702

<400> 24286
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24287
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201H; A0301

<400> 24287
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24288
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201H; A1101

<400> 24288
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201H; B3701

<400> 24289
Gln Asp Leu Leu Arg Cys His Val Leu
1               5


<210> 24290
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201H; A6802

<400> 24290
His Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201H; B1502

<400> 24291
His Val Leu Thr Ser Gly Ile Phe
1               5


<210> 24292
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201L; A0301

<400> 24292
Leu Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24293
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; GNAS_p.R201L; A1101

<400> 24293
Leu Val Leu Thr Ser Gly Ile Phe Glu Thr Lys
1               5                   10


<210> 24294
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; B5701

<400> 24294
Val Ala Leu His Glu Ile Arg Arg Tyr
1               5


<210> 24295
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; A6801

<400> 24295

Gly Thr Val Ala Leu His Glu Ile Arg
1 5

<210> 24296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; A6801

<400> 24296
Thr Val Ala Leu His Glu Ile Arg Arg
1 5

<210> 24297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; C1601

<400> 24297
Val Ala Leu His Glu Ile Arg Arg Tyr
1 5

<210> 24298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; B5701

<400> 24298
Gly Thr Val Ala Leu His Glu Ile Arg
1 5

<210> 24299
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; A0201

<400> 24299
Gly Thr Val Ala Leu His Glu Ile
1 5

<210> 24300
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; C0602

<400> 24300
Tyr Arg Pro Gly Thr Val Ala Leu His Glu Ile
1               5                   10


<210> 24301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; C1203

<400> 24301
Val Ala Leu His Glu Ile Arg Arg Tyr
1               5


<210> 24302
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; A6801

<400> 24302
Gly Thr Val Ala Leu His Glu Ile Arg Arg
1               5                   10


<210> 24303
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; B5701

<400> 24303
Gly Thr Val Ala Leu His Glu Ile Arg Arg Tyr
1               5                   10

<210> 24304
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; B0702

<400> 24304
Arg Pro Gly Thr Val Ala Leu His Glu Ile
1               5                   10


<210> 24305
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; A0301

<400> 24305
Ala Leu His Glu Ile Arg Arg Tyr
1               5


<210> 24306
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; B5701

<400> 24306
Gly Thr Val Ala Leu His Glu Ile
1               5


<210> 24307
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; A1101

<400> 24307
Gly Thr Val Ala Leu His Glu Ile Arg
1               5


<210> 24308
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; H3F3A_p.R50H; A1101

<400> 24308
Arg Pro Gly Thr Val Ala Leu His
1               5


<210> 24309
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HGF_p.T316N; B5101

<400> 24309
Glu Gly Tyr Arg Gly Asn Val Asn Thr Ile
1               5                   10


<210> 24310
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HIST1H3B_p.E106Q; C0802

<400> 24310
Phe Gln Asp Thr Asn Leu Cys Ala Ile
1               5


<210> 24311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HIST1H3B_p.E106Q; A0201

<400> 24311
Phe Gln Asp Thr Asn Leu Cys Ala Ile
1               5


<210> 24312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HIST1H3B_p.E106Q; C0501

<400> 24312
Phe Gln Asp Thr Asn Leu Cys Ala Ile
1               5


<210> 24313
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HIST1H3B_p.E106Q; A0201

<400> 24313
Gly Leu Phe Gln Asp Thr Asn Leu Cys Ala Ile
1               5                   10


<210> 24314
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HIST1H3B_p.E106Q; B4001

<400> 24314
Phe Gln Asp Thr Asn Leu Cys Ala Ile
1               5


<210> 24315
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HIST1H3B_p.E106Q; A3101

<400> 24315
Ala Tyr Leu Val Gly Leu Phe Gln Asp Thr
1               5                   10


<210> 24316
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; HIST1H3B_p.E106Q; A0201

<400> 24316
Gly Leu Phe Gln Asp Thr Asn Leu Cys
1               5


<210> 24317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HIST1H3B_p.E106Q; A0201

<400> 24317
Tyr Leu Val Gly Leu Phe Gln Asp Thr
1               5


<210> 24318
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A1101

<400> 24318
Val Val Val Gly Ala Gly Val Val Gly Lys
1               5                   10


<210> 24319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A1101

<400> 24319
Val Val Gly Ala Gly Val Val Gly Lys
1               5


<210> 24320
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A0301

<400> 24320
Val Val Val Gly Ala Gly Val Val Gly Lys
1               5                   10


<210> 24321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A0301

<400> 24321
Val Val Gly Ala Gly Val Val Gly Lys
1               5


<210> 24322
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A1101

<400> 24322
Leu Val Val Val Gly Ala Gly Val Val Gly Lys
1               5                   10


<210> 24323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; B0801

<400> 24323
Ala Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 24324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; B0702

<400> 24324
Ala Gly Val Val Gly Lys Ser Ala Leu

1 5

<210> 24325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A0201

<400> 24325
Lys Leu Val Val Val Gly Ala Gly Val
1 5

<210> 24326
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A0301

<400> 24326
Leu Val Val Val Gly Ala Gly Val Val Gly Lys
1 5 10

<210> 24327
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; B0801

<400> 24327
Val Gly Ala Gly Val Val Gly Lys Ser Ala Leu
1 5 10

<210> 24328
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; A1101

<400> 24328
Val Gly Ala Gly Val Val Gly Lys
1 5

<210> 24329
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; B1501

<400> 24329
Ala Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 24330
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; HRAS_p.G13V; B0801

<400> 24330
Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 24331
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ID3_p.E12K; A0301

<400> 24331
Ala Leu Ser Pro Val Arg Gly Cys Tyr Lys
1               5                   10


<210> 24332
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ID3_p.E12K; A1101

<400> 24332
Ala Leu Ser Pro Val Arg Gly Cys Tyr Lys
1               5                   10


<210> 24333

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IDH1_p.R132L; B1501

<400> 24333
Gly Leu His Ala Tyr Gly Asp Gln Tyr
1               5


<210> 24334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IDH1_p.R132L; A2902

<400> 24334
Gly Leu His Ala Tyr Gly Asp Gln Tyr
1               5


<210> 24335
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IDH2_p.R140Q; B1501

<400> 24335
Ile Gln Asn Ile Leu Gly Gly Thr Val Phe
1               5                   10


<210> 24336
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IDH2_p.R140Q; B0702

<400> 24336
Ser Pro Asn Gly Thr Ile Gln Asn Ile Leu
1               5                   10


<210> 24337
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A6801

<400> 24337
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr Arg
1               5                   10


<210> 24338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A3002

<400> 24338
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5


<210> 24339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A2902

<400> 24339
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5


<210> 24340
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A3303

<400> 24340
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr Arg
1               5                   10


<210> 24341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; B1501

<400> 24341
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5


<210> 24342
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; B5801

<400> 24342
Lys Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5                   10


<210> 24343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; B5801

<400> 24343
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5


<210> 24344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A3002

<400> 24344
Lys Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5                   10


<210> 24345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; B3501

<400> 24345
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5


<210> 24346
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A3303

<400> 24346
Ile Asn Asn Glu Tyr Ser Tyr Arg
1               5


<210> 24347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A2601

<400> 24347
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr
1               5


<210> 24348
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A6802

<400> 24348
Thr Thr Ile Asn Asn Glu Tyr Ser Tyr Arg
1               5                   10


<210> 24349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.N202S; A3303

<400> 24349

Thr Ile Asn Asn Glu Tyr Ser Tyr Arg
1               5


<210> 24350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IGF1R_p.T1366P; B3503

<400> 24350
Leu Pro Leu Pro Gln Ser Ser Pro Cys
1               5


<210> 24351
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3801

<400> 24351
Ala Gln Asp Ser Thr Val Glu Asn Leu Leu
1               5                   10


<210> 24352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3801

<400> 24352
Ala Gln Asp Ser Thr Val Glu Asn Leu
1               5


<210> 24353
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; A1101

<400> 24353
Ser Thr Val Glu Asn Leu Leu Leu Leu Ser Lys
1               5                   10

<210> 24354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; C0802

<400> 24354
Ala Gln Asp Ser Thr Val Glu Asn Leu
1               5


<210> 24355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3901

<400> 24355
Asn His Ser Ala Gln Asp Ser Thr Val
1               5


<210> 24356
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3701

<400> 24356
Gln Asp Ser Thr Val Glu Asn Leu
1               5


<210> 24357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3801

<400> 24357
Asn His Ser Ala Gln Asp Ser Thr Val
1               5

<210> 24358
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B2702

<400> 24358
Thr Val Glu Asn Leu Leu Leu Leu Ser Lys
1               5                   10


<210> 24359
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3801

<400> 24359
Ala Gln Asp Ser Thr Val Glu Asn Leu Leu Leu
1               5                   10


<210> 24360
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B1302

<400> 24360
Ala Gln Asp Ser Thr Val Glu Asn Leu Leu Leu
1               5                   10


<210> 24361
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; C0501

<400> 24361
Ala Gln Asp Ser Thr Val Glu Asn Leu
1               5


<210> 24362
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3801

<400> 24362
Gln Asp Ser Thr Val Glu Asn Leu Leu
1               5


<210> 24363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; A0205

<400> 24363
Ala Gln Asp Ser Thr Val Glu Asn Leu
1               5


<210> 24364
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B3901

<400> 24364
Ala Gln Asp Ser Thr Val Glu Asn Leu
1               5


<210> 24365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; C1502

<400> 24365
Ser Thr Val Glu Asn Leu Leu Leu Leu
1               5


<210> 24366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B1302

<400> 24366
Ala Gln Asp Ser Thr Val Glu Asn Leu
1               5


<210> 24367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; A6802

<400> 24367
Ser Thr Val Glu Asn Leu Leu Leu Leu
1               5


<210> 24368
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; A1101

<400> 24368
Thr Val Glu Asn Leu Leu Leu Leu Ser Lys
1               5                   10


<210> 24369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; A0205

<400> 24369
Ser Thr Val Glu Asn Leu Leu Leu Leu
1               5


<210> 24370
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; IKZF1_p.A369T; A6801

<400> 24370
Ser Thr Val Glu Asn Leu Leu Leu Leu Ser Lys
1               5                   10


<210> 24371
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B2702

<400> 24371
Ser Thr Val Glu Asn Leu Leu Leu Leu Ser Lys
1               5                   10


<210> 24372
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; C0802

<400> 24372
Ala Gln Asp Ser Thr Val Glu Asn Leu Leu
1               5                   10


<210> 24373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.A369T; B4002

<400> 24373
Gln Asp Ser Thr Val Glu Asn Leu Leu
1               5


<210> 24374
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; A1101

<400> 24374
Ser Ala Met Glu Asn Leu Leu Leu Leu Ser Lys
1  5  10

<210> 24375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; C0802

<400> 24375
Ala Gln Asp Ser Ala Met Glu Asn Leu
1  5

<210> 24376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; B3801

<400> 24376
Asn His Ser Ala Gln Asp Ser Ala Met
1  5

<210> 24377
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; B3801

<400> 24377
Ala Gln Asp Ser Ala Met Glu Asn Leu Leu
1  5  10

<210> 24378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; B3801

<400> 24378
Ala Gln Asp Ser Ala Met Glu Asn Leu

1 5

<210> 24379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; C0304

<400> 24379
Ser Ala Met Glu Asn Leu Leu Leu Leu
1 5

<210> 24380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; C1502

<400> 24380
Ser Ala Met Glu Asn Leu Leu Leu Leu
1 5

<210> 24381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; C0303

<400> 24381
Ser Ala Met Glu Asn Leu Leu Leu Leu
1 5

<210> 24382
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; IKZF1_p.V370M; A1101

<400> 24382
Ser Ala Met Glu Asn Leu Leu Leu Leu
1 5

<210> 24383
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; IKZF1_p.V370M; B3801

<400> 24383
Gln Asp Ser Ala Met Glu Asn Leu Leu
1               5


<210> 24384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; C0501

<400> 24384
Ala Gln Asp Ser Ala Met Glu Asn Leu
1               5


<210> 24385
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; IKZF1_p.V370M; C0802

<400> 24385
Ala Gln Asp Ser Ala Met Glu Asn Leu Leu
1               5                   10


<210> 24386
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK2_p.R1063C; B3501

<400> 24386
Ser Pro Pro Ala Glu Phe Met Cys Met
1               5


<210> 24387

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK3_p.L368V; B4001

<400> 24387
Lys Glu Val Ala Pro Pro Arg Val Leu
1               5


<210> 24388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK3_p.L368V; B4403

<400> 24388
Lys Glu Val Ala Pro Pro Arg Val Leu
1               5


<210> 24389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK3_p.L368V; B0702

<400> 24389
Lys Glu Val Ala Pro Pro Arg Val Leu
1               5


<210> 24390
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK3_p.L368V; B4402

<400> 24390
Lys Glu Val Ala Pro Pro Arg Val Leu
1               5


<210> 24391
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK3_p.L454P; B4403

<400> 24391
Arg Glu Leu Pro Ala Thr Cys Trp
1               5


<210> 24392
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK3_p.L454P; B5701

<400> 24392
Ser Ser Leu Arg Glu Leu Pro Ala Thr Cys Trp
1               5                   10


<210> 24393
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; JAK3_p.L454P; A3001

<400> 24393
Ser Leu Arg Glu Leu Pro Ala Thr Cys
1               5


<210> 24394
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; JAK3_p.L454P; A0201

<400> 24394
Ser Leu Arg Glu Leu Pro Ala Thr Cys
1               5


<210> 24395
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; JAK3_p.L454P; A2301

<400> 24395
Arg Glu Leu Pro Ala Thr Cys Trp
1               5


<210> 24396
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; JAK3_p.L454P; B4402

<400> 24396
Arg Glu Leu Pro Ala Thr Cys Trp
1               5


<210> 24397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDM6A_p.S820A; B5101

<400> 24397
Val Ala Ser Ser Pro Ala Ser Ala Ile
1               5


<210> 24398
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.A10T; B5701

<400> 24398
Lys Val Leu Leu Ala Val Thr Leu Trp
1               5


<210> 24399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.E980G; A1101

<400> 24399
Ala Ser Ser Gly Phe Val Glu Gly Lys
1               5


<210> 24400
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.E980G; A1101

<400> 24400
Ser Ser Ala Ser Ser Gly Phe Val Glu Gly Lys
1               5                   10


<210> 24401
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.E980G; A1101

<400> 24401
Ser Ala Ser Ser Gly Phe Val Glu Gly Lys
1               5                   10


<210> 24402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.E980G; A0301

<400> 24402
Ala Ser Ser Gly Phe Val Glu Gly Lys
1               5


<210> 24403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; B4403

<400> 24403

Thr Glu Leu Asn Val Gly Thr Asp Phe
1               5


<210> 24404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; B1801

<400> 24404
Thr Glu Leu Asn Val Gly Thr Asp Phe
1               5


<210> 24405
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; B4403

<400> 24405
Thr Glu Leu Asn Val Gly Thr Asp Phe Asn Trp
1               5                   10


<210> 24406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; B4001

<400> 24406
Thr Glu Leu Asn Val Gly Thr Asp Phe
1               5


<210> 24407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; B4402

<400> 24407
Thr Glu Leu Asn Val Gly Thr Asp Phe
1               5

<210> 24408
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; B1501

<400> 24408
Thr Glu Leu Asn Val Gly Thr Asp Phe
1               5


<210> 24409
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; A0101

<400> 24409
Gly Thr Asp Phe Asn Trp Glu Tyr
1               5


<210> 24410
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.I256T; B4402

<400> 24410
Thr Glu Leu Asn Val Gly Thr Asp Phe Asn Trp
1               5                   10


<210> 24411
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; B4901

<400> 24411
Val Glu Ala Thr Val Gly Glu His Val
1               5

<210> 24412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; B4001

<400> 24412
Val Glu Ala Thr Val Gly Glu His Val
1               5


<210> 24413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; B1302

<400> 24413
Val Glu Ala Thr Val Gly Glu His Val
1               5


<210> 24414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; A3001

<400> 24414
Val Glu Ala Thr Val Gly Glu His Val
1               5


<210> 24415
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; B4403

<400> 24415
Val Glu Ala Thr Val Gly Glu His Val
1               5


<210> 24416
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; A6801

<400> 24416
Glu Ala Thr Val Gly Glu His Val Arg
1               5


<210> 24417
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; A0201

<400> 24417
Ser Leu Val Glu Ala Thr Val Gly Glu His Val
1               5                   10


<210> 24418
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R347H; B1302

<400> 24418
Ser Leu Val Glu Ala Thr Val Gly Glu His Val
1               5                   10


<210> 24419
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KDR_p.R347H; B1801

<400> 24419
Val Glu Ala Thr Val Gly Glu His
1               5


<210> 24420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R549K; A1101

<400> 24420
Arg Val Ile Ser Phe His Val Thr Lys
1               5


<210> 24421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R549K; A0301

<400> 24421
Arg Val Ile Ser Phe His Val Thr Lys
1               5


<210> 24422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R549K; C0304

<400> 24422
Val Thr Lys Gly Pro Glu Ile Thr Leu
1               5


<210> 24423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R549K; C1203

<400> 24423
Val Thr Lys Gly Pro Glu Ile Thr Leu
1               5


<210> 24424
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KDR_p.R549K; B1501

<400> 24424
Val Thr Lys Gly Pro Glu Ile Thr Leu
1               5


<210> 24425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R549K; C0202

<400> 24425
Val Thr Lys Gly Pro Glu Ile Thr Leu
1               5


<210> 24426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R549K; C0303

<400> 24426
Val Thr Lys Gly Pro Glu Ile Thr Leu
1               5


<210> 24427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R961W; B5701

<400> 24427
Gly Ala Ile Pro Val Asp Leu Lys Trp
1               5


<210> 24428
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.R961W; B5701

<400> 24428
Val Gly Ala Ile Pro Val Asp Leu Lys Trp
1               5                   10


<210> 24429
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.T1258M; B1501

<400> 24429
Asn Gln Met Asp Ser Gly Met Val Leu
1               5


<210> 24430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.T1258M; B1501

<400> 24430
Lys Val Ile Pro Asp Asp Asn Gln Met
1               5


<210> 24431
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.T875A; C0304

<400> 24431
Ala Ala His Ser Glu His Arg Ala Leu
1               5


<210> 24432
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KDR_p.T875A; C1601

<400> 24432
Ala Ala His Ser Glu His Arg Ala Leu

1 5

<210> 24433
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KDR_p.V218I; B1501

<400> 24433
Tyr Ile Val Val Ile Val Gly Tyr
1 5

<210> 24434
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B1501

<400> 24434
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1 5 10

<210> 24435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0802

<400> 24435
Phe Ser Asp Phe Leu Val Gln Gln Leu
1 5

<210> 24436
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0501

<400> 24436
Phe Ser Asp Phe Leu Val Gln Gln Leu
1 5

<210> 24437
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B3501

<400> 24437
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24438
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A2601

<400> 24438
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0802

<400> 24439
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B1501

<400> 24440
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24441

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A0101

<400> 24441
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B3801

<400> 24442
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24443
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A2402

<400> 24443
Met Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24444
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B4403

<400> 24444
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24445
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0501

<400> 24445
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24446
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0202

<400> 24446
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B4402

<400> 24447
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B5701

<400> 24448
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24449
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B1801

<400> 24449
Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24450
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A2301

<400> 24450
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B0702

<400> 24451
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0401

<400> 24452
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24453
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A0101

<400> 24453
Phe Ser Asp Phe Leu Val Gln Gln Leu
1               5


<210> 24454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A0301

<400> 24454
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24455
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A2301

<400> 24455
Met Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24456
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B1302

<400> 24456
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24457
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0304

<400> 24457

Phe Ser Asp Phe Leu Val Gln Gln Leu
1 5

<210> 24458
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B3801

<400> 24458
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1 5 10

<210> 24459
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B4403

<400> 24459
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1 5 10

<210> 24460
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A3201

<400> 24460
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1 5 10

<210> 24461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B3801

<400> 24461
Phe Ser Asp Phe Leu Val Gln Gln Leu
1 5

<210> 24462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C1502

<400> 24462
Phe Ser Asp Phe Leu Val Gln Gln Leu
1               5


<210> 24463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0401

<400> 24463
Phe Ser Asp Phe Leu Val Gln Gln Leu
1               5


<210> 24464
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B4402

<400> 24464
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24465
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0303

<400> 24465
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10

<210> 24466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A1101

<400> 24466
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24467
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B5701

<400> 24467
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B4001

<400> 24468
Phe Ser Asp Phe Leu Val Gln Gln Leu
1               5


<210> 24469
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; C0304

<400> 24469
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24470
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; A3201

<400> 24470
Gln Ile Asp Ser Val Val Arg Ala Phe
1               5


<210> 24471
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C171F; B3501

<400> 24471
Tyr Gln Ile Asp Ser Val Val Arg Ala Phe
1               5                   10


<210> 24472
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C297F; B4403

<400> 24472
Cys Glu Ile Leu Gln Ser Asp Ser Arg Phe
1               5                   10


<210> 24473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C297F; A0101

<400> 24473
Gln Ser Asp Ser Arg Phe Lys Asp Tyr
1               5


<210> 24474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C297F; A2601

<400> 24474
Glu Ile Leu Gln Ser Asp Ser Arg Phe
1               5


<210> 24475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.C297F; A0301

<400> 24475
Ile Leu Gln Ser Asp Ser Arg Phe Lys
1               5


<210> 24476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.D236Y; C1601

<400> 24476
Leu Val Thr Leu Ile Ser Arg Asp Tyr
1               5


<210> 24477
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.D479Y; A1101

<400> 24477
Ala Val Gly Gly Phe Tyr Gly Thr Asn Arg
1               5                   10


<210> 24478
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KEAP1_p.D479Y; B0801

<400> 24478
Tyr Gly Thr Asn Arg Leu Asn Ser Ala
1               5


<210> 24479
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.D479Y; A0301

<400> 24479
Leu Leu Tyr Ala Val Gly Gly Phe Tyr
1               5


<210> 24480
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.D479Y; A0301

<400> 24480
Ala Val Gly Gly Phe Tyr Gly Thr Asn Arg
1               5                   10


<210> 24481
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.D479Y; A0201

<400> 24481
Leu Leu Tyr Ala Val Gly Gly Phe Tyr Gly
1               5                   10


<210> 24482
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.D479Y; A0101

<400> 24482
Leu Leu Tyr Ala Val Gly Gly Phe Tyr
1               5


<210> 24483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; A1101

<400> 24483
Ala Ile Gly Ile Ala Asn Phe Ala Lys
1               5


<210> 24484
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; A6801

<400> 24484
Asn Ala Ile Gly Ile Ala Asn Phe Ala Lys
1               5                   10


<210> 24485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; A0301

<400> 24485
Ala Ile Gly Ile Ala Asn Phe Ala Lys
1               5


<210> 24486
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; A3101

<400> 24486
Lys Gln Ile Gly Cys Val Glu Leu His Gln Arg

1 5 10

<210> 24487
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; A1101

<400> 24487
Asn Ala Ile Gly Ile Ala Asn Phe Ala Lys
1 5 10

<210> 24488
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; B5101

<400> 24488
Ile Ala Asn Phe Ala Lys Gln Ile
1 5

<210> 24489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; B1501

<400> 24489
Lys Gln Ile Gly Cys Val Glu Leu His
1 5

<210> 24490
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E192K; B1501

<400> 24490
Lys Gln Ile Gly Cys Val Glu Leu
1 5

<210> 24491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E219K; B4403

<400> 24491
Gly Glu Val Ala Lys Gln Glu Lys Phe
1               5


<210> 24492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E219K; B4001

<400> 24492
Gly Glu Val Ala Lys Gln Glu Lys Phe
1               5


<210> 24493
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E219K; B4403

<400> 24493
Gly Glu Val Ala Lys Gln Glu Lys Phe Phe
1               5                   10


<210> 24494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E219K; B4402

<400> 24494
Gly Glu Val Ala Lys Gln Glu Lys Phe
1               5


<210> 24495

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E219K; A2601

<400> 24495
Glu Val Ala Lys Gln Glu Lys Phe Phe
1               5


<210> 24496
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E219K; B4402

<400> 24496
Gly Glu Val Ala Lys Gln Glu Lys Phe Phe
1               5                   10


<210> 24497
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E542Dfs*31; A1101

<400> 24497
Arg Ser Pro His Glu Ala Pro Ala Lys
1               5


<210> 24498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.E542Dfs*31; B0702

<400> 24498
Ser Pro His Glu Ala Pro Ala Lys Cys
1               5


<210> 24499
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G186C; B5101

<400> 24499
Asp Pro Ser Asn Ala Ile Cys Ile
1               5


<210> 24500
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G186C; A0201

<400> 24500
Gln Leu Asp Pro Ser Asn Ala Ile Cys Ile
1               5                   10


<210> 24501
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G186C; B4001

<400> 24501
Gln Leu Asp Pro Ser Asn Ala Ile Cys Ile
1               5                   10


<210> 24502
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G186V; B3501

<400> 24502
Asp Pro Ser Asn Ala Ile Val Ile Ala Asn Phe
1               5                   10


<210> 24503
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G186V; A0201

<400> 24503
Gln Leu Asp Pro Ser Asn Ala Ile Val
1               5


<210> 24504
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G186V; B3501

<400> 24504
Asp Pro Ser Asn Ala Ile Val Ile
1               5


<210> 24505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B3501

<400> 24505
Thr Ala Ala Ala Thr Ser Asp Ser Arg
1               5


<210> 24506
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B4402

<400> 24506
Ala Ala Thr Ser Asp Ser Arg Ser Ala Thr Trp
1               5                   10


<210> 24507
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B3501

<400> 24507
Thr Pro Val Thr Ala Pro Gly Ser Gly Trp
1               5                   10


<210> 24508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; A0101

<400> 24508
Thr Ser Asp Ser Arg Ser Ala Thr Trp
1               5


<210> 24509
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; A0101

<400> 24509
Tyr Thr Ala Ala Ala Thr Ser Asp Ser Arg Ser
1               5                   10


<210> 24510
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B0702

<400> 24510
Thr Pro Ala Pro Trp Thr Val Thr Thr Pro
1               5                   10


<210> 24511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; A1101

<400> 24511

Leu Thr Thr Pro Val Thr Ala Pro Gly
1               5


<210> 24512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B3501

<400> 24512
Thr Ala Thr Pro Thr Pro Ala Pro Trp
1               5


<210> 24513
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B4402

<400> 24513
Ala Thr Ser Asp Ser Arg Ser Ala Thr Trp
1               5                   10


<210> 24514
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B4402

<400> 24514
Ser Asp Ser Arg Ser Ala Thr Trp
1               5


<210> 24515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332Afs*68; B4402

<400> 24515
Thr Ser Asp Ser Arg Ser Ala Thr Trp
1               5

<210> 24516
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G332C; B0801

<400> 24516
Cys Gly Tyr Phe Arg Gln Ser Leu
1               5


<210> 24517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G333C; A2902

<400> 24517
Cys Tyr Phe Arg Gln Ser Leu Ser Tyr
1               5


<210> 24518
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G333C; C1402

<400> 24518
Ile Tyr Thr Ala Gly Cys Tyr Phe
1               5


<210> 24519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G333C; C1402

<400> 24519
Cys Tyr Phe Arg Gln Ser Leu Ser Tyr
1               5

<210> 24520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G333C; A3101

<400> 24520
Ile Tyr Thr Ala Gly Cys Tyr Phe Arg
1               5


<210> 24521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G333C; B1501

<400> 24521
Arg Leu Ile Tyr Thr Ala Gly Cys Tyr
1               5


<210> 24522
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G333C; A2301

<400> 24522
Ile Tyr Thr Ala Gly Cys Tyr Phe
1               5


<210> 24523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A6802

<400> 24523
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24524
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A0205

<400> 24524
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A0201

<400> 24525
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; B1302

<400> 24526
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; B5001

<400> 24527
Cys Val Val Ser Gly Leu Leu Tyr Ala
1               5


<210> 24528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; B1501

<400> 24528
Gly Cys Val Val Ser Gly Leu Leu Tyr
1               5


<210> 24529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; B5001

<400> 24529
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; B1503

<400> 24530
Gly Cys Val Val Ser Gly Leu Leu Tyr
1               5


<210> 24531
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A6802

<400> 24531
Cys Val Val Ser Gly Leu Leu Tyr Ala Val
1               5                   10


<210> 24532
<211> 9
<212> PRT
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<220>

<223> AACR GENIE Results; KEAP1_p.G371S; C1502

<400> 24532
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24533
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; B2702

<400> 24533
Ser Gly Leu Leu Tyr Ala Val Gly Gly Arg
1               5                   10


<210> 24534
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; B5801

<400> 24534
Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A3101

<400> 24535
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A0205

<400> 24536
Cys Val Val Ser Gly Leu Leu Tyr Ala
1               5


<210> 24537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A2902

<400> 24537
Gly Cys Val Val Ser Gly Leu Leu Tyr
1               5


<210> 24538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G371S; A3001

<400> 24538
Val Val Ser Gly Leu Leu Tyr Ala Val
1               5


<210> 24539
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G417V; B3501

<400> 24539
Ile Val Val Gly Val Ile Asp Gly His Ile Tyr
1               5                   10


<210> 24540
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G417V; B0702

<400> 24540
Val Pro Arg Asn Arg Ile Val Val Gly Val

1 5 10

<210> 24541
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G429V; B5101

<400> 24541
Asp Gly His Ile Tyr Ala Val Val
1 5

<210> 24542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G429V; A0301

<400> 24542
His Ile Tyr Ala Val Val Gly Ser His
1 5

<210> 24543
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.G430C; A0301

<400> 24543
His Ile Tyr Ala Val Gly Cys Ser His
1 5

<210> 24544
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; C0401

<400> 24544
Gly Phe Asp Val Thr Asn Arg Leu
1 5

<210> 24545
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; A1101

<400> 24545
Ala Val Gly Gly Phe Asp Val Thr Asn Arg
1               5                   10


<210> 24546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; B0801

<400> 24546
Asp Val Thr Asn Arg Leu Asn Ser Ala
1               5


<210> 24547
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; A0201

<400> 24547
Leu Leu Tyr Ala Val Gly Gly Phe Asp Val
1               5                   10


<210> 24548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; B4001

<400> 24548
Gly Gly Phe Asp Val Thr Asn Arg Leu
1               5


<210> 24549

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; C0303

<400> 24549
Tyr Ala Val Gly Gly Phe Asp Val
1               5


<210> 24550
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; C0304

<400> 24550
Tyr Ala Val Gly Gly Phe Asp Val
1               5


<210> 24551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; B3501

<400> 24551
Tyr Ala Val Gly Gly Phe Asp Val Thr
1               5


<210> 24552
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; A0201

<400> 24552
Tyr Ala Val Gly Gly Phe Asp Val Thr Asn
1               5                   10


<210> 24553
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480V; B3501

<400> 24553
Tyr Ala Val Gly Gly Phe Asp Val
1               5


<210> 24554
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480W; A3101

<400> 24554
Ala Val Gly Gly Phe Asp Trp Thr Asn Arg
1               5                   10


<210> 24555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480W; B5701

<400> 24555
Leu Leu Tyr Ala Val Gly Gly Phe Asp Trp
1               5                   10


<210> 24556
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480W; B5701

<400> 24556
Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 24557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480W; A2402

<400> 24557
Leu Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 24558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480W; A2301

<400> 24558
Leu Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 24559
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G480W; C1601

<400> 24559
Tyr Ala Val Gly Gly Phe Asp Trp
1               5


<210> 24560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G509W; B3501

<400> 24560
Thr Ala Met Asn Thr Ile Arg Ser Trp
1               5


<210> 24561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G511S; B0702

<400> 24561
Thr Ile Arg Ser Gly Ala Ser Val Cys
1               5


<210> 24562
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G511S; A0301

<400> 24562
Thr Ile Arg Ser Gly Ala Ser Val Cys Val Leu
1               5                   10


<210> 24563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G511S; C0304

<400> 24563
Asn Thr Ile Arg Ser Gly Ala Ser Val
1               5


<210> 24564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G511S; A2601

<400> 24564
Asn Thr Ile Arg Ser Gly Ala Ser Val
1               5


<210> 24565
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; B5101

<400> 24565

Tyr Ala Ala Gly Ala Met Met Val
1 5

<210> 24566
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; C1203

<400> 24566
Tyr Ala Ala Gly Ala Met Met Val
1 5

<210> 24567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; A2402

<400> 24567
Ile Tyr Ala Ala Gly Ala Met Met Val
1 5

<210> 24568
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; A1101

<400> 24568
Ala Ala Gly Ala Met Met Val Arg
1 5

<210> 24569
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; B1501

<400> 24569
Gly Ala Met Met Val Arg Thr Ser
1 5

<210> 24570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; A1101

<400> 24570
Tyr Ala Ala Gly Ala Met Met Val Arg
1               5


<210> 24571
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; B3501

<400> 24571
Tyr Ala Ala Gly Ala Met Met Val
1               5


<210> 24572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G524Afs*8; B3501

<400> 24572
Tyr Ala Ala Gly Ala Met Met Val Arg
1               5


<210> 24573
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G558R; B1501

<400> 24573
Ser Ala Leu Arg Ile Thr Val His
1               5

<210> 24574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G558R; C0602

<400> 24574
Arg Arg Ser Ala Leu Arg Ile Thr Val
1               5


<210> 24575
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G558W; A3101

<400> 24575
Ser Ala Leu Trp Ile Thr Val His Gln Gly Arg
1               5                   10


<210> 24576
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; B3501

<400> 24576
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; B1501

<400> 24577
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24578
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; A2601

<400> 24578
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; C0304

<400> 24579
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; C0202

<400> 24580
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; C0303

<400> 24581
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24582
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; A1101

<400> 24582
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24583
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.G603V; B0702

<400> 24583
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24584
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; B0702

<400> 24584
Ser Gly Arg Ser Val Val Gly Val Ala Val
1               5                   10


<210> 24585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603V; C1203

<400> 24585
Ser Val Val Gly Val Ala Val Thr Met
1               5


<210> 24586
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KEAP1_p.G603V; C0602

<400> 24586
Gly Arg Ser Val Val Gly Val Ala Val
1               5


<210> 24587
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.G603V; B3501

<400> 24587
Val Val Gly Val Ala Val Thr Met
1               5


<210> 24588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603W; B3501

<400> 24588
Ser Trp Val Gly Val Ala Val Thr Met
1               5


<210> 24589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.G603W; C0602

<400> 24589
Gly Arg Ser Trp Val Gly Val Ala Val
1               5


<210> 24590
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.H311R; B0702

<400> 24590
Thr Leu Arg Lys Pro Thr Gln Val Met
1               5


<210> 24591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.H311R; B1501

<400> 24591
Thr Leu Arg Lys Pro Thr Gln Val Met
1               5


<210> 24592
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.H311R; A0301

<400> 24592
Lys Ile Phe Glu Glu Leu Thr Leu Arg Lys
1               5                   10


<210> 24593
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L237V; A6801

<400> 24593
Thr Leu Ile Ser Arg Asp Asp Val Asn Val Arg
1               5                   10


<210> 24594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L237V; A6801

<400> 24594
Ile Ser Arg Asp Asp Val Asn Val Arg

1 5

<210> 24595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L237V; B5701

<400> 24595
Ile Ser Arg Asp Asp Val Asn Val Arg
1 5

<210> 24596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L281M; B0702

<400> 24596
Thr Pro Asn Phe Met Gln Met Gln Leu
1 5

<210> 24597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L281M; B3501

<400> 24597
Thr Pro Asn Phe Met Gln Met Gln Leu
1 5

<210> 24598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L281M; B1501

<400> 24598
Ser Leu Thr Pro Asn Phe Met Gln Met
1 5

<210> 24599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; B4001

<400> 24599
Asn Glu Pro Arg Leu Ser Gln Gln Leu
1               5


<210> 24600
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; B0702

<400> 24600
Glu Pro Arg Leu Ser Gln Gln Leu
1               5


<210> 24601
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; A6801

<400> 24601
Gln Ala Phe Gly Ile Met Asn Glu Pro Arg
1               5                   10


<210> 24602
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; A0201

<400> 24602
Ile Met Asn Glu Pro Arg Leu Ser Gln Gln Leu
1               5                   10


<210> 24603

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; C0304

<400> 24603
Phe Gly Ile Met Asn Glu Pro Arg Leu
1               5


<210> 24604
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; B1501

<400> 24604
Ile Met Asn Glu Pro Arg Leu Ser Gln Gln Leu
1               5                   10


<210> 24605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; B1801

<400> 24605
Asn Glu Pro Arg Leu Ser Gln Gln Leu
1               5


<210> 24606
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; B0801

<400> 24606
Glu Pro Arg Leu Ser Gln Gln Leu
1               5


<210> 24607
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; A0201

<400> 24607
Phe Gly Ile Met Asn Glu Pro Arg Leu
1               5


<210> 24608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.L70P; B4403

<400> 24608
Asn Glu Pro Arg Leu Ser Gln Gln Leu
1               5


<210> 24609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M161I; B3501

<400> 24609
His Val Met Asn Gly Ala Val Ile Tyr
1               5


<210> 24610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M161I; A0201

<400> 24610
Ala Val Ile Tyr Gln Ile Asp Ser Val
1               5


<210> 24611
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M161I; A1101

<400> 24611
Ala Val Ile Tyr Gln Ile Asp Ser Val Val Arg
1               5                   10


<210> 24612
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M161I; A1101

<400> 24612
Val Ile Tyr Gln Ile Asp Ser Val Val Arg
1               5                   10


<210> 24613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M610I; B5101

<400> 24613
Ser Gly Val Gly Val Ala Val Thr Ile
1               5


<210> 24614
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M610I; A1101

<400> 24614
Val Thr Ile Glu Pro Cys Arg Lys
1               5


<210> 24615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M610I; A1101

<400> 24615
Ala Val Thr Ile Glu Pro Cys Arg Lys
1               5


<210> 24616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C1203

<400> 24616
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B3501

<400> 24617
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C0202

<400> 24618
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C0304

<400> 24619

Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C0303

<400> 24620
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; A6801

<400> 24621
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B5101

<400> 24622
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C0602

<400> 24623
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5

<210> 24624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B1501

<400> 24624
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24625
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B1501

<400> 24625
Lys Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5                   10


<210> 24626
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C1601

<400> 24626
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24627
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; A6801

<400> 24627
Gln Ala Phe Gly Ile Val Asn Glu Leu Arg
1               5                   10

<210> 24628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B0702

<400> 24628
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B5701

<400> 24629
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24630
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C0303

<400> 24630
Phe Gly Ile Val Asn Glu Leu Arg Leu
1               5


<210> 24631
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.M67V; C0304

<400> 24631
Phe Gly Ile Val Asn Glu Leu Arg Leu
1               5


<210> 24632
<211> 11

<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B0702

<400> 24632
Ile Val Asn Glu Leu Arg Leu Ser Gln Gln Leu
1               5                   10


<210> 24633
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; B1402

<400> 24633
Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.M67V; A2601

<400> 24634
Gln Ala Phe Gly Ile Val Asn Glu Leu
1               5


<210> 24635
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.N414Y; B3501

<400> 24635
Ala Pro Met Ser Val Pro Arg Tyr
1               5


<210> 24636
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.N414Y; B0702

<400> 24636
Ala Pro Met Ser Val Pro Arg Tyr
1               5


<210> 24637
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KEAP1_p.P361L; B0801

<400> 24637
Asp Leu Gln Val Leu Arg Ser Gly Leu
1               5


<210> 24638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.P361L; A0301

<400> 24638
Arg Leu Ala Asp Leu Gln Val Leu Arg
1               5


<210> 24639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.P361L; A1101

<400> 24639
Arg Leu Ala Asp Leu Gln Val Leu Arg
1               5


<210> 24640
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KEAP1_p.R261W; C0602

<400> 24640
Gln Arg Trp Phe Tyr Val Gln Ala Leu
1               5


<210> 24641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R272L; B1402

<400> 24641
Val Gln Ala Leu Leu Arg Ala Val Leu
1               5


<210> 24642
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R272L; B1501

<400> 24642
Val Gln Ala Leu Leu Arg Ala Val Leu
1               5


<210> 24643
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R272L; B0801

<400> 24643
Gln Ala Leu Leu Arg Ala Val Leu
1               5


<210> 24644
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R272L; B1402

<400> 24644
Gln Ala Leu Leu Arg Ala Val Leu
1               5


<210> 24645
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R272L; B1402

<400> 24645
Leu Arg Ala Val Leu Cys His Ser Leu
1               5


<210> 24646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R272L; A0301

<400> 24646
Ala Leu Leu Arg Ala Val Leu Cys His
1               5


<210> 24647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R272L; B1302

<400> 24647
Val Gln Ala Leu Leu Arg Ala Val Leu
1               5


<210> 24648
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R320L; B5101

<400> 24648
Met Pro Cys Leu Ala Pro Lys Val

1 5

<210> 24649
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R320L; B0702

<400> 24649
Lys Pro Thr Gln Val Met Pro Cys Leu
1 5

<210> 24650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R320L; A1101

<400> 24650
Gln Val Met Pro Cys Leu Ala Pro Lys
1 5

<210> 24651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R320L; A0301

<400> 24651
Gln Val Met Pro Cys Leu Ala Pro Lys
1 5

<210> 24652
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R362Q; B1501

<400> 24652
Leu Gln Val Pro Gln Ser Gly Leu
1 5

<210> 24653
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R362Q; C0802

<400> 24653
Leu Ala Asp Leu Gln Val Pro Gln Ser Gly Leu
1               5                   10


<210> 24654
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R362Q; B0801

<400> 24654
Asp Leu Gln Val Pro Gln Ser Gly Leu
1               5


<210> 24655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B3501

<400> 24655
Thr Ala Ala Ser Thr Thr Thr Val Trp
1               5


<210> 24656
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; A0201

<400> 24656
Ser Met Ala Thr Ser Met Pro Ser Ala
1               5


<210> 24657

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B3501

<400> 24657
Met Pro Ser Ala Ala Pro Thr Ala Ala
1               5


<210> 24658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; C1203

<400> 24658
Thr Ala Ala Ser Thr Thr Thr Val Trp
1               5


<210> 24659
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B3501

<400> 24659
Ala Pro Thr Ala Ala Ser Thr Thr Thr Val Trp
1               5                   10


<210> 24660
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; A0201

<400> 24660
Ser Met Pro Ser Ala Ala Pro Thr Ala Ala
1               5                   10


<210> 24661
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B1501

<400> 24661
Thr Ala Ala Ser Thr Thr Thr Val Trp
1               5


<210> 24662
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B5101

<400> 24662
Thr Ala Ala Ser Thr Thr Thr Val
1               5


<210> 24663
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B0702

<400> 24663
Ala Pro Thr Ala Ala Ser Thr Thr Thr Val
1               5                   10


<210> 24664
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B3501

<400> 24664
Met Pro Ser Ala Ala Pro Thr Ala
1               5


<210> 24665
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B5101

<400> 24665
Met Pro Ser Ala Ala Pro Thr Ala
1               5


<210> 24666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B3501

<400> 24666
Thr Ala Ser Gly Trp Gly Ser Ser Met
1               5


<210> 24667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; C1601

<400> 24667
Ser Thr Thr Thr Val Trp Arg Gly Met
1               5


<210> 24668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B0702

<400> 24668
Met Pro Ser Ala Ala Pro Thr Ala Ala
1               5


<210> 24669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; A0201

<400> 24669
Ser Met Pro Ser Ala Ala Pro Thr Ala
1               5


<210> 24670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; A3201

<400> 24670
Ser Gln Ser Gly Met Ser Gly Thr Trp
1               5


<210> 24671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B1501

<400> 24671
Ser Gln Ser Gly Met Ser Gly Thr Trp
1               5


<210> 24672
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B0801

<400> 24672
Thr Ser Met Pro Ser Ala Ala Pro Thr Ala Ala
1               5                   10


<210> 24673
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; A1101

<400> 24673

Ala Thr Ser Met Pro Ser Ala Ala Pro Thr Ala
1 5 10

<210> 24674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; C0102

<400> 24674
Ser Met Pro Ser Ala Ala Pro Thr Ala
1 5

<210> 24675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; C0304

<400> 24675
Thr Ala Ser Gly Trp Gly Ser Ser Met
1 5

<210> 24676
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B3501

<400> 24676
Ser Gly Trp Gly Ser Ser Met Ala Thr Ser Met
1 5 10

<210> 24677
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B0702

<400> 24677
Ala Pro Thr Ala Ala Ser Thr Thr Thr Val Trp
1 5 10

<210> 24678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B0702

<400> 24678
Ala Pro Thr Ala Ala Ser Thr Thr Thr
1               5


<210> 24679
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R413Vfs*45; B5101

<400> 24679
Met Ala Thr Ser Met Pro Ser Ala
1               5


<210> 24680
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B0702

<400> 24680
Ala Pro Met Ser Val Pro Arg Asn Gly Ile
1               5                   10


<210> 24681
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B0702

<400> 24681
Val Pro Arg Asn Gly Ile Gly Val Gly Val
1               5                   10

<210> 24682
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B0702

<400> 24682
Val Pro Arg Asn Gly Ile Gly Val
1               5


<210> 24683
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B5101

<400> 24683
Val Pro Arg Asn Gly Ile Gly Val
1               5


<210> 24684
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B0702

<400> 24684
Val Pro Arg Asn Gly Ile Gly Val Gly Val Ile
1               5                   10


<210> 24685
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B5101

<400> 24685
Val Pro Arg Asn Gly Ile Gly Val Gly Val
1               5                   10


<210> 24686
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B5101

<400> 24686
Asn Gly Ile Gly Val Gly Val Ile
1               5


<210> 24687
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415G; B5101

<400> 24687
Val Pro Arg Asn Gly Ile Gly Val Gly Val Ile
1               5                   10


<210> 24688
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415H; B0702

<400> 24688
Ala Pro Met Ser Val Pro Arg Asn His Ile
1               5                   10


<210> 24689
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415H; B0702

<400> 24689
Val Pro Arg Asn His Ile Gly Val Gly Val
1               5                   10


<210> 24690
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415H; B5101

<400> 24690
Val Pro Arg Asn His Ile Gly Val
1               5


<210> 24691
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R415H; B0702

<400> 24691
Val Pro Arg Asn His Ile Gly Val
1               5


<210> 24692
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R536P; B4403

<400> 24692
Val Glu Pro Tyr Asp Val Glu Thr Glu Thr Trp
1               5                   10


<210> 24693
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R536P; B3501

<400> 24693
Glu Pro Tyr Asp Val Glu Thr Glu Thr Trp
1               5                   10


<210> 24694
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KEAP1_p.R536P; B4402

<400> 24694
Val Glu Pro Tyr Asp Val Glu Thr Glu Thr Trp
1               5                   10


<210> 24695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A0201

<400> 24695
Gly Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B1302

<400> 24696
Gly Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A2601

<400> 24697
Glu Val Thr Arg Met Thr Ser Gly Leu
1               5


<210> 24698
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B4001

<400> 24698
Ser Glu Val Thr Arg Met Thr Ser Gly Leu
1               5                   10


<210> 24699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B1501

<400> 24699
Gly Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24700
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A6801

<400> 24700
Met Thr Ser Gly Leu Ser Gly Val Gly Val
1               5                   10


<210> 24701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A6801

<400> 24701
Glu Val Thr Arg Met Thr Ser Gly Leu
1               5


<210> 24702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B3801

<400> 24702
Gly Leu Ser Gly Val Gly Val Ala Val

1 5

<210> 24703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A0201

<400> 24703
Arg Met Thr Ser Gly Leu Ser Gly Val
1 5

<210> 24704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A3001

<400> 24704
Gly Leu Ser Gly Val Gly Val Ala Val
1 5

<210> 24705
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A3001

<400> 24705
Ser Gly Leu Ser Gly Val Gly Val Ala Val
1 5 10

<210> 24706
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A0201

<400> 24706
Ser Gly Leu Ser Gly Val Gly Val Ala Val
1 5 10

<210> 24707
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A6801

<400> 24707
Met Thr Ser Gly Leu Ser Gly Val Gly Val Ala
1               5                   10


<210> 24708
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; C1502

<400> 24708
Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B2705

<400> 24709
Gly Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24710
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; C0304

<400> 24710
Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24711

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B1302

<400> 24711
Ser Gly Leu Ser Gly Val Gly Val Ala Val
1               5                   10


<210> 24712
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B1302

<400> 24712
Met Thr Ser Gly Leu Ser Gly Val Gly Val
1               5                   10


<210> 24713
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; C1203

<400> 24713
Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24714
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A3001

<400> 24714
Val Thr Arg Met Thr Ser Gly Leu
1               5


<210> 24715
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; C1601

<400> 24715
Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24716
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B0702

<400> 24716
Val Thr Arg Met Thr Ser Gly Leu
1               5


<210> 24717
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; B1501

<400> 24717
Val Thr Arg Met Thr Ser Gly Leu
1               5


<210> 24718
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; A1101

<400> 24718
Ser Gly Leu Ser Gly Val Gly Val Ala Val
1               5                   10


<210> 24719
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R601L; C0303

<400> 24719
Leu Ser Gly Val Gly Val Ala Val
1               5


<210> 24720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R71L; B1801

<400> 24720
Asn Glu Leu Leu Leu Ser Gln Gln Leu
1               5


<210> 24721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R71L; B4001

<400> 24721
Asn Glu Leu Leu Leu Ser Gln Gln Leu
1               5


<210> 24722
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R71L; B4403

<400> 24722
Asn Glu Leu Leu Leu Ser Gln Gln Leu
1               5


<210> 24723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R71L; A0201

<400> 24723
Leu Leu Ser Gln Gln Leu Cys Asp Val
1               5


<210> 24724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R71L; B4402

<400> 24724
Asn Glu Leu Leu Leu Ser Gln Gln Leu
1               5


<210> 24725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.R71L; A0201

<400> 24725
Leu Leu Leu Ser Gln Gln Leu Cys Asp Val
1               5                   10


<210> 24726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.T142M; C0304

<400> 24726
Phe Ala Tyr Met Ala Ser Ile Ser Met
1               5


<210> 24727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.T142M; B3501

<400> 24727

Phe Ala Tyr Met Ala Ser Ile Ser Met
1               5


<210> 24728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.T142M; C1203

<400> 24728
Phe Ala Tyr Met Ala Ser Ile Ser Met
1               5


<210> 24729
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.T142M; A0301

<400> 24729
Tyr Met Ala Ser Ile Ser Met Gly Glu Lys
1               5                   10


<210> 24730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.T142M; A0301

<400> 24730
Met Ala Ser Ile Ser Met Gly Glu Lys
1               5


<210> 24731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.T142M; A1101

<400> 24731
Met Ala Ser Ile Ser Met Gly Glu Lys
1               5

<210> 24732
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V155F; B1501

<400> 24732
Phe Met Asn Gly Ala Val Met Tyr
1               5


<210> 24733
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V155F; B3501

<400> 24733
Phe Met Asn Gly Ala Val Met Tyr
1               5


<210> 24734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V168F; B1501

<400> 24734
Val Met Tyr Gln Ile Asp Ser Val Phe
1               5


<210> 24735
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V168F; A0201

<400> 24735
Tyr Gln Ile Asp Ser Val Phe Arg Ala
1               5

<210> 24736
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V168F; B1501

<400> 24736
Ala Val Met Tyr Gln Ile Asp Ser Val Phe
1               5                   10


<210> 24737
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V168F; A1101

<400> 24737
Ala Val Met Tyr Gln Ile Asp Ser Val Phe Arg
1               5                   10


<210> 24738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V168F; B1501

<400> 24738
Tyr Gln Ile Asp Ser Val Phe Arg Ala
1               5


<210> 24739
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V168F; A1101

<400> 24739
Val Met Tyr Gln Ile Asp Ser Val Phe Arg
1               5                   10


<210> 24740
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; C1402

<400> 24740
Phe Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5                   10


<210> 24741
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; C0303

<400> 24741
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24742
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; B1501

<400> 24742
Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24743
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; B1402

<400> 24743
Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24744
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; C0304

<400> 24744
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; B0801

<400> 24745
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24746
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; C0102

<400> 24746
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24747
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; B0702

<400> 24747
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24748
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KEAP1_p.V271L; C1402

<400> 24748
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; A6802

<400> 24749
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24750
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; A0301

<400> 24750
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V271L; C1502

<400> 24751
Tyr Val Gln Ala Leu Leu Arg Ala Leu
1               5


<210> 24752
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.V568F; A2402

<400> 24752
Tyr Phe Leu Gly Gly Tyr Asp Gly His Thr Phe
1               5                   10


<210> 24753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.W252L; B3501

<400> 24753
His Ala Cys Ile Asn Leu Val Lys Tyr
1               5


<210> 24754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.Y162C; A0201

<400> 24754
Ala Val Met Cys Gln Ile Asp Ser Val
1               5


<210> 24755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.Y162C; A0201

<400> 24755
Cys Gln Ile Asp Ser Val Val Arg Ala
1               5


<210> 24756
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KEAP1_p.Y162C; B1501

<400> 24756
Cys Gln Ile Asp Ser Val Val Arg Ala

1 5

<210> 24757
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.G265S; B4002

<400> 24757
Ser Asp Phe Asn Tyr Glu Arg Gln Ala Thr Leu
1 5 10

<210> 24758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.G265S; B5001

<400> 24758
Ser Asp Phe Asn Tyr Glu Arg Gln Ala
1 5

<210> 24759
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.G265S; A6802

<400> 24759
His His Ser Asp Phe Asn Tyr Glu Arg
1 5

<210> 24760
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.G265S; A3303

<400> 24760
His Ser Asp Phe Asn Tyr Glu Arg
1 5

<210> 24761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A2901

<400> 24761
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24762
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A0101

<400> 24762
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24763
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A2902

<400> 24763
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24764
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A2901

<400> 24764
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24765

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; C0302

<400> 24765
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; B3901

<400> 24766
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24767
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A3002

<400> 24767
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24768
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; B3508

<400> 24768
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24769
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; C1402

<400> 24769
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24770
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; B1502

<400> 24770
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; B3501

<400> 24771
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24772
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; B5801

<400> 24772
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A2902

<400> 24773
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24774
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A0207

<400> 24774
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24775
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A2301

<400> 24775
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24776
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A1101

<400> 24776
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24777
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A2601

<400> 24777
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24778
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; B4601

<400> 24778
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24779
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A0201

<400> 24779
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; C0801

<400> 24780
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24781
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; B2702

<400> 24781

Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1 5

<210> 24782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A3303

<400> 24782
Val Tyr Ile Asp Pro Thr Gln Pro Pro
1 5

<210> 24783
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A2901

<400> 24783
Tyr Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1 5 10

<210> 24784
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A2901

<400> 24784
Val Tyr Ile Asp Pro Thr Gln Pro Pro
1 5

<210> 24785
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; B1501

<400> 24785
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1 5

<210> 24786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; B3502

<400> 24786
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24787
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; B1503

<400> 24787
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24788
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; B2702

<400> 24788
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24789
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A6801

<400> 24789
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5

<210> 24790
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A0301

<400> 24790
Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5


<210> 24791
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A2902

<400> 24791
Tyr Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24792
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KIT_p.L576P; A2402

<400> 24792
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24793
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KIT_p.L576P; A1101

<400> 24793
Val Tyr Ile Asp Pro Thr Gln Pro Pro Tyr
1               5                   10


<210> 24794
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KMT2D_p.L3723_Q3724dup; B1501

<400> 24794
Gln Gln Gln Gln Gln Gln Val Gln Leu
1               5


<210> 24795
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KMT2D_p.R1918H; B5501

<400> 24795
Tyr Pro Leu Glu Pro His Phe Pro Thr Ala
1               5                   10


<210> 24796
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146T; B2702

<400> 24796
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr Arg
1               5                   10


<210> 24797
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146T; B2702

<400> 24797
Gly Ile Pro Phe Ile Glu Thr Ser Thr Lys
1               5                   10


<210> 24798
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146T; A6801

<400> 24798
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr Arg
1               5                   10


<210> 24799
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146T; B5502

<400> 24799
Ile Pro Phe Ile Glu Thr Ser Thr
1               5


<210> 24800
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146T; B5502

<400> 24800
Ile Pro Phe Ile Glu Thr Ser Thr Lys Thr
1               5                   10


<210> 24801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146T; B5101

<400> 24801
Ile Pro Phe Ile Glu Thr Ser Thr Lys
1               5


<210> 24802
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.A146V; B5101

<400> 24802
Ile Pro Phe Ile Glu Thr Ser Val
1               5


<210> 24803
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; B3906

<400> 24803
Ile Pro Phe Ile Glu Thr Ser Val
1               5


<210> 24804
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; B5501

<400> 24804
Ile Pro Phe Ile Glu Thr Ser Val
1               5


<210> 24805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; A0206

<400> 24805
Gly Ile Pro Phe Ile Glu Thr Ser Val
1               5


<210> 24806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; B1302

<400> 24806
Gly Ile Pro Phe Ile Glu Thr Ser Val
1               5


<210> 24807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; A0205

<400> 24807
Gly Ile Pro Phe Ile Glu Thr Ser Val
1               5


<210> 24808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; A6801

<400> 24808
Phe Ile Glu Thr Ser Val Lys Thr Arg
1               5


<210> 24809
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; A6801

<400> 24809
Ile Pro Phe Ile Glu Thr Ser Val Lys Thr Arg
1               5                   10


<210> 24810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; A6802

<400> 24810
Gly Ile Pro Phe Ile Glu Thr Ser Val

1 5

<210> 24811
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; B2702

<400> 24811
Ile Pro Phe Ile Glu Thr Ser Val Lys Thr Arg
1 5 10

<210> 24812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; A0201

<400> 24812
Gly Ile Pro Phe Ile Glu Thr Ser Val
1 5

<210> 24813
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A146V; B2702

<400> 24813
Gly Ile Pro Phe Ile Glu Thr Ser Val Lys
1 5 10

<210> 24814
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; A0101

<400> 24814
Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1 5 10

<210> 24815
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B5801

<400> 24815
Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24816
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B1501

<400> 24816
Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3502

<400> 24817
Thr Gly Gln Glu Glu Tyr Ser Ala Met
1               5


<210> 24818
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B2702

<400> 24818
Asp Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24819

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; A3301

<400> 24819
Asp Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24820
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3501

<400> 24820
Asp Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24821
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3901

<400> 24821
Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24822
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.A59T; A2902

<400> 24822
Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24823
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3503

<400> 24823
Thr Gly Gln Glu Glu Tyr Ser Ala Met
1               5


<210> 24824
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3501

<400> 24824
Thr Gly Gln Glu Glu Tyr Ser Ala Met
1               5


<210> 24825
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3501

<400> 24825
Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24826
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.A59T; B2702

<400> 24826
Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24827
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; A2601

<400> 24827
Asp Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24828
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; A6801

<400> 24828
Thr Thr Gly Gln Glu Glu Tyr Ser Ala Met Arg
1               5                   10


<210> 24829
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3501

<400> 24829
Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5


<210> 24830
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; A0101

<400> 24830
Asp Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24831
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.A59T; A0101

<400> 24831
Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5


<210> 24832
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.A59T; A6801

<400> 24832
Asp Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24833
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B1801

<400> 24833
Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5


<210> 24834
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3901

<400> 24834
Asp Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3801

<400> 24835

Ile Leu Asp Thr Thr Gly Gln Glu Glu Tyr
1               5                   10


<210> 24836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.A59T; B3901

<400> 24836
Thr Gly Gln Glu Glu Tyr Ser Ala Met
1               5


<210> 24837
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B1801

<400> 24837
Asp Glu Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5                   10


<210> 24838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; C0802

<400> 24838
Phe Val Asp Glu Tyr Glu Pro Thr Ile
1               5


<210> 24839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; C0501

<400> 24839
Phe Val Asp Glu Tyr Glu Pro Thr Ile
1               5

<210> 24840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B3801

<400> 24840
Phe Val Asp Glu Tyr Glu Pro Thr Ile
1               5


<210> 24841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; A0201

<400> 24841
Phe Val Asp Glu Tyr Glu Pro Thr Ile
1               5


<210> 24842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B1801

<400> 24842
Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5


<210> 24843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B5101

<400> 24843
Phe Val Asp Glu Tyr Glu Pro Thr Ile
1               5

<210> 24844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B1302

<400> 24844
Phe Val Asp Glu Tyr Glu Pro Thr Ile
1               5


<210> 24845
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B3501

<400> 24845
Glu Pro Thr Ile Glu Asp Ser Tyr
1               5


<210> 24846
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B4403

<400> 24846
Asp Glu Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5                   10


<210> 24847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B4403

<400> 24847
Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5


<210> 24848
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B3501

<400> 24848
Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5


<210> 24849
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; A2902

<400> 24849
Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5


<210> 24850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B1501

<400> 24850
Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5


<210> 24851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; A2301

<400> 24851
Tyr Glu Pro Thr Ile Glu Asp Ser Tyr
1               5


<210> 24852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.D33E; B3501

<400> 24852
Phe Val Asp Glu Tyr Glu Pro Thr Ile
1               5


<210> 24853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0302

<400> 24853
Val Val Gly Ala Ala Gly Val Gly Lys
1               5


<210> 24854
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A1101

<400> 24854
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24855
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0302

<400> 24855
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24856
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.G12A; A1101

<400> 24856
Val Val Gly Ala Ala Gly Val Gly Lys
1               5


<210> 24857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0301

<400> 24857
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0301

<400> 24858
Val Val Gly Ala Ala Gly Val Gly Lys
1               5


<210> 24859
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A6801

<400> 24859
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24860
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B2702

<400> 24860
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B0702

<400> 24861
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24862
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; C0102

<400> 24862
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24863
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B4801

<400> 24863
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24864
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0302

<400> 24864
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys

1 5 10

<210> 24865
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B1302

<400> 24865
Ala Gly Val Gly Lys Ser Ala Leu Thr Ile
1 5 10

<210> 24866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0206

<400> 24866
Leu Val Val Val Gly Ala Ala Gly Val
1 5

<210> 24867
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A1101

<400> 24867
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1 5 10

<210> 24868
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B0801

<400> 24868
Ala Gly Val Gly Lys Ser Ala Leu
1 5

<210> 24869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B0702

<400> 24869
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24870
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A6801

<400> 24870
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B4001

<400> 24871
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24872
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B5001

<400> 24872
Thr Glu Tyr Lys Leu Val Val Val Gly Ala Ala
1               5                   10


<210> 24873

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B2702

<400> 24873
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24874
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0301

<400> 24874
Leu Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A6801

<400> 24875
Val Val Gly Ala Ala Gly Val Gly Lys
1               5


<210> 24876
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B0801

<400> 24876
Val Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24877
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B1501

<400> 24877
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24878
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; C0704

<400> 24878
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 24879
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; C0304

<400> 24879
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24880
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B4102

<400> 24880
Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; C0304

<400> 24881
Gly Ala Ala Gly Val Gly Lys Ser Ala
1               5


<210> 24882
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; C0304

<400> 24882
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24883
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A2601

<400> 24883
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 24884
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B3906

<400> 24884
Tyr Lys Leu Val Val Val Gly Ala Ala
1               5


<210> 24885
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A3001

<400> 24885
Val Val Val Gly Ala Ala Gly Val Gly Lys
1               5                   10


<210> 24886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0203

<400> 24886
Lys Leu Val Val Val Gly Ala Ala Gly Val
1               5                   10


<210> 24887
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A1101

<400> 24887
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 24888
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0206

<400> 24888
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 24889
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12A; C0801

<400> 24889

Ala Ala Gly Val Gly Lys Ser Ala Leu
1 5

<210> 24890
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B0702

<400> 24890
Ala Gly Val Gly Lys Ser Ala Leu
1 5

<210> 24891
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B1302

<400> 24891
Val Val Val Gly Ala Ala Gly Val
1 5

<210> 24892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B0801

<400> 24892
Ala Ala Gly Val Gly Lys Ser Ala Leu
1 5

<210> 24893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0205

<400> 24893
Leu Val Val Val Gly Ala Ala Gly Val
1 5

<210> 24894
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; A0201

<400> 24894
Lys Leu Val Val Val Gly Ala Ala Gly Val
1               5                   10


<210> 24895
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B4801

<400> 24895
Val Val Val Gly Ala Ala Gly Val Gly Lys Ser
1               5                   10


<210> 24896
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; C0102

<400> 24896
Gly Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; C1601

<400> 24897
Ala Ala Gly Val Gly Lys Ser Ala Leu
1               5

<210> 24898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12A; B2702

<400> 24898
Val Val Gly Ala Ala Gly Val Gly Lys
1               5


<210> 24899
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A1101

<400> 24899
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 24900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A0302

<400> 24900
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 24901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A0302

<400> 24901
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 24902
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A1101

<400> 24902
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 24903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A0301

<400> 24903
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 24904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A0301

<400> 24904
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 24905
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A6801

<400> 24905
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 24906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; C0102

<400> 24906
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24907
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A0302

<400> 24907
Leu Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 24908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; A0206

<400> 24908
Leu Val Val Val Gly Ala Cys Gly Val
1               5


<210> 24909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; B0702

<400> 24909
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24910
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.G12C; B2702

<400> 24910
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 24911
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; B0702

<400> 24911
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24912
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12C; B0801

<400> 24912
Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24913
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B1402

<400> 24913
Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24914
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A1101

<400> 24914
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 24915
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0302

<400> 24915
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 24916
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; C0802

<400> 24916
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24917
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; B0801

<400> 24917
Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24918
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0302

<400> 24918
Val Val Gly Ala Asp Gly Val Gly Lys

1 5

<210> 24919
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B2702

<400> 24919
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1 5 10

<210> 24920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A1101

<400> 24920
Val Val Gly Ala Asp Gly Val Gly Lys
1 5

<210> 24921
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; A6801

<400> 24921
Val Val Val Gly Ala Asp Gly Val Gly Lys
1 5 10

<210> 24922
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; B4801

<400> 24922
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1 5 10

<210> 24923
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B1401

<400> 24923
Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B3701

<400> 24924
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24925
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B0702

<400> 24925
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24926
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; C0803

<400> 24926
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 24927

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B5101

<400> 24927
Asp Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 24928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B4102

<400> 24928
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24929
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B4001

<400> 24929
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24930
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B0801

<400> 24930
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24931
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B3502

<400> 24931
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24932
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B1513

<400> 24932
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24933
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B2702

<400> 24933
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 24934
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0206

<400> 24934
Leu Val Val Val Gly Ala Asp Gly Val
1               5


<210> 24935
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0302

<400> 24935
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 24936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B4801

<400> 24936
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B4002

<400> 24937
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24938
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0301

<400> 24938
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 24939
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; C0501

<400> 24939
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B0702

<400> 24940
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24941
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B1301

<400> 24941
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24942
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; C0801

<400> 24942
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24943
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0206

<400> 24943

Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 24944
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; C0803

<400> 24944
Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 24945
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; B4405

<400> 24945
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A2603

<400> 24946
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 24947
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A1101

<400> 24947
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10

<210> 24948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0205

<400> 24948
Leu Val Val Val Gly Ala Asp Gly Val
1               5


<210> 24949
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0206

<400> 24949
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 24950
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0201

<400> 24950
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 24951
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; C0102

<400> 24951
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10

<210> 24952
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; B1302

<400> 24952
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 24953
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; B3901

<400> 24953
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24954
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; A2601

<400> 24954
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 24955
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12D; A0204

<400> 24955
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 24956
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B4801

<400> 24956
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 24957
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12D; B3503

<400> 24957
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24958
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; A1101

<400> 24958
Val Val Gly Ala Phe Gly Val Gly Lys
1               5


<210> 24959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; A1101

<400> 24959
Val Val Val Gly Ala Phe Gly Val Gly Lys
1               5                   10


<210> 24960
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; A0301

<400> 24960
Val Val Gly Ala Phe Gly Val Gly Lys
1               5


<210> 24961
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; C1402

<400> 24961
Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24962
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; B0801

<400> 24962
Phe Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24963
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; C0304

<400> 24963
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24964
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.G12F; B2702

<400> 24964
Leu Val Val Val Gly Ala Phe Gly Val Gly Lys
1               5                   10


<210> 24965
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; A0301

<400> 24965
Val Val Val Gly Ala Phe Gly Val Gly Lys
1               5                   10


<210> 24966
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B1402

<400> 24966
Phe Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24967
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B2702

<400> 24967
Val Val Gly Ala Phe Gly Val Gly Lys
1               5


<210> 24968
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; A6801

<400> 24968
Val Val Val Gly Ala Phe Gly Val Gly Lys
1               5                   10


<210> 24969
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; C0102

<400> 24969
Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24970
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B2702

<400> 24970
Val Val Val Gly Ala Phe Gly Val Gly Lys
1               5                   10


<210> 24971
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; C0303

<400> 24971
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24972
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B1501

<400> 24972
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu

1 5 10

<210> 24973
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; B4001

<400> 24973
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 24974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; A6801

<400> 24974
Val Val Gly Ala Phe Gly Val Gly Lys
1 5

<210> 24975
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B0801

<400> 24975
Val Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 24976
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B0702

<400> 24976
Ala Phe Gly Val Gly Lys Ser Ala Leu
1 5

<210> 24977
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B1302

<400> 24977
Val Val Val Gly Ala Phe Gly Val
1               5


<210> 24978
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B0702

<400> 24978
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24979
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B4002

<400> 24979
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24980
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B1501

<400> 24980
Lys Leu Val Val Val Gly Ala Phe
1               5


<210> 24981

<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B5801

<400> 24981
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24982
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B5001

<400> 24982
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24983
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; A1101

<400> 24983
Val Gly Ala Phe Gly Val Gly Lys
1               5


<210> 24984
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; C0102

<400> 24984
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24985
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; C0304

<400> 24985
Phe Gly Val Gly Lys Ser Ala Leu
1               5


<210> 24986
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; A3001

<400> 24986
Val Val Val Gly Ala Phe Gly Val Gly Lys
1               5                   10


<210> 24987
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12F; B1402

<400> 24987
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24988
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; A3101

<400> 24988
Val Val Gly Ala Phe Gly Val Gly Lys
1               5


<210> 24989
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; A3001

<400> 24989
Gly Ala Phe Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24990
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; A6802

<400> 24990
Val Val Val Gly Ala Phe Gly Val Gly Lys
1               5                   10


<210> 24991
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12F; B5001

<400> 24991
Gly Ala Phe Gly Val Gly Lys Ser Ala
1               5


<210> 24992
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; A1101

<400> 24992
Val Val Gly Ala Ile Gly Val Gly Lys
1               5


<210> 24993
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; A1101

<400> 24993
Val Val Val Gly Ala Ile Gly Val Gly Lys
1               5                   10


<210> 24994
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; A0301

<400> 24994
Val Val Gly Ala Ile Gly Val Gly Lys
1               5


<210> 24995
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; A0301

<400> 24995
Val Val Val Gly Ala Ile Gly Val Gly Lys
1               5                   10


<210> 24996
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; C0304

<400> 24996
Gly Ala Ile Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 24997
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; B0702

<400> 24997

Ala Ile Gly Val Gly Lys Ser Ala Leu
1 5

<210> 24998
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; B0801

<400> 24998
Ile Gly Val Gly Lys Ser Ala Leu
1 5

<210> 24999
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; A0201

<400> 24999
Lys Leu Val Val Val Gly Ala Ile Gly Val
1 5 10

<210> 25000
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12I; B0801

<400> 25000
Val Gly Ala Ile Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25001
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; B0702

<400> 25001
Gly Ala Ile Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12I; C0304

<400> 25002
Gly Ala Ile Gly Val Gly Lys Ser Ala
1               5


<210> 25003
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12I; A1101

<400> 25003
Leu Val Val Val Gly Ala Ile Gly Val Gly Lys
1               5                   10


<210> 25004
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12I; A0301

<400> 25004
Leu Val Val Val Gly Ala Ile Gly Val Gly Lys
1               5                   10


<210> 25005
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12I; B0702

<400> 25005
Ile Gly Val Gly Lys Ser Ala Leu
1               5

<210> 25006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12I; B0801

<400> 25006
Ala Ile Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25007
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; A1101

<400> 25007
Val Val Val Gly Ala Leu Gly Val Gly Lys
1               5                   10


<210> 25008
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; A1101

<400> 25008
Val Val Gly Ala Leu Gly Val Gly Lys
1               5


<210> 25009
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; A6801

<400> 25009
Val Val Val Gly Ala Leu Gly Val Gly Lys
1               5                   10


<210> 25010
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; A0301

<400> 25010
Val Val Val Gly Ala Leu Gly Val Gly Lys
1               5                   10


<210> 25011
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; A0301

<400> 25011
Val Val Gly Ala Leu Gly Val Gly Lys
1               5


<210> 25012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; C0102

<400> 25012
Ala Leu Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25013
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; B4001

<400> 25013
Gly Ala Leu Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25014
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; B0801

<400> 25014
Leu Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25015
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; B1402

<400> 25015
Leu Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25016
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; B0702

<400> 25016
Ala Leu Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25017
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; A6801

<400> 25017
Val Val Gly Ala Leu Gly Val Gly Lys
1               5


<210> 25018
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.G12L; C0304

<400> 25018
Gly Ala Leu Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25019
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; B1302

<400> 25019
Val Val Val Gly Ala Leu Gly Val
1               5


<210> 25020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; B0801

<400> 25020
Ala Leu Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25021
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; A6801

<400> 25021
Val Val Val Gly Ala Leu Gly Val Gly Lys Ser
1               5                   10


<210> 25022
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; B0702

<400> 25022
Gly Ala Leu Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25023
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; B0801

<400> 25023
Val Gly Ala Leu Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25024
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; A1101

<400> 25024
Leu Val Val Val Gly Ala Leu Gly Val Gly Lys
1               5                   10


<210> 25025
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; B1501

<400> 25025
Lys Leu Val Val Val Gly Ala Leu
1               5


<210> 25026
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12L; B1501

<400> 25026
Ala Leu Gly Val Gly Lys Ser Ala Leu

1 5

<210> 25027
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; A3001

<400> 25027
Val Val Val Gly Ala Leu Gly Val Gly Lys
1 5 10

<210> 25028
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; A6801

<400> 25028
Leu Val Val Val Gly Ala Leu Gly Val Gly Lys
1 5 10

<210> 25029
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12L; C0303

<400> 25029
Gly Ala Leu Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25030
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A1101

<400> 25030
Val Val Val Gly Ala Arg Gly Val Gly Lys
1 5 10

<210> 25031
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A0302

<400> 25031
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 25032
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12R; A0301

<400> 25032
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 25033
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G12R; B0702

<400> 25033
Gly Ala Arg Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A0302

<400> 25034
Val Val Gly Ala Arg Gly Val Gly Lys
1               5


<210> 25035

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A3303

<400> 25035
Glu Tyr Lys Leu Val Val Val Gly Ala Arg
1               5                   10


<210> 25036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A0301

<400> 25036
Val Val Gly Ala Arg Gly Val Gly Lys
1               5


<210> 25037
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A1101

<400> 25037
Val Val Gly Ala Arg Gly Val Gly Lys
1               5


<210> 25038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; B1401

<400> 25038
Ala Arg Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25039
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A6801

<400> 25039
Val Val Val Gly Ala Arg Gly Val Gly Lys
1               5                   10


<210> 25040
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; B4801

<400> 25040
Val Val Val Gly Ala Arg Gly Val Gly Lys Ser
1               5                   10


<210> 25041
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; A0203

<400> 25041
Lys Leu Val Val Val Gly Ala Arg Gly Val
1               5                   10


<210> 25042
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12R; B0801

<400> 25042
Arg Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25043
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A1101

<400> 25043
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A1101

<400> 25044
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 25045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A0301

<400> 25045
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25046
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A6801

<400> 25046
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25047
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A0301

<400> 25047
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 25048
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B2702

<400> 25048
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25049
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; C0704

<400> 25049
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 25050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B0801

<400> 25050
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; C0102

<400> 25051

Ala Ser Gly Val Gly Lys Ser Ala Leu
1 5

<210> 25052
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B2702

<400> 25052
Val Val Val Gly Ala Ser Gly Val Gly Lys
1 5 10

<210> 25053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B0702

<400> 25053
Gly Ala Ser Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25054
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B0801

<400> 25054
Val Gly Ala Ser Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25055
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B4001

<400> 25055
Gly Ala Ser Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25056
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A6801

<400> 25056
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 25057
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A1101

<400> 25057
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A0206

<400> 25058
Leu Val Val Val Gly Ala Ser Gly Val
1               5


<210> 25059
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A1101

<400> 25059
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10

<210> 25060
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A0203

<400> 25060
Lys Leu Val Val Val Gly Ala Ser Gly Val
1               5                   10


<210> 25061
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A3001

<400> 25061
Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25062
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B1402

<400> 25062
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25063
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A0301

<400> 25063
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25064
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A6801

<400> 25064
Leu Val Val Val Gly Ala Ser Gly Val Gly Lys
1               5                   10


<210> 25065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B0702

<400> 25065
Ala Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25066
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B0702

<400> 25066
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25067
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A0205

<400> 25067
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 25068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; C0304

<400> 25068
Gly Ala Ser Gly Val Gly Lys Ser Ala
1               5


<210> 25069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B1302

<400> 25069
Val Val Val Gly Ala Ser Gly Val
1               5


<210> 25070
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; C0102

<400> 25070
Gly Ala Ser Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25071
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; B4102

<400> 25071
Ser Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25072
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.G12S; B1302

<400> 25072
Ser Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25073
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A2601

<400> 25073
Val Val Val Gly Ala Ser Gly Val Gly Lys Ser
1               5                   10


<210> 25074
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; C0304

<400> 25074
Gly Ala Ser Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12S; A6801

<400> 25075
Val Val Gly Ala Ser Gly Val Gly Lys
1               5


<210> 25076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0302

<400> 25076
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A1101

<400> 25077
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0301

<400> 25078
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25079
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0302

<400> 25079
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25080
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A1101

<400> 25080
Val Val Val Gly Ala Val Gly Val Gly Lys

1 5 10

<210> 25081
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A6801

<400> 25081
Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25082
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0102

<400> 25082
Ala Val Gly Val Gly Lys Ser Ala Leu
1 5

<210> 25083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0301

<400> 25083
Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A6801

<400> 25084
Val Val Gly Ala Val Gly Val Gly Lys
1 5

<210> 25085
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0803

<400> 25085
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B0702

<400> 25086
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B2702

<400> 25087
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25088
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B2702

<400> 25088
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25089

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B0801

<400> 25089
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B2702

<400> 25090
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25091
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B4801

<400> 25091
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25092
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B0801

<400> 25092
Val Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25093
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0704

<400> 25093
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25094
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B4001

<400> 25094
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A2603

<400> 25095
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25096
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0201

<400> 25096
Lys Leu Val Val Val Gly Ala Val Gly Val
1               5                   10


<210> 25097
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0304

<400> 25097
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25098
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0204

<400> 25098
Lys Leu Val Val Val Gly Ala Val Gly Val
1               5                   10


<210> 25099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0206

<400> 25099
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 25100
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B1402

<400> 25100
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25101
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0302

<400> 25101
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0203

<400> 25102
Lys Leu Val Val Val Gly Ala Val Gly Val
1               5                   10


<210> 25103
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B1302

<400> 25103
Val Val Val Gly Ala Val Gly Val
1               5


<210> 25104
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0302

<400> 25104
Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25105
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B1501

<400> 25105

Ala Val Gly Val Gly Lys Ser Ala Leu
1 5

<210> 25106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B5601

<400> 25106
Gly Ala Val Gly Val Gly Lys Ser Ala
1 5

<210> 25107
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A6802

<400> 25107
Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A3101

<400> 25108
Val Val Gly Ala Val Gly Val Gly Lys
1 5

<210> 25109
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A6801

<400> 25109
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25110
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B1302

<400> 25110
Val Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25111
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B4002

<400> 25111
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25112
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0206

<400> 25112
Lys Leu Val Val Val Gly Ala Val Gly Val
1               5                   10


<210> 25113
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0303

<400> 25113
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10

<210> 25114
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A1101

<400> 25114
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25115
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A3303

<400> 25115
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25116
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0803

<400> 25116
Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25117
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0206

<400> 25117
Val Val Val Gly Ala Val Gly Val
1               5


<210> 25118
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B1302

<400> 25118
Lys Leu Val Val Val Gly Ala Val
1               5


<210> 25119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B0801

<400> 25119
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25120
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B0702

<400> 25120
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25121
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B4801

<400> 25121
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25122
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0205

<400> 25122
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 25123
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A2601

<400> 25123
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25124
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0206

<400> 25124
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0304

<400> 25125
Gly Ala Val Gly Val Gly Lys Ser Ala
1               5


<210> 25126
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.G12V; A3101

<400> 25126
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25127
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B3906

<400> 25127
Val Val Val Gly Ala Val Gly Val
1               5


<210> 25128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A6802

<400> 25128
Leu Val Val Val Gly Ala Val Gly Val
1               5


<210> 25129
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B5401

<400> 25129
Gly Ala Val Gly Val Gly Lys Ser Ala
1               5


<210> 25130
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A1101

<400> 25130
Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25131
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; C0801

<400> 25131
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25132
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0301

<400> 25132
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A0203

<400> 25133
Lys Leu Val Val Val Gly Ala Val
1               5


<210> 25134
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; B1501

<400> 25134
Gly Ala Val Gly Val Gly Lys Ser Ala Leu

1 5 10

<210> 25135
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A6801

<400> 25135
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1 5 10

<210> 25136
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G12V; A3001

<400> 25136
Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25137
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; A1101

<400> 25137
Val Val Val Gly Ala Gly Cys Val Gly Lys
1 5 10

<210> 25138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; A1101

<400> 25138
Val Val Gly Ala Gly Cys Val Gly Lys
1 5

<210> 25139
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; A6801

<400> 25139
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 25140
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; A0301

<400> 25140
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 25141
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; B1302

<400> 25141
Gly Cys Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25142
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; B0801

<400> 25142
Ala Gly Cys Val Gly Lys Ser Ala Leu
1               5


<210> 25143

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; B2702

<400> 25143
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 25144
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; A0301

<400> 25144
Val Val Gly Ala Gly Cys Val Gly Lys
1               5


<210> 25145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; B1302

<400> 25145
Cys Val Gly Lys Ser Ala Leu Thr Ile
1               5


<210> 25146
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13C; B0702

<400> 25146
Ala Gly Cys Val Gly Lys Ser Ala Leu
1               5


<210> 25147
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; C0802

<400> 25147
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25148
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B4102

<400> 25148
Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25149
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; C0803

<400> 25149
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 25150
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A0302

<400> 25150
Val Val Gly Ala Gly Asp Val Gly Lys
1               5


<210> 25151
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A0302

<400> 25151
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25152
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A6801

<400> 25152
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25153
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; C0704

<400> 25153
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 25154
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B2702

<400> 25154
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25155
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B4002

<400> 25155
Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25156
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A1101

<400> 25156
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B5101

<400> 25157
Asp Val Gly Lys Ser Ala Leu Thr Ile
1               5


<210> 25158
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B2702

<400> 25158
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A1101

<400> 25159

Val Val Gly Ala Gly Asp Val Gly Lys
1               5


<210> 25160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; C0501

<400> 25160
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B0702

<400> 25161
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; C0801

<400> 25162
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; C0803

<400> 25163
Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10

<210> 25164
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A0302

<400> 25164
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25165
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B4002

<400> 25165
Gly Asp Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25166
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.G13D; B0702

<400> 25166
Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25167
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A6801

<400> 25167
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10

<210> 25168
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B1302

<400> 25168
Gly Asp Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A0205

<400> 25169
Val Gly Ala Gly Asp Val Gly Lys Ser
1               5


<210> 25170
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B4801

<400> 25170
Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25171
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B0702

<400> 25171
Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25172
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; C0304

<400> 25172
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25173
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A0206

<400> 25173
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25174
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B4801

<400> 25174
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 25175
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; A1101

<400> 25175
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13D; B3502

<400> 25176
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; A1101

<400> 25177
Val Val Val Gly Ala Gly Glu Val Gly Lys
1               5                   10


<210> 25178
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; B4001

<400> 25178
Gly Glu Val Gly Lys Ser Ala Leu
1               5


<210> 25179
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; B0801

<400> 25179
Val Gly Ala Gly Glu Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25180
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; KRAS_p.G13E; B4001

<400> 25180
Gly Glu Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; A1101

<400> 25181
Val Val Gly Ala Gly Glu Val Gly Lys
1               5


<210> 25182
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; B4403

<400> 25182
Gly Glu Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25183
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; A1101

<400> 25183
Leu Val Val Val Gly Ala Gly Glu Val Gly Lys
1               5                   10


<210> 25184
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; B0702

<400> 25184
Ala Gly Glu Val Gly Lys Ser Ala Leu
1               5


<210> 25185
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; A0201

<400> 25185
Lys Leu Val Val Val Gly Ala Gly Glu Val
1               5                   10


<210> 25186
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; C0102

<400> 25186
Ala Gly Glu Val Gly Lys Ser Ala Leu
1               5


<210> 25187
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13E; A0301

<400> 25187
Val Val Val Gly Ala Gly Glu Val Gly Lys
1               5                   10


<210> 25188
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A3303

<400> 25188
Glu Tyr Lys Leu Val Val Val Gly Ala Gly Arg

1 5 10

<210> 25189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A1101

<400> 25189
Val Val Val Gly Ala Gly Arg Val Gly Lys
1 5 10

<210> 25190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A1101

<400> 25190
Val Val Gly Ala Gly Arg Val Gly Lys
1 5

<210> 25191
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A0301

<400> 25191
Val Val Val Gly Ala Gly Arg Val Gly Lys
1 5 10

<210> 25192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; B0702

<400> 25192
Ala Gly Arg Val Gly Lys Ser Ala Leu
1 5

<210> 25193
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A3301

<400> 25193
Glu Tyr Lys Leu Val Val Val Gly Ala Gly Arg
1               5                   10


<210> 25194
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A6801

<400> 25194
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 25195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A3101

<400> 25195
Lys Leu Val Val Val Gly Ala Gly Arg
1               5


<210> 25196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; A0301

<400> 25196
Val Val Gly Ala Gly Arg Val Gly Lys
1               5


<210> 25197

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13R; B1302

<400> 25197
Arg Val Gly Lys Ser Ala Leu Thr Ile
1               5


<210> 25198
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A1101

<400> 25198
Val Val Val Gly Ala Gly Val Val Gly Lys
1               5                   10


<210> 25199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A1101

<400> 25199
Val Val Gly Ala Gly Val Val Gly Lys
1               5


<210> 25200
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A0301

<400> 25200
Val Val Val Gly Ala Gly Val Val Gly Lys
1               5                   10


<210> 25201
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A0301

<400> 25201
Val Val Gly Ala Gly Val Val Gly Lys
1               5


<210> 25202
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A1101

<400> 25202
Leu Val Val Val Gly Ala Gly Val Val Gly Lys
1               5                   10


<210> 25203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; B0801

<400> 25203
Ala Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 25204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; B0702

<400> 25204
Ala Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 25205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A0201

<400> 25205
Lys Leu Val Val Val Gly Ala Gly Val
1               5


<210> 25206
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A0301

<400> 25206
Leu Val Val Val Gly Ala Gly Val Val Gly Lys
1               5                   10


<210> 25207
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; A1101

<400> 25207
Val Gly Ala Gly Val Val Gly Lys
1               5


<210> 25208
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; B0801

<400> 25208
Val Gly Ala Gly Val Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; B1501

<400> 25209
Ala Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 25210
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; B0801

<400> 25210
Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 25211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.G13V; C0102

<400> 25211
Ala Gly Val Val Gly Lys Ser Ala Leu
1               5


<210> 25212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.K117N; C0802

<400> 25212
Asn Cys Asp Leu Pro Ser Arg Thr Val
1               5


<210> 25213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.K117N; C0501

<400> 25213

Asn Cys Asp Leu Pro Ser Arg Thr Val
1 5

<210> 25214
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; B5101

<400> 25214
Ser Ala Phe Thr Ile Gln Leu Ile
1 5

<210> 25215
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; B1501

<400> 25215
Gly Ala Gly Gly Val Gly Lys Ser Ala Phe
1 5 10

<210> 25216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; B1501

<400> 25216
Ala Gly Gly Val Gly Lys Ser Ala Phe
1 5

<210> 25217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; A2601

<400> 25217
Phe Thr Ile Gln Leu Ile Gln Asn His
1 5

<210> 25218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; A1101

<400> 25218
Phe Thr Ile Gln Leu Ile Gln Asn His
1               5


<210> 25219
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; B5701

<400> 25219
Phe Thr Ile Gln Leu Ile Gln Asn His Phe
1               5                   10


<210> 25220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; C1502

<400> 25220
Lys Ser Ala Phe Thr Ile Gln Leu Ile
1               5


<210> 25221
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; C1203

<400> 25221
Ser Ala Phe Thr Ile Gln Leu Ile
1               5

<210> 25222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; B0702

<400> 25222
Ala Gly Gly Val Gly Lys Ser Ala Phe
1               5


<210> 25223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.L19F; A6801

<400> 25223
Phe Thr Ile Gln Leu Ile Gln Asn His
1               5


<210> 25224
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q22K; B5101

<400> 25224
Ser Ala Leu Thr Ile Lys Leu Ile
1               5


<210> 25225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q22K; B5701

<400> 25225
Leu Thr Ile Lys Leu Ile Gln Asn His Phe
1               5                   10


<210> 25226
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q22K; B5701

<400> 25226
Lys Ser Ala Leu Thr Ile Lys Leu Ile
1               5


<210> 25227
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q22K; A0301

<400> 25227
Gly Val Gly Lys Ser Ala Leu Thr Ile Lys
1               5                   10


<210> 25228
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q22K; B5701

<400> 25228
Thr Ile Lys Leu Ile Gln Asn His Phe
1               5


<210> 25229
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q61H; A0101

<400> 25229
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25230
<211> 10
<212> PRT
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<220>
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1               5                   10


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<220>
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Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25312
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<212> PRT
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<220>
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1               5                   10


<210> 25313
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1               5                   10


<210> 25314
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<210> 25315
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<210> 25317
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<400> 25317
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1               5                   10


<210> 25318
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1               5                   10


<210> 25319
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<210> 25323
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<210> 25324
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1 5 10

<210> 25326
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; A2902

<400> 25326
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B2702

<400> 25327
Leu Asp Ile Leu Asp Thr Ala Gly Arg
1               5


<210> 25328
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q61R; A2501

<400> 25328
Asp Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25329
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<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; A3002

<400> 25329
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10

<210> 25330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B2705

<400> 25330
Gly Arg Glu Glu Tyr Ser Ala Met Arg
1               5


<210> 25331
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B2702

<400> 25331
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25332
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B3508

<400> 25332
Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5


<210> 25333
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B3501

<400> 25333
Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5


<210> 25334
<211> 10

<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B3501

<400> 25334
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25335
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B1801

<400> 25335
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25336
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B3501

<400> 25336
Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25337
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B1501

<400> 25337
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25338
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B5701

<400> 25338
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25339
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<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; A2501

<400> 25339
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25340
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; A0207

<400> 25340
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25341
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; B3503

<400> 25341
Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25342
<211> 10
<212> PRT
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<220>

<223> AACR GENIE Results; KRAS_p.Q61R; B3502

<400> 25342
Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1  5  10

<210> 25343
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.Q61R; C0801

<400> 25343
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1  5  10

<210> 25344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A1101

<400> 25344
Val Val Val Gly Ala Gly Gly Ile Gly Lys
1  5  10

<210> 25345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A1101

<400> 25345
Val Val Gly Ala Gly Gly Ile Gly Lys
1  5

<210> 25346
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A6801

<400> 25346
Val Val Val Gly Ala Gly Gly Ile Gly Lys
1               5                   10


<210> 25347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A0301

<400> 25347
Val Val Gly Ala Gly Gly Ile Gly Lys
1               5


<210> 25348
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A0301

<400> 25348
Val Val Val Gly Ala Gly Gly Ile Gly Lys
1               5                   10


<210> 25349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; B1302

<400> 25349
Gly Ile Gly Lys Ser Ala Leu Thr Ile
1               5


<210> 25350
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; B0801

<400> 25350
Val Gly Ala Gly Gly Ile Gly Lys Ser Ala Leu

1 5 10

<210> 25351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; B0702

<400> 25351
Ala Gly Gly Ile Gly Lys Ser Ala Leu
1 5

<210> 25352
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; C0704

<400> 25352
Val Val Val Gly Ala Gly Gly Ile Gly Lys Ser
1 5 10

<210> 25353
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; B5101

<400> 25353
Ile Gly Lys Ser Ala Leu Thr Ile
1 5

<210> 25354
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A3001

<400> 25354
Val Val Val Gly Ala Gly Gly Ile Gly Lys
1 5 10

<210> 25355
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; B0801

<400> 25355
Gly Gly Ile Gly Lys Ser Ala Leu
1               5


<210> 25356
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; B1302

<400> 25356
Gly Gly Ile Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25357
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; B2702

<400> 25357
Val Val Val Gly Ala Gly Gly Ile Gly Lys
1               5                   10


<210> 25358
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; A1101

<400> 25358
Val Val Val Gly Ala Gly Gly Ile Gly Lys Ser
1               5                   10


<210> 25359

<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; B2702

<400> 25359
Leu Val Val Val Gly Ala Gly Gly Ile Gly Lys
1               5                   10


<210> 25360
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; A6801

<400> 25360
Val Val Val Gly Ala Gly Gly Ile Gly Lys Ser
1               5                   10


<210> 25361
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; A2601

<400> 25361
Val Val Val Gly Ala Gly Gly Ile Gly Lys Ser
1               5                   10


<210> 25362
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; A6801

<400> 25362
Val Val Gly Ala Gly Gly Ile Gly Lys
1               5


<210> 25363
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A0301

<400> 25363
Leu Val Val Val Gly Ala Gly Gly Ile Gly Lys
1               5                   10


<210> 25364
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; KRAS_p.V14I; A1101

<400> 25364
Leu Val Val Val Gly Ala Gly Gly Ile Gly Lys
1               5                   10


<210> 25365
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; KRAS_p.V14I; A3101

<400> 25365
Val Val Val Gly Ala Gly Gly Ile Gly Lys Ser
1               5                   10


<210> 25366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; LMO2_p.E145K; A1101

<400> 25366
Leu Ile Asn Ser Asp Ile Val Cys Lys
1               5


<210> 25367
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; LMO2_p.E145K; B5701

<400> 25367
Ile Val Cys Lys Gln Asp Ile Tyr Glu Trp
1               5                   10


<210> 25368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; LMO2_p.E145K; A0301

<400> 25368
Leu Ile Asn Ser Asp Ile Val Cys Lys
1               5


<210> 25369
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; LMO2_p.E145K; A1101

<400> 25369
Ile Asn Ser Asp Ile Val Cys Lys
1               5


<210> 25370
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.C121S; A2601

<400> 25370
Glu Ser Asn Ser Pro Tyr Ile Val Gly Phe
1               5                   10


<210> 25371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.C121S; B1501

<400> 25371
Val Leu His Glu Ser Asn Ser Pro Tyr
1               5


<210> 25372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.D67N; B1402

<400> 25372
Asp Asn Phe Glu Lys Ile Ser Glu Leu
1               5


<210> 25373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.D67N; B0801

<400> 25373
Asp Asn Phe Glu Lys Ile Ser Glu Leu
1               5


<210> 25374
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.G128D; B3501

<400> 25374
Ser Pro Tyr Ile Val Asp Phe Tyr
1               5


<210> 25375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.G128D; A2902

<400> 25375

Asn Ser Pro Tyr Ile Val Asp Phe Tyr
1               5


<210> 25376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.G128D; A0101

<400> 25376
Asn Ser Pro Tyr Ile Val Asp Phe Tyr
1               5


<210> 25377
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; MAP2K1_p.G128D; A2902

<400> 25377
Tyr Ile Val Asp Phe Tyr Gly Ala Phe Tyr
1               5                   10


<210> 25378
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.G128D; B1801

<400> 25378
Ser Pro Tyr Ile Val Asp Phe Tyr
1               5


<210> 25379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; A6801

<400> 25379
Glu Ala Phe Leu Thr Gln Glu Gln Lys
1               5

<210> 25380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; B2702

<400> 25380
Glu Ala Phe Leu Thr Gln Glu Gln Lys
1               5


<210> 25381
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; B2702

<400> 25381
Leu Glu Ala Phe Leu Thr Gln Glu Gln Lys
1               5                   10


<210> 25382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; C0802

<400> 25382
Thr Gln Glu Gln Lys Val Gly Glu Leu
1               5


<210> 25383
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; A6801

<400> 25383
Glu Ala Phe Leu Thr Gln Glu Gln Lys Val
1               5                   10

<210> 25384
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; B5101

<400> 25384
Glu Ala Phe Leu Thr Gln Glu Gln Lys Val
1               5                   10


<210> 25385
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; B1302

<400> 25385
Phe Leu Thr Gln Glu Gln Lys Val
1               5


<210> 25386
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57E; B4001

<400> 25386
Gln Glu Gln Lys Val Gly Glu Leu
1               5


<210> 25387
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; A6801

<400> 25387
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 25388
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B1501

<400> 25388
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 25389
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; A6801

<400> 25389
Glu Ala Phe Leu Thr Gln Asn Gln Lys Val
1               5                   10


<210> 25390
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B0801

<400> 25390
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 25391
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; A1101

<400> 25391
Thr Gln Asn Gln Lys Val Gly Glu Leu Lys
1               5                   10


<210> 25392
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B5101

<400> 25392
Glu Ala Phe Leu Thr Gln Asn Gln Lys Val
1               5                   10


<210> 25393
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B2702

<400> 25393
Leu Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5                   10


<210> 25394
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B1302

<400> 25394
Phe Leu Thr Gln Asn Gln Lys Val
1               5


<210> 25395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B1402

<400> 25395
Thr Gln Asn Gln Lys Val Gly Glu Leu
1               5


<210> 25396
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; MAP2K1_p.K57N; A1101

<400> 25396
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 25397
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B2702

<400> 25397
Glu Ala Phe Leu Thr Gln Asn Gln Lys
1               5


<210> 25398
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.K57N; B4901

<400> 25398
Leu Glu Ala Phe Leu Thr Gln Asn Gln Lys Val
1               5                   10


<210> 25399
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; MAP2K1_p.Q56P; B0702

<400> 25399
Thr Pro Lys Gln Lys Val Gly Glu Leu
1               5


<210> 25400
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; MAP2K1_p.Q56P; B0801

<400> 25400
Thr Pro Lys Gln Lys Val Gly Glu Leu
1               5


<210> 25401
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K1_p.Q56P; B5101

<400> 25401
Glu Ala Phe Leu Thr Pro Lys Gln Lys Val
1               5                   10


<210> 25402
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; MAP2K1_p.Q56P; A0301

<400> 25402
Arg Leu Glu Ala Phe Leu Thr Pro Lys
1               5


<210> 25403
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K2_p.E288del; C0802

<400> 25403
Val Val Asp Gly Glu Gly Glu Pro His Ser Ile
1               5                   10


<210> 25404
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K2_p.E288del; B4403

<400> 25404
Gly Glu Gly Glu Pro His Ser Ile

1 5

<210> 25405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K4_p.P326L; B1501

<400> 25405
Val Val Lys Gly Asp Pro Leu Gln Leu
1 5

<210> 25406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAP2K4_p.P326L; B0801

<400> 25406
Val Val Lys Gly Asp Pro Leu Gln Leu
1 5

<210> 25407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAX_p.R60Q; A1101

<400> 25407
Ala Ser Gln Ala Gln Ile Leu Asp Lys
1 5

<210> 25408
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAX_p.R60Q; B3501

<400> 25408
Gln Ala Gln Ile Leu Asp Lys Ala Thr Glu Tyr
1 5 10

<210> 25409
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAX_p.R60Q; A1101

<400> 25409
Ser Gln Ala Gln Ile Leu Asp Lys
1               5


<210> 25410
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAX_p.R60Q; A1101

<400> 25410
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5                   10


<210> 25411
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MAX_p.R60Q; A0301

<400> 25411
Lys Ala Ser Gln Ala Gln Ile Leu Asp Lys
1               5                   10


<210> 25412
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MCL1_p.G49R; B4001

<400> 25412
Arg Glu Ile Arg Gly Gly Glu Ala Gly Ala Val
1               5                   10


<210> 25413

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; A0301

<400> 25413
Ile Leu Ala Pro Val Val Arg Pro Lys
1               5


<210> 25414
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; A3101

<400> 25414
Arg Thr Ile Leu Ala Pro Val Val Arg
1               5


<210> 25415
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; A1101

<400> 25415
Ile Leu Ala Pro Val Val Arg Pro Lys
1               5


<210> 25416
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; MDM4_p.S367L; A0301

<400> 25416
Thr Ile Leu Ala Pro Val Val Arg Pro Lys
1               5                   10


<210> 25417
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; A3101

<400> 25417
Thr Ile Leu Ala Pro Val Val Arg
1               5


<210> 25418
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; A0301

<400> 25418
Arg Thr Ile Leu Ala Pro Val Val Arg Pro Lys
1               5                   10


<210> 25419
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; B5701

<400> 25419
Arg Thr Ile Leu Ala Pro Val Val Arg
1               5


<210> 25420
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; A1101

<400> 25420
Thr Ile Leu Ala Pro Val Val Arg Pro Lys
1               5                   10


<210> 25421
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; A1101

<400> 25421
Arg Thr Ile Leu Ala Pro Val Val Arg Pro Lys
1               5                   10


<210> 25422
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MDM4_p.S367L; B0702

<400> 25422
Val Pro Asp Cys Arg Arg Thr Ile Leu
1               5


<210> 25423
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MED12_p.A831V; B3501

<400> 25423
Phe Pro Thr Ala Glu Asp Ile Phe Val Lys Phe
1               5                   10


<210> 25424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MED12_p.A831V; B3501

<400> 25424
Thr Ala Glu Asp Ile Phe Val Lys Phe
1               5


<210> 25425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MED12_p.A831V; C0501

<400> 25425
Thr Ala Glu Asp Ile Phe Val Lys Phe
1               5


<210> 25426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MED12_p.A831V; C0202

<400> 25426
Thr Ala Glu Asp Ile Phe Val Lys Phe
1               5


<210> 25427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.A48T; B4901

<400> 25427
Thr Glu Thr Pro Ile Gln Asn Val Ile
1               5


<210> 25428
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.A48T; B4901

<400> 25428
Thr Glu Thr Pro Ile Gln Asn Val
1               5


<210> 25429
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.A48T; B4001

<400> 25429

Thr Glu Thr Pro Ile Gln Asn Val Ile Leu
1               5                   10


<210> 25430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.A48T; B4001

<400> 25430
Thr Glu Thr Pro Ile Gln Asn Val Ile
1               5


<210> 25431
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.A48T; B4403

<400> 25431
Thr Glu Thr Pro Ile Gln Asn Val Ile
1               5


<210> 25432
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.A48T; A3001

<400> 25432
Thr Glu Thr Pro Ile Gln Asn Val Ile
1               5


<210> 25433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.L14F; B1501

<400> 25433
Val Leu Ala Pro Gly Ile Leu Val Phe
1               5

<210> 25434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.L14F; C1701

<400> 25434
Leu Ala Pro Gly Ile Leu Val Phe Leu
1               5


<210> 25435
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.L14F; C1701

<400> 25435
Val Leu Ala Pro Gly Ile Leu Val Phe Leu
1               5                   10


<210> 25436
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.L14F; A0201

<400> 25436
Val Leu Ala Pro Gly Ile Leu Val Phe Leu
1               5                   10


<210> 25437
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.V504F; A0301

<400> 25437
Thr Leu Phe Ile Thr Gly Lys Lys Ile Thr Lys
1               5                   10

<210> 25438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MET_p.V504F; A1101

<400> 25438
Gly Tyr Thr Leu Phe Ile Thr Gly Lys
1               5


<210> 25439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MPL_p.R357Q; B1302

<400> 25439
Ser Gln Asn Asp Ser Ile Ile His Ile
1               5


<210> 25440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MPL_p.R357Q; B3801

<400> 25440
Ser Gln Asn Asp Ser Ile Ile His Ile
1               5


<210> 25441
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MPL_p.R357Q; B5701

<400> 25441
Lys Ser Gln Asn Asp Ser Ile Ile His Ile Leu
1               5                   10


<210> 25442
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MPL_p.R357Q; B3801

<400> 25442
Ser Gln Asn Asp Ser Ile Ile His Ile Leu
1               5                   10


<210> 25443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; A0205

<400> 25443
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; A0201

<400> 25444
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; B1302

<400> 25445
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; B5001

<400> 25446
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; B3901

<400> 25447
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; B3801

<400> 25448
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; B1501

<400> 25449
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25450
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; MSH2_p.R406Q; B5101

<400> 25450
Asp Cys Tyr Gln Leu Tyr Gln Gly Ile
1               5


<210> 25451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; B0801

<400> 25451
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; A0301

<400> 25452
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25453
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH2_p.R406Q; A3001

<400> 25453
Gln Leu Tyr Gln Gly Ile Asn Gln Leu
1               5


<210> 25454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B5101

<400> 25454
Val Pro Asp Lys Ile Ser Lys Val Val
1               5


<210> 25455
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B5101

<400> 25455
Val Pro Asp Lys Ile Ser Lys Val
1               5


<210> 25456
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; A0301

<400> 25456
Lys Ile Ser Lys Val Val Glu Leu Leu Lys
1               5                   10


<210> 25457
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; A2601

<400> 25457
Val Val Pro Asp Lys Ile Ser Lys Val
1               5


<210> 25458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B0801

<400> 25458
Asp Lys Ile Ser Lys Val Val Glu Leu

1 5

<210> 25459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B1402

<400> 25459
Asp Lys Ile Ser Lys Val Val Glu Leu
1 5

<210> 25460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; A0201

<400> 25460
Val Val Pro Asp Lys Ile Ser Lys Val
1 5

<210> 25461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; A6801

<400> 25461
Met Val Val Pro Asp Lys Ile Ser Lys
1 5

<210> 25462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; A1101

<400> 25462
Met Val Val Pro Asp Lys Ile Ser Lys
1 5

<210> 25463
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B0702

<400> 25463
Val Pro Asp Lys Ile Ser Lys Val Val Glu Leu
1               5                   10


<210> 25464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B0702

<400> 25464
Val Pro Asp Lys Ile Ser Lys Val Val
1               5


<210> 25465
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B5701

<400> 25465
Ile Ser Lys Val Val Glu Leu Leu
1               5


<210> 25466
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; A2601

<400> 25466
Met Val Val Pro Asp Lys Ile Ser Lys Val
1               5                   10


<210> 25467

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B3501

<400> 25467
Met Val Val Pro Asp Lys Ile Ser Lys
1               5


<210> 25468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.E807K; B5701

<400> 25468
Ile Ser Lys Val Val Glu Leu Leu Lys
1               5


<210> 25469
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.R1095H; A1101

<400> 25469
Gly Ser His His Pro Cys Ile Thr Lys
1               5


<210> 25470
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.R1095H; A0301

<400> 25470
Gly Ser His His Pro Cys Ile Thr Lys
1               5


<210> 25471
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.R1334W; A6802

<400> 25471
Gln Ser Leu Arg Leu Phe Trp Glu Val
1               5


<210> 25472
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.V1160I; B5101

<400> 25472
Ile Pro Ala Glu Val Cys Arg Leu
1               5


<210> 25473
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.V1160I; B0702

<400> 25473
Ile Pro Ala Glu Val Cys Arg Leu
1               5


<210> 25474
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MSH6_p.V1160I; A2402

<400> 25474
Cys Tyr Ile Pro Ala Glu Val Cys Arg Leu
1               5                   10


<210> 25475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.A2420V; B3501

<400> 25475
Met Ala Val Leu Glu Val Phe Val Tyr
1               5


<210> 25476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.A2420V; B1501

<400> 25476
Ser Val Met Ala Val Leu Glu Val Phe
1               5


<210> 25477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.A2420V; B5101

<400> 25477
Asp Ser Val Met Ala Val Leu Glu Val
1               5


<210> 25478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.A2420V; B3501

<400> 25478
Ser Val Met Ala Val Leu Glu Val Phe
1               5


<210> 25479
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.A2420V; A2402

<400> 25479
Val Phe Val Tyr Asp Pro Leu Leu Asn Trp
1               5                   10


<210> 25480
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.A2420V; A0201

<400> 25480
Val Met Ala Val Leu Glu Val Phe Val
1               5


<210> 25481
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.A2420V; B1501

<400> 25481
Ala Val Leu Glu Val Phe Val Tyr
1               5


<210> 25482
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.E1799K; A2902

<400> 25482
Met Asn Phe Lys Ala Val Leu His Tyr
1               5


<210> 25483
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.E1799K; B0801

<400> 25483

Val Met Asn Phe Lys Ala Val Leu
1               5


<210> 25484
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.E1799K; A2902

<400> 25484
Ala Val Met Asn Phe Lys Ala Val Leu His Tyr
1               5                   10


<210> 25485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.E1799K; B0702

<400> 25485
Ala Val Met Asn Phe Lys Ala Val Leu
1               5


<210> 25486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.E1799K; B1501

<400> 25486
Ala Val Met Asn Phe Lys Ala Val Leu
1               5


<210> 25487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.E1799K; A0301

<400> 25487
Val Met Asn Phe Lys Ala Val Leu His
1               5

<210> 25488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.I2500F; C1203

<400> 25488
Lys Ala Ile Gln Phe Ile Asn Arg Val
1               5


<210> 25489
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.I2500F; C0602

<400> 25489
Lys Ala Ile Gln Phe Ile Asn Arg Val
1               5


<210> 25490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.I2500F; C0202

<400> 25490
Lys Ala Ile Gln Phe Ile Asn Arg Val
1               5


<210> 25491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.I2500F; B1501

<400> 25491
Ala Leu Asn Lys Lys Ala Ile Gln Phe
1               5

<210> 25492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; A2402

<400> 25492
Asn Tyr Thr Arg Ser Leu Ala Val Ile
1               5


<210> 25493
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; B1501

<400> 25493
Ala Val Ile Ser Met Val Gly Tyr
1               5


<210> 25494
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; C0304

<400> 25494
Ile Ser Met Val Gly Tyr Ile Leu
1               5


<210> 25495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; B3501

<400> 25495
Leu Ala Val Ile Ser Met Val Gly Tyr
1               5


<210> 25496
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; B1501

<400> 25496
Leu Ala Val Ile Ser Met Val Gly Tyr
1               5


<210> 25497
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; A0201

<400> 25497
Ser Leu Ala Val Ile Ser Met Val
1               5


<210> 25498
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; B1501

<400> 25498
Ser Leu Ala Val Ile Ser Met Val Gly Tyr
1               5                   10


<210> 25499
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; A2601

<400> 25499
Ala Val Ile Ser Met Val Gly Tyr
1               5


<210> 25500
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2327I; C0303

<400> 25500
Ile Ser Met Val Gly Tyr Ile Leu
1               5


<210> 25501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2387I; A0201

<400> 25501
Arg Met Leu Thr Asn Ala Ile Glu Val
1               5


<210> 25502
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2387I; B1801

<400> 25502
Ile Glu Val Thr Gly Leu Asp Gly Asn Tyr
1               5                   10


<210> 25503
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.M2387I; B4403

<400> 25503
Ile Glu Val Thr Gly Leu Asp Gly Asn Tyr
1               5                   10


<210> 25504
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; MTOR_p.R1235W; B4403

<400> 25504
Glu Glu Asp Pro Leu Ile Tyr Gln His Trp
1               5                   10


<210> 25505
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.R1235W; B4402

<400> 25505
Glu Glu Asp Pro Leu Ile Tyr Gln His Trp
1               5                   10


<210> 25506
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.R1235W; B4402

<400> 25506
Glu Glu Glu Asp Pro Leu Ile Tyr Gln His Trp
1               5                   10


<210> 25507
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.R1235W; B4403

<400> 25507
Glu Glu Glu Asp Pro Leu Ile Tyr Gln His Trp
1               5                   10


<210> 25508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.R1235W; B4402

<400> 25508
Glu Asp Pro Leu Ile Tyr Gln His Trp
1               5


<210> 25509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.R1235W; B4403

<400> 25509
Glu Asp Pro Leu Ile Tyr Gln His Trp
1               5


<210> 25510
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.R1235W; A2301

<400> 25510
Glu Glu Asp Pro Leu Ile Tyr Gln His Trp
1               5                   10


<210> 25511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A0201

<400> 25511
Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 25512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A3101

<400> 25512
Leu Ala Asn Asp Pro Thr Tyr Leu Arg

1 5

<210> 25513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A6801

<400> 25513
Leu Ala Asn Asp Pro Thr Tyr Leu Arg
1 5

<210> 25514
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; C0304

<400> 25514
Leu Ala Asn Asp Pro Thr Tyr Leu
1 5

<210> 25515
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A0201

<400> 25515
Thr Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1 5 10

<210> 25516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; B3501

<400> 25516
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1 5

<210> 25517
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A1101

<400> 25517
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5                   10


<210> 25518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; B1501

<400> 25518
Thr Leu Leu Ala Asn Asp Pro Thr Tyr
1               5


<210> 25519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A1101

<400> 25519
Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5


<210> 25520
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; C0303

<400> 25520
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 25521

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; B1302

<400> 25521
Leu Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 25522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A2301

<400> 25522
Thr Tyr Leu Arg Lys Asn Leu Ser Ile
1               5


<210> 25523
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; C0501

<400> 25523
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 25524
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; A6801

<400> 25524
Leu Ala Asn Asp Pro Thr Tyr Leu Arg Lys
1               5                   10


<210> 25525
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; C1502

<400> 25525
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 25526
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.S2215Y; C0202

<400> 25526
Leu Ala Asn Asp Pro Thr Tyr Leu
1               5


<210> 25527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; B5101

<400> 25527
Gln Ala Leu Ile Tyr Pro Leu Lys Val
1               5


<210> 25528
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; A0301

<400> 25528
Leu Ile Tyr Pro Leu Lys Val Ala Ser Lys
1               5                   10


<210> 25529
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; A0301

<400> 25529
Lys Val Ala Ser Lys Ser Thr Thr Thr Ala Arg
1               5                   10


<210> 25530
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; B1302

<400> 25530
Ala Leu Ile Tyr Pro Leu Lys Val
1               5


<210> 25531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; B1302

<400> 25531
Gln Ala Leu Ile Tyr Pro Leu Lys Val
1               5


<210> 25532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; C1502

<400> 25532
Gln Ala Leu Ile Tyr Pro Leu Lys Val
1               5


<210> 25533
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; A3101

<400> 25533
Lys Val Ala Ser Lys Ser Thr Thr Thr Ala Arg
1               5                   10


<210> 25534
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MTOR_p.T1977K; B5101

<400> 25534
Tyr Pro Leu Lys Val Ala Ser Lys
1               5


<210> 25535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYBL1_p.A562V; B3503

<400> 25535
Thr Pro Thr Pro Phe Lys Asn Val Leu
1               5


<210> 25536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYBL1_p.A562V; B0702

<400> 25536
Thr Pro Thr Pro Phe Lys Asn Val Leu
1               5


<210> 25537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYBL1_p.A562V; B5501

<400> 25537

Thr Pro Phe Lys Asn Val Leu Ala Ala
1               5


<210> 25538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYBL1_p.A562V; B3501

<400> 25538
Thr Pro Thr Pro Phe Lys Asn Val Leu
1               5


<210> 25539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYBL1_p.Q334H; B1501

<400> 25539
Ala Gln His Asn Ser Pro Thr Lys Phe
1               5


<210> 25540
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYC_p.S161L; B0702

<400> 25540
Leu Pro Asn Pro Ala Arg Gly His Ser Val
1               5                   10


<210> 25541
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYC_p.S161L; A6801

<400> 25541
Asp Ser Gly Leu Pro Asn Pro Ala Arg
1               5

<210> 25542
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYC_p.S161L; B5101

<400> 25542
Leu Pro Asn Pro Ala Arg Gly His Ser Val
1               5                   10


<210> 25543
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYC_p.S161L; B0801

<400> 25543
Leu Pro Asn Pro Ala Arg Gly His Ser Val
1               5                   10


<210> 25544
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYC_p.S161L; A0201

<400> 25544
Gly Leu Pro Asn Pro Ala Arg Gly His Ser Val
1               5                   10


<210> 25545
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYD88_p.L265P; C0702

<400> 25545
Lys Arg Pro Ile Pro Ile Lys Tyr
1               5

<210> 25546
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYOD1_p.C206F; B0702

<400> 25546
Ser Pro Arg Ser Asn Phe Ser Asp Gly Met
1               5                   10


<210> 25547
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYOD1_p.C206F; A0101

<400> 25547
Phe Ser Asp Gly Met Met Asp Tyr
1               5


<210> 25548
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYOD1_p.C206F; B5101

<400> 25548
Asp Ala Ser Ser Pro Arg Ser Asn Phe
1               5


<210> 25549
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYOD1_p.C206F; B3501

<400> 25549
Asp Ala Ser Ser Pro Arg Ser Asn Phe
1               5


<210> 25550
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; MYOD1_p.C206F; A2601

<400> 25550
Asp Ala Ser Ser Pro Arg Ser Asn Phe
1               5


<210> 25551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NBN_p.M152I; A0301

<400> 25551
Ile Val Ser Val Lys Val Thr Ile Lys
1               5


<210> 25552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NBN_p.M152I; A1101

<400> 25552
Ile Val Ser Val Lys Val Thr Ile Lys
1               5


<210> 25553
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.K296N; A1101

<400> 25553
Val Val Asp Glu Asn Asn Met Asn Asn Lys
1               5                   10


<210> 25554
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.K296N; A6801

<400> 25554
Asp Val Val Asp Glu Asn Asn Met Asn Asn Lys
1               5                   10


<210> 25555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.K296N; A0301

<400> 25555
Val Val Asp Glu Asn Asn Met Asn Asn Lys
1               5                   10


<210> 25556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.K296N; B1801

<400> 25556
Asp Glu Asn Asn Met Asn Asn Lys Leu
1               5


<210> 25557
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.K296N; B4403

<400> 25557
Asp Glu Asn Asn Met Asn Asn Lys Leu Phe
1               5                   10


<210> 25558
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; NF1_p.K296N; B4402

<400> 25558
Asp Glu Asn Asn Met Asn Asn Lys Leu Phe
1               5                   10


<210> 25559
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.K296N; C0802

<400> 25559
Val Val Asp Glu Asn Asn Met Asn Asn Lys Leu
1               5                   10


<210> 25560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; A2402

<400> 25560
Lys Gly Pro Asp Thr Thr Val Lys Phe
1               5


<210> 25561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; B1501

<400> 25561
Lys Gly Pro Asp Thr Thr Val Lys Phe
1               5


<210> 25562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; C0102

<400> 25562
Lys Gly Pro Asp Thr Thr Val Lys Phe
1               5


<210> 25563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; B5701

<400> 25563
Lys Gly Pro Asp Thr Thr Val Lys Phe
1               5


<210> 25564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; C0202

<400> 25564
Lys Gly Pro Asp Thr Thr Val Lys Phe
1               5


<210> 25565
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; B1501

<400> 25565
Cys Leu Lys Gly Pro Asp Thr Thr Val Lys Phe
1               5                   10


<210> 25566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; A1101

<400> 25566
Lys Gly Pro Asp Thr Thr Val Lys Phe

1 5

<210> 25567
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; C0501

<400> 25567
Gly Pro Asp Thr Thr Val Lys Phe
1 5

<210> 25568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF1_p.Y2285Tfs*5; C0501

<400> 25568
Lys Gly Pro Asp Thr Thr Val Lys Phe
1 5

<210> 25569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF2_p.M514V; C0401

<400> 25569
Ser Phe Asp Phe Lys Asp Thr Asp Val
1 5

<210> 25570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NF2_p.M514V; B0801

<400> 25570
Asp Thr Asp Val Lys Arg Leu Ser Met
1 5

<210> 25571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; B2702

<400> 25571
Gln Asp Ile Asn Leu Gly Val Ser Arg
1               5


<210> 25572
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; B2702

<400> 25572
Arg Gln Asp Ile Asn Leu Gly Val Ser Arg
1               5                   10


<210> 25573
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; C1502

<400> 25573
Ile Asn Leu Gly Val Ser Arg Glu Val
1               5


<210> 25574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; A0201

<400> 25574
Ile Leu Trp Arg Gln Asp Ile Asn Leu
1               5


<210> 25575

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; A6801

<400> 25575
Gln Asp Ile Asn Leu Gly Val Ser Arg
1               5


<210> 25576
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; A3303

<400> 25576
Asp Ile Asn Leu Gly Val Ser Arg
1               5


<210> 25577
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; B1302

<400> 25577
Arg Gln Asp Ile Asn Leu Gly Val
1               5


<210> 25578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; A3303

<400> 25578
Gln Asp Ile Asn Leu Gly Val Ser Arg
1               5


<210> 25579
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; A3101

<400> 25579
Arg Gln Asp Ile Asn Leu Gly Val Ser Arg
1               5                   10


<210> 25580
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; A6801

<400> 25580
Asp Ile Asn Leu Gly Val Ser Arg
1               5


<210> 25581
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; B2705

<400> 25581
Arg Gln Asp Ile Asn Leu Gly Val Ser Arg
1               5                   10


<210> 25582
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; C0802

<400> 25582
Arg Gln Asp Ile Asn Leu Gly Val
1               5


<210> 25583
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; B4002

<400> 25583
Gln Asp Ile Asn Leu Gly Val Ser Arg Glu Val
1               5                   10


<210> 25584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.D29N; A3101

<400> 25584
Gln Asp Ile Asn Leu Gly Val Ser Arg
1               5


<210> 25585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.E79K; C0501

<400> 25585
Gln Leu Asp Glu Lys Thr Gly Glu Phe
1               5


<210> 25586
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.E79K; A0201

<400> 25586
Gln Leu Asp Glu Lys Thr Gly Glu Phe Leu
1               5                   10


<210> 25587
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.E79K; A0101

<400> 25587
Gln Leu Asp Glu Lys Thr Gly Glu Phe
1               5


<210> 25588
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.E79K; C0501

<400> 25588
Gln Leu Asp Glu Lys Thr Gly Glu Phe Leu
1               5                   10


<210> 25589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.G31A; A1101

<400> 25589
Gln Asp Ile Asp Leu Ala Val Ser Arg
1               5


<210> 25590
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.G31A; B5101

<400> 25590
Asp Leu Ala Val Ser Arg Glu Val
1               5


<210> 25591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.G31A; B1501

<400> 25591

Ala Val Ser Arg Glu Val Phe Asp Phe
1               5


<210> 25592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.G81S; C0802

<400> 25592
Gln Leu Asp Glu Glu Thr Ser Glu Phe
1               5


<210> 25593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.G81S; C0802

<400> 25593
Gln Leu Asp Glu Glu Thr Ser Glu Phe Leu
1               5                   10


<210> 25594
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.G81S; C0501

<400> 25594
Gln Leu Asp Glu Glu Thr Ser Glu Phe
1               5


<210> 25595
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.G81S; B1501

<400> 25595
Leu Gln Leu Asp Glu Glu Thr Ser Glu Phe
1               5                   10

<210> 25596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.R34Q; B1501

<400> 25596
Gly Val Ser Gln Glu Val Phe Asp Phe
1               5


<210> 25597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.R34Q; B5101

<400> 25597
Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 25598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NFE2L2_p.R34Q; A0201

<400> 25598
Ile Asp Leu Gly Val Ser Gln Glu Val
1               5


<210> 25599
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; B3501

<400> 25599
Ser Ala Val Gly Ala Thr Ala Thr Ala Thr Trp
1               5                   10

<210> 25600
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; B1501

<400> 25600
Ser Ala Val Gly Ala Thr Ala Thr Ala Thr Trp
1               5                   10


<210> 25601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; C0303

<400> 25601
Ser Ala Val Gly Ala Thr Ala Thr Ala
1               5


<210> 25602
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; A2601

<400> 25602
Ser Ala Val Gly Ala Thr Ala Thr Ala Thr Trp
1               5                   10


<210> 25603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; C0304

<400> 25603
Ser Ala Val Gly Ala Thr Ala Thr Ala
1               5


<210> 25604
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; B3501

<400> 25604
Ser Ala Val Gly Ala Thr Ala Thr Ala
1               5


<210> 25605
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; B4402

<400> 25605
Ala Val Gly Ala Thr Ala Thr Ala Thr Trp
1               5                   10


<210> 25606
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.G85Afs*10; B4403

<400> 25606
Ala Val Gly Ala Thr Ala Thr Ala Thr Trp
1               5                   10


<210> 25607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.L17F; B3501

<400> 25607
Thr Pro Phe Ser Val Ser Asp Ile Phe
1               5


<210> 25608
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.L17F; B3501

<400> 25608
Asp Ile Phe Ser Pro Leu Glu Glu Ser Tyr
1               5                   10


<210> 25609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.L17F; B3501

<400> 25609
Ile Phe Ser Pro Leu Glu Glu Ser Tyr
1               5


<210> 25610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.Q204L; A0201

<400> 25610
Ser Met Ile His Leu Thr Pro Thr Leu
1               5


<210> 25611
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.Q204L; B1501

<400> 25611
Ser Met Ile His Leu Thr Pro Thr Leu
1               5


<210> 25612
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; NKX2-1_p.Q204L; C1203

<400> 25612
Leu Thr Pro Thr Leu Val Lys Ile Trp
1               5


<210> 25613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; A0301

<400> 25613
Gln Val Tyr Glu Leu Glu Gln Arg Phe Lys
1               5                   10


<210> 25614
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; B1501

<400> 25614
Gln Val Tyr Glu Leu Glu Gln Arg Phe
1               5


<210> 25615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; B3501

<400> 25615
Gln Val Tyr Glu Leu Glu Gln Arg Phe
1               5


<210> 25616
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; A1101

<400> 25616
Gln Val Tyr Glu Leu Glu Gln Arg Phe Lys
1               5                   10


<210> 25617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; C0602

<400> 25617
Gln Arg Phe Lys Gln Gln Lys Tyr Leu
1               5


<210> 25618
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; B1501

<400> 25618
Ala Gln Val Tyr Glu Leu Glu Gln Arg Phe
1               5                   10


<210> 25619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; B4403

<400> 25619
Gln Val Tyr Glu Leu Glu Gln Arg Phe
1               5


<210> 25620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NKX2-1_p.R178Q; A2601

<400> 25620
Gln Val Tyr Glu Leu Glu Gln Arg Phe

1 5

<210> 25621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; A2402

<400> 25621
Ser Tyr Glu Thr Thr Lys Val Leu Leu
1 5

<210> 25622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; B5701

<400> 25622
Thr Thr Lys Val Leu Leu Asp His Phe
1 5

<210> 25623
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; B4001

<400> 25623
Tyr Glu Thr Thr Lys Val Leu Leu
1 5

<210> 25624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; B4002

<400> 25624
Tyr Glu Thr Thr Lys Val Leu Leu
1 5

<210> 25625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; A2301

<400> 25625
Ser Tyr Glu Thr Thr Lys Val Leu Leu
1               5


<210> 25626
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; A6802

<400> 25626
Glu Thr Thr Lys Val Leu Leu Asp His Phe
1               5                   10


<210> 25627
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; B4901

<400> 25627
Tyr Glu Thr Thr Lys Val Leu Leu
1               5


<210> 25628
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; A6802

<400> 25628
Glu Thr Thr Lys Val Leu Leu Asp His Phe Ala
1               5                   10


<210> 25629

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; B3701

<400> 25629
Tyr Glu Thr Thr Lys Val Leu Leu
1               5


<210> 25630
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; B4002

<400> 25630
Arg Glu Gly Ser Tyr Glu Thr Thr Lys Val Leu
1               5                   10


<210> 25631
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; C0401

<400> 25631
Ser Tyr Glu Thr Thr Lys Val Leu Leu
1               5


<210> 25632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.A2077T; B5801

<400> 25632
Gly Ser Tyr Glu Thr Thr Lys Val Leu
1               5


<210> 25633
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.G1788S; B4001

<400> 25633
Arg Glu Pro Leu Ser Glu Asp Ser Val Gly Leu
1               5                   10


<210> 25634
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.G1788S; B4001

<400> 25634
Ser Glu Asp Ser Val Gly Leu Lys Pro Leu
1               5                   10


<210> 25635
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.S2467L; B4001

<400> 25635
Gln Glu Ser Pro Ala Leu Pro Thr Leu
1               5


<210> 25636
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.S2467L; B4403

<400> 25636
Gln Glu Ser Pro Ala Leu Pro Thr Leu
1               5


<210> 25637
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.S2467L; B4001

<400> 25637
Gln Glu Ser Pro Ala Leu Pro Thr Leu Leu
1               5                   10


<210> 25638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.S2467L; B4402

<400> 25638
Gln Glu Ser Pro Ala Leu Pro Thr Leu
1               5


<210> 25639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH1_p.S2467L; B3501

<400> 25639
Leu Pro Thr Leu Leu Pro Ser Ser Leu
1               5


<210> 25640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH2_p.R2347H; B3501

<400> 25640
Met Ala His Leu Pro Ser Val Ala Phe
1               5


<210> 25641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH2_p.R2347H; B1501

<400> 25641
Met Ala His Leu Pro Ser Val Ala Phe
1               5


<210> 25642
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; NOTCH2_p.R2347H; C0304

<400> 25642
Met Ala His Leu Pro Ser Val Ala Phe
1               5


<210> 25643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH2_p.R2347H; C0303

<400> 25643
Met Ala His Leu Pro Ser Val Ala Phe
1               5


<210> 25644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH3_p.P2033S; B0702

<400> 25644
Gln Pro Ser Gly Pro Arg Ser Ser Pro
1               5


<210> 25645
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NOTCH3_p.R1834W; C0802

<400> 25645

Trp Thr Asp Arg Thr Gly Glu Thr Ala Leu
1 5 10

<210> 25646
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A0101

<400> 25646
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1 5 10

<210> 25647
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; C0302

<400> 25647
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1 5 10

<210> 25648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A3101

<400> 25648
Gly Gln Lys Glu Tyr Ser Ala Met Arg
1 5

<210> 25649
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A2601

<400> 25649
Asp Thr Ala Gly Gln Lys Glu Tyr Ser Ala Met
1 5 10

<210> 25650
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B1501

<400> 25650
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B5801

<400> 25651
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25652
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B1501

<400> 25652
Gly Gln Lys Glu Tyr Ser Ala Met
1               5


<210> 25653
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A2601

<400> 25653
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10

<210> 25654
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B1502

<400> 25654
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25655
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B1502

<400> 25655
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25656
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B4403

<400> 25656
Lys Glu Tyr Ser Ala Met Arg Asp Gln Tyr
1               5                   10


<210> 25657
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; C1602

<400> 25657
Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5


<210> 25658
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A6801

<400> 25658
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25659
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B4601

<400> 25659
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25660
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.E62K; B3901

<400> 25660
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25661
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A2902

<400> 25661
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25662
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; C0802

<400> 25662
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B3906

<400> 25663
Thr Ala Gly Gln Lys Glu Tyr Ser Ala
1               5


<210> 25664
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A3002

<400> 25664
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25665
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A0201

<400> 25665
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25666
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; NRAS_p.E62K; B4403

<400> 25666
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25667
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A2601

<400> 25667
Asp Thr Ala Gly Gln Lys Glu Tyr
1               5


<210> 25668
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B3501

<400> 25668
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25669
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B5801

<400> 25669
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1               5                   10


<210> 25670
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A2901

<400> 25670
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1  5  10

<210> 25671
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B4403

<400> 25671
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1  5  10

<210> 25672
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; C0801

<400> 25672
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1  5  10

<210> 25673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B4403

<400> 25673
Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1  5

<210> 25674
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B2702

<400> 25674
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr

1 5 10

<210> 25675
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A3301

<400> 25675
Asp Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1 5 10

<210> 25676
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A6802

<400> 25676
Asp Thr Ala Gly Gln Lys Glu Tyr Ser Ala
1 5 10

<210> 25677
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B4402

<400> 25677
Ile Leu Asp Thr Ala Gly Gln Lys Glu Tyr
1 5 10

<210> 25678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; A6801

<400> 25678
Asp Ile Leu Asp Thr Ala Gly Gln Lys
1 5

<210> 25679
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.E62K; B4402

<400> 25679
Lys Glu Tyr Ser Ala Met Arg Asp Gln Tyr
1               5                   10


<210> 25680
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; A1101

<400> 25680
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 25681
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; A1101

<400> 25681
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 25682
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; A0301

<400> 25682
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 25683

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; A0301

<400> 25683
Val Val Gly Ala Cys Gly Val Gly Lys
1               5


<210> 25684
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; A6801

<400> 25684
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 25685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; C0102

<400> 25685
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25686
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; B0702

<400> 25686
Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25687
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; B2702

<400> 25687
Val Val Val Gly Ala Cys Gly Val Gly Lys
1               5                   10


<210> 25688
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; B0702

<400> 25688
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25689
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; B0801

<400> 25689
Cys Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25690
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12C; C0304

<400> 25690
Gly Ala Cys Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25691
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B1402

<400> 25691
Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25692
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A1101

<400> 25692
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 25693
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; C0802

<400> 25693
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25694
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B0801

<400> 25694
Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25695
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B2702

<400> 25695
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 25696
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A1101

<400> 25696
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 25697
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A6801

<400> 25697
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 25698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B3701

<400> 25698
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25699
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B1401

<400> 25699

Asp Gly Val Gly Lys Ser Ala Leu
1 5

<210> 25700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B0702

<400> 25700
Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5

<210> 25701
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B0801

<400> 25701
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25702
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B5101

<400> 25702
Asp Gly Val Gly Lys Ser Ala Leu Thr Ile
1 5 10

<210> 25703
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B3502

<400> 25703
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25704
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B4001

<400> 25704
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25705
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B2702

<400> 25705
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 25706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0206

<400> 25706
Leu Val Val Val Gly Ala Asp Gly Val
1               5


<210> 25707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B4002

<400> 25707
Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5

<210> 25708
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0301

<400> 25708
Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 25709
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; C0501

<400> 25709
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25710
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; C0801

<400> 25710
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25711
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0206

<400> 25711
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 25712
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B0702

<400> 25712
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25713
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A1101

<400> 25713
Leu Val Val Val Gly Ala Asp Gly Val Gly Lys
1               5                   10


<210> 25714
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0206

<400> 25714
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 25715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0205

<400> 25715
Leu Val Val Val Gly Ala Asp Gly Val
1               5


<210> 25716
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0201

<400> 25716
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 25717
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A2601

<400> 25717
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 25718
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B1302

<400> 25718
Lys Leu Val Val Val Gly Ala Asp Gly Val
1               5                   10


<210> 25719
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; C0102

<400> 25719
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25720
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; NRAS_p.G12D; A1101

<400> 25720
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 25721
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B3901

<400> 25721
Val Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25722
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; B3503

<400> 25722
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25723
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A6801

<400> 25723
Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1               5                   10


<210> 25724
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; C0304

<400> 25724
Gly Ala Asp Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0205

<400> 25725
Val Gly Ala Asp Gly Val Gly Lys Ser Ala
1               5                   10


<210> 25726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12D; A0301

<400> 25726
Val Val Gly Ala Asp Gly Val Gly Lys
1               5


<210> 25727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A1101

<400> 25727
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A0301

<400> 25728
Val Val Gly Ala Val Gly Val Gly Lys

1 5

<210> 25729
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A1101

<400> 25729
Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25730
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A6801

<400> 25730
Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; C0102

<400> 25731
Ala Val Gly Val Gly Lys Ser Ala Leu
1 5

<210> 25732
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A0301

<400> 25732
Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A6801

<400> 25733
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25734
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B0702

<400> 25734
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25735
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B2702

<400> 25735
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25736
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B2702

<400> 25736
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25737

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B0801

<400> 25737
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25738
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B0801

<400> 25738
Val Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25739
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B2702

<400> 25739
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25740
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; C0704

<400> 25740
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25741
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A0201

<400> 25741
Lys Leu Val Val Val Gly Ala Val Gly Val
1               5                   10


<210> 25742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; C0304

<400> 25742
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25743
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B4001

<400> 25743
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25744
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B1402

<400> 25744
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25745
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B1501

<400> 25745
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25746
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B1302

<400> 25746
Val Val Val Gly Ala Val Gly Val
1               5


<210> 25747
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A3101

<400> 25747
Val Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25748
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A6802

<400> 25748
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25749
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A6801

<400> 25749
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B4002

<400> 25750
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25751
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B1302

<400> 25751
Val Gly Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25752
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B0801

<400> 25752
Ala Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25753
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; C0303

<400> 25753

Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25754
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A1101

<400> 25754
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1 5 10

<210> 25755
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B1302

<400> 25755
Lys Leu Val Val Val Gly Ala Val
1 5

<210> 25756
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B0702

<400> 25756
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1 5 10

<210> 25757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A3303

<400> 25757
Val Val Gly Ala Val Gly Val Gly Lys
1 5

<210> 25758
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A2601

<400> 25758
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25759
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B1501

<400> 25759
Gly Ala Val Gly Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25760
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A3101

<400> 25760
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25761
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A6802

<400> 25761
Leu Val Val Val Gly Ala Val Gly Val
1               5

<210> 25762
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; C0304

<400> 25762
Gly Ala Val Gly Val Gly Lys Ser Ala
1               5


<210> 25763
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A1101

<400> 25763
Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25764
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A6801

<400> 25764
Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1               5                   10


<210> 25765
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A3001

<400> 25765
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25766
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A0301

<400> 25766
Leu Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25767
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A3303

<400> 25767
Val Val Val Gly Ala Val Gly Val Gly Lys
1               5                   10


<210> 25768
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B0702

<400> 25768
Val Gly Val Gly Lys Ser Ala Leu
1               5


<210> 25769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; B4002

<400> 25769
Val Val Val Gly Ala Val Gly Val
1               5


<210> 25770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G12V; A0301

<400> 25770
Val Gly Ala Val Gly Val Gly Lys
1               5


<210> 25771
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13C; A1101

<400> 25771
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 25772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13C; A1101

<400> 25772
Val Val Gly Ala Gly Cys Val Gly Lys
1               5


<210> 25773
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13C; A6801

<400> 25773
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 25774
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; NRAS_p.G13C; A0301

<400> 25774
Val Val Val Gly Ala Gly Cys Val Gly Lys
1               5                   10


<210> 25775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13C; B0801

<400> 25775
Ala Gly Cys Val Gly Lys Ser Ala Leu
1               5


<210> 25776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13C; A0301

<400> 25776
Val Val Gly Ala Gly Cys Val Gly Lys
1               5


<210> 25777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13C; B0702

<400> 25777
Ala Gly Cys Val Gly Lys Ser Ala Leu
1               5


<210> 25778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; C0802

<400> 25778
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25779
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A6801

<400> 25779
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25780
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; C0704

<400> 25780
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 25781
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B4002

<400> 25781
Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25782
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A1101

<400> 25782
Val Val Val Gly Ala Gly Asp Val Gly Lys

1 5 10

<210> 25783
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B2702

<400> 25783
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1 5 10

<210> 25784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B5101

<400> 25784
Asp Val Gly Lys Ser Ala Leu Thr Ile
1 5

<210> 25785
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B2702

<400> 25785
Val Val Val Gly Ala Gly Asp Val Gly Lys
1 5 10

<210> 25786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A1101

<400> 25786
Val Val Gly Ala Gly Asp Val Gly Lys
1 5

<210> 25787
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; C0501

<400> 25787
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B0702

<400> 25788
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25789
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B0702

<400> 25789
Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25790
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B4002

<400> 25790
Gly Asp Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25791

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A6801

<400> 25791
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25792
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B1302

<400> 25792
Gly Asp Val Gly Lys Ser Ala Leu Thr Ile
1               5                   10


<210> 25793
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B0702

<400> 25793
Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; C0304

<400> 25794
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25795
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A6801

<400> 25795
Val Val Gly Ala Gly Asp Val Gly Lys
1               5


<210> 25796
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A6802

<400> 25796
Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25797
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A1101

<400> 25797
Leu Val Val Val Gly Ala Gly Asp Val Gly Lys
1               5                   10


<210> 25798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B3502

<400> 25798
Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5


<210> 25799
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; A2601

<400> 25799
Val Val Val Gly Ala Gly Asp Val Gly Lys Ser
1               5                   10


<210> 25800
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13D; B0801

<400> 25800
Val Gly Ala Gly Asp Val Gly Lys Ser Ala Leu
1               5                   10


<210> 25801
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; A3303

<400> 25801
Glu Tyr Lys Leu Val Val Val Gly Ala Gly Arg
1               5                   10


<210> 25802
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; A1101

<400> 25802
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 25803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; A1101

<400> 25803
Val Val Gly Ala Gly Arg Val Gly Lys
1               5


<210> 25804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; A0301

<400> 25804
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 25805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; B0702

<400> 25805
Ala Gly Arg Val Gly Lys Ser Ala Leu
1               5


<210> 25806
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; A6801

<400> 25806
Val Val Val Gly Ala Gly Arg Val Gly Lys
1               5                   10


<210> 25807
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; A0301

<400> 25807

Val Val Gly Ala Gly Arg Val Gly Lys
1 5

<210> 25808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; A3101

<400> 25808
Lys Leu Val Val Val Gly Ala Gly Arg
1 5

<210> 25809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; B1302

<400> 25809
Arg Val Gly Lys Ser Ala Leu Thr Ile
1 5

<210> 25810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; B0801

<400> 25810
Ala Gly Arg Val Gly Lys Ser Ala Leu
1 5

<210> 25811
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.G13R; B5701

<400> 25811
Val Val Val Gly Ala Gly Arg Val Gly Lys
1 5 10

<210> 25812
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; A0101

<400> 25812
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25813
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B1501

<400> 25813
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25814
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B3501

<400> 25814
Asp Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25815
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; A2601

<400> 25815
Asp Thr Ala Gly His Glu Glu Tyr Ser Ala Met
1               5                   10

<210> 25816
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; A2601

<400> 25816
Asp Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25817
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B2702

<400> 25817
Asp Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25818
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B3501

<400> 25818
Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5


<210> 25819
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; A2902

<400> 25819
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25820
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B3901

<400> 25820
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25821
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B3501

<400> 25821
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25822
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B1801

<400> 25822
Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5


<210> 25823
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61H; A2601

<400> 25823
Asp Thr Ala Gly His Glu Glu Tyr
1               5


<210> 25824
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; C0802

<400> 25824
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25825
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B2702

<400> 25825
Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5


<210> 25826
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B2702

<400> 25826
Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25827
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61H; A0101

<400> 25827
Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5


<210> 25828
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; NRAS_p.Q61H; A2902

<400> 25828
Asp Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25829
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B1501

<400> 25829
Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5


<210> 25830
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B0801

<400> 25830
Asp Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25831
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B1501

<400> 25831
Asp Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25832
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61H; A6801

<400> 25832
Asp Ile Leu Asp Thr Ala Gly His Glu Glu Tyr
1               5                   10


<210> 25833
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61H; B3901

<400> 25833
Asp Thr Ala Gly His Glu Glu Tyr
1               5


<210> 25834
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; A0101

<400> 25834
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; C0302

<400> 25835
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25836
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B1501

<400> 25836
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr

1 5 10

<210> 25837
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; A2601

<400> 25837
Asp Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1 5 10

<210> 25838
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B5801

<400> 25838
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1 5 10

<210> 25839
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B4601

<400> 25839
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1 5 10

<210> 25840
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3501

<400> 25840
Asp Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1 5 10

<210> 25841
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3901

<400> 25841
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25842
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; A2601

<400> 25842
Asp Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B2702

<400> 25843
Leu Asp Ile Leu Asp Thr Ala Gly Lys
1               5


<210> 25844
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; C0801

<400> 25844
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25845

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3501

<400> 25845
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25846
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3501

<400> 25846
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25847
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B2702

<400> 25847
Leu Leu Asp Ile Leu Asp Thr Ala Gly Lys
1               5                   10


<210> 25848
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3503

<400> 25848
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25849
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; A2902

<400> 25849
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3501

<400> 25850
Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5


<210> 25851
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B2702

<400> 25851
Asp Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25852
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3502

<400> 25852
Thr Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B1501

<400> 25853
Ala Gly Lys Glu Glu Tyr Ser Ala Met
1               5


<210> 25854
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61K; A3002

<400> 25854
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25855
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; A2901

<400> 25855
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25856
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B1501

<400> 25856
Asp Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25857
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; B3502

<400> 25857
Thr Ala Gly Lys Glu Glu Tyr Ser Ala
1               5


<210> 25858
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61K; C0802

<400> 25858
Ile Leu Asp Thr Ala Gly Lys Glu Glu Tyr
1               5                   10


<210> 25859
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A0101

<400> 25859
Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25860
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A2601

<400> 25860
Asp Thr Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25861
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B3501

<400> 25861

Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B1501

<400> 25862
Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25863
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A2601

<400> 25863
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25864
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B3901

<400> 25864
Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25865
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A2601

<400> 25865
Asp Thr Ala Gly Leu Glu Glu Tyr
1               5

<210> 25866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B3501

<400> 25866
Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5


<210> 25867
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B2702

<400> 25867
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B3501

<400> 25868
Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B3501

<400> 25869
Thr Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5                   10

<210> 25870
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B1801

<400> 25870
Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5


<210> 25871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A2902

<400> 25871
Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25872
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B2702

<400> 25872
Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25873
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A0201

<400> 25873
Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25874
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B3503

<400> 25874
Thr Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B4002

<400> 25875
Leu Asp Ile Leu Asp Thr Ala Gly Leu
1               5


<210> 25876
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; B1501

<400> 25876
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25877
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A6801

<400> 25877
Asp Thr Ala Gly Leu Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25878
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A6801

<400> 25878
Asp Thr Ala Gly Leu Glu Glu Tyr Ser Ala
1               5                   10


<210> 25879
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61L; A2902

<400> 25879
Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr
1               5                   10


<210> 25880
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; A0101

<400> 25880
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25881
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; C0302

<400> 25881
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25882
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; NRAS_p.Q61R; B1501

<400> 25882
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25883
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B5801

<400> 25883
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25884
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B3501

<400> 25884
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25885
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; A2601

<400> 25885
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B2702

<400> 25886
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25887
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; A2601

<400> 25887
Asp Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25888
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B3901

<400> 25888
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25889
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; A2902

<400> 25889
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B2702

<400> 25890
Leu Asp Ile Leu Asp Thr Ala Gly Arg

1 5

<210> 25891
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; A3002

<400> 25891
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1 5 10

<210> 25892
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B2702

<400> 25892
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1 5 10

<210> 25893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B2705

<400> 25893
Gly Arg Glu Glu Tyr Ser Ala Met Arg
1 5

<210> 25894
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B3501

<400> 25894
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1 5 10

<210> 25895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B3501

<400> 25895
Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5


<210> 25896
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B3501

<400> 25896
Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25897
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B1501

<400> 25897
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25898
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B3502

<400> 25898
Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25899

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B3503

<400> 25899
Thr Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5                   10


<210> 25900
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B1801

<400> 25900
Asp Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B5701

<400> 25901
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25902
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; C0801

<400> 25902
Ile Leu Asp Thr Ala Gly Arg Glu Glu Tyr
1               5                   10


<210> 25903
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; NRAS_p.Q61R; B0702

<400> 25903
Ala Gly Arg Glu Glu Tyr Ser Ala Met
1               5


<210> 25904
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.M539I; A0201

<400> 25904
Asn Leu Leu Pro Glu Gln Asp Lys Ile Leu Val
1               5                   10


<210> 25905
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.M539I; A0201

<400> 25905
Leu Leu Pro Glu Gln Asp Lys Ile Leu Val Ala
1               5                   10


<210> 25906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.P335L; C0303

<400> 25906
Phe Ile Phe Thr Glu Phe Leu Glu Leu
1               5


<210> 25907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.P335L; C1502

<400> 25907
Phe Ile Phe Thr Glu Phe Leu Glu Leu
1               5


<210> 25908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.P335L; C0304

<400> 25908
Phe Ile Phe Thr Glu Phe Leu Glu Leu
1               5


<210> 25909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.P335L; A6801

<400> 25909
Glu Leu Ala Ala Asn Glu Thr Val Arg
1               5


<210> 25910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.P335L; C0202

<400> 25910
Phe Ile Phe Thr Glu Phe Leu Glu Leu
1               5


<210> 25911
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.R686C; B5701

<400> 25911
Cys Thr Met Leu Pro Ile Arg Trp
1               5


<210> 25912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.R744H; A1101

<400> 25912
Ile Thr Gln Gly His Glu Leu Glu Arg
1               5


<210> 25913
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.R748W; B5701

<400> 25913
Ile Thr Gln Gly Arg Glu Leu Glu Trp
1               5


<210> 25914
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK1_p.W514C; B0801

<400> 25914
Asp Ile Val Leu Lys Cys Glu Leu
1               5


<210> 25915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.D50N; C0602

<400> 25915

Arg Arg Pro Asp Asn Gly Asn Leu Phe
1 5

<210> 25916
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.G666C; B1501

<400> 25916
Ser Gln Ile Ala Ser Cys Met Val Tyr
1 5

<210> 25917
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.G699V; A0301

<400> 25917
Lys Ile Gly Asp Phe Val Met Ser Arg
1 5

<210> 25918
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.P304T; A2402

<400> 25918
Tyr Tyr Thr Pro Arg Val Val Ser Leu
1 5

<210> 25919
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.P304T; A0301

<400> 25919
Thr Val Tyr Tyr Thr Pro Arg Val Val
1 5

<210> 25920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.P304T; B5101

<400> 25920
Thr Val Tyr Tyr Thr Pro Arg Val Val
1               5


<210> 25921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.Q159H; B4403

<400> 25921
Arg Glu Leu Gln Leu Glu His Asn Phe
1               5


<210> 25922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.Q159H; B4402

<400> 25922
Arg Glu Leu Gln Leu Glu His Asn Phe
1               5


<210> 25923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.Q159H; A2301

<400> 25923
Arg Glu Leu Gln Leu Glu His Asn Phe
1               5

<210> 25924
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.Q159H; A2301

<400> 25924
Arg Glu Leu Gln Leu Glu His Asn Phe Phe
1               5                   10


<210> 25925
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.Q159H; B4403

<400> 25925
Arg Glu Leu Gln Leu Glu His Asn Phe Phe
1               5                   10


<210> 25926
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; A2402

<400> 25926
Tyr Tyr Pro Pro His Val Val Ser Leu
1               5


<210> 25927
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; C0702

<400> 25927
Tyr Tyr Pro Pro His Val Val Ser Leu
1               5


<210> 25928
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; B5101

<400> 25928
Tyr Pro Pro His Val Val Ser Leu
1               5


<210> 25929
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; A2402

<400> 25929
Val Tyr Tyr Pro Pro His Val Val Ser Leu
1               5                   10


<210> 25930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; C1203

<400> 25930
Thr Val Tyr Tyr Pro Pro His Val Val
1               5


<210> 25931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; C0401

<400> 25931
Tyr Tyr Pro Pro His Val Val Ser Leu
1               5


<210> 25932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; B5101

<400> 25932
Thr Val Tyr Tyr Pro Pro His Val Val
1               5


<210> 25933
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; NTRK3_p.R306H; C0602

<400> 25933
Tyr Tyr Pro Pro His Val Val Ser Leu
1               5


<210> 25934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; NTRK3_p.R306H; C0102

<400> 25934
Tyr Tyr Pro Pro His Val Val Ser Leu
1               5


<210> 25935
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.I279Yfs*4; B5101

<400> 25935
Asp Ala Asn Ser Ile Lys Lys Tyr Phe Ile
1               5                   10


<210> 25936
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; PBRM1_p.I279Yfs*4; B4403

<400> 25936
Lys Asp Ala Asn Ser Ile Lys Lys Tyr
1               5


<210> 25937
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.I279Yfs*4; B3501

<400> 25937
Asp Ala Asn Ser Ile Lys Lys Tyr
1               5


<210> 25938
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PBRM1_p.I279Yfs*4; B5101

<400> 25938
Asp Ala Asn Ser Ile Lys Lys Tyr
1               5


<210> 25939
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PBRM1_p.I279Yfs*4; B1801

<400> 25939
Asp Ala Asn Ser Ile Lys Lys Tyr
1               5


<210> 25940
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.I279Yfs*4; A2601

<400> 25940
Asp Ala Asn Ser Ile Lys Lys Tyr
1               5


<210> 25941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.I279Yfs*4; B4402

<400> 25941
Lys Asp Ala Asn Ser Ile Lys Lys Tyr
1               5


<210> 25942
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.R1088W; B5101

<400> 25942
Val Pro Trp Asp Val Pro Leu Pro Val Val
1               5                   10


<210> 25943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.R1088W; B5101

<400> 25943
Val Pro Trp Asp Val Pro Leu Pro Val
1               5


<210> 25944
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.R1088W; B3501

<400> 25944
Val Pro Trp Asp Val Pro Leu Pro Val

1 5

<210> 25945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.R1088W; B5701

<400> 25945
Ile Ser Ser Val Arg Phe Val Pro Trp
1 5

<210> 25946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.R1088W; A0201

<400> 25946
Val Pro Trp Asp Val Pro Leu Pro Val
1 5

<210> 25947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.R876C; C1402

<400> 25947
Phe Phe Ile Lys Ile Cys Asp Glu Leu
1 5

<210> 25948
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PBRM1_p.R876C; B0801

<400> 25948
Phe Ile Lys Ile Cys Asp Glu Leu
1 5

<210> 25949
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B4901

<400> 25949
Gln Glu Ile Lys Val Pro Ser Ile
1               5


<210> 25950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B4001

<400> 25950
Gln Glu Ile Lys Val Pro Ser Ile Lys Leu
1               5                   10


<210> 25951
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B1801

<400> 25951
Gln Glu Ile Lys Val Pro Ser Ile
1               5


<210> 25952
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B1302

<400> 25952
Leu Gln Glu Ile Lys Val Pro Ser Ile
1               5


<210> 25953

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B4403

<400> 25953
Gln Glu Ile Lys Val Pro Ser Ile Lys Leu
1               5                   10


<210> 25954
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; A3001

<400> 25954
Gln Glu Ile Lys Val Pro Ser Ile Lys Leu
1               5                   10


<210> 25955
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B1302

<400> 25955
Gln Glu Ile Lys Val Pro Ser Ile
1               5


<210> 25956
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; A3001

<400> 25956
Gln Glu Ile Lys Val Pro Ser Ile
1               5


<210> 25957
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; A0201

<400> 25957
Met Leu Gln Glu Ile Lys Val Pro Ser Ile
1               5                   10


<210> 25958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B1302

<400> 25958
Lys Gly Ile Thr Met Leu Gln Glu Ile
1               5


<210> 25959
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; A2301

<400> 25959
Gln Glu Ile Lys Val Pro Ser Ile
1               5


<210> 25960
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B5101

<400> 25960
Gln Glu Ile Lys Val Pro Ser Ile
1               5


<210> 25961
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; B1302

<400> 25961
Gly Ile Thr Met Leu Gln Glu Ile
1               5


<210> 25962
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.E262Q; A0201

<400> 25962
Thr Met Leu Gln Glu Ile Lys Val Pro Ser Ile
1               5                   10


<210> 25963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.F182L; B5101

<400> 25963
Gln Gly Phe Asn Gly Thr Leu Thr Val
1               5


<210> 25964
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.F182L; B3501

<400> 25964
Asn Gly Thr Leu Thr Val Gly Pro Tyr
1               5


<210> 25965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.F182L; C1203

<400> 25965
Gln Gly Phe Asn Gly Thr Leu Thr Val
1               5


<210> 25966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; A6802

<400> 25966
Gly Thr Ser His Leu Ala Phe Leu Val
1               5


<210> 25967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; C1502

<400> 25967
Thr Ser His Leu Ala Phe Leu Val Leu
1               5


<210> 25968
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; A6802

<400> 25968
Thr Ser His Leu Ala Phe Leu Val
1               5


<210> 25969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; C1601

<400> 25969

Thr Ser His Leu Ala Phe Leu Val Leu
1 5

<210> 25970
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; B5101

<400> 25970
Thr Ser His Leu Ala Phe Leu Val
1 5

<210> 25971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; B5701

<400> 25971
Gly Thr Ser His Leu Ala Phe Leu Val
1 5

<210> 25972
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; C0303

<400> 25972
Thr Ser His Leu Ala Phe Leu Val Leu
1 5

<210> 25973
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; B1302

<400> 25973
Thr Ser His Leu Ala Phe Leu Val
1 5

<210> 25974
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; B5801

<400> 25974
Gly Thr Ser His Leu Ala Phe Leu Val
1               5


<210> 25975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; C0304

<400> 25975
Thr Ser His Leu Ala Phe Leu Val Leu
1               5


<210> 25976
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.P6L; A6802

<400> 25976
Gly Thr Ser His Leu Ala Phe Leu Val Leu
1               5                   10


<210> 25977
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.R340W; B5101

<400> 25977
Trp Ala Tyr Pro Pro Pro Arg Ile
1               5

<210> 25978
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.R340W; B5701

<400> 25978
Trp Ala Tyr Pro Pro Pro Arg Ile Ser Trp
1               5                   10


<210> 25979
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.R340W; A2902

<400> 25979
His Phe Val Val Glu Val Trp Ala Tyr
1               5


<210> 25980
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRA_p.R340W; B5701

<400> 25980
Lys His Phe Val Val Glu Val Trp
1               5


<210> 25981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; C0401

<400> 25981
Val Pro Asp Pro Thr Val Asp Phe Leu
1               5


<210> 25982
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; C0802

<400> 25982
Val Pro Asp Pro Thr Val Asp Phe Leu
1               5


<210> 25983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; B3501

<400> 25983
Val Pro Asp Pro Thr Val Asp Phe Leu
1               5


<210> 25984
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; C0501

<400> 25984
Val Pro Asp Pro Thr Val Asp Phe Leu
1               5


<210> 25985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; A2402

<400> 25985
Ile Phe Val Pro Asp Pro Thr Val Asp Phe
1               5                   10


<210> 25986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; B3501

<400> 25986
Phe Val Pro Asp Pro Thr Val Asp Phe
1               5


<210> 25987
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; C0102

<400> 25987
Phe Val Pro Asp Pro Thr Val Asp Phe Leu
1               5                   10


<210> 25988
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; B3501

<400> 25988
Val Pro Asp Pro Thr Val Asp Phe
1               5


<210> 25989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.G126D; C0102

<400> 25989
Phe Val Pro Asp Pro Thr Val Asp Phe
1               5


<210> 25990
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; PDGFRB_p.R113Q; B4403

<400> 25990
Leu Glu Thr Asp Glu Gln Lys Arg Leu
1               5


<210> 25991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R113Q; A2601

<400> 25991
Glu Thr Asp Glu Gln Lys Arg Leu Tyr
1               5


<210> 25992
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R113Q; A0101

<400> 25992
Glu Thr Asp Glu Gln Lys Arg Leu Tyr
1               5


<210> 25993
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R113Q; B4403

<400> 25993
Leu Glu Thr Asp Glu Gln Lys Arg Leu Tyr
1               5                   10


<210> 25994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R113Q; B4001

<400> 25994
Leu Glu Thr Asp Glu Gln Lys Arg Leu
1               5


<210> 25995
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R113Q; B4402

<400> 25995
Leu Glu Thr Asp Glu Gln Lys Arg Leu Tyr
1               5                   10


<210> 25996
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R113Q; A2301

<400> 25996
Asp Glu Gln Lys Arg Leu Tyr Ile Phe
1               5


<210> 25997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R113Q; B4402

<400> 25997
Leu Glu Thr Asp Glu Gln Lys Arg Leu
1               5


<210> 25998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R376W; B4001

<400> 25998
Ser Glu Thr Trp Tyr Val Ser Glu Leu

1 5

<210> 25999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PDGFRB_p.R376W; B4403

<400> 25999
Ser Glu Thr Trp Tyr Val Ser Glu Leu
1 5

<210> 26000
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PHOX2B_p.R102C; A1101

<400> 26000
Cys Thr Thr Phe Thr Ser Ala Gln Leu Lys
1 5 10

<210> 26001
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2B_p.R21H; A0301

<400> 26001
Lys Ser Leu Glu Ser Val Gly Ile Ser His Lys
1 5 10

<210> 26002
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2B_p.R21H; A1101

<400> 26002
Lys Ser Leu Glu Ser Val Gly Ile Ser His Lys
1 5 10

<210> 26003
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2B_p.R21H; B1801

<400> 26003
Leu Glu Ser Val Gly Ile Ser His
1               5


<210> 26004
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2B_p.R21H; A0301

<400> 26004
Lys Ser Leu Glu Ser Val Gly Ile Ser His
1               5                   10


<210> 26005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2B_p.R938C; C0501

<400> 26005
Tyr Leu Asp Ser Pro Leu Val Cys Phe
1               5


<210> 26006
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2B_p.R938C; C0802

<400> 26006
Tyr Leu Asp Ser Pro Leu Val Cys Phe
1               5


<210> 26007

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2B_p.S796R; C0202

<400> 26007
Phe Thr Arg Pro Pro Gly Asp Lys Phe
1               5


<210> 26008
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2G_p.R738C; A1101

<400> 26008
Ser Ser Phe Pro Asp Gln Glu Ile Cys Lys
1               5                   10


<210> 26009
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2G_p.R738C; B5101

<400> 26009
Phe Pro Asp Gln Glu Ile Cys Lys Val
1               5


<210> 26010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3C2G_p.R738C; C0501

<400> 26010
Phe Pro Asp Gln Glu Ile Cys Lys Val
1               5


<210> 26011
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C420R; B4403

<400> 26011
Lys Glu Glu His Arg Pro Leu Ala Trp
1               5


<210> 26012
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C420R; B4403

<400> 26012
Glu Glu His Arg Pro Leu Ala Trp
1               5


<210> 26013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C901F; C0802

<400> 26013
Ala Ile Asp Leu Phe Thr Arg Ser Phe
1               5


<210> 26014
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C901F; B5701

<400> 26014
Ala Ala Ile Asp Leu Phe Thr Arg Ser Phe
1               5                   10


<210> 26015
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C901F; C1601

<400> 26015
Ala Ala Ile Asp Leu Phe Thr Arg Ser Phe
1               5                   10


<210> 26016
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C901F; A2301

<400> 26016
Ser Phe Ala Gly Tyr Cys Val Ala Thr Phe
1               5                   10


<210> 26017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C901F; C0401

<400> 26017
Ala Ile Asp Leu Phe Thr Arg Ser Phe
1               5


<210> 26018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.C901F; C0501

<400> 26018
Ala Ile Asp Leu Phe Thr Arg Ser Phe
1               5


<210> 26019
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E110del; A1101

<400> 26019
Lys Val Ile Glu Pro Val Gly Asn Arg Glu Lys
1               5                   10


<210> 26020
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E110del; A0301

<400> 26020
Lys Val Ile Glu Pro Val Gly Asn Arg Glu Lys
1               5                   10


<210> 26021
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E110del; A0301

<400> 26021
Val Ile Glu Pro Val Gly Asn Arg Glu Lys
1               5                   10


<210> 26022
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E110del; A1101

<400> 26022
Val Ile Glu Pro Val Gly Asn Arg Glu Lys
1               5                   10


<210> 26023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E453K; A3001

<400> 26023

Lys Asp Leu Leu Asn Pro Ile Gly Val
1 5

<210> 26024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E453K; A0201

<400> 26024
Lys Asp Leu Leu Asn Pro Ile Gly Val
1 5

<210> 26025
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E453Q; A0201

<400> 26025
Gly Leu Gln Asp Leu Leu Asn Pro Ile Gly Val
1 5 10

<210> 26026
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542K; B5701

<400> 26026
Lys Ile Thr Glu Gln Glu Lys Asp Phe Leu Trp
1 5 10

<210> 26027
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542K; A3101

<400> 26027
Ser Thr Arg Asp Pro Leu Ser Lys Ile Thr Glu
1 5 10

<210> 26028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542K; B5701

<400> 26028
Ser Thr Arg Asp Pro Leu Ser Lys Ile
1               5


<210> 26029
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.E542K; A0203

<400> 26029
Ser Thr Arg Asp Pro Leu Ser Lys Ile
1               5


<210> 26030
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542K; A3001

<400> 26030
Ser Thr Arg Asp Pro Leu Ser Lys Ile
1               5


<210> 26031
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542V; C1502

<400> 26031
Ile Ser Thr Arg Asp Pro Leu Ser Val
1               5

<210> 26032
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542V; B5701

<400> 26032
Ser Thr Arg Asp Pro Leu Ser Val Ile
1               5


<210> 26033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542V; B0702

<400> 26033
Ser Thr Arg Asp Pro Leu Ser Val Ile
1               5


<210> 26034
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542V; B5701

<400> 26034
Val Ile Thr Glu Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 26035
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542V; B1302

<400> 26035
Ile Ser Thr Arg Asp Pro Leu Ser Val
1               5


<210> 26036
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E542V; C1502

<400> 26036
Ser Thr Arg Asp Pro Leu Ser Val
1               5


<210> 26037
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B4403

<400> 26037
Ser Glu Ile Thr Ala Gln Glu Lys Asp Phe
1               5                   10


<210> 26038
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B5701

<400> 26038
Ile Thr Ala Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 26039
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B4001

<400> 26039
Ser Glu Ile Thr Ala Gln Glu Lys Asp Phe Leu
1               5                   10


<210> 26040
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B4402

<400> 26040
Ser Glu Ile Thr Ala Gln Glu Lys Asp Phe
1               5                   10


<210> 26041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B5701

<400> 26041
Thr Ala Gln Glu Lys Asp Phe Leu Trp
1               5


<210> 26042
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B4002

<400> 26042
Ser Glu Ile Thr Ala Gln Glu Lys Asp Phe Leu
1               5                   10


<210> 26043
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B3502

<400> 26043
Asp Pro Leu Ser Glu Ile Thr Ala
1               5


<210> 26044
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; PIK3CA_p.E545A; A0205

<400> 26044
Ile Thr Ala Gln Glu Lys Asp Phe Leu
1               5


<210> 26045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545A; B3906

<400> 26045
Arg Asp Pro Leu Ser Glu Ile Thr Ala
1               5


<210> 26046
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545D; B4403

<400> 26046
Ser Glu Ile Thr Asp Gln Glu Lys Asp Phe
1               5                   10


<210> 26047
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545D; B4402

<400> 26047
Ser Glu Ile Thr Asp Gln Glu Lys Asp Phe
1               5                   10


<210> 26048
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545D; B4001

<400> 26048
Ser Glu Ile Thr Asp Gln Glu Lys Asp Phe Leu
1               5                   10


<210> 26049
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545D; B5701

<400> 26049
Ile Thr Asp Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 26050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545D; C0802

<400> 26050
Ile Thr Asp Gln Glu Lys Asp Phe Leu
1               5


<210> 26051
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.E545D; C0501

<400> 26051
Ile Thr Asp Gln Glu Lys Asp Phe Leu
1               5


<210> 26052
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545G; B4403

<400> 26052
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe

1 5 10

<210> 26053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545G; B4402

<400> 26053
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe
1 5 10

<210> 26054
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545G; B5701

<400> 26054
Ile Thr Gly Gln Glu Lys Asp Phe Leu Trp
1 5 10

<210> 26055
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545G; B4001

<400> 26055
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe Leu
1 5 10

<210> 26056
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545G; B4002

<400> 26056
Ser Glu Ile Thr Gly Gln Glu Lys Asp Phe Leu
1 5 10

<210> 26057
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; B5701

<400> 26057
Ile Thr Lys Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 26058
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; A1101

<400> 26058
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26059
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; A0302

<400> 26059
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26060
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; B4403

<400> 26060
Ser Glu Ile Thr Lys Gln Glu Lys Asp Phe
1               5                   10


<210> 26061

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; B2705

<400> 26061
Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26062
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; B4405

<400> 26062
Ser Glu Ile Thr Lys Gln Glu Lys Asp Phe
1               5                   10


<210> 26063
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; B2702

<400> 26063
Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26064
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; A6801

<400> 26064
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26065
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; A3303

<400> 26065
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26066
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; A0301

<400> 26066
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26067
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; A3001

<400> 26067
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26068
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; A3101

<400> 26068
Ser Thr Arg Asp Pro Leu Ser Glu Ile Thr Lys
1               5                   10


<210> 26069
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545K; B4402

<400> 26069
Ser Glu Ile Thr Lys Gln Glu Lys Asp Phe
1               5                   10


<210> 26070
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545Q; B4403

<400> 26070
Ser Glu Ile Thr Gln Gln Glu Lys Asp Phe
1               5                   10


<210> 26071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545Q; B5701

<400> 26071
Ile Thr Gln Gln Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 26072
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545Q; B4402

<400> 26072
Ser Glu Ile Thr Gln Gln Glu Lys Asp Phe
1               5                   10


<210> 26073
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E545Q; B4001

<400> 26073
Ser Glu Ile Thr Gln Gln Glu Lys Asp Phe Leu
1               5                   10


<210> 26074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E726K; B5701

<400> 26074
Lys Thr Gln Lys Val Gln Met Lys Phe
1               5


<210> 26075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E726K; B5801

<400> 26075
Lys Thr Gln Lys Val Gln Met Lys Phe
1               5


<210> 26076
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E726K; B0801

<400> 26076
Asp Lys Thr Gln Lys Val Gln Met
1               5


<210> 26077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E726K; A3201

<400> 26077

Lys Thr Gln Lys Val Gln Met Lys Phe
1 5

<210> 26078
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E81K; B5701

<400> 26078
Val Thr Gln Glu Ala Glu Arg Glu Lys Phe
1 5 10

<210> 26079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E81K; B4403

<400> 26079
Gln Glu Ala Glu Arg Glu Lys Phe Phe
1 5

<210> 26080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E81K; B4402

<400> 26080
Gln Glu Ala Glu Arg Glu Lys Phe Phe
1 5

<210> 26081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E81K; C1402

<400> 26081
Lys Phe Phe Asp Glu Thr Arg Arg Leu
1 5

<210> 26082
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E81K; B5801

<400> 26082
Val Thr Gln Glu Ala Glu Arg Glu Lys Phe
1               5                   10


<210> 26083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E81K; B3801

<400> 26083
Thr Gln Glu Ala Glu Arg Glu Lys Phe
1               5


<210> 26084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E970K; A0301

<400> 26084
Ile Val Ile Ser Lys Gly Ala Gln Lys
1               5


<210> 26085
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E970K; A1101

<400> 26085
Ile Val Ile Ser Lys Gly Ala Gln Lys
1               5

<210> 26086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E970K; A6801

<400> 26086
Ile Val Ile Ser Lys Gly Ala Gln Lys
1               5


<210> 26087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.E970K; A3001

<400> 26087
Ile Val Ile Ser Lys Gly Ala Gln Lys
1               5


<210> 26088
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.G1049R; A3303

<400> 26088
Gln Met Asn Asp Ala His His Arg
1               5


<210> 26089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.G1049R; A3101

<400> 26089
Lys Gln Met Asn Asp Ala His His Arg
1               5


<210> 26090
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.G118D; B4901

<400> 26090
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 26091
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.G118D; B4001

<400> 26091
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 26092
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.G118D; B4403

<400> 26092
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 26093
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.G118D; B4402

<400> 26093
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 26094
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.G118D; A3001

<400> 26094
Arg Glu Ile Asp Phe Ala Ile Gly Met
1               5


<210> 26095
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.H1047L; A0301

<400> 26095
Ala Leu His Gly Gly Trp Thr Thr Lys
1               5


<210> 26096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.H1047L; B0801

<400> 26096
Phe Met Lys Gln Met Asn Asp Ala Leu
1               5


<210> 26097
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.H1047L; A6801

<400> 26097
Asp Ala Leu His Gly Gly Trp Thr Thr Lys
1               5                   10


<210> 26098
<211> 11
<212> PRT
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<220>

<223> AACR GENIE Results; PIK3CA_p.H1047L; B5701

<400> 26098
Lys Gln Met Asn Asp Ala Leu His Gly Gly Trp
1               5                   10


<210> 26099
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<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.H1047L; B3901

<400> 26099
Met Lys Gln Met Asn Asp Ala Leu
1               5


<210> 26100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.H1047R; B2705

<400> 26100
Ala Arg His Gly Gly Trp Thr Thr Lys
1               5


<210> 26101
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.H1047R; A3303

<400> 26101
Phe Met Lys Gln Met Asn Asp Ala Arg
1               5


<210> 26102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.H1047R; A3101

<400> 26102
Phe Met Lys Gln Met Asn Asp Ala Arg
1               5


<210> 26103
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.H1047Y; B1501

<400> 26103
Phe Met Lys Gln Met Asn Asp Ala Tyr
1               5


<210> 26104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.H1047Y; B5101

<400> 26104
Asp Ala Tyr His Gly Gly Trp Thr Thr
1               5


<210> 26105
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B4402

<400> 26105
Glu Glu Asn Ile Leu Asn Arg Glu Ile Gly Phe
1               5                   10


<210> 26106
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B4403

<400> 26106
Glu Glu Asn Ile Leu Asn Arg Glu Ile Gly Phe

1 5 10

<210> 26107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B4403

<400> 26107
Glu Glu Asn Ile Leu Asn Arg Glu Ile
1 5

<210> 26108
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B4402

<400> 26108
Glu Glu Asn Ile Leu Asn Arg Glu Ile
1 5

<210> 26109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B4901

<400> 26109
Glu Glu Asn Ile Leu Asn Arg Glu Ile
1 5

<210> 26110
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B2705

<400> 26110
Asn Arg Glu Glu Asn Ile Leu Asn Arg
1 5

<210> 26111
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B4001

<400> 26111
Arg Glu Glu Asn Ile Leu Asn Arg Glu Ile
1               5                   10


<210> 26112
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; B0702

<400> 26112
Glu Pro Val Gly Asn Arg Glu Glu Asn Ile Leu
1               5                   10


<210> 26113
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.K111N; A3101

<400> 26113
Val Gly Asn Arg Glu Glu Asn Ile Leu Asn Arg
1               5                   10


<210> 26114
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.M1043I; B4901

<400> 26114
Leu Glu Tyr Phe Met Lys Gln Ile
1               5


<210> 26115

<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.M1043V; B4901

<400> 26115
Leu Glu Tyr Phe Met Lys Gln Val
1               5


<210> 26116
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.M1043V; A3002

<400> 26116
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 26117
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.M1043V; A3201

<400> 26117
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 26118
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.M1043V; B1501

<400> 26118
Phe Met Lys Gln Val Asn Asp Ala His
1               5


<210> 26119
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.M1043V; B5001

<400> 26119
Leu Glu Tyr Phe Met Lys Gln Val
1               5


<210> 26120
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.M1043V; B5701

<400> 26120
Gln Val Asn Asp Ala His His Gly Gly Trp
1               5                   10


<210> 26121
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.N345K; A3101

<400> 26121
Ala Thr Tyr Val Lys Leu Asn Ile Arg
1               5


<210> 26122
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.N345K; B1302

<400> 26122
Cys Ala Thr Tyr Val Lys Leu Asn Ile
1               5


<210> 26123
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.N345K; A3303

<400> 26123
Ala Thr Tyr Val Lys Leu Asn Ile Arg
1               5


<210> 26124
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.N345K; A3303

<400> 26124
Thr Tyr Val Lys Leu Asn Ile Arg
1               5


<210> 26125
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546H; B4402

<400> 26125
Thr Glu His Glu Lys Asp Phe Leu Trp
1               5


<210> 26126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546H; B4402

<400> 26126
Ser Glu Ile Thr Glu His Glu Lys Asp Phe
1               5                   10


<210> 26127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546H; B3501

<400> 26127
Asp Pro Leu Ser Glu Ile Thr Glu His
1               5


<210> 26128
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B5701

<400> 26128
Ile Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 26129
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B4403

<400> 26129
Ser Glu Ile Thr Glu Lys Glu Lys Asp Phe
1               5                   10


<210> 26130
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B4001

<400> 26130
Ser Glu Ile Thr Glu Lys Glu Lys Asp Phe Leu
1               5                   10


<210> 26131
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B4403

<400> 26131

Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5


<210> 26132
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; A2301

<400> 26132
Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5


<210> 26133
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; A1101

<400> 26133
Pro Leu Ser Glu Ile Thr Glu Lys
1               5


<210> 26134
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B4402

<400> 26134
Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5


<210> 26135
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B4402

<400> 26135
Ser Glu Ile Thr Glu Lys Glu Lys Asp Phe
1               5                   10

<210> 26136
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B2702

<400> 26136
Thr Arg Asp Pro Leu Ser Glu Ile Thr Glu Lys
1               5                   10


<210> 26137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546K; B5701

<400> 26137
Thr Glu Lys Glu Lys Asp Phe Leu Trp
1               5


<210> 26138
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546P; B4402

<400> 26138
Thr Glu Pro Glu Lys Asp Phe Leu Trp
1               5


<210> 26139
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546P; B4402

<400> 26139
Ser Glu Ile Thr Glu Pro Glu Lys Asp Phe
1               5                   10

<210> 26140
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; B4403

<400> 26140
Ser Glu Ile Thr Glu Arg Glu Lys Asp Phe
1               5                   10


<210> 26141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; A3301

<400> 26141
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 26142
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; B5701

<400> 26142
Ile Thr Glu Arg Glu Lys Asp Phe Leu Trp
1               5                   10


<210> 26143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; A3303

<400> 26143
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 26144
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; B4402

<400> 26144
Ser Glu Ile Thr Glu Arg Glu Lys Asp Phe
1               5                   10


<210> 26145
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; A6801

<400> 26145
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 26146
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; B4403

<400> 26146
Thr Glu Arg Glu Lys Asp Phe Leu Trp
1               5


<210> 26147
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; B5701

<400> 26147
Thr Glu Arg Glu Lys Asp Phe Leu Trp
1               5


<210> 26148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; A2301

<400> 26148
Thr Glu Arg Glu Lys Asp Phe Leu Trp
1               5


<210> 26149
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; B4402

<400> 26149
Thr Glu Arg Glu Lys Asp Phe Leu Trp
1               5


<210> 26150
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.Q546R; B3501

<400> 26150
Asp Pro Leu Ser Glu Ile Thr Glu Arg
1               5


<210> 26151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q682H; B0801

<400> 26151
Glu Met His Asn Lys Thr Val Ser His
1               5


<210> 26152
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; PIK3CA_p.Q75E; B4403

<400> 26152
Glu Glu Ala Glu Arg Glu Glu Phe Phe
1               5


<210> 26153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q75E; B4402

<400> 26153
Glu Glu Ala Glu Arg Glu Glu Phe Phe
1               5


<210> 26154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.Q75E; B4403

<400> 26154
Thr Glu Glu Ala Glu Arg Glu Glu Phe
1               5


<210> 26155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; A1101

<400> 26155
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 26156
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; A0301

<400> 26156
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 26157
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; B1501

<400> 26157
Lys Val Ile Glu Pro Val Gly Asn His
1               5


<210> 26158
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; A3303

<400> 26158
Asn His Glu Glu Lys Ile Leu Asn Arg
1               5


<210> 26159
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; A3101

<400> 26159
Val Gly Asn His Glu Glu Lys Ile Leu Asn Arg
1               5                   10


<210> 26160
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; A2601

<400> 26160
Lys Val Ile Glu Pro Val Gly Asn His

1 5

<210> 26161
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; A6801

<400> 26161
Asn His Glu Glu Lys Ile Leu Asn Arg
1 5

<210> 26162
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R108H; A3101

<400> 26162
Lys Val Ile Glu Pro Val Gly Asn His
1 5

<210> 26163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R38H; B3801

<400> 26163
Leu His Glu Ala Thr Leu Val Thr Ile
1 5

<210> 26164
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R38H; B1801

<400> 26164
His Glu Ala Thr Leu Val Thr Ile
1 5

<210> 26165
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R38H; B4001

<400> 26165
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 26166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R38H; A0201

<400> 26166
Val Thr Leu Glu Cys Leu His Glu Ala
1               5


<210> 26167
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R38H; B5101

<400> 26167
His Glu Ala Thr Leu Val Thr Ile
1               5


<210> 26168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R38H; B4001

<400> 26168
Leu Glu Cys Leu His Glu Ala Thr Leu
1               5


<210> 26169

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; C0401

<400> 26169
Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 26170
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; B4403

<400> 26170
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5                   10


<210> 26171
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; C0802

<400> 26171
Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 26172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; C1402

<400> 26172
Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 26173
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; B4002

<400> 26173
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5                   10


<210> 26174
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; B4402

<400> 26174
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5                   10


<210> 26175
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; C1402

<400> 26175
Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 26176
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; B4001

<400> 26176
Glu Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5                   10


<210> 26177
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; C0401

<400> 26177
Phe Phe Asp Glu Thr Arg Gln Leu Cys
1               5


<210> 26178
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; C0501

<400> 26178
Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 26179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; A3303

<400> 26179
Glu Phe Phe Asp Glu Thr Arg Gln Leu
1               5


<210> 26180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.R88Q; A3303

<400> 26180
Glu Thr Arg Gln Leu Cys Asp Leu Arg
1               5


<210> 26181
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.T1025A; C1402

<400> 26181
Ala Tyr Ile Arg Lys Ala Leu Ala Leu
1               5


<210> 26182
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.T1025A; B0801

<400> 26182
Ile Ala Tyr Ile Arg Lys Ala Leu
1               5


<210> 26183
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.T1025A; A2301

<400> 26183
Ala Tyr Ile Arg Lys Ala Leu Ala Leu
1               5


<210> 26184
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.T1025A; B1402

<400> 26184
Ile Ala Tyr Ile Arg Lys Ala Leu
1               5


<210> 26185
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.T1025A; A2402

<400> 26185

Ala Tyr Ile Arg Lys Ala Leu Ala Leu
1               5


<210> 26186
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.T1025A; C0304

<400> 26186
Ile Ala Tyr Ile Arg Lys Ala Leu
1               5


<210> 26187
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.T1025A; C1601

<400> 26187
Ile Ala Tyr Ile Arg Lys Ala Leu
1               5


<210> 26188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.V344G; A1101

<400> 26188
Ala Thr Tyr Gly Asn Leu Asn Ile Arg
1               5


<210> 26189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.V344G; A3101

<400> 26189
Ala Thr Tyr Gly Asn Leu Asn Ile Arg
1               5

<210> 26190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.V344G; A3303

<400> 26190
Ala Thr Tyr Gly Asn Leu Asn Ile Arg
1               5


<210> 26191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.V344G; A6801

<400> 26191
Ala Thr Tyr Gly Asn Leu Asn Ile Arg
1               5


<210> 26192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.V344G; A0301

<400> 26192
Ala Thr Tyr Gly Asn Leu Asn Ile Arg
1               5


<210> 26193
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CA_p.V344G; A3303

<400> 26193
Thr Tyr Gly Asn Leu Asn Ile Arg
1               5

<210> 26194
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CB_p.Q748H; B0801

<400> 26194
His Ser Ala Tyr Arg Glu Ala Leu
1               5


<210> 26195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CG_p.K768N; A1101

<400> 26195
Gln Val Ile Ser Gln Leu Asn Gln Lys
1               5


<210> 26196
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CG_p.K768N; A0301

<400> 26196
Gln Val Ile Ser Gln Leu Asn Gln Lys
1               5


<210> 26197
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CG_p.K768N; A1101

<400> 26197
Ser Ser Gln Val Ile Ser Gln Leu Asn Gln Lys
1               5                   10


<210> 26198
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CG_p.K768N; A1101

<400> 26198
Ser Gln Val Ile Ser Gln Leu Asn Gln Lys
1               5                   10


<210> 26199
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3CG_p.K768N; B0801

<400> 26199
Gln Leu Asn Gln Lys Leu Glu Asn Leu
1               5


<210> 26200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560H; B0801

<400> 26200
Glu Ile His Lys Arg Met Asn Ser Ile
1               5


<210> 26201
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; C1601

<400> 26201
Gln Ala Ala Glu Tyr Arg Glu Ile Tyr
1               5


<210> 26202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; B3501

<400> 26202
Gln Ala Ala Glu Tyr Arg Glu Ile Tyr
1               5


<210> 26203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; B0801

<400> 26203
Glu Ile Tyr Lys Arg Met Asn Ser Ile
1               5


<210> 26204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; B1501

<400> 26204
Gln Ala Ala Glu Tyr Arg Glu Ile Tyr
1               5


<210> 26205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; C1203

<400> 26205
Gln Ala Ala Glu Tyr Arg Glu Ile Tyr
1               5


<210> 26206
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; PIK3R1_p.D560Y; B1402

<400> 26206
Glu Ile Tyr Lys Arg Met Asn Ser Ile
1               5


<210> 26207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; C0202

<400> 26207
Gln Ala Ala Glu Tyr Arg Glu Ile Tyr
1               5


<210> 26208
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; A1101

<400> 26208
Ala Ala Glu Tyr Arg Glu Ile Tyr Lys
1               5


<210> 26209
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; C1601

<400> 26209
Ala Ala Glu Tyr Arg Glu Ile Tyr
1               5


<210> 26210
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; A1101

<400> 26210
Gln Ala Ala Glu Tyr Arg Glu Ile Tyr Lys
1               5                   10


<210> 26211
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.D560Y; A6801

<400> 26211
Gln Ala Ala Glu Tyr Arg Glu Ile Tyr Lys
1               5                   10


<210> 26212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; A1101

<400> 26212
Ser Val Val Val Asp Gly Lys Val Lys
1               5


<210> 26213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; A1101

<400> 26213
Ala Cys Ser Val Val Val Asp Gly Lys
1               5


<210> 26214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; A0301

<400> 26214
Ser Val Val Val Asp Gly Lys Val Lys

1 5

<210> 26215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; A6801

<400> 26215
Ser Val Val Val Asp Gly Lys Val Lys
1 5

<210> 26216
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; A1101

<400> 26216
Val Val Val Asp Gly Lys Val Lys
1 5

<210> 26217
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; B1302

<400> 26217
Ser Val Val Val Asp Gly Lys Val
1 5

<210> 26218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; A0301

<400> 26218
Lys Val Lys His Cys Val Ile Asn Lys
1 5

<210> 26219
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.E666K; B0801

<400> 26219
Asp Gly Lys Val Lys His Cys Val
1               5


<210> 26220
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.G376R; C0602

<400> 26220
Gly Arg Asn Asn Lys Leu Ile Lys Ile
1               5


<210> 26221
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A6801

<400> 26221
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26222
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A3303

<400> 26222
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26223

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A3101

<400> 26223
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26224
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A6802

<400> 26224
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26225
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A6802

<400> 26225
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 26226
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; B4002

<400> 26226
Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 26227
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; B3503

<400> 26227
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5                   10


<210> 26228
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A6801

<400> 26228
Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; B3503

<400> 26229
Ser Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 26230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A6801

<400> 26230
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5


<210> 26231
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; B5701

<400> 26231
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26232
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A3303

<400> 26232
Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26233
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A3303

<400> 26233
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5


<210> 26234
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; B4001

<400> 26234
Ile Glu Pro Asp Leu Ile Gln Leu
1               5


<210> 26235
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; A1101

<400> 26235
Asn Ser Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5                   10


<210> 26236
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.K567E; B2702

<400> 26236
Ile Glu Pro Asp Leu Ile Gln Leu Arg
1               5


<210> 26237
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.S208Y; B5101

<400> 26237
Met Ile Tyr Leu Ala Pro Glu Val
1               5


<210> 26238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.S208Y; A0201

<400> 26238
Glu Met Ile Tyr Leu Ala Pro Glu Val
1               5


<210> 26239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PIK3R1_p.S208Y; A2601

<400> 26239

Glu Met Ile Tyr Leu Ala Pro Glu Val
1               5


<210> 26240
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.P283H; B1501

<400> 26240
Thr Met Arg Glu Thr Ala Glu His Phe
1               5


<210> 26241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.P283H; A2601

<400> 26241
Glu Thr Ala Glu His Phe Leu Phe Val
1               5


<210> 26242
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.V755I; B2702

<400> 26242
Asp Ile Asn Ser Leu Tyr Asp Ile Ser Arg
1               5                   10


<210> 26243
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.V755I; A6801

<400> 26243
Asp Ile Asn Ser Leu Tyr Asp Ile Ser Arg
1               5                   10

<210> 26244
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.V755I; A0201

<400> 26244
Ser Leu Tyr Asp Ile Ser Arg Met Tyr Val
1               5                   10


<210> 26245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.V755I; A2902

<400> 26245
Ser Leu Tyr Asp Ile Ser Arg Met Tyr
1               5


<210> 26246
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.V755I; A0301

<400> 26246
Ser Leu Tyr Asp Ile Ser Arg Met Tyr
1               5


<210> 26247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PLCG2_p.V755I; B1501

<400> 26247
Ser Leu Tyr Asp Ile Ser Arg Met Tyr
1               5

<210> 26248
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PMS1_p.Q698L; B0801

<400> 26248
Ser Gln Asn Ile Lys Met Val Leu
1               5


<210> 26249
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PMS1_p.Q698L; A0301

<400> 26249
Met Val Leu Ile Pro Phe Ser Met Lys
1               5


<210> 26250
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PMS1_p.Q698L; B1501

<400> 26250
Ser Gln Asn Ile Lys Met Val Leu
1               5


<210> 26251
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PNRC1_p.S262L; B4001

<400> 26251
Thr Glu Asn Ile Lys Asn Leu His Leu
1               5


<210> 26252
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PNRC1_p.S262L; B4403

<400> 26252
Thr Glu Asn Ile Lys Asn Leu His Leu
1               5


<210> 26253
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PNRC1_p.S262L; B0801

<400> 26253
Thr Glu Asn Ile Lys Asn Leu His Leu
1               5


<210> 26254
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PNRC1_p.S262L; B4402

<400> 26254
Thr Glu Asn Ile Lys Asn Leu His Leu
1               5


<210> 26255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PNRC1_p.S262L; B0702

<400> 26255
Thr Glu Asn Ile Lys Asn Leu His Leu
1               5


<210> 26256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PNRC1_p.S262L; B0801

<400> 26256
Asn Leu His Leu Lys Lys Ser Ala Phe
1               5


<210> 26257
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; B4001

<400> 26257
Arg Glu Leu Thr Val Pro Ala Val Leu
1               5


<210> 26258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; B3501

<400> 26258
Val Pro Ala Val Leu Ala Val Glu Leu
1               5


<210> 26259
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; B0702

<400> 26259
Val Pro Ala Val Leu Ala Val Glu Leu
1               5


<210> 26260
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; POLD1_p.G184V; A3001

<400> 26260
Arg Glu Leu Thr Val Pro Ala Val Leu
1               5


<210> 26261
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; A6801

<400> 26261
Thr Val Pro Ala Val Leu Ala Val Glu Leu
1               5                   10


<210> 26262
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; C1502

<400> 26262
Leu Thr Val Pro Ala Val Leu Ala Val
1               5


<210> 26263
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; B5101

<400> 26263
Thr Val Pro Ala Val Leu Ala Val
1               5


<210> 26264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; A2301

<400> 26264
Arg Glu Leu Thr Val Pro Ala Val Leu
1               5


<210> 26265
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; B4403

<400> 26265
Arg Glu Leu Thr Val Pro Ala Val Leu
1               5


<210> 26266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLD1_p.G184V; B2705

<400> 26266
Gly Arg Glu Leu Thr Val Pro Ala Val
1               5


<210> 26267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLE_p.P286R; A3101

<400> 26267
Thr Thr Lys Leu Pro Leu Lys Phe Arg
1               5


<210> 26268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; POLE_p.P286R; B3801

<400> 26268
Phe Arg Asp Ala Glu Thr Asp Gln Ile

1 5

<210> 26269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B5501

<400> 26269
Thr Pro Met Val Arg Trp Ala Ala Ala
1 5

<210> 26270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B4403

<400> 26270
Ser Asp Asp Thr Pro Met Val Arg Trp
1 5

<210> 26271
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B5701

<400> 26271
Cys Ser Asp Asp Thr Pro Met Val Arg Trp
1 5 10

<210> 26272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B4402

<400> 26272
Ser Asp Asp Thr Pro Met Val Arg Trp
1 5

<210> 26273
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; A2301

<400> 26273
Asp Asp Thr Pro Met Val Arg Trp
1               5


<210> 26274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B0702

<400> 26274
Thr Pro Met Val Arg Trp Ala Ala Ala
1               5


<210> 26275
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B5501

<400> 26275
Thr Pro Met Val Arg Trp Ala Ala
1               5


<210> 26276
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B0801

<400> 26276
Thr Pro Met Val Arg Trp Ala Ala Ala
1               5


<210> 26277

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; A6802

<400> 26277
Asp Thr Pro Met Val Arg Trp Ala Ala
1               5


<210> 26278
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B4403

<400> 26278
Cys Ser Asp Asp Thr Pro Met Val Arg Trp
1               5                   10


<210> 26279
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B2705

<400> 26279
Val Arg Trp Ala Ala Ala Ser Lys Leu
1               5


<210> 26280
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PPP2R1A_p.R183W; B4403

<400> 26280
Asp Asp Thr Pro Met Val Arg Trp
1               5


<210> 26281
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTCH1_p.R571Q; B3501

<400> 26281
Ile Pro Ile Pro Ala Leu Gln Ala Phe
1               5


<210> 26282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTCH1_p.R571Q; B0702

<400> 26282
Ile Pro Ile Pro Ala Leu Gln Ala Phe
1               5


<210> 26283
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTCH1_p.R571Q; B1501

<400> 26283
Ala Leu Ile Pro Ile Pro Ala Leu Gln Ala Phe
1               5                   10


<210> 26284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTCH1_p.R571Q; B1501

<400> 26284
Ile Pro Ile Pro Ala Leu Gln Ala Phe
1               5


<210> 26285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTCH1_p.R571Q; B5101

<400> 26285
Ile Pro Ile Pro Ala Leu Gln Ala Phe
1               5


<210> 26286
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTCH1_p.R571Q; C0102

<400> 26286
Leu Ile Pro Ile Pro Ala Leu Gln Ala Phe
1               5                   10


<210> 26287
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B3901

<400> 26287
Asn His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 26288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B3801

<400> 26288
Asn His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 26289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B4001

<400> 26289
Phe Glu Asn His Asn Pro Pro Gln Leu
1               5


<210> 26290
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B4002

<400> 26290
Phe Glu Asn His Asn Pro Pro Gln Leu
1               5


<210> 26291
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B3503

<400> 26291
Tyr Pro Phe Glu Asn His Asn Pro Pro Gln Leu
1               5                   10


<210> 26292
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; A3001

<400> 26292
Phe Glu Asn His Asn Pro Pro Gln Leu
1               5


<210> 26293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B4901

<400> 26293

Phe Glu Asn His Asn Pro Pro Gln Leu
1 5

<210> 26294
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B3801

<400> 26294
Asn His Asn Pro Pro Gln Leu Glu Leu Ile
1 5 10

<210> 26295
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B3501

<400> 26295
Tyr Pro Phe Glu Asn His Asn Pro Pro Gln Leu
1 5 10

<210> 26296
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B0702

<400> 26296
Tyr Pro Phe Glu Asn His Asn Pro Pro Gln Leu
1 5 10

<210> 26297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B5801

<400> 26297
Phe Glu Asn His Asn Pro Pro Gln Leu
1 5

<210> 26298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B3503

<400> 26298
Asn His Asn Pro Pro Gln Leu Glu Leu
1               5


<210> 26299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B4403

<400> 26299
Phe Glu Asn His Asn Pro Pro Gln Leu
1               5


<210> 26300
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B5101

<400> 26300
Tyr Pro Phe Glu Asn His Asn Pro Pro Gln Leu
1               5                   10


<210> 26301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.D92N; B0702

<400> 26301
Phe Glu Asn His Asn Pro Pro Gln Leu
1               5

<210> 26302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.G165E; A6801

<400> 26302
Glu Val Thr Ile Pro Ser Gln Arg Arg
1               5


<210> 26303
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.G165E; A6801

<400> 26303
Glu Val Thr Ile Pro Ser Gln Arg
1               5


<210> 26304
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.G165E; B3801

<400> 26304
Thr Arg Asp Lys Lys Glu Val Thr Ile
1               5


<210> 26305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.H93R; B4001

<400> 26305
Phe Glu Asp Arg Asn Pro Pro Gln Leu
1               5


<210> 26306
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.H93R; B0702

<400> 26306
Tyr Pro Phe Glu Asp Arg Asn Pro Pro Gln Leu
1               5                   10


<210> 26307
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.H93R; B3501

<400> 26307
Tyr Pro Phe Glu Asp Arg Asn Pro Pro Gln Leu
1               5                   10


<210> 26308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.H93R; B3501

<400> 26308
Tyr Pro Phe Glu Asp Arg Asn Pro Pro
1               5


<210> 26309
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.M134I; B1801

<400> 26309
Thr Gly Val Ile Ile Cys Ala Tyr
1               5


<210> 26310
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.P246L; B5501

<400> 26310
Phe Pro Gln Leu Leu Pro Val Cys
1               5


<210> 26311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.P246L; C0602

<400> 26311
Met Tyr Phe Glu Phe Pro Gln Leu Leu
1               5


<210> 26312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.P246L; A2402

<400> 26312
Met Tyr Phe Glu Phe Pro Gln Leu Leu
1               5


<210> 26313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.P246L; A2301

<400> 26313
Met Tyr Phe Glu Phe Pro Gln Leu Leu
1               5


<210> 26314
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<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; PTEN_p.P246L; B4901

<400> 26314
Phe Glu Phe Pro Gln Leu Leu Pro Val
1               5


<210> 26315
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.P246L; C1402

<400> 26315
Met Tyr Phe Glu Phe Pro Gln Leu Leu
1               5


<210> 26316
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R130Q; B1302

<400> 26316
Gly Gln Thr Gly Val Met Ile Cys Ala
1               5


<210> 26317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R130Q; A0205

<400> 26317
Gly Gln Thr Gly Val Met Ile Cys Ala
1               5


<210> 26318
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R130Q; B1501

<400> 26318
Gly Gln Thr Gly Val Met Ile Cys Ala Tyr
1  5  10

<210> 26319
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R130Q; B5001

<400> 26319
Gly Gln Thr Gly Val Met Ile Cys Ala
1  5

<210> 26320
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R130Q; A3002

<400> 26320
Gly Gln Thr Gly Val Met Ile Cys Ala Tyr
1  5  10

<210> 26321
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R130Q; B1302

<400> 26321
Gly Gln Thr Gly Val Met Ile Cys
1  5

<210> 26322
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R130Q; B1501

<400> 26322
Ala Gly Lys Gly Gln Thr Gly Val Met

1 5

<210> 26323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R173C; B1501

<400> 26323
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1 5

<210> 26324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R173C; C1601

<400> 26324
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1 5

<210> 26325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R173C; B5701

<400> 26325
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1 5

<210> 26326
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTEN_p.R173C; C0202

<400> 26326
Val Thr Ile Pro Ser Gln Arg Cys Tyr
1 5

<210> 26327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.G503V; B1501

<400> 26327
Val Met Val Gln Thr Glu Ala Gln Tyr
1               5


<210> 26328
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.G503V; A1101

<400> 26328
Ser Val Met Val Gln Thr Glu Ala Gln Tyr Arg
1               5                   10


<210> 26329
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.G503V; A3101

<400> 26329
Ser Val Met Val Gln Thr Glu Ala Gln Tyr Arg
1               5                   10


<210> 26330
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.G503V; A6801

<400> 26330
Ser Val Met Val Gln Thr Glu Ala Gln Tyr Arg
1               5                   10


<210> 26331

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.G503V; B1501

<400> 26331
Ser Val Met Val Gln Thr Glu Ala Gln Tyr
1               5                   10


<210> 26332
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.G503V; A2902

<400> 26332
Val Met Val Gln Thr Glu Ala Gln Tyr
1               5


<210> 26333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.Q510H; B1501

<400> 26333
Gly Met Val Gln Thr Glu Ala His Tyr
1               5


<210> 26334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.V505I; B1501

<400> 26334
Gly Met Ile Gln Thr Glu Ala Gln Tyr
1               5


<210> 26335
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.V505I; A2902

<400> 26335
Gly Met Ile Gln Thr Glu Ala Gln Tyr
1               5


<210> 26336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPN11_p.V505I; A6801

<400> 26336
Met Ile Gln Thr Glu Ala Gln Tyr Arg
1               5


<210> 26337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.D1393Y; C0304

<400> 26337
Ile Ala Tyr Tyr His Ser Arg Val Leu
1               5


<210> 26338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.D1393Y; C0303

<400> 26338
Ile Ala Tyr Tyr His Ser Arg Val Leu
1               5


<210> 26339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.D1393Y; C1203

<400> 26339
Ile Ala Tyr Tyr His Ser Arg Val Leu
1               5


<210> 26340
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.D1393Y; C1601

<400> 26340
Ile Ala Tyr Tyr His Ser Arg Val Leu
1               5


<210> 26341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.D778Y; C0401

<400> 26341
Phe Tyr Asp Thr Thr Glu His Asp Met
1               5


<210> 26342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.G38V; B1501

<400> 26342
Gly Val Ser Val Gly Val Ala Ser Phe
1               5


<210> 26343
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.G38V; B0702

<400> 26343
Thr Pro Val Asp Gln Thr Gly Val Ser Val
1               5                   10


<210> 26344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.R377L; A0101

<400> 26344
Glu Ile Asp Gly Val Ala Thr Thr Leu Tyr
1               5                   10


<210> 26345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.R377L; A0201

<400> 26345
Gly Val Ala Thr Thr Leu Tyr Ser Val
1               5


<210> 26346
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.R377L; B4402

<400> 26346
Lys Glu Ile Asp Gly Val Ala Thr Thr Leu Tyr
1               5                   10


<210> 26347
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.R377L; B4402

<400> 26347

Lys Glu Ile Asp Gly Val Ala Thr Thr Leu
1               5                   10


<210> 26348
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.R427Q; B0702

<400> 26348
Ala Pro Arg Asp Val Gln Ala Gln Met Leu
1               5                   10


<210> 26349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.R427Q; B0702

<400> 26349
Ala Pro Arg Asp Val Gln Ala Gln Met
1               5


<210> 26350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.R427Q; B1501

<400> 26350
Ala Gln Met Leu Ser Ser Thr Thr Ile
1               5


<210> 26351
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.V635L; A1101

<400> 26351
Val Ser Trp Gln Pro Pro Pro Leu Glu Lys
1               5                   10

<210> 26352
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRD_p.V635L; A0301

<400> 26352
Val Ser Trp Gln Pro Pro Pro Leu Glu Lys
1               5                   10


<210> 26353
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRS_p.V267M; B3501

<400> 26353
Met Pro Gly Gly Asn Val Asn Ile Thr Cys Met
1               5                   10


<210> 26354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRS_p.V267M; B3501

<400> 26354
Met Ala Val Gly Ser Pro Met Pro Tyr
1               5


<210> 26355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRT_p.S84Y; B1501

<400> 26355
Met Val Asn Ser Ser Gly Arg Ala Tyr
1               5

<210> 26356
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRT_p.S84Y; B1501

<400> 26356
Met Met Val Asn Ser Ser Gly Arg Ala Tyr
1               5                   10


<210> 26357
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRT_p.S84Y; B3501

<400> 26357
Met Val Asn Ser Ser Gly Arg Ala Tyr
1               5


<210> 26358
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRT_p.S84Y; B1501

<400> 26358
Phe Met Met Val Asn Ser Ser Gly Arg Ala Tyr
1               5                   10


<210> 26359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; PTPRT_p.S84Y; A2402

<400> 26359
Ala Tyr Gly Gln Lys Ala His Leu Leu
1               5


<210> 26360
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RAF1_p.S257L; B2705

<400> 26360
Gln Arg Leu Thr Ser Thr Pro Asn Val
1               5


<210> 26361
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RAF1_p.S259F; B1501

<400> 26361
Ser Gln Arg Gln Arg Ser Thr Phe
1               5


<210> 26362
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RASA1_p.R427Q; B1501

<400> 26362
Tyr Gln Lys Glu Gln Ile Val Glu Gly Tyr
1               5                   10


<210> 26363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.A18S; A1101

<400> 26363
Ala Ser Glu Pro Pro Ala Pro Pro Pro
1               5


<210> 26364
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.A18S; A3001

<400> 26364
Ser Glu Pro Pro Ala Pro Pro Pro Pro
1               5


<210> 26365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; B4001

<400> 26365
Asn Glu Leu Pro Glu Val Glu Asn Leu
1               5


<210> 26366
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; A0201

<400> 26366
Gly Leu Val Thr Ser Asn Glu Leu Pro Glu Val
1               5                   10


<210> 26367
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; A6801

<400> 26367
Glu Leu Pro Glu Val Glu Asn Leu Ser Lys Arg
1               5                   10


<210> 26368
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; RB1_p.G310E; A6801

<400> 26368
Glu Leu Pro Glu Val Glu Asn Leu Ser Lys
1               5                   10


<210> 26369
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; A3001

<400> 26369
Asn Glu Leu Pro Glu Val Glu Asn Leu
1               5


<210> 26370
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; B1801

<400> 26370
Asn Glu Leu Pro Glu Val Glu Asn Leu
1               5


<210> 26371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; A2301

<400> 26371
Asn Glu Leu Pro Glu Val Glu Asn Leu
1               5


<210> 26372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; B3801

<400> 26372
Asn Glu Leu Pro Glu Val Glu Asn Leu
1               5


<210> 26373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; B4403

<400> 26373
Asn Glu Leu Pro Glu Val Glu Asn Leu
1               5


<210> 26374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; A0201

<400> 26374
Val Thr Ser Asn Glu Leu Pro Glu Val
1               5


<210> 26375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.G310E; B4901

<400> 26375
Asn Glu Leu Pro Glu Val Glu Asn Leu
1               5


<210> 26376
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A0301

<400> 26376
Cys Leu Ser Ser Gly Leu Ser Leu Lys

1 5

<210> 26377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A1101

<400> 26377
Leu Ser Ser Gly Leu Ser Leu Lys Lys
1 5

<210> 26378
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A1101

<400> 26378
Ser Ser Gly Leu Ser Leu Lys Lys
1 5

<210> 26379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A0301

<400> 26379
Cys Leu Ser Ser Gly Leu Ser Leu Lys Lys
1 5 10

<210> 26380
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A0301

<400> 26380
Leu Ser Ser Gly Leu Ser Leu Lys Lys
1 5

<210> 26381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; C0304

<400> 26381
Thr Cys Leu Ser Ser Gly Leu Ser Leu
1               5


<210> 26382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A1101

<400> 26382
Cys Leu Ser Ser Gly Leu Ser Leu Lys
1               5


<210> 26383
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; B0801

<400> 26383
Thr Ala Ala Arg Arg Thr Cys Leu
1               5


<210> 26384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; C1502

<400> 26384
Lys Asn Leu Ile Leu Leu His Tyr Val
1               5


<210> 26385

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A1101

<400> 26385
Leu Ser Ser Gly Leu Ser Leu Lys
1               5


<210> 26386
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A0301

<400> 26386
Thr Cys Leu Ser Ser Gly Leu Ser Leu Lys
1               5                   10


<210> 26387
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A0301

<400> 26387
Arg Thr Cys Leu Ser Ser Gly Leu Ser Leu Lys
1               5                   10


<210> 26388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; C0303

<400> 26388
Thr Cys Leu Ser Ser Gly Leu Ser Leu
1               5


<210> 26389
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A3101

<400> 26389
Arg Thr Gln Ser Arg Thr Ala Ala Arg
1               5


<210> 26390
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A3101

<400> 26390
Lys Gln Lys Asn Leu Ile Leu Leu His
1               5


<210> 26391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A6801

<400> 26391
Leu Ser Ser Gly Leu Ser Leu Lys Lys
1               5


<210> 26392
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A0301

<400> 26392
Ser Ser Gly Leu Ser Leu Lys Lys
1               5


<210> 26393
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.P21Rfs*44; A0301

<400> 26393
Leu Ser Ser Gly Leu Ser Leu Lys
1               5


<210> 26394
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.R579Q; B4001

<400> 26394
Gln Glu Gly Pro Thr Asp His Leu
1               5


<210> 26395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.R579Q; B3801

<400> 26395
Asp Gln Glu Gly Pro Thr Asp His Leu
1               5


<210> 26396
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.R579Q; C0802

<400> 26396
Asp Gln Glu Gly Pro Thr Asp His Leu
1               5


<210> 26397
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.R798W; B3501

<400> 26397
Ser Pro Leu Trp Ile Pro Gly Gly Asn Ile Tyr
1               5                   10


<210> 26398
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.R798W; C0602

<400> 26398
Tyr Lys Phe Pro Ser Ser Pro Leu Trp Ile
1               5                   10


<210> 26399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.V654L; A3101

<400> 26399
Ser Leu Phe Tyr Lys Lys Leu Tyr Arg
1               5


<210> 26400
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RB1_p.V654L; B5701

<400> 26400
Leu Ser Leu Phe Tyr Lys Lys Leu Tyr
1               5


<210> 26401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; A2601

<400> 26401

Asp Val Lys Thr Ile Asn Val Glu Phe
1               5


<210> 26402
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; B5101

<400> 26402
His Pro Pro Leu Thr Ile Asp Val
1               5


<210> 26403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; B3501

<400> 26403
Asp Val Lys Thr Ile Asn Val Glu Phe
1               5


<210> 26404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; C0501

<400> 26404
Thr Ile Asp Val Lys Thr Ile Asn Val
1               5


<210> 26405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; B0801

<400> 26405
Asp Val Lys Thr Ile Asn Val Glu Phe
1               5

<210> 26406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; B1501

<400> 26406
Asp Val Lys Thr Ile Asn Val Glu Phe
1               5


<210> 26407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; A0201

<400> 26407
Thr Ile Asp Val Lys Thr Ile Asn Val
1               5


<210> 26408
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.G374V; B5101

<400> 26408
His Pro Pro Leu Thr Ile Asp Val Lys Thr Ile
1               5                   10


<210> 26409
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.R685L; B1501

<400> 26409
Arg Leu Glu Ser Ala Thr Ala Asp Ala Gly Tyr
1               5                   10

<210> 26410
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.R685L; B4403

<400> 26410
Leu Glu Ser Ala Thr Ala Asp Ala Gly Tyr
1               5                   10


<210> 26411
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.R766P; B0702

<400> 26411
Arg Pro Gln Phe Pro Ser Lys Glu Ala Leu
1               5                   10


<210> 26412
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.R766P; B0702

<400> 26412
Arg Pro Gln Phe Pro Ser Lys Glu Ala
1               5


<210> 26413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.R766P; B1501

<400> 26413
Pro Gln Phe Pro Ser Lys Glu Ala Leu
1               5


<210> 26414
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.T371Nfs*10; A0301

<400> 26414
Ala Leu His Pro Pro Leu Asn Tyr Arg
1               5


<210> 26415
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.T371Nfs*10; A0301

<400> 26415
Ala Leu His Pro Pro Leu Asn Tyr
1               5


<210> 26416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.T371Nfs*10; B3501

<400> 26416
Gln Ala Leu His Pro Pro Leu Asn Tyr
1               5


<210> 26417
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.T371Nfs*10; B1501

<400> 26417
Ala Leu His Pro Pro Leu Asn Tyr
1               5


<210> 26418
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RBM10_p.T371Nfs*10; B1501

<400> 26418
Leu Gln Ala Leu His Pro Pro Leu Asn Tyr
1               5                   10


<210> 26419
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.G120R; A1101

<400> 26419
Gly Thr Leu Gln Ala Arg Pro Ala Leu Gly Arg
1               5                   10


<210> 26420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.G120R; B0702

<400> 26420
Gly Thr Leu Gln Ala Arg Pro Ala Leu
1               5


<210> 26421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.Q595P; B3701

<400> 26421
Ala Ala Pro Leu Pro Pro Val Ala Phe
1               5


<210> 26422
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; RECQL4_p.Q595P; B5501

<400> 26422
Ala Pro Leu Pro Pro Val Ala Phe Ala
1               5


<210> 26423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.Q595P; C0102

<400> 26423
Ala Ala Pro Leu Pro Pro Val Ala Phe
1               5


<210> 26424
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.Q595P; B3501

<400> 26424
Ala Pro Leu Pro Pro Val Ala Phe
1               5


<210> 26425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.R894K; B0702

<400> 26425
Ala Pro Gly Pro Lys Arg Val Cys Met
1               5


<210> 26426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.R894K; C1203

<400> 26426
Gln Ala Ala Pro Gly Pro Lys Arg Val
1               5


<210> 26427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RECQL4_p.R894K; B5101

<400> 26427
Gln Ala Ala Pro Gly Pro Lys Arg Val
1               5


<210> 26428
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; REL_p.S422L; B0702

<400> 26428
Thr Pro Arg Leu Gly Asn Thr Asn Pro Leu
1               5                   10


<210> 26429
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; REL_p.S422L; B0702

<400> 26429
Ser Val Ala His Pro Thr Pro Arg Leu
1               5


<210> 26430
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; REL_p.S422L; C0304

<400> 26430
Val Ala His Pro Thr Pro Arg Leu

1 5

<210> 26431
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; REL_p.S422L; B5101

<400> 26431
Val Ala His Pro Thr Pro Arg Leu
1 5

<210> 26432
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; REL_p.S422L; A1101

<400> 26432
Ser Val Ala His Pro Thr Pro Arg Leu
1 5

<210> 26433
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; REL_p.S422L; C0303

<400> 26433
Val Ala His Pro Thr Pro Arg Leu
1 5

<210> 26434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; REL_p.S440L; B0702

<400> 26434
Ser Thr Arg Thr Leu Pro Ser Asn Leu
1 5

<210> 26435
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RET_p.R348Q; B1501

<400> 26435
Val Gln Ala Thr Val His Asp Tyr
1               5


<210> 26436
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RET_p.R348Q; B1501

<400> 26436
Phe Val Gln Ala Thr Val His Asp Tyr
1               5


<210> 26437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RET_p.R348Q; A2902

<400> 26437
Phe Val Gln Ala Thr Val His Asp Tyr
1               5


<210> 26438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RET_p.R348Q; B3501

<400> 26438
Phe Val Gln Ala Thr Val His Asp Tyr
1               5


<210> 26439

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RET_p.R348Q; A2902

<400> 26439
Ser Phe Val Gln Ala Thr Val His Asp Tyr
1               5                   10


<210> 26440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RET_p.R348Q; A2601

<400> 26440
Phe Val Gln Ala Thr Val His Asp Tyr
1               5


<210> 26441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; C0602

<400> 26441
Tyr Arg Phe Val Gly Lys Ser Ser Leu
1               5


<210> 26442
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; A0301

<400> 26442
Ala Ile Leu Gly Tyr Arg Phe Val Gly Lys
1               5                   10


<210> 26443
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; C0702

<400> 26443
Tyr Arg Phe Val Gly Lys Ser Ser Leu
1               5


<210> 26444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; A0301

<400> 26444
Ile Leu Gly Tyr Arg Phe Val Gly Lys
1               5


<210> 26445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; B5701

<400> 26445
Lys Ile Ala Ile Leu Gly Tyr Arg Phe
1               5


<210> 26446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; C0701

<400> 26446
Tyr Arg Phe Val Gly Lys Ser Ser Leu
1               5


<210> 26447
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; B0801

<400> 26447
Tyr Arg Phe Val Gly Lys Ser Ser Leu
1               5


<210> 26448
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; A1101

<400> 26448
Ala Ile Leu Gly Tyr Arg Phe Val Gly Lys
1               5                   10


<210> 26449
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; B0801

<400> 26449
Arg Phe Val Gly Lys Ser Ser Leu
1               5


<210> 26450
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; B5701

<400> 26450
Ile Ala Ile Leu Gly Tyr Arg Phe
1               5


<210> 26451
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; B0702

<400> 26451
Tyr Arg Phe Val Gly Lys Ser Ser Leu
1               5


<210> 26452
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; A0301

<400> 26452
Leu Gly Tyr Arg Phe Val Gly Lys
1               5


<210> 26453
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RHEB_p.S16F; B5101

<400> 26453
Phe Val Gly Lys Ser Ser Leu Thr Ile
1               5


<210> 26454
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A6801

<400> 26454
Thr Val Ser Ser Leu Glu Tyr Ser Arg
1               5


<210> 26455
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A3303

<400> 26455

Glu Tyr Ser Arg Asp Gly Leu Ala Arg
1               5


<210> 26456
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B1501

<400> 26456
Lys Leu Thr Val Ser Ser Leu Glu Tyr
1               5


<210> 26457
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B2702

<400> 26457
Thr Val Ser Ser Leu Glu Tyr Ser Arg
1               5


<210> 26458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A3303

<400> 26458
Thr Val Ser Ser Leu Glu Tyr Ser Arg
1               5


<210> 26459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A2902

<400> 26459
Lys Leu Thr Val Ser Ser Leu Glu Tyr
1               5

<210> 26460
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A3101

<400> 26460
Thr Val Ser Ser Leu Glu Tyr Ser Arg
1               5


<210> 26461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B5001

<400> 26461
Leu Glu Tyr Ser Arg Asp Gly Leu Ala
1               5


<210> 26462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A0301

<400> 26462
Lys Leu Thr Val Ser Ser Leu Glu Tyr
1               5


<210> 26463
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A0101

<400> 26463
Leu Thr Val Ser Ser Leu Glu Tyr
1               5

<210> 26464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A3301

<400> 26464
Glu Tyr Ser Arg Asp Gly Leu Ala Arg
1               5


<210> 26465
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B5801

<400> 26465
Leu Thr Val Ser Ser Leu Glu Tyr
1               5


<210> 26466
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A6802

<400> 26466
Thr Val Ser Ser Leu Glu Tyr Ser Arg
1               5


<210> 26467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B5801

<400> 26467
Lys Leu Thr Val Ser Ser Leu Glu Tyr
1               5


<210> 26468
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A1101

<400> 26468
Thr Val Ser Ser Leu Glu Tyr Ser Arg
1               5


<210> 26469
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B4002

<400> 26469
Leu Glu Tyr Ser Arg Asp Gly Leu
1               5


<210> 26470
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B1501

<400> 26470
Leu Thr Val Ser Ser Leu Glu Tyr
1               5


<210> 26471
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; A3301

<400> 26471
Thr Val Ser Ser Leu Glu Tyr Ser Arg
1               5


<210> 26472
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B2702

<400> 26472
Lys Leu Thr Val Ser Ser Leu Glu Tyr
1               5


<210> 26473
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RICTOR_p.D706E; B3501

<400> 26473
Leu Thr Val Ser Ser Leu Glu Tyr
1               5


<210> 26474
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RIT1_p.M90I; A2402

<400> 26474
Gln Tyr Ile Arg Ala Gly Glu Gly Phe
1               5


<210> 26475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RIT1_p.M90I; C0602

<400> 26475
Ile Arg Ala Gly Glu Gly Phe Ile Ile
1               5


<210> 26476
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; RNF43_p.P660Sfs*87; C0602

<400> 26476
Thr Arg Asn Pro Arg Pro Leu Leu Leu
1               5


<210> 26477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RNF43_p.P660Sfs*87; B0702

<400> 26477
Val Pro Arg Gly Thr Pro Leu Asp Leu
1               5


<210> 26478
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RNF43_p.P660Sfs*87; B3501

<400> 26478
Ser Pro Ala Pro Gly Thr Thr Ser Thr Trp
1               5                   10


<210> 26479
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RNF43_p.P660Sfs*87; B0702

<400> 26479
Ser Pro Ala Pro Gly Thr Thr Ser Thr Trp
1               5                   10


<210> 26480
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RNF43_p.P660Sfs*87; A3001

<400> 26480
Ala Thr Arg Asn Pro Arg Pro Leu Leu
1               5


<210> 26481
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; RNF43_p.P660Sfs*87; B3801

<400> 26481
Ser Pro Ala Pro Gly Thr Thr Ser Thr Trp
1               5                   10


<210> 26482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.E1348D; A0101

<400> 26482
Asn Leu Asp Lys Pro Leu Ile Tyr
1               5


<210> 26483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.E1348D; C0501

<400> 26483
Asn Leu Asp Lys Pro Leu Ile Tyr Phe
1               5


<210> 26484
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.E1348D; C0802

<400> 26484
Asn Leu Asp Lys Pro Leu Ile Tyr Phe

1 5

<210> 26485
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.V1254A; B3502

<400> 26485
Asp Ala Asp Leu Glu His Lys Val
1 5

<210> 26486
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.V1254A; A6802

<400> 26486
Gln Val Phe Asp Ala Asp Leu Glu His Lys Val
1 5 10

<210> 26487
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.V1254A; B5101

<400> 26487
Asp Ala Asp Leu Glu His Lys Val
1 5

<210> 26488
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.V1254A; A1101

<400> 26488
Gln Val Phe Asp Ala Asp Leu Glu His Lys
1 5 10

<210> 26489
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; ROS1_p.V1254A; A0205

<400> 26489
Gln Val Phe Asp Ala Asp Leu Glu His Lys Val
1               5                   10


<210> 26490
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B5101

<400> 26490
Asp Gly His Ile Met Ser Val Ser Val
1               5


<210> 26491
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B0702

<400> 26491
Arg Pro Asp Gly His Ile Met Ser Val
1               5


<210> 26492
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B5501

<400> 26492
Arg Pro Asp Gly His Ile Met Ser Val
1               5


<210> 26493

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; A1101

<400> 26493
Pro Asp Gly His Ile Met Ser Val
1               5


<210> 26494
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B3503

<400> 26494
Arg Pro Asp Gly His Ile Met Ser Val
1               5


<210> 26495
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B1402

<400> 26495
Asp Gly His Ile Met Ser Val Ser Val
1               5


<210> 26496
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; C0401

<400> 26496
Arg Pro Asp Gly His Ile Met Ser Val
1               5


<210> 26497
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; C0602

<400> 26497
Lys Arg Pro Asp Gly His Ile Met Ser Val
1               5                   10


<210> 26498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B5101

<400> 26498
Arg Pro Asp Gly His Ile Met Ser Val
1               5


<210> 26499
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; A0201

<400> 26499
Pro Asp Gly His Ile Met Ser Val
1               5


<210> 26500
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; A6801

<400> 26500
Met Ser Val Ser Val Asn Gly Asp Val Arg
1               5                   10


<210> 26501
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B0801

<400> 26501
Asp Gly His Ile Met Ser Val Ser Val
1               5


<210> 26502
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RPTOR_p.V1228M; B3901

<400> 26502
Gly His Ile Met Ser Val Ser Val
1               5


<210> 26503
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RUNX1_p.I339_G340dup; B3501

<400> 26503
Leu Pro Ser Gly Ile Ile Ser Asp Pro Arg Met
1               5                   10


<210> 26504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RUNX1_p.I339_G340dup; B5101

<400> 26504
Phe Pro Ala Leu Pro Ser Gly Ile Ile
1               5


<210> 26505
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RUNX1_p.I339_G340dup; B5101

<400> 26505
Phe Pro Ala Leu Pro Ser Gly Ile
1               5


<210> 26506
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RUNX1_p.I339_G340dup; B1501

<400> 26506
Arg Gln Phe Pro Ala Leu Pro Ser Gly Ile
1               5                   10


<210> 26507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; RUNX1_p.I339_G340dup; B1501

<400> 26507
Ile Ile Ser Asp Pro Arg Met His Tyr
1               5


<210> 26508
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHB_p.N106S; C0304

<400> 26508
Met Asn Ile Ser Gly Gly Asn Thr Leu
1               5


<210> 26509
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHB_p.N106S; B1501

<400> 26509

Ala Met Asn Ile Ser Gly Gly Asn Thr Leu
1               5                   10


<210> 26510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHB_p.N106S; C0303

<400> 26510
Met Asn Ile Ser Gly Gly Asn Thr Leu
1               5


<210> 26511
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SDHB_p.N106S; C0102

<400> 26511
Ala Met Asn Ile Ser Gly Gly Asn Thr Leu
1               5                   10


<210> 26512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHB_p.N106S; B0702

<400> 26512
Met Asn Ile Ser Gly Gly Asn Thr Leu
1               5


<210> 26513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.L5F; A3101

<400> 26513
Ala Leu Phe Leu Arg His Val Gly Arg
1               5

<210> 26514
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B5701

<400> 26514
Met Ala Lys Glu Glu Met Glu Arg Phe Trp
1               5                   10


<210> 26515
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; A1101

<400> 26515
Ala Val Pro Leu Gly Thr Met Ala Lys
1               5


<210> 26516
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B2705

<400> 26516
Ile Arg Asn Ala Val Pro Leu Gly Thr Met
1               5                   10


<210> 26517
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B3501

<400> 26517
Val Pro Leu Gly Thr Met Ala Lys Glu Glu Met
1               5                   10

<210> 26518
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; A0301

<400> 26518
Ala Val Pro Leu Gly Thr Met Ala Lys
1               5


<210> 26519
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; A6801

<400> 26519
Asn Ala Val Pro Leu Gly Thr Met Ala Lys
1               5                   10


<210> 26520
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B0702

<400> 26520
Arg Asn Ala Val Pro Leu Gly Thr Met
1               5


<210> 26521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; A0301

<400> 26521
Arg Asn Ala Val Pro Leu Gly Thr Met
1               5


<210> 26522
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B5701

<400> 26522
Thr Met Ala Lys Glu Glu Met Glu Arg Phe Trp
1               5                   10


<210> 26523
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B5101

<400> 26523
Asn Ala Val Pro Leu Gly Thr Met
1               5


<210> 26524
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B3501

<400> 26524
Asn Ala Val Pro Leu Gly Thr Met
1               5


<210> 26525
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHC_p.T33M; B0702

<400> 26525
Asn Ala Val Pro Leu Gly Thr Met
1               5


<210> 26526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHD_p.L120S; B1501

<400> 26526
Ser Gln Lys Ala Ala Lys Ala Gly Leu
1               5


<210> 26527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHD_p.L120S; A1101

<400> 26527
Tyr Val His Gly Asp Ala Ser Gln Lys
1               5


<210> 26528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SDHD_p.L120S; A0301

<400> 26528
Tyr Val His Gly Asp Ala Ser Gln Lys
1               5


<210> 26529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SETBP1_p.E244K; B0702

<400> 26529
Ser Pro Glu Ser Gly Arg Lys Thr Ala
1               5


<210> 26530
<211> 8
<212> PRT
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<220>

<223> AACR GENIE Results; SETD2_p.S557P; B0702

<400> 26530
Ser Pro Ile Pro Arg Asn Arg Leu
1               5


<210> 26531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.G740E; B4403

<400> 26531
Arg Glu Lys Gly Leu Ala Ala Phe Leu
1               5


<210> 26532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K666N; C0602

<400> 26532
Ala Arg His Thr Gly Ile Asn Ile Val
1               5


<210> 26533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K666N; B5101

<400> 26533
Thr Gly Ile Asn Ile Val Gln Gln Ile
1               5


<210> 26534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K666N; C0602

<400> 26534
Thr Gly Ile Asn Ile Val Gln Gln Ile
1               5


<210> 26535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K666N; C1203

<400> 26535
Thr Gly Ile Asn Ile Val Gln Gln Ile
1               5


<210> 26536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4001

<400> 26536
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4002

<400> 26537
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A0201

<400> 26538
Gly Leu Val Asp Glu Gln Gln Glu Val

1 5

<210> 26539
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4403

<400> 26539
Gln Glu Val Arg Thr Ile Ser Ala Leu
1 5

<210> 26540
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1302

<400> 26540
Gly Leu Val Asp Glu Gln Gln Glu Val
1 5

<210> 26541
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A3001

<400> 26541
Gln Glu Val Arg Thr Ile Ser Ala Leu
1 5

<210> 26542
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4901

<400> 26542
Asp Glu Gln Gln Glu Val Arg Thr Ile
1 5

<210> 26543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1801

<400> 26543
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26544
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4403

<400> 26544
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26545
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4901

<400> 26545
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4402

<400> 26546
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26547

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; C0802

<400> 26547
Leu Val Asp Glu Gln Gln Glu Val
1               5


<210> 26548
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B0801

<400> 26548
Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26549
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; C0501

<400> 26549
Leu Val Asp Glu Gln Gln Glu Val
1               5


<210> 26550
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4002

<400> 26550
Gln Glu Val Arg Thr Ile Ser Ala
1               5


<210> 26551
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A2601

<400> 26551
Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4402

<400> 26552
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4002

<400> 26553
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B0702

<400> 26554
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26555
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B2702

<400> 26555
Gly Leu Val Asp Glu Gln Gln Glu Val Arg
1               5                   10


<210> 26556
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A6801

<400> 26556
Leu Val Asp Glu Gln Gln Glu Val Arg
1               5


<210> 26557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1501

<400> 26557
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B2702

<400> 26558
Leu Val Asp Glu Gln Gln Glu Val Arg
1               5


<210> 26559
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1801

<400> 26559
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26560
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A2301

<400> 26560
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26561
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B2702

<400> 26561
His Gly Leu Val Asp Glu Gln Gln Glu Val Arg
1               5                   10


<210> 26562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1402

<400> 26562
Gln Gln Glu Val Arg Thr Ile Ser Ala
1               5


<210> 26563
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B3901

<400> 26563

Gln Gln Glu Val Arg Thr Ile Ser Ala
1               5


<210> 26564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A2301

<400> 26564
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26565
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A3303

<400> 26565
Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26566
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B0702

<400> 26566
Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B5101

<400> 26567
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5

<210> 26568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1402

<400> 26568
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26569
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1501

<400> 26569
Gln Gln Glu Val Arg Thr Ile Ser Ala
1               5


<210> 26570
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B3501

<400> 26570
Leu Val Asp Glu Gln Gln Glu Val Arg
1               5


<210> 26571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B0801

<400> 26571
Gln Gln Glu Val Arg Thr Ile Ser Ala
1               5

<210> 26572
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1501

<400> 26572
Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26573
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A3001

<400> 26573
Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B3901

<400> 26574
Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5


<210> 26575
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1302

<400> 26575
Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26576
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1501

<400> 26576
Glu Gln Gln Glu Val Arg Thr Ile Ser Ala Leu
1               5                   10


<210> 26577
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4002

<400> 26577
Gln Glu Val Arg Thr Ile Ser Ala Leu Ala Ile
1               5                   10


<210> 26578
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; A0201

<400> 26578
Leu Val Asp Glu Gln Gln Glu Val
1               5


<210> 26579
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4901

<400> 26579
Gln Glu Val Arg Thr Ile Ser Ala
1               5


<210> 26580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1402

<400> 26580
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B1302

<400> 26581
Gln Gln Glu Val Arg Thr Ile Ser Ala
1               5


<210> 26582
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B4002

<400> 26582
Val Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5                   10


<210> 26583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.K700E; B3801

<400> 26583
Asp Glu Gln Gln Glu Val Arg Thr Ile
1               5


<210> 26584
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SF3B1_p.R196Q; A1101

<400> 26584
Ala Ser Gln Pro Pro Ser Lys Gln Lys
1               5


<210> 26585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A1101

<400> 26585
Ala Ala Ser Gln Pro Pro Ser Lys Gln Lys
1               5                   10


<210> 26586
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A0301

<400> 26586
Ala Ser Gln Pro Pro Ser Lys Gln Lys
1               5


<210> 26587
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A0301

<400> 26587
Ala Ala Ser Gln Pro Pro Ser Lys Gln Lys
1               5                   10


<210> 26588
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A3101

<400> 26588
Ala Ser Gln Pro Pro Ser Lys Gln Lys Arg
1               5                   10


<210> 26589
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A3001

<400> 26589
Ala Ser Gln Pro Pro Ser Lys Gln Lys
1               5


<210> 26590
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A1101

<400> 26590
Ala Ala Ala Ser Gln Pro Pro Ser Lys Gln Lys
1               5                   10


<210> 26591
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A1101

<400> 26591
Ser Gln Pro Pro Ser Lys Gln Lys
1               5


<210> 26592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A3101

<400> 26592
Ala Ser Gln Pro Pro Ser Lys Gln Lys

1 5

<210> 26593
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A0301

<400> 26593
Ala Ala Ala Ser Gln Pro Pro Ser Lys Gln Lys
1 5 10

<210> 26594
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A3001

<400> 26594
Ala Ala Ser Gln Pro Pro Ser Lys Gln Lys
1 5 10

<210> 26595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A3101

<400> 26595
Ser Gln Pro Pro Ser Lys Gln Lys Arg
1 5

<210> 26596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; B5701

<400> 26596
Ala Ser Gln Pro Pro Ser Lys Gln Lys
1 5

<210> 26597
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R196Q; A6801

<400> 26597
Ala Ala Ser Gln Pro Pro Ser Lys Gln Lys
1               5                   10


<210> 26598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R549C; B4001

<400> 26598
Leu Glu Asp Gln Glu Cys His Leu Leu
1               5


<210> 26599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B1302

<400> 26599
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 26600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A1101

<400> 26600
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 26601

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A6801

<400> 26601
Asp Leu Ile Ser Gln Thr Ala Val Val Met Lys
1               5                   10


<210> 26602
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; C0802

<400> 26602
Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5


<210> 26603
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A0301

<400> 26603
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 26604
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A0201

<400> 26604
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 26605
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; C0802

<400> 26605
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 26606
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A1101

<400> 26606
Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 26607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A6801

<400> 26607
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 26608
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A0301

<400> 26608
Leu Ile Ser Gln Thr Ala Val Val Met Lys
1               5                   10


<210> 26609
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B1501

<400> 26609
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 26610
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B0801

<400> 26610
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 26611
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B0801

<400> 26611
Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 26612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B5101

<400> 26612
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 26613
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A6801

<400> 26613
Leu Ile Ser Gln Thr Ala Val Val Met Lys
1               5                   10


<210> 26614
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B3501

<400> 26614
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 26615
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A6801

<400> 26615
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 26616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B3501

<400> 26616
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 26617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A2601

<400> 26617

Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 26618
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A1101

<400> 26618
Leu Ile Ser Gln Thr Ala Val Val Met Lys
1               5                   10


<210> 26619
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A3101

<400> 26619
Arg Gln Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5                   10


<210> 26620
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A6801

<400> 26620
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 26621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; C1203

<400> 26621
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5

<210> 26622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A3001

<400> 26622
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 26623
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B1302

<400> 26623
Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 26624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; C1203

<400> 26624
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 26625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B1302

<400> 26625
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5

<210> 26626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B2705

<400> 26626
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 26627
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A6801

<400> 26627
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 26628
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B1501

<400> 26628
Leu Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 26629
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; C1601

<400> 26629
Ile Ser Gln Thr Ala Val Val Met
1               5


<210> 26630
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A6801

<400> 26630
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 26631
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A3001

<400> 26631
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 26632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A3101

<400> 26632
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 26633
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A2601

<400> 26633
Asp Leu Ile Ser Gln Thr Ala Val Val Met
1               5                   10


<210> 26634
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; C0501

<400> 26634
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 26635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; C1203

<400> 26635
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 26636
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A3101

<400> 26636
Ile Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 26637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B1302

<400> 26637
Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 26638
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SF3B1_p.R957Q; B3801

<400> 26638
Ser Gln Thr Ala Val Val Met Lys Thr
1               5


<210> 26639
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A3001

<400> 26639
Gln Ala Ala Asp Leu Ile Ser Gln Thr
1               5


<210> 26640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A0201

<400> 26640
Asp Leu Ile Ser Gln Thr Ala Val Val
1               5


<210> 26641
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A0201

<400> 26641
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala Val
1               5                   10


<210> 26642
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B1302

<400> 26642
Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 26643
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B2705

<400> 26643
Ser Gln Thr Ala Val Val Met Lys
1               5


<210> 26644
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B5101

<400> 26644
Asp Leu Ile Ser Gln Thr Ala Val
1               5


<210> 26645
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A3001

<400> 26645
Gln Ala Ala Asp Leu Ile Ser Gln Thr Ala
1               5                   10


<210> 26646
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; A0201

<400> 26646
Ala Ala Asp Leu Ile Ser Gln Thr Ala Val

1 5 10

<210> 26647
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SF3B1_p.R957Q; B0702

<400> 26647
Leu Ile Ser Gln Thr Ala Val Val Met
1 5

<210> 26648
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B1501

<400> 26648
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1 5 10

<210> 26649
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B1501

<400> 26649
Asn Gln Gly Phe Lys Ala Val Tyr
1 5

<210> 26650
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A3201

<400> 26650
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1 5 10

<210> 26651
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A2601

<400> 26651
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5                   10


<210> 26652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B1501

<400> 26652
Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5


<210> 26653
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A1101

<400> 26653
Ala Gln Ser Val Asn Gln Gly Phe Lys
1               5


<210> 26654
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B3501

<400> 26654
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5                   10


<210> 26655

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A2902

<400> 26655
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5                   10


<210> 26656
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A3101

<400> 26656
Gly Phe Lys Ala Val Tyr Gln Leu Thr Arg
1               5                   10


<210> 26657
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B1501

<400> 26657
Gln Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5                   10


<210> 26658
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A2902

<400> 26658
Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5


<210> 26659
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; C1502

<400> 26659
Ser Val Asn Gln Gly Phe Lys Ala Val
1               5


<210> 26660
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A1101

<400> 26660
Leu Ala Gln Ser Val Asn Gln Gly Phe Lys
1               5                   10


<210> 26661
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B0801

<400> 26661
Asn Gln Gly Phe Lys Ala Val Tyr
1               5


<210> 26662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B0702

<400> 26662
Ser Val Asn Gln Gly Phe Lys Ala Val
1               5


<210> 26663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A0301

<400> 26663
Ala Gln Ser Val Asn Gln Gly Phe Lys
1               5


<210> 26664
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B4403

<400> 26664
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5                   10


<210> 26665
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A0301

<400> 26665
Leu Leu Ala Gln Ser Val Asn Gln Gly Phe Lys
1               5                   10


<210> 26666
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A2301

<400> 26666
Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5


<210> 26667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; C1601

<400> 26667
Ser Val Asn Gln Gly Phe Lys Ala Val
1               5


<210> 26668
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A6801

<400> 26668
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1               5                   10


<210> 26669
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A1101

<400> 26669
Leu Leu Ala Gln Ser Val Asn Gln Gly Phe Lys
1               5                   10


<210> 26670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; C0202

<400> 26670
Lys Ala Val Tyr Gln Leu Thr Arg Met
1               5


<210> 26671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A0201

<400> 26671

Ser Val Asn Gln Gly Phe Lys Ala Val
1 5

<210> 26672
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; B3501

<400> 26672
Gln Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1 5 10

<210> 26673
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.E403K; A1101

<400> 26673
Ser Val Asn Gln Gly Phe Lys Ala Val Tyr
1 5 10

<210> 26674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; A6801

<400> 26674
Gln Asn Ala Thr Val Glu Met Thr Arg
1 5

<210> 26675
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; B3501

<400> 26675
Asn Val Asn Gln Asn Ala Thr Val Glu Met
1 5 10

<210> 26676
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; A0201

<400> 26676
Leu Leu Ser Asn Val Asn Gln Asn Ala
1               5


<210> 26677
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; B1501

<400> 26677
Asn Gln Asn Ala Thr Val Glu Met
1               5


<210> 26678
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; A0201

<400> 26678
Leu Leu Ser Asn Val Asn Gln Asn Ala Thr Val
1               5                   10


<210> 26679
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; A6801

<400> 26679
Asn Gln Asn Ala Thr Val Glu Met Thr Arg
1               5                   10

<210> 26680
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; A6801

<400> 26680
Val Asn Gln Asn Ala Thr Val Glu Met Thr Arg
1               5                   10


<210> 26681
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; A6801

<400> 26681
Gln Asn Ala Thr Val Glu Met Thr Arg Arg
1               5                   10


<210> 26682
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; B1501

<400> 26682
Asn Val Asn Gln Asn Ala Thr Val Glu Met
1               5                   10


<210> 26683
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; B1501

<400> 26683
Val Asn Gln Asn Ala Thr Val Glu Met
1               5


<210> 26684
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; B0702

<400> 26684
Asn Val Asn Gln Asn Ala Thr Val Glu Met
1               5                   10


<210> 26685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.R321Q; B1302

<400> 26685
Leu Leu Ser Asn Val Asn Gln Asn Ala
1               5


<210> 26686
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.T303R; B3801

<400> 26686
Phe Arg Asp Pro Ser Asn Ser Glu Arg Phe
1               5                   10


<210> 26687
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.T303R; B2702

<400> 26687
Phe Arg Asp Pro Ser Asn Ser Glu Arg Phe
1               5                   10


<210> 26688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.T303R; B2705

<400> 26688
Phe Arg Asp Pro Ser Asn Ser Glu Arg
1               5


<210> 26689
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.T303R; A3101

<400> 26689
Gly Phe Arg Asp Pro Ser Asn Ser Glu Arg
1               5                   10


<210> 26690
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.T303R; C0501

<400> 26690
Phe Arg Asp Pro Ser Asn Ser Glu Arg Phe
1               5                   10


<210> 26691
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD2_p.T303R; C0401

<400> 26691
Phe Arg Asp Pro Ser Asn Ser Glu Arg Phe
1               5                   10


<210> 26692
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SMAD2_p.T303R; B2705

<400> 26692
Phe Arg Asp Pro Ser Asn Ser Glu Arg Phe
1  5  10

<210> 26693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD3_p.R287W; B5701

<400> 26693
Arg Asn Ala Ala Val Glu Leu Thr Trp
1  5

<210> 26694
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD3_p.R287W; B5701

<400> 26694
Asn Ala Ala Val Glu Leu Thr Trp
1  5

<210> 26695
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD3_p.R373H; A1101

<400> 26695
Cys Thr Ile His Met Ser Phe Val Lys
1  5

<210> 26696
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD3_p.R373H; C1601

<400> 26696
Met Cys Thr Ile His Met Ser Phe
1               5


<210> 26697
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A118V; C0401

<400> 26697
Val Phe Asp Leu Lys Cys Asp Ser Val
1               5


<210> 26698
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A118V; A6802

<400> 26698
Tyr Val Phe Asp Leu Lys Cys Asp Ser Val
1               5                   10


<210> 26699
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A118V; A0205

<400> 26699
Tyr Val Phe Asp Leu Lys Cys Asp Ser Val
1               5                   10


<210> 26700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A118V; C0802

<400> 26700
Val Phe Asp Leu Lys Cys Asp Ser Val

1 5

<210> 26701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; A0201

<400> 26701
Cys Leu Ser Asp His Val Val Phe Val
1 5

<210> 26702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B1801

<400> 26702
Asp His Val Val Phe Val Gln Ser Tyr
1 5

<210> 26703
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B1501

<400> 26703
His Val Val Phe Val Gln Ser Tyr
1 5

<210> 26704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B1402

<400> 26704
Asp His Val Val Phe Val Gln Ser Tyr
1 5

<210> 26705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B3501

<400> 26705
Asp His Val Val Phe Val Gln Ser Tyr
1               5


<210> 26706
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; C0501

<400> 26706
Leu Ser Asp His Val Val Phe Val
1               5


<210> 26707
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; A6802

<400> 26707
His Val Val Phe Val Gln Ser Tyr Tyr Leu
1               5                   10


<210> 26708
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; A6802

<400> 26708
Cys Leu Ser Asp His Val Val Phe Val
1               5


<210> 26709

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B3901

<400> 26709
Asp His Val Val Phe Val Gln Ser Tyr
1               5


<210> 26710
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B1302

<400> 26710
Cys Leu Ser Asp His Val Val Phe Val
1               5


<210> 26711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; A2902

<400> 26711
His Val Val Phe Val Gln Ser Tyr Tyr
1               5


<210> 26712
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B3501

<400> 26712
His Val Val Phe Val Gln Ser Tyr
1               5


<210> 26713
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B1801

<400> 26713
His Val Val Phe Val Gln Ser Tyr
1               5


<210> 26714
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; B3801

<400> 26714
Asp His Val Val Phe Val Gln Ser Tyr
1               5


<210> 26715
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; A2301

<400> 26715
Asp His Val Val Phe Val Gln Ser Tyr
1               5


<210> 26716
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.A406V; A0101

<400> 26716
Leu Ser Asp His Val Val Phe Val Gln Ser Tyr
1               5                   10


<210> 26717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351H; B3501

<400> 26717
Cys Pro Ile Val Thr Val His Gly Tyr
1               5


<210> 26718
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351H; B1501

<400> 26718
Pro Ile Val Thr Val His Gly Tyr
1               5


<210> 26719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351N; B3501

<400> 26719
Cys Pro Ile Val Thr Val Asn Gly Tyr
1               5


<210> 26720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351V; B3501

<400> 26720
Cys Pro Ile Val Thr Val Val Gly Tyr
1               5


<210> 26721
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351V; C1203

<400> 26721
Ser Ser Cys Pro Ile Val Thr Val Val
1               5


<210> 26722
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; C1203

<400> 26722
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26723
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; B3501

<400> 26723
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26724
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; B1501

<400> 26724
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26725
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; B3501

<400> 26725

Val Pro Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5                   10


<210> 26726
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; B3501

<400> 26726
Cys Pro Ile Val Thr Val Tyr Gly Tyr
1               5


<210> 26727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; A2902

<400> 26727
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; C1601

<400> 26728
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; C0202

<400> 26729
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5

<210> 26730
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; A2601

<400> 26730
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26731
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; A1101

<400> 26731
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26732
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; B5701

<400> 26732
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5


<210> 26733
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D351Y; A6801

<400> 26733
Ser Ser Cys Pro Ile Val Thr Val Tyr
1               5

<210> 26734
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355G; B3801

<400> 26734
Tyr Val Gly Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26735
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355G; B3801

<400> 26735
Gly Tyr Val Gly Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26736
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355G; B5101

<400> 26736
Asp Gly Tyr Val Gly Pro Ser Gly
1               5


<210> 26737
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355G; A2301

<400> 26737
Gly Tyr Val Gly Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26738
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355G; B1501

<400> 26738
Tyr Val Gly Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26739
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355G; B3501

<400> 26739
Tyr Val Gly Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355G; A2601

<400> 26740
Tyr Val Gly Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26741
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; B5101

<400> 26741
Asp Gly Tyr Val Val Pro Ser Gly
1               5


<210> 26742
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; B3801

<400> 26742
Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26743
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; A2301

<400> 26743
Gly Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; A2601

<400> 26744
Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26745
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; B3801

<400> 26745
Gly Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26746
<211> 10
<212> PRT
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<220>

<223> AACR GENIE Results; SMAD4_p.D355V; B1501

<400> 26746
Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26747
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; B3501

<400> 26747
Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26748
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; B3901

<400> 26748
Gly Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; B1501

<400> 26749
Val Val Pro Ser Gly Gly Asp Arg Phe
1               5


<210> 26750
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; B3901

<400> 26750
Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26751
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D355V; A2402

<400> 26751
Gly Tyr Val Val Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26752
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; C0501

<400> 26752
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1               5                   10


<210> 26753
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; A0101

<400> 26753
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1               5                   10


<210> 26754
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; B3501

<400> 26754
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe

1 5 10

<210> 26755
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; B1501

<400> 26755
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1 5 10

<210> 26756
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; A2402

<400> 26756
Gly Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1 5 10

<210> 26757
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; C0401

<400> 26757
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1 5 10

<210> 26758
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; A0201

<400> 26758
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe Cys
1 5 10

<210> 26759
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; C0304

<400> 26759
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1               5                   10


<210> 26760
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; B3501

<400> 26760
Asp Pro Ser Gly Gly Val Arg Phe
1               5


<210> 26761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; A2601

<400> 26761
Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1               5                   10


<210> 26762
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; B1501

<400> 26762
Gly Tyr Val Asp Pro Ser Gly Gly Val Arg Phe
1               5                   10


<210> 26763

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D360V; C0501

<400> 26763
Tyr Val Asp Pro Ser Gly Gly Val
1               5


<210> 26764
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; A2301

<400> 26764
Tyr Tyr Leu Glu Lys Leu Gly Val His Leu
1               5                   10


<210> 26765
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; A2402

<400> 26765
Tyr Tyr Leu Glu Lys Leu Gly Val His Leu
1               5                   10


<210> 26766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; A6802

<400> 26766
Phe Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26767
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; B1302

<400> 26767
Phe Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26768
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; C1402

<400> 26768
Tyr Tyr Leu Glu Lys Leu Gly Val His Leu
1               5                   10


<210> 26769
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; C0602

<400> 26769
Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; B4002

<400> 26770
Leu Glu Lys Leu Gly Val His Leu
1               5


<210> 26771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; B0801

<400> 26771
Met Leu Phe Ile Arg Ser Thr Gln Val
1               5


<210> 26772
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; B3801

<400> 26772
Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; A0201

<400> 26773
Met Leu Phe Ile Arg Ser Thr Gln Val
1               5


<210> 26774
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; B1302

<400> 26774
Met Leu Phe Ile Arg Ser Thr Gln Val
1               5


<210> 26775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; C1502

<400> 26775
Phe Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; A3001

<400> 26776
Phe Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; B5701

<400> 26777
Phe Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D415Efs*20; C0202

<400> 26778
Phe Ile Arg Ser Thr Gln Val His Ile
1               5


<210> 26779
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493H; A6801

<400> 26779

Ala Ala Ala Gly Ile Gly Val His Asp Leu Arg
1               5                   10


<210> 26780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493H; B5701

<400> 26780
Ala Gly Ile Gly Val His Asp Leu Arg
1               5


<210> 26781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493H; A6801

<400> 26781
Ala Gly Ile Gly Val His Asp Leu Arg
1               5


<210> 26782
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493H; B1501

<400> 26782
Ala Gly Ile Gly Val His Asp Leu
1               5


<210> 26783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493H; B3501

<400> 26783
Ser Ala Ala Ala Gly Ile Gly Val His
1               5

<210> 26784
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493H; A6801

<400> 26784
Ala Ala Ala Gly Ile Gly Val His Asp Leu
1               5                   10


<210> 26785
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; A6801

<400> 26785
Ala Ala Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5                   10


<210> 26786
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; B2702

<400> 26786
Ala Ala Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5                   10


<210> 26787
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; B2702

<400> 26787
Ala Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5                   10

<210> 26788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; A6801

<400> 26788
Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5


<210> 26789
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; A1101

<400> 26789
Ala Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5                   10


<210> 26790
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; A6801

<400> 26790
Ala Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5                   10


<210> 26791
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; A3101

<400> 26791
Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5


<210> 26792
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; A3101

<400> 26792
Ala Ala Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5                   10


<210> 26793
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D493N; B5701

<400> 26793
Ala Gly Ile Gly Val Asn Asp Leu Arg
1               5


<210> 26794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; B4901

<400> 26794
Gly Glu Val Leu His Thr Met Pro Ile
1               5


<210> 26795
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; B4002

<400> 26795
Gly Glu Val Leu His Thr Met Pro Ile
1               5


<210> 26796
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; B5001

<400> 26796
Gly Glu Val Leu His Thr Met Pro Ile Ala
1               5                   10


<210> 26797
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; A0205

<400> 26797
Gly Glu Val Leu His Thr Met Pro Ile Ala
1               5                   10


<210> 26798
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; A0201

<400> 26798
Leu Leu Gly Glu Val Leu His Thr Met
1               5


<210> 26799
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; B4002

<400> 26799
Gly Glu Val Leu His Thr Met Pro Ile Ala
1               5                   10


<210> 26800
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SMAD4_p.D537G; B4001

<400> 26800
Gly Glu Val Leu His Thr Met Pro Ile
1               5


<210> 26801
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; B1501

<400> 26801
Ala Leu Gln Leu Leu Gly Glu Val Leu
1               5


<210> 26802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; A3001

<400> 26802
Gly Glu Val Leu His Thr Met Pro Ile
1               5


<210> 26803
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; A0201

<400> 26803
Gln Leu Leu Gly Glu Val Leu His Thr Met
1               5                   10


<210> 26804
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; B3701

<400> 26804
Gly Glu Val Leu His Thr Met Pro Ile
1               5


<210> 26805
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537G; B1302

<400> 26805
Gly Glu Val Leu His Thr Met Pro Ile
1               5


<210> 26806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537V; A0201

<400> 26806
Leu Leu Val Glu Val Leu His Thr Met
1               5


<210> 26807
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537V; B1501

<400> 26807
Leu Gln Leu Leu Val Glu Val Leu
1               5


<210> 26808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537V; B1501

<400> 26808
Ala Leu Gln Leu Leu Val Glu Val Leu

1 5

<210> 26809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.D537V; A0201

<400> 26809
Ala Leu Gln Leu Leu Val Glu Val Leu
1 5

<210> 26810
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.E330K; B3801

<400> 26810
Phe Lys Met Asp Val Gln Val Gly Glu Thr Phe
1 5 10

<210> 26811
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.E330K; B1501

<400> 26811
Lys Met Asp Val Gln Val Gly Glu Thr Phe
1 5 10

<210> 26812
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.E330K; B3801

<400> 26812
Lys Met Asp Val Gln Val Gly Glu Thr Phe
1 5 10

<210> 26813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.E330K; A2301

<400> 26813
Ala Tyr Phe Lys Met Asp Val Gln Val
1               5


<210> 26814
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.E330K; B5101

<400> 26814
Ile Ala Tyr Phe Lys Met Asp Val
1               5


<210> 26815
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G231Afs*10; A1101

<400> 26815
Ser Ile Leu Gly Ala Ala Ile Val Lys
1               5


<210> 26816
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G231Afs*10; A1101

<400> 26816
Ala Ser Ile Leu Gly Ala Ala Ile Val Lys
1               5                   10


<210> 26817

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G231Afs*10; A0301

<400> 26817
Ser Ile Leu Gly Ala Ala Ile Val Lys
1               5


<210> 26818
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G231Afs*10; B1302

<400> 26818
Ser Gln Pro Ala Ser Ile Leu Gly Ala
1               5


<210> 26819
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G231Afs*10; B0702

<400> 26819
Gln Pro Ala Ser Ile Leu Gly Ala Ala Ile
1               5                   10


<210> 26820
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G231Afs*10; B1302

<400> 26820
Ser Gln Pro Ala Ser Ile Leu Gly Ala Ala Ile
1               5                   10


<210> 26821
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G231Afs*10; A1101

<400> 26821
Ser Thr Ser Gln Pro Ala Ser Ile Leu Gly Ala
1               5                   10


<210> 26822
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; B3501

<400> 26822
Cys Pro Ile Val Thr Val Asp Glu Tyr
1               5


<210> 26823
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; B3901

<400> 26823
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26824
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; B3801

<400> 26824
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26825
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; A3303

<400> 26825
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg
1               5                   10


<210> 26826
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; A3303

<400> 26826
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26827
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; A2301

<400> 26827
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26828
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; A2601

<400> 26828
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26829
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; A2402

<400> 26829
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26830
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; B3501

<400> 26830
Glu Tyr Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26831
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G352E; B3501

<400> 26831
Pro Ile Val Thr Val Asp Glu Tyr
1               5


<210> 26832
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G365D; A3303

<400> 26832
Asp Gln Leu Ser Asn Val His Arg
1               5


<210> 26833
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386D; B3801

<400> 26833

Leu His Ile Gly Lys Asp Val Gln Leu
1 5

<210> 26834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386D; B3901

<400> 26834
Leu His Ile Gly Lys Asp Val Gln Leu
1 5

<210> 26835
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386D; B3901

<400> 26835
His Ile Gly Lys Asp Val Gln Leu
1 5

<210> 26836
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386D; B3502

<400> 26836
His Ile Gly Lys Asp Val Gln Leu
1 5

<210> 26837
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386D; B3801

<400> 26837
His Ile Gly Lys Asp Val Gln Leu
1 5

<210> 26838
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386D; B3503

<400> 26838
His Ile Gly Lys Asp Val Gln Leu
1               5


<210> 26839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386V; B3801

<400> 26839
Leu His Ile Gly Lys Val Val Gln Leu
1               5


<210> 26840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386V; B2705

<400> 26840
Ala Arg Leu His Ile Gly Lys Val Val
1               5


<210> 26841
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G386V; B0801

<400> 26841
His Ile Gly Lys Val Val Gln Leu
1               5

<210> 26842
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419R; A3303

<400> 26842
Tyr Tyr Leu Asp Arg Glu Ala Arg Arg
1               5


<210> 26843
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419R; A3303

<400> 26843
Ser Tyr Tyr Leu Asp Arg Glu Ala Arg
1               5


<210> 26844
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419R; A3101

<400> 26844
Ser Tyr Tyr Leu Asp Arg Glu Ala Arg
1               5


<210> 26845
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419R; B2705

<400> 26845
Arg Arg Ala Pro Gly Asp Ala Val His Lys
1               5                   10


<210> 26846
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419R; A3001

<400> 26846
Ala Arg Arg Ala Pro Gly Asp Ala Val
1               5


<210> 26847
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419W; B5701

<400> 26847
Gln Ser Tyr Tyr Leu Asp Arg Glu Ala Trp
1               5                   10


<210> 26848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419W; C1402

<400> 26848
Ser Tyr Tyr Leu Asp Arg Glu Ala Trp
1               5


<210> 26849
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419W; C1402

<400> 26849
Tyr Tyr Leu Asp Arg Glu Ala Trp
1               5


<210> 26850
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419W; A6802

<400> 26850
Glu Ala Trp Arg Ala Pro Gly Asp Ala Val
1               5                   10


<210> 26851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419W; B5701

<400> 26851
Ser Tyr Tyr Leu Asp Arg Glu Ala Trp
1               5


<210> 26852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.G419W; B4403

<400> 26852
Ser Tyr Tyr Leu Asp Arg Glu Ala Trp
1               5


<210> 26853
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L389del; B4403

<400> 26853
Gln Glu Cys Lys Gly Glu Gly Asp Val Trp
1               5                   10


<210> 26854
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SMAD4_p.L43S; A1101

<400> 26854
Arg Ala Ile Glu Ser Ser Val Lys Lys
1               5


<210> 26855
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; B4403

<400> 26855
Ile Glu Ser Ser Val Lys Lys Leu
1               5


<210> 26856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A0301

<400> 26856
Arg Ala Ile Glu Ser Ser Val Lys Lys
1               5


<210> 26857
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A0301

<400> 26857
Ala Ile Glu Ser Ser Val Lys Lys Leu Lys
1               5                   10


<210> 26858
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A1101

<400> 26858
Ala Ile Glu Ser Ser Val Lys Lys Leu Lys
1               5                   10


<210> 26859
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; B1801

<400> 26859
Ile Glu Ser Ser Val Lys Lys Leu
1               5


<210> 26860
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; B4001

<400> 26860
Ile Glu Ser Ser Val Lys Lys Leu
1               5


<210> 26861
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A2301

<400> 26861
Ile Glu Ser Ser Val Lys Lys Leu
1               5


<210> 26862
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A6801

<400> 26862
Arg Ala Ile Glu Ser Ser Val Lys Lys

1 5

<210> 26863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A3001

<400> 26863
Arg Ala Ile Glu Ser Ser Val Lys Lys
1 5

<210> 26864
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A0301

<400> 26864
Arg Ala Ile Glu Ser Ser Val Lys
1 5

<210> 26865
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; A1101

<400> 26865
Arg Ala Ile Glu Ser Ser Val Lys
1 5

<210> 26866
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L43S; B4402

<400> 26866
Ile Glu Ser Ser Val Lys Lys Leu
1 5

<210> 26867
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.L43S; B0702

<400> 26867
Ile Glu Ser Ser Val Lys Lys Leu
1               5


<210> 26868
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; B2702

<400> 26868
Ala Ala Ala Gly Ile Gly Val Asp Asp Pro Arg
1               5                   10


<210> 26869
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; B2702

<400> 26869
Ala Ala Gly Ile Gly Val Asp Asp Pro Arg
1               5                   10


<210> 26870
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; A6801

<400> 26870
Ala Ala Ala Gly Ile Gly Val Asp Asp Pro Arg
1               5                   10


<210> 26871

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; C0501

<400> 26871
Gly Val Asp Asp Pro Arg Arg Leu
1               5


<210> 26872
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; A6802

<400> 26872
Ala Ala Ala Gly Ile Gly Val Asp Asp Pro Arg
1               5                   10


<210> 26873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; B2702

<400> 26873
Ala Gly Ile Gly Val Asp Asp Pro Arg
1               5


<210> 26874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; A6801

<400> 26874
Ala Gly Ile Gly Val Asp Asp Pro Arg
1               5


<210> 26875
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; C0802

<400> 26875
Gly Val Asp Asp Pro Arg Arg Leu
1               5


<210> 26876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L495P; A6801

<400> 26876
Ala Ala Gly Ile Gly Val Asp Asp Pro Arg
1               5                   10


<210> 26877
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L529_H530delinsY; A2601

<400> 26877
Glu Thr Pro Cys Trp Ile Glu Ile His Tyr
1               5                   10


<210> 26878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L529_H530delinsY; B0801

<400> 26878
Glu Ile His Tyr Arg Ala Leu Gln Leu
1               5


<210> 26879
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.L529_H530delinsY; B3501

<400> 26879
Thr Pro Cys Trp Ile Glu Ile His Tyr
1               5


<210> 26880
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356L; C0501

<400> 26880
Thr Val Asp Gly Tyr Val Asp Leu
1               5


<210> 26881
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356L; C0501

<400> 26881
Tyr Val Asp Leu Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26882
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356L; A2301

<400> 26882
Gly Tyr Val Asp Leu Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26883
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.P356L; B3801

<400> 26883
Gly Tyr Val Asp Leu Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26884
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356L; B3801

<400> 26884
Tyr Val Asp Leu Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26885
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.P356L; C0802

<400> 26885
Tyr Val Asp Leu Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26886
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.P356L; C0802

<400> 26886
Thr Val Asp Gly Tyr Val Asp Leu
1               5


<210> 26887
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.P356L; B3901

<400> 26887

Gly Tyr Val Asp Leu Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26888
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356L; A2402

<400> 26888
Gly Tyr Val Asp Leu Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26889
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; B3801

<400> 26889
Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26890
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; B3901

<400> 26890
Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26891
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; C0501

<400> 26891
Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10

<210> 26892
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; C0802

<400> 26892
Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26893
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; B3901

<400> 26893
Gly Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26894
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; B3801

<400> 26894
Gly Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26895
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; A0101

<400> 26895
Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10

<210> 26896
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; A2301

<400> 26896
Gly Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26897
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; B3501

<400> 26897
Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26898
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; B3801

<400> 26898
Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5


<210> 26899
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; B3503

<400> 26899
Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26900
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.P356S; A2402

<400> 26900
Gly Tyr Val Asp Ser Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 26901
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B3801

<400> 26901
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26902
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B3502

<400> 26902
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26903
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B3901

<400> 26903
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26904
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; A0206

<400> 26904
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26905
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; C0801

<400> 26905
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26906
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B3503

<400> 26906
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26907
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; C0501

<400> 26907
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26908
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SMAD4_p.R361C; C0802

<400> 26908
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26909
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B5801

<400> 26909
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26910
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B1502

<400> 26910
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26911
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; A0205

<400> 26911
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26912
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B3901

<400> 26912
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26913
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B3501

<400> 26913
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26914
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B3801

<400> 26914
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26915
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; A0101

<400> 26915
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26916
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; A2301

<400> 26916
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe

1 5 10

<210> 26917
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; B1501

<400> 26917
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 26918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; C0304

<400> 26918
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 26919
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; C1701

<400> 26919
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 26920
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; A2402

<400> 26920
Gly Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1 5 10

<210> 26921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; C0802

<400> 26921
Tyr Val Asp Pro Ser Gly Gly Asp Cys
1               5


<210> 26922
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361C; C0303

<400> 26922
Tyr Val Asp Pro Ser Gly Gly Asp Cys Phe
1               5                   10


<210> 26923
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3801

<400> 26923
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26924
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3508

<400> 26924
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26925

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3901

<400> 26925
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26926
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; C0501

<400> 26926
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26927
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3901

<400> 26927
Gly Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26928
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3502

<400> 26928
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26929
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; A0206

<400> 26929
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26930
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361G; C0802

<400> 26930
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26931
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361G; A0207

<400> 26931
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26932
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361G; C0801

<400> 26932
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26933
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3801

<400> 26933
Gly Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26934
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; A0101

<400> 26934
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26935
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3503

<400> 26935
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26936
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3501

<400> 26936
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26937
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B5801

<400> 26937
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26938
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B1502

<400> 26938
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26939
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; A2301

<400> 26939
Gly Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B1501

<400> 26940
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1               5                   10


<210> 26941
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B2702

<400> 26941

Gly Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1  5  10

<210> 26942
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; A0205

<400> 26942
Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1  5  10

<210> 26943
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B1503

<400> 26943
Gly Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1  5  10

<210> 26944
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; A2402

<400> 26944
Gly Tyr Val Asp Pro Ser Gly Gly Asp Gly Phe
1  5  10

<210> 26945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361G; B3801

<400> 26945
Val Asp Pro Ser Gly Gly Asp Gly Phe
1  5

<210> 26946
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3801

<400> 26946
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26947
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3508

<400> 26947
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26948
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; C0501

<400> 26948
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26949
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3901

<400> 26949
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10

<210> 26950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; C0802

<400> 26950
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26951
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3502

<400> 26951
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26952
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; A0207

<400> 26952
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26953
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3801

<400> 26953
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26954
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; C0801

<400> 26954
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26955
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3901

<400> 26955
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26956
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; A0201

<400> 26956
Tyr Val Asp Pro Ser Gly Gly Asp His Phe Cys
1               5                   10


<210> 26957
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; A2301

<400> 26957
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26958
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B5801

<400> 26958
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; A0206

<400> 26959
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26960
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3503

<400> 26960
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26961
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3501

<400> 26961
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26962
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SMAD4_p.R361H; A0101

<400> 26962
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26963
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; A0205

<400> 26963
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26964
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B1502

<400> 26964
Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26965
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; A2402

<400> 26965
Gly Tyr Val Asp Pro Ser Gly Gly Asp His Phe
1               5                   10


<210> 26966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3801

<400> 26966
Val Asp Pro Ser Gly Gly Asp His Phe
1               5


<210> 26967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3901

<400> 26967
Tyr Val Asp Pro Ser Gly Gly Asp His
1               5


<210> 26968
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B3906

<400> 26968
Asp His Phe Cys Leu Gly Gln Leu
1               5


<210> 26969
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; A0206

<400> 26969
Tyr Val Asp Pro Ser Gly Gly Asp His Phe Cys
1               5                   10


<210> 26970
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361H; B1501

<400> 26970
Tyr Val Asp Pro Ser Gly Gly Asp His Phe

1 5 10

<210> 26971
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361L; C0802

<400> 26971
Tyr Val Asp Pro Ser Gly Gly Asp Leu
1 5

<210> 26972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361L; C0501

<400> 26972
Tyr Val Asp Pro Ser Gly Gly Asp Leu Phe
1 5 10

<210> 26973
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361L; C0501

<400> 26973
Tyr Val Asp Pro Ser Gly Gly Asp Leu
1 5

<210> 26974
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361L; A2402

<400> 26974
Gly Tyr Val Asp Pro Ser Gly Gly Asp Leu Phe
1 5 10

<210> 26975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361L; C0802

<400> 26975
Tyr Val Asp Pro Ser Gly Gly Asp Leu Phe
1               5                   10


<210> 26976
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361L; A0101

<400> 26976
Tyr Val Asp Pro Ser Gly Gly Asp Leu Phe
1               5                   10


<210> 26977
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361L; B3501

<400> 26977
Tyr Val Asp Pro Ser Gly Gly Asp Leu Phe
1               5                   10


<210> 26978
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361L; C0304

<400> 26978
Tyr Val Asp Pro Ser Gly Gly Asp Leu
1               5


<210> 26979

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361L; B1501

<400> 26979
Tyr Val Asp Pro Ser Gly Gly Asp Leu Phe
1               5                   10


<210> 26980
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361L; C0303

<400> 26980
Tyr Val Asp Pro Ser Gly Gly Asp Leu
1               5


<210> 26981
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; B3801

<400> 26981
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26982
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; C0802

<400> 26982
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26983
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; C0501

<400> 26983
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26984
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361S; B3501

<400> 26984
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26985
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361S; A2301

<400> 26985
Gly Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26986
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; B3801

<400> 26986
Gly Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26987
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; A2402

<400> 26987
Gly Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26988
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; A0101

<400> 26988
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26989
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361S; B1501

<400> 26989
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26990
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361S; C0304

<400> 26990
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; B3801

<400> 26991
Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5


<210> 26992
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.R361S; B1501

<400> 26992
Gly Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26993
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361S; C0303

<400> 26993
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26994
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R361S; C0401

<400> 26994
Tyr Val Asp Pro Ser Gly Gly Asp Ser Phe
1               5                   10


<210> 26995
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.R496H; A2301

<400> 26995

Ile Gly Val Asp Asp Leu His Arg Leu
1               5


<210> 26996
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.T521I; B5101

<400> 26996
Tyr Pro Arg Gln Ser Ile Lys Glu Ile
1               5


<210> 26997
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMAD4_p.T521I; B5701

<400> 26997
Gln Ser Ile Lys Glu Ile Pro Cys Trp
1               5


<210> 26998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.T521I; B0702

<400> 26998
Tyr Pro Arg Gln Ser Ile Lys Glu Ile
1               5


<210> 26999
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.T521I; B5501

<400> 26999
Tyr Pro Arg Gln Ser Ile Lys Glu Ile
1               5

<210> 27000
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.V354G; C0501

<400> 27000
Tyr Gly Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 27001
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.V354G; B3501

<400> 27001
Tyr Gly Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 27002
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.V354G; C0802

<400> 27002
Tyr Gly Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 27003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.V354G; B0702

<400> 27003
Gly Asp Pro Ser Gly Gly Asp Arg Phe
1               5

<210> 27004
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.Y353C; B3801

<400> 27004
Cys Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 27005
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.Y353C; B3801

<400> 27005
Gly Cys Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 27006
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.Y353C; C0501

<400> 27006
Cys Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 27007
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMAD4_p.Y353C; B1501

<400> 27007
Gly Cys Val Asp Pro Ser Gly Gly Asp Arg Phe
1               5                   10


<210> 27008
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.D1127H; A0301

<400> 27008
Tyr Leu Arg Leu His Gly Thr Thr Lys
1               5


<210> 27009
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.D1188Y; B3501

<400> 27009
Asn Pro His Gln Asp Leu Gln Ala Gln Tyr
1               5                   10


<210> 27010
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.D1188Y; B1501

<400> 27010
His Gln Asp Leu Gln Ala Gln Tyr
1               5


<210> 27011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E1083K; A0301

<400> 27011
Lys Leu Leu Asp Arg Ile Leu Pro Lys
1               5


<210> 27012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E1083K; C0602

<400> 27012
Tyr Arg Ala Ser Gly Lys Phe Lys Leu
1               5


<210> 27013
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E1083K; A0301

<400> 27013
Lys Leu Leu Asp Arg Ile Leu Pro Lys Leu
1               5                   10


<210> 27014
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; SMARCA4_p.E1083K; A0201

<400> 27014
Lys Leu Leu Asp Arg Ile Leu Pro Lys Leu
1               5                   10


<210> 27015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E821K; A1101

<400> 27015
Ser Thr Leu Ser Asn Trp Ala Tyr Lys
1               5


<210> 27016
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SMARCA4_p.E821K; A0301

<400> 27016
Ser Thr Leu Ser Asn Trp Ala Tyr Lys
1               5


<210> 27017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E821K; A2402

<400> 27017
Thr Leu Ser Asn Trp Ala Tyr Lys Phe
1               5


<210> 27018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E882K; A0301

<400> 27018
Ile Val Asp Lys Gly His Arg Met Lys
1               5


<210> 27019
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E882K; C0501

<400> 27019
Ile Val Asp Lys Gly His Arg Met
1               5


<210> 27020
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E882K; C0802

<400> 27020
Ile Val Asp Lys Gly His Arg Met
1               5


<210> 27021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E882K; A1101

<400> 27021
Ile Val Asp Lys Gly His Arg Met Lys
1               5


<210> 27022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.E882K; C0304

<400> 27022
Met Ile Val Asp Lys Gly His Arg Met
1               5


<210> 27023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.G1159W; A3101

<400> 27023
Arg Ala Trp Gly Leu Gly Leu Asn Leu
1               5


<210> 27024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.G1160V; B0702

<400> 27024
Ser Thr Arg Ala Gly Val Leu Gly Leu

1 5

<210> 27025
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.G1160V; B1501

<400> 27025
Ser Thr Arg Ala Gly Val Leu Gly Leu
1 5

<210> 27026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.G1160V; A0201

<400> 27026
Val Leu Gly Leu Asn Leu Gln Ser Ala
1 5

<210> 27027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.G1162C; A3001

<400> 27027
Ser Thr Arg Ala Gly Gly Leu Cys Leu
1 5

<210> 27028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.G1162C; B0702

<400> 27028
Ser Thr Arg Ala Gly Gly Leu Cys Leu
1 5

<210> 27029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; B1501

<400> 27029
Thr Val Asn Ser Val Glu Glu Lys Phe
1               5


<210> 27030
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; B3501

<400> 27030
Thr Val Asn Ser Val Glu Glu Lys Phe
1               5


<210> 27031
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; B4403

<400> 27031
Glu Glu Lys Phe Leu Ala Ala Ala Lys Tyr
1               5                   10


<210> 27032
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; B1801

<400> 27032
Val Glu Glu Lys Phe Leu Ala Ala
1               5


<210> 27033

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; B4402

<400> 27033
Glu Glu Lys Phe Leu Ala Ala Ala Lys Tyr
1               5                   10


<210> 27034
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; B1801

<400> 27034
Val Glu Glu Lys Phe Leu Ala Ala Ala
1               5


<210> 27035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; A1101

<400> 27035
Ser Val Glu Glu Lys Phe Leu Ala Ala Ala Lys
1               5                   10


<210> 27036
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; A2601

<400> 27036
Thr Val Asn Ser Val Glu Glu Lys Phe
1               5


<210> 27037
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.I1214F; A0201

<400> 27037
Phe Leu Ala Ala Ala Lys Tyr Lys Leu
1               5


<210> 27038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.P913L; A0201

<400> 27038
Leu Leu Gln Asn Lys Leu Pro Glu Leu
1               5


<210> 27039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.P913L; A1101

<400> 27039
Leu Thr Gly Thr Leu Leu Gln Asn Lys
1               5


<210> 27040
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.P913L; A0201

<400> 27040
Thr Leu Leu Gln Asn Lys Leu Pro Glu Leu
1               5                   10


<210> 27041
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.P913L; B0702

<400> 27041
Ala Pro Arg Arg Leu Leu Leu Thr Gly Thr Leu
1               5                   10


<210> 27042
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.P913L; A0301

<400> 27042
Leu Leu Thr Gly Thr Leu Leu Gln Asn Lys
1               5                   10


<210> 27043
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.R973W; A0301

<400> 27043
Val Leu Trp Pro Phe Leu Leu Arg
1               5


<210> 27044
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.T910M; A0301

<400> 27044
Leu Leu Met Gly Thr Pro Leu Gln Asn Lys
1               5                   10


<210> 27045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.T910M; A0301

<400> 27045
Leu Met Gly Thr Pro Leu Gln Asn Lys
1               5


<210> 27046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.T910M; A1101

<400> 27046
Leu Met Gly Thr Pro Leu Gln Asn Lys
1               5


<210> 27047
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.T910M; A1101

<400> 27047
Leu Leu Met Gly Thr Pro Leu Gln Asn Lys
1               5                   10


<210> 27048
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.T910M; B2702

<400> 27048
Leu Leu Met Gly Thr Pro Leu Gln Asn Lys
1               5                   10


<210> 27049
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.T910M; A6802

<400> 27049

Leu Leu Met Gly Thr Pro Leu Gln Asn Lys
1               5                   10


<210> 27050
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCA4_p.T910M; B3503

<400> 27050
Met Gly Thr Pro Leu Gln Asn Lys Leu
1               5


<210> 27051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; B5701

<400> 27051
His Leu Ala Asn Thr Ala Pro Ala Trp
1               5


<210> 27052
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; B3501

<400> 27052
His Leu Ala Asn Thr Ala Pro Ala Trp
1               5


<210> 27053
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; A3201

<400> 27053
His Leu Ala Asn Thr Ala Pro Ala Trp
1               5

<210> 27054
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; B5701

<400> 27054
Arg His Leu Ala Asn Thr Ala Pro Ala Trp
1               5                   10


<210> 27055
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; B4403

<400> 27055
His Leu Ala Asn Thr Ala Pro Ala Trp
1               5


<210> 27056
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; A0301

<400> 27056
His Leu Ala Asn Thr Ala Pro Ala Trp
1               5


<210> 27057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; B1501

<400> 27057
His Leu Ala Asn Thr Ala Pro Ala Trp
1               5

<210> 27058
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R377H; A2601

<400> 27058
His Leu Ala Asn Thr Ala Pro Ala Trp
1               5


<210> 27059
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R40Q; A0301

<400> 27059
Arg Met Phe Gln Gly Ser Leu Tyr Lys
1               5


<210> 27060
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R40Q; A1101

<400> 27060
Arg Met Phe Gln Gly Ser Leu Tyr Lys
1               5


<210> 27061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R40Q; B1501

<400> 27061
Arg Met Phe Gln Gly Ser Leu Tyr
1               5


<210> 27062
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMARCB1_p.R40Q; A0301

<400> 27062
Arg Met Phe Gln Gly Ser Leu Tyr
1               5


<210> 27063
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SMO_p.E194K; B1302

<400> 27063
Gly Gln Cys Lys Val Pro Leu Val
1               5


<210> 27064
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.A118T; A6801

<400> 27064
Met Val Trp Ala Gln Thr Ala Arg
1               5


<210> 27065
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; A2601

<400> 27065
Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B4001

<400> 27066
Ile Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27067
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B5101

<400> 27067
Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27068
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; A6801

<400> 27068
Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27069
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B4403

<400> 27069
Ile Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27070
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B1302

<400> 27070
Ile Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; A6801

<400> 27071
Ser Asn Ile Glu Thr Phe Asp Val Asn Arg
1               5                   10


<210> 27072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; A0201

<400> 27072
Ile Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27073
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; A6801

<400> 27073
Asn Ile Glu Thr Phe Asp Val Asn Arg
1               5


<210> 27074
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; A6801

<400> 27074
Asn Ile Glu Thr Phe Asp Val Asn Arg Val
1               5                   10


<210> 27075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; A2301

<400> 27075
Ile Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27076
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B1302

<400> 27076
Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27077
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B1801

<400> 27077
Glu Thr Phe Asp Val Asn Arg Val
1               5


<210> 27078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B3801

<400> 27078
Ile Glu Thr Phe Asp Val Asn Arg Val

1 5

<210> 27079
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; C1203

<400> 27079
Glu Thr Phe Asp Val Asn Arg Val
1 5

<210> 27080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.E293Rfs*3; B1801

<400> 27080
Ile Glu Thr Phe Asp Val Asn Arg Val
1 5

<210> 27081
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.H380Rfs*4; A6801

<400> 27081
Pro Ala Ala Pro Pro Gln Gln Pro Gln Ala Arg
1 5 10

<210> 27082
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.H380Rfs*4; A3303

<400> 27082
Ala Ala Pro Pro Gln Gln Pro Gln Ala Arg
1 5 10

<210> 27083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.H380Rfs*4; A6801

<400> 27083
Ala Ala Pro Pro Gln Gln Pro Gln Ala Arg
1               5                   10


<210> 27084
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.H380Rfs*4; A3303

<400> 27084
Ala Pro Pro Gln Gln Pro Gln Ala Arg
1               5


<210> 27085
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.H380Rfs*4; A3303

<400> 27085
Pro Ala Ala Pro Pro Gln Gln Pro Gln Ala Arg
1               5                   10


<210> 27086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.P374Rfs*9; B0702

<400> 27086
Gln Pro Ala Ala Pro Arg Ser Ser His
1               5


<210> 27087

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.P374Rfs*9; A6801

<400> 27087
Pro Pro Gln Gln Pro Ala Ala Pro Arg
1               5


<210> 27088
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.P374Rfs*9; A6801

<400> 27088
Ala Pro Pro Gln Gln Pro Ala Ala Pro Arg
1               5                   10


<210> 27089
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.P374Rfs*9; A6801

<400> 27089
Ala Ala Pro Pro Gln Gln Pro Ala Ala Pro Arg
1               5                   10


<210> 27090
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.Q246Cfs*8; A6801

<400> 27090
Thr Thr Pro Lys Thr Asp Val Cys Ser Arg
1               5                   10


<210> 27091
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.R264T; A1101

<400> 27091
Gly Thr Gln Pro Pro Ile Asp Phe Arg
1               5


<210> 27092
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.R264T; B0702

<400> 27092
Arg Pro Leu Pro Glu Gly Gly Thr Gln Pro
1               5                   10


<210> 27093
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.R271Afs*8; B5701

<400> 27093
Arg Gln Pro Pro Ile Asp Phe Ala Thr Trp
1               5                   10


<210> 27094
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.R271Afs*8; A2402

<400> 27094
Arg Gln Pro Pro Ile Asp Phe Ala Thr Trp
1               5                   10


<210> 27095
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SOX9_p.R271Afs*8; A2301

<400> 27095
Arg Gln Pro Pro Ile Asp Phe Ala Thr Trp
1               5                   10


<210> 27096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B4001

<400> 27096
Lys Glu Pro Glu Glu Gln Pro Thr Phe
1               5


<210> 27097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B4403

<400> 27097
Lys Glu Pro Glu Glu Gln Pro Thr Phe
1               5


<210> 27098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B4402

<400> 27098
Lys Glu Pro Glu Glu Gln Pro Thr Phe
1               5


<210> 27099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B1501

<400> 27099
Lys Glu Pro Glu Glu Gln Pro Thr Phe
1               5


<210> 27100
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B1801

<400> 27100
Glu Glu Gln Pro Thr Phe Glu Tyr
1               5


<210> 27101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; A2301

<400> 27101
Lys Glu Pro Glu Glu Gln Pro Thr Phe
1               5


<210> 27102
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B4403

<400> 27102
Glu Glu Gln Pro Thr Phe Glu Tyr Leu
1               5


<210> 27103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B4001

<400> 27103

Glu Glu Gln Pro Thr Phe Glu Tyr Leu
1               5


<210> 27104
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B4402

<400> 27104
Glu Glu Gln Pro Thr Phe Glu Tyr Leu
1               5


<210> 27105
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B3501

<400> 27105
Glu Pro Glu Glu Gln Pro Thr Phe Glu Tyr
1               5                   10


<210> 27106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B0702

<400> 27106
Lys Glu Pro Glu Glu Gln Pro Thr Phe
1               5


<210> 27107
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B3501

<400> 27107
Glu Pro Glu Glu Gln Pro Thr Phe
1               5

<210> 27108
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; B4403

<400> 27108
Lys Glu Pro Glu Glu Gln Pro Thr Phe Glu Tyr
1               5                   10


<210> 27109
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; SRC_p.R509Q; A2402

<400> 27109
Lys Glu Pro Glu Glu Gln Pro Thr Phe
1               5


<210> 27110
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B1801

<400> 27110
Asp Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27111
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B4001

<400> 27111
Gln Glu Asp Glu Ala Ile Lys Ile Glu Ala Leu
1               5                   10

<210> 27112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B4001

<400> 27112
Asp Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27113
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B0801

<400> 27113
Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27114
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B0801

<400> 27114
Asp Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27115
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B4001

<400> 27115
Gln Glu Asp Glu Ala Ile Lys Ile
1               5


<210> 27116
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B3501

<400> 27116
Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27117
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; A2601

<400> 27117
Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27118
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B1801

<400> 27118
Asp Glu Ala Ile Lys Ile Glu Ala
1               5


<210> 27119
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B5101

<400> 27119
Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; A0301

<400> 27120
Ala Ile Lys Ile Glu Ala Leu His Lys
1               5


<210> 27121
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B1801

<400> 27121
Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27122
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B4403

<400> 27122
Gln Glu Asp Glu Ala Ile Lys Ile
1               5


<210> 27123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B4403

<400> 27123
Asp Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27124
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; STAG2_p.S853I; B0702

<400> 27124
Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27125
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; A2601

<400> 27125
Glu Ala Ile Lys Ile Glu Ala Leu His
1               5


<210> 27126
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B4403

<400> 27126
Gln Glu Asp Glu Ala Ile Lys Ile Glu Ala Leu
1               5                   10


<210> 27127
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAG2_p.S853I; B1501

<400> 27127
Glu Ala Ile Lys Ile Glu Ala Leu
1               5


<210> 27128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B1501

<400> 27128
Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5


<210> 27129
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B4403

<400> 27129
Ser Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5                   10


<210> 27130
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B5701

<400> 27130
Ser Ser Lys Gly Gly Gly Val Thr Phe Thr Trp
1               5                   10


<210> 27131
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B5701

<400> 27131
Lys Gly Gly Gly Val Thr Phe Thr Trp
1               5


<210> 27132
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B4001

<400> 27132
Ser Glu Ser Ser Lys Gly Gly Gly Val Thr Phe

1 5 10

<210> 27133
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; C0202

<400> 27133
Ser Ser Lys Gly Gly Gly Val Thr Phe
1 5

<210> 27134
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B5701

<400> 27134
Ser Ser Lys Gly Gly Gly Val Thr Phe
1 5

<210> 27135
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B4402

<400> 27135
Ser Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1 5 10

<210> 27136
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B1801

<400> 27136
Ser Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1 5 10

<210> 27137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; A3201

<400> 27137
Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5


<210> 27138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; C1203

<400> 27138
Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5


<210> 27139
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B1501

<400> 27139
Ser Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5                   10


<210> 27140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B0702

<400> 27140
Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5


<210> 27141

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B0702

<400> 27141
Ser Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5                   10


<210> 27142
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; A2301

<400> 27142
Ser Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5                   10


<210> 27143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; C1601

<400> 27143
Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5


<210> 27144
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; A6801

<400> 27144
Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5                   10


<210> 27145
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B5701

<400> 27145
Gly Gly Gly Val Thr Phe Thr Trp
1               5


<210> 27146
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; A2601

<400> 27146
Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5                   10


<210> 27147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; A2301

<400> 27147
Lys Gly Gly Gly Val Thr Phe Thr Trp
1               5


<210> 27148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; C0304

<400> 27148
Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5


<210> 27149
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B1501

<400> 27149
Glu Ser Ser Lys Gly Gly Gly Val Thr Phe
1               5                   10


<210> 27150
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STAT3_p.E616G; B4403

<400> 27150
Lys Gly Gly Gly Val Thr Phe Thr Trp
1               5


<210> 27151
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.A206Rfs*81; B5101

<400> 27151
Val Ala Pro Arg Ser Leu Thr Cys
1               5


<210> 27152
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.A206Rfs*81; B5701

<400> 27152
Ser Ser Arg Pro Arg Leu Pro Thr Ala Trp
1               5                   10


<210> 27153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.A206Rfs*81; C1601

<400> 27153
Arg Ala Thr Val Ala Pro Arg Ser Leu
1               5


<210> 27154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.A206Rfs*81; B0702

<400> 27154
Ser Pro Ser Thr Thr Ser Pro Arg Val
1               5


<210> 27155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.A206Rfs*81; B0702

<400> 27155
Thr Pro Ala Gly Pro Ala Arg Ala Pro
1               5


<210> 27156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.A206Rfs*81; A1101

<400> 27156
Gly Thr Thr Ser Thr Ser Cys Leu Arg
1               5


<210> 27157
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.A206Rfs*81; A6801

<400> 27157

Thr Pro Ser Arg Ala Thr Val Ala Pro Arg
1               5                   10


<210> 27158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D194Y; A2301

<400> 27158
Ser Tyr Leu Gly Val Ala Glu Ala Leu
1               5


<210> 27159
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D194Y; A2402

<400> 27159
Ser Tyr Leu Gly Val Ala Glu Ala Leu
1               5


<210> 27160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D194Y; B3501

<400> 27160
Thr Gly Gly Thr Leu Lys Ile Ser Tyr
1               5


<210> 27161
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D237Y; A2402

<400> 27161
Val Tyr Ile Trp Ser Ala Gly Val Thr Leu
1               5                   10

<210> 27162
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D277Rfs*8; B5701

<400> 27162
Gly Ser Tyr Ala Ile Pro Gly Arg Leu Trp
1               5                   10


<210> 27163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Afs*11; A3101

<400> 27163
Ala Cys Trp Gly Lys Ala Leu Thr Ala Arg
1               5                   10


<210> 27164
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A6801

<400> 27164
His Pro Ala Gly Gly Cys Val Ile Gln Arg
1               5                   10


<210> 27165
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A1101

<400> 27165
Ser Thr Thr Glu Glu Val Thr Ala Gln Lys
1               5                   10

<210> 27166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A6801

<400> 27166
Asn Val Tyr Gly Asp Gly Val Leu Arg
1               5


<210> 27167
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; B5701

<400> 27167
Asn Val Tyr Gly Asp Gly Val Leu Arg Val Trp
1               5                   10


<210> 27168
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A6801

<400> 27168
Glu Ala Phe Pro Ser Val Pro Gly Pro Arg
1               5                   10


<210> 27169
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A1101

<400> 27169
Thr Thr Glu Glu Val Thr Ala Gln Lys
1               5


<210> 27170
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A6801

<400> 27170
Ser Thr Thr Glu Glu Val Thr Ala Gln Lys
1               5                   10


<210> 27171
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; B4001

<400> 27171
Ala Glu Asn Val Tyr Gly Asp Gly Val Leu
1               5                   10


<210> 27172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; B5101

<400> 27172
Phe Pro Ser Val Pro Gly Pro Arg Val
1               5


<210> 27173
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; B1501

<400> 27173
Ile Gln Arg Arg Glu Ala Glu Asn Val Tyr
1               5                   10


<210> 27174
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A6801

<400> 27174
Glu Asn Val Tyr Gly Asp Gly Val Leu Arg
1               5                   10


<210> 27175
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A6801

<400> 27175
Thr Thr Glu Glu Val Thr Ala Gln Lys
1               5


<210> 27176
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; B5701

<400> 27176
Tyr Gly Asp Gly Val Leu Arg Val Trp
1               5


<210> 27177
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; A2402

<400> 27177
Val Tyr Gly Asp Gly Val Leu Arg Val Trp
1               5                   10


<210> 27178
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; STK11_p.D53Gfs*110; B1501

<400> 27178
Gly Gln Arg Ala Gly Glu Ala Phe
1               5


<210> 27179
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; B0702

<400> 27179
Gly Pro Ala Gly Gly Arg Leu Leu
1               5


<210> 27180
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Gfs*110; B3501

<400> 27180
Asn Ala Gly Gln Arg Ala Gly Glu Ala Phe
1               5                   10


<210> 27181
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Pfs*109; A1101

<400> 27181
Ser Thr Thr Glu Glu Val Thr Ala Gln Lys
1               5                   10


<210> 27182
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Pfs*109; A1101

<400> 27182
Thr Thr Glu Glu Val Thr Ala Gln Lys
1               5


<210> 27183
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Pfs*109; A2402

<400> 27183
Val Tyr Gly Asp Gly Val Leu Arg Val Trp
1               5                   10


<210> 27184
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Pfs*109; B3501

<400> 27184
Asn Ala Gly Gln Arg Ala Gly Glu Ala Phe
1               5                   10


<210> 27185
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Tfs*11; A3101

<400> 27185
Thr Cys Trp Gly Lys Ala Leu Thr Ala Arg
1               5                   10


<210> 27186
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.D53Tfs*11; A3101

<400> 27186
Gly Thr Cys Trp Gly Lys Ala Leu Thr Ala Arg

1 5 10

<210> 27187
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E199D; B1501

<400> 27187
Gly Val Ala Asp Ala Leu His Pro Phe
1 5

<210> 27188
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E223Rfs*64; B5101

<400> 27188
Val Ala Pro Arg Ser Leu Thr Cys
1 5

<210> 27189
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E223Rfs*64; C1601

<400> 27189
Arg Ala Thr Val Ala Pro Arg Ser Leu
1 5

<210> 27190
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E223Rfs*64; B0702

<400> 27190
Ser Pro Ser Thr Thr Ser Pro Arg Val
1 5

<210> 27191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E223Rfs*64; A6802

<400> 27191
Thr Val Ala Pro Arg Ser Leu Thr Cys
1               5


<210> 27192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E223Rfs*64; A1101

<400> 27192
Gly Thr Thr Ser Thr Ser Cys Leu Arg
1               5


<210> 27193
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E223Rfs*64; A6801

<400> 27193
Thr Pro Ser Arg Ala Thr Val Ala Pro Arg
1               5                   10


<210> 27194
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E57Kfs*7; C0802

<400> 27194
Met Gly Asp Leu Leu Gly Lys Ala Leu
1               5


<210> 27195

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E57Kfs*7; B0801

<400> 27195
Asp Leu Leu Gly Lys Ala Leu Thr Ala
1               5


<210> 27196
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E57Kfs*7; A3101

<400> 27196
Gly Asp Leu Leu Gly Lys Ala Leu Thr Ala Arg
1               5                   10


<210> 27197
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E57Kfs*7; A3101

<400> 27197
Leu Leu Gly Lys Ala Leu Thr Ala Arg
1               5


<210> 27198
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E57Kfs*7; A6801

<400> 27198
Asp Leu Leu Gly Lys Ala Leu Thr Ala Arg
1               5                   10


<210> 27199
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.E57Kfs*7; A0301

<400> 27199
Leu Leu Gly Lys Ala Leu Thr Ala Arg
1               5


<210> 27200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G196Afs*91; A1101

<400> 27200
Arg Thr Thr Pro Ala Gly Pro Ala Arg
1               5


<210> 27201
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G196Afs*91; B0702

<400> 27201
Thr Pro Ala Gly Pro Ala Arg Ala Pro
1               5


<210> 27202
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G196Afs*91; B0702

<400> 27202
Ser Pro Ser Thr Thr Ser Pro Arg Val
1               5


<210> 27203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G196Afs*91; A1101

<400> 27203
Gly Thr Thr Ser Thr Ser Cys Leu Arg
1               5


<210> 27204
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G196V; B1501

<400> 27204
Val Val Ala Glu Ala Leu His Pro Phe
1               5


<210> 27205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G242V; A2902

<400> 27205
Ile Trp Ser Ala Val Val Thr Leu Tyr
1               5


<210> 27206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G251C; A0201

<400> 27206
Thr Leu Tyr Asn Ile Thr Thr Cys Leu
1               5


<210> 27207
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G251V; A0201

<400> 27207
Thr Leu Tyr Asn Ile Thr Thr Val Leu
1               5


<210> 27208
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G276Afs*11; B0702

<400> 27208
Ile Pro Ala Thr Val Ala Pro Arg Ser Leu
1               5                   10


<210> 27209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G61D; C1203

<400> 27209
Gly Ser Tyr Asp Lys Val Lys Glu Val
1               5


<210> 27210
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G61D; B0801

<400> 27210
Tyr Asp Lys Val Lys Glu Val Leu
1               5


<210> 27211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.G61D; C0401

<400> 27211

Ser Tyr Asp Lys Val Lys Glu Val Leu
1 5

<210> 27212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.H154L; B3501

<400> 27212
Phe Pro Val Cys Gln Ala Leu Gly Tyr
1 5

<210> 27213
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.I161F; A0201

<400> 27213
Gln Leu Phe Asp Gly Leu Glu Tyr Leu
1 5

<210> 27214
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.N181Tfs*106; B5101

<400> 27214
Val Ala Pro Arg Ser Leu Thr Cys
1 5

<210> 27215
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.N181Tfs*106; A1101

<400> 27215
Arg Thr Thr Pro Ala Gly Pro Ala Arg
1 5

<210> 27216
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.N181Tfs*106; B0702

<400> 27216
Thr Pro Ala Gly Pro Ala Arg Ala Pro
1               5


<210> 27217
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.N181Tfs*106; B0702

<400> 27217
Ser Pro Ser Thr Thr Ser Pro Arg Val
1               5


<210> 27218
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.N181Tfs*106; A1101

<400> 27218
Gly Thr Thr Ser Thr Ser Cys Leu Arg
1               5


<210> 27219
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.P221L; B3501

<400> 27219
Leu Pro Glu Ile Ala Asn Gly Leu Asp Thr Phe
1               5                   10

<210> 27220
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.P221L; B5101

<400> 27220
Pro Ala Phe Gln Leu Pro Glu Ile
1               5


<210> 27221
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.P221L; B5101

<400> 27221
Ser Pro Ala Phe Gln Leu Pro Glu Ile
1               5


<210> 27222
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.S216F; B5101

<400> 27222
Phe Pro Ala Phe Gln Pro Pro Glu Ile
1               5


<210> 27223
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.S216F; B3503

<400> 27223
Phe Pro Ala Phe Gln Pro Pro Glu Ile
1               5


<210> 27224
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.S216F; B5501

<400> 27224
Phe Pro Ala Phe Gln Pro Pro Glu Ile
1               5


<210> 27225
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.S216F; B3502

<400> 27225
Phe Pro Ala Phe Gln Pro Pro Glu Ile
1               5


<210> 27226
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.S216F; B3501

<400> 27226
Phe Pro Ala Phe Gln Pro Pro Glu Ile
1               5


<210> 27227
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.W239C; A2601

<400> 27227
Asp Ile Cys Ser Ala Gly Val Thr Leu Tyr
1               5                   10


<210> 27228
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.W239S; A2601

<400> 27228
Asp Ile Ser Ser Ala Gly Val Thr Leu Tyr
1               5                   10


<210> 27229
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.W239S; B1501

<400> 27229
Ile Ser Ser Ala Gly Val Thr Leu Tyr
1               5


<210> 27230
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.W239S; A0201

<400> 27230
Lys Val Asp Ile Ser Ser Ala Gly Val
1               5


<210> 27231
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; STK11_p.W239S; B1501

<400> 27231
Ser Ser Ala Gly Val Thr Leu Tyr
1               5


<210> 27232
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TCF3_p.E77K; A1101

<400> 27232
Ser Ser Phe Asp Pro Ser Arg Thr Phe Ser Lys
1               5                   10


<210> 27233
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.E77K; A0301

<400> 27233
Ser Ser Phe Asp Pro Ser Arg Thr Phe Ser Lys
1               5                   10


<210> 27234
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.E77K; B5701

<400> 27234
Arg Thr Phe Ser Lys Gly Thr His Phe
1               5


<210> 27235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.T168M; A1101

<400> 27235
Gly Ser Leu Asp Met Gln Pro Lys Lys
1               5


<210> 27236
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.T168M; C0802

<400> 27236
Ala Ala Asp Gly Ser Leu Asp Met
1               5


<210> 27237
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.T168M; A1101

<400> 27237
Ala Ala Asp Gly Ser Leu Asp Met Gln Pro Lys
1               5                   10


<210> 27238
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.T168M; A0201

<400> 27238
Ser Leu Asp Met Gln Pro Lys Lys Val
1               5


<210> 27239
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.T168M; C0501

<400> 27239
Ala Ala Asp Gly Ser Leu Asp Met
1               5


<210> 27240
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TCF3_p.T168M; A3101

<400> 27240
Gly Ser Leu Asp Met Gln Pro Lys Lys Val Arg

1 5 10

<210> 27241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TERT_p.H752R; A6801

<400> 27241
Tyr Ala Val Val Gln Lys Ala Ala Arg
1 5

<210> 27242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TERT_p.H752R; A3303

<400> 27242
Tyr Ala Val Val Gln Lys Ala Ala Arg
1 5

<210> 27243
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TERT_p.H752R; A3101

<400> 27243
Arg Tyr Ala Val Val Gln Lys Ala Ala Arg
1 5 10

<210> 27244
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET1_p.P1818L; B4901

<400> 27244
Ser Glu Thr Glu Leu His Phe Ile
1 5

<210> 27245
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET1_p.P1818L; B4001

<400> 27245
Pro Glu Val Lys Ser Glu Thr Glu Leu
1               5


<210> 27246
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; A0201

<400> 27246
Phe Leu Asp Pro Asp Ile Gly Val Val Ala Val
1               5                   10


<210> 27247
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; A0201

<400> 27247
Phe Leu Asp Pro Asp Ile Gly Val Val
1               5


<210> 27248
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; B5101

<400> 27248
Asp Pro Asp Ile Gly Val Val Ala Val
1               5


<210> 27249

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; B3501

<400> 27249
Asp Pro Asp Ile Gly Val Val Ala Val
1               5


<210> 27250
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; A0201

<400> 27250
Phe Leu Asp Pro Asp Ile Gly Val Val Ala
1               5                   10


<210> 27251
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; A0201

<400> 27251
Phe Leu Asp Pro Asp Ile Gly Val
1               5


<210> 27252
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; A1101

<400> 27252
Pro Asp Ile Gly Val Val Ala Val
1               5


<210> 27253
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; C0501

<400> 27253
Phe Leu Asp Pro Asp Ile Gly Val Val
1               5


<210> 27254
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.G1861V; C0501

<400> 27254
Phe Leu Asp Pro Asp Ile Gly Val Val Ala Val
1               5                   10


<210> 27255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; B3501

<400> 27255
Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5


<210> 27256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; B1501

<400> 27256
Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5


<210> 27257
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; B1501

<400> 27257
Ser Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5                   10


<210> 27258
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; A2601

<400> 27258
Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5


<210> 27259
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; A2902

<400> 27259
Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5


<210> 27260
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; A2601

<400> 27260
Ser Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5                   10


<210> 27261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; A6801

<400> 27261
Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5


<210> 27262
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; A1101

<400> 27262
Gly Ser Tyr Leu Asn Tyr Ser Asn Pro Met
1               5                   10


<210> 27263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; A0101

<400> 27263
Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5


<210> 27264
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TET2_p.S1611Y; A0301

<400> 27264
Gln Ala Ala Gly Ser Tyr Leu Asn Tyr
1               5


<210> 27265
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TGFBR1_p.A202V; B5101

<400> 27265

Leu Pro Leu Leu Val Gln Arg Thr Ile Val
1 5 10

<210> 27266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TGFBR1_p.R487W; A0301

<400> 27266
Arg Leu Thr Ala Leu Trp Ile Lys Lys
1 5

<210> 27267
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TGFBR1_p.S241L; B5701

<400> 27267
Lys Ile Phe Ser Ser Arg Glu Glu Arg Leu Trp
1 5 10

<210> 27268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TGFBR1_p.S241L; B5701

<400> 27268
Phe Ser Ser Arg Glu Glu Arg Leu Trp
1 5

<210> 27269
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TGFBR1_p.S241L; B5701

<400> 27269
Ser Ser Arg Glu Glu Arg Leu Trp
1 5

<210> 27270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TNFAIP3_p.I248V; C0602

<400> 27270
Tyr Arg Tyr Pro Val Val Leu Gly Tyr
1               5


<210> 27271
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TNFAIP3_p.I248V; C0702

<400> 27271
Tyr Arg Tyr Pro Val Val Leu Gly Tyr
1               5


<210> 27272
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TNFAIP3_p.I248V; A2902

<400> 27272
Tyr Arg Tyr Pro Val Val Leu Gly Tyr
1               5


<210> 27273
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TNFAIP3_p.I248V; B2702

<400> 27273
Tyr Arg Tyr Pro Val Val Leu Gly Tyr
1               5

<210> 27274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A138P; B0702

<400> 27274
Leu Pro Lys Thr Cys Pro Val Gln Leu
1               5


<210> 27275
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A159P; A0301

<400> 27275
Arg Val Arg Pro Met Ala Ile Tyr Lys
1               5


<210> 27276
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A159P; A1101

<400> 27276
Arg Val Arg Pro Met Ala Ile Tyr Lys
1               5


<210> 27277
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A159P; A3101

<400> 27277
Arg Val Arg Pro Met Ala Ile Tyr Lys
1               5


<210> 27278
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A159V; A0301

<400> 27278
Arg Val Arg Val Met Ala Ile Tyr Lys
1               5


<210> 27279
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A159V; A6802

<400> 27279
Ser Thr Pro Pro Pro Gly Thr Arg Val Arg Val
1               5                   10


<210> 27280
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A161S; B1501

<400> 27280
Ser Ile Tyr Lys Gln Ser Gln His Met
1               5


<210> 27281
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A161S; A0301

<400> 27281
Arg Val Arg Ala Met Ser Ile Tyr Lys
1               5


<210> 27282
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A161S; A0301

<400> 27282
Ser Ile Tyr Lys Gln Ser Gln His
1               5


<210> 27283
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A161S; B1302

<400> 27283
Ser Ile Tyr Lys Gln Ser Gln His Met
1               5


<210> 27284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A161T; A0301

<400> 27284
Arg Val Arg Ala Met Thr Ile Tyr Lys
1               5


<210> 27285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A161T; B1501

<400> 27285
Thr Ile Tyr Lys Gln Ser Gln His Met
1               5


<210> 27286
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.A161T; B0801

<400> 27286
Thr Ile Tyr Lys Gln Ser Gln His Met
1               5


<210> 27287
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A276F; B3501

<400> 27287
Asn Ser Phe Glu Val Arg Val Cys Phe
1               5


<210> 27288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A276F; B1501

<400> 27288
Asn Ser Phe Glu Val Arg Val Cys Phe
1               5


<210> 27289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A276F; C1203

<400> 27289
Asn Ser Phe Glu Val Arg Val Cys Phe
1               5


<210> 27290
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A276F; C1601

<400> 27290
Asn Ser Phe Glu Val Arg Val Cys Phe
1               5


<210> 27291
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; B4001

<400> 27291
Arg Glu Leu Asn Glu Val Leu Glu Leu
1               5


<210> 27292
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; A3001

<400> 27292
Arg Glu Leu Asn Glu Val Leu Glu Leu
1               5


<210> 27293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; B4403

<400> 27293
Arg Glu Leu Asn Glu Val Leu Glu Leu
1               5


<210> 27294
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; A6801

<400> 27294
Glu Val Leu Glu Leu Lys Asp Ala Gln Ala

1 5 10

<210> 27295
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; B4901

<400> 27295
Arg Glu Leu Asn Glu Val Leu Glu Leu
1 5

<210> 27296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; A6801

<400> 27296
Glu Leu Asn Glu Val Leu Glu Leu Lys
1 5

<210> 27297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; B2702

<400> 27297
Glu Leu Asn Glu Val Leu Glu Leu Lys
1 5

<210> 27298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; A2301

<400> 27298
Arg Glu Leu Asn Glu Val Leu Glu Leu
1 5

<210> 27299
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A347V; A2601

<400> 27299
Glu Val Leu Glu Leu Lys Asp Ala Gln Ala
1               5                   10


<210> 27300
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A70V; A0201

<400> 27300
Ala Val Pro Pro Val Ala Pro Ala Pro Ala
1               5                   10


<210> 27301
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A70V; B3501

<400> 27301
Met Pro Glu Ala Val Pro Pro Val Ala
1               5


<210> 27302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A70V; A0201

<400> 27302
Arg Met Pro Glu Ala Val Pro Pro Val
1               5


<210> 27303

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0102

<400> 27303
Val Leu Pro Thr Gly Gln Asp Leu
1               5


<210> 27304
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B5101

<400> 27304
Ser Pro Leu Leu Ala Pro Val Ile
1               5


<210> 27305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B3501

<400> 27305
Ser Pro Leu Leu Ala Pro Val Ile Phe
1               5


<210> 27306
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B3501

<400> 27306
Leu Pro Cys Pro Gln Gln Asp Val Leu
1               5


<210> 27307
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0401

<400> 27307
Phe Trp Asp Ser Gln Val Cys Asp Leu
1               5


<210> 27308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; A2301

<400> 27308
Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5


<210> 27309
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B3501

<400> 27309
Phe Pro Glu Asn Leu Pro Gly Gln Leu Arg Phe
1               5                   10


<210> 27310
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; A0201

<400> 27310
Val Leu Pro Thr Gly Gln Asp Leu Pro Cys Ala
1               5                   10


<210> 27311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B1302

<400> 27311
Gly Gln Leu Arg Phe Pro Ser Gly Leu
1               5


<210> 27312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B3501

<400> 27312
Phe Pro Glu Asn Leu Pro Gly Gln Leu
1               5


<210> 27313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0401

<400> 27313
Phe Pro Glu Asn Leu Pro Gly Gln Leu
1               5


<210> 27314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; A2402

<400> 27314
Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5


<210> 27315
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0602

<400> 27315
Leu Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5                   10


<210> 27316
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0102

<400> 27316
Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5


<210> 27317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B3501

<400> 27317
Leu Pro Thr Gly Gln Asp Leu Pro Cys
1               5


<210> 27318
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B1302

<400> 27318
Gly Gln Asp Leu Pro Cys Ala Ala Val
1               5


<210> 27319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; A2301

<400> 27319

Arg Phe Pro Ser Gly Leu Leu Ala Phe Trp
1               5                   10


<210> 27320
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; A2402

<400> 27320
Arg Phe Pro Ser Gly Leu Leu Ala Phe Trp
1               5                   10


<210> 27321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B5101

<400> 27321
Thr Ser Pro Leu Leu Ala Pro Val Ile
1               5


<210> 27322
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0802

<400> 27322
Phe Trp Asp Ser Gln Val Cys Asp Leu
1               5


<210> 27323
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0802

<400> 27323
Phe Pro Glu Asn Leu Pro Gly Gln Leu
1               5

<210> 27324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B5101

<400> 27324
Leu Pro Cys Pro Gln Gln Asp Val Leu
1               5


<210> 27325
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; B0702

<400> 27325
Leu Pro Cys Pro Gln Gln Asp Val Leu
1               5


<210> 27326
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0702

<400> 27326
Leu Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5                   10


<210> 27327
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.A86Cfs*63; C0701

<400> 27327
Leu Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5                   10

<210> 27328
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135F; A2402

<400> 27328
Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe Phe
1               5                   10


<210> 27329
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135F; A2301

<400> 27329
Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe Phe
1               5                   10


<210> 27330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135F; B0702

<400> 27330
Ser Pro Ala Leu Asn Lys Met Phe Phe
1               5


<210> 27331
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135F; A0201

<400> 27331
Phe Gln Leu Ala Lys Thr Cys Pro Val
1               5


<210> 27332
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135F; B1302

<400> 27332
Phe Gln Leu Ala Lys Thr Cys Pro Val
1               5


<210> 27333
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135F; A0201

<400> 27333
Ala Leu Asn Lys Met Phe Phe Gln Leu
1               5


<210> 27334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135Y; B3501

<400> 27334
Ser Pro Ala Leu Asn Lys Met Phe Tyr
1               5


<210> 27335
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135Y; A2402

<400> 27335
Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe Tyr
1               5                   10


<210> 27336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135Y; A0201

<400> 27336
Tyr Gln Leu Ala Lys Thr Cys Pro Val
1               5


<210> 27337
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135Y; A2902

<400> 27337
Thr Tyr Ser Pro Ala Leu Asn Lys Met Phe Tyr
1               5                   10


<210> 27338
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135Y; B1302

<400> 27338
Tyr Gln Leu Ala Lys Thr Cys Pro Val
1               5


<210> 27339
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C135Y; A0201

<400> 27339
Ala Leu Asn Lys Met Phe Tyr Gln Leu
1               5


<210> 27340
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.C141W; B5701

<400> 27340
Lys Thr Trp Pro Val Gln Leu Trp
1               5


<210> 27341
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141W; B5701

<400> 27341
Leu Ala Lys Thr Trp Pro Val Gln Leu Trp
1               5                   10


<210> 27342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141W; C0202

<400> 27342
Leu Ala Lys Thr Trp Pro Val Gln Leu
1               5


<210> 27343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141W; C1203

<400> 27343
Leu Ala Lys Thr Trp Pro Val Gln Leu
1               5


<210> 27344
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; C1502

<400> 27344
Lys Thr Tyr Pro Val Gln Leu Trp Val
1               5


<210> 27345
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; B5701

<400> 27345
Lys Thr Tyr Pro Val Gln Leu Trp
1               5


<210> 27346
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; B5701

<400> 27346
Leu Ala Lys Thr Tyr Pro Val Gln Leu Trp
1               5                   10


<210> 27347
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.C141Y; B5801

<400> 27347
Lys Thr Tyr Pro Val Gln Leu Trp
1               5


<210> 27348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; A6802

<400> 27348
Lys Thr Tyr Pro Val Gln Leu Trp Val

1 5

<210> 27349
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; B1501

<400> 27349
Phe Cys Gln Leu Ala Lys Thr Tyr
1 5

<210> 27350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; C1701

<400> 27350
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1 5

<210> 27351
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; B0801

<400> 27351
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1 5

<210> 27352
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; C0202

<400> 27352
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1 5

<210> 27353
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; C1203

<400> 27353
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 27354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; C1601

<400> 27354
Leu Ala Lys Thr Tyr Pro Val Gln Leu
1               5


<210> 27355
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; C1203

<400> 27355
Lys Thr Tyr Pro Val Gln Leu Trp Val
1               5


<210> 27356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C141Y; B1302

<400> 27356
Cys Gln Leu Ala Lys Thr Tyr Pro Val
1               5


<210> 27357

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176F; B5701

<400> 27357
His Met Thr Glu Val Val Arg Arg Phe
1               5


<210> 27358
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176F; B5701

<400> 27358
Met Thr Glu Val Val Arg Arg Phe
1               5


<210> 27359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176F; A0301

<400> 27359
His Met Thr Glu Val Val Arg Arg Phe
1               5


<210> 27360
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176S; A3303

<400> 27360
Glu Val Val Arg Arg Ser Pro His His Glu Arg
1               5                   10


<210> 27361
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176Y; A2902

<400> 27361
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 27362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176Y; C1601

<400> 27362
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 27363
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176Y; B3501

<400> 27363
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 27364
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176Y; B4403

<400> 27364
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 27365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C176Y; B5701

<400> 27365
His Met Thr Glu Val Val Arg Arg Tyr
1               5


<210> 27366
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238F; C1402

<400> 27366
Asn Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 27367
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238F; B5701

<400> 27367
Thr Thr Ile His Tyr Asn Tyr Met Phe
1               5


<210> 27368
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238F; A2402

<400> 27368
Asn Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 27369
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238F; B1501

<400> 27369
Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 27370
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238F; C1402

<400> 27370
Tyr Met Phe Asn Ser Ser Cys Met
1               5


<210> 27371
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238R; A6801

<400> 27371
Thr Thr Ile His Tyr Asn Tyr Met Arg
1               5


<210> 27372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238R; B0801

<400> 27372
Tyr Asn Tyr Met Arg Asn Ser Ser Cys
1               5


<210> 27373
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238S; A2402

<400> 27373

Asn Tyr Met Ser Asn Ser Ser Cys Met
1 5

<210> 27374
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238S; B1501

<400> 27374
Tyr Met Ser Asn Ser Ser Cys Met
1 5

<210> 27375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238W; B5701

<400> 27375
Thr Thr Ile His Tyr Asn Tyr Met Trp
1 5

<210> 27376
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238Y; B1502

<400> 27376
Tyr Met Tyr Asn Ser Ser Cys Met
1 5

<210> 27377
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238Y; A2902

<400> 27377
Thr Thr Ile His Tyr Asn Tyr Met Tyr
1 5

<210> 27378
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238Y; C1402

<400> 27378
Asn Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 27379
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238Y; A2901

<400> 27379
Thr Thr Ile His Tyr Asn Tyr Met Tyr
1               5


<210> 27380
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238Y; C0801

<400> 27380
Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 27381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238Y; B5701

<400> 27381
Thr Thr Ile His Tyr Asn Tyr Met Tyr
1               5

<210> 27382
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C238Y; B1501

<400> 27382
Tyr Met Tyr Asn Ser Ser Cys Met
1               5


<210> 27383
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Afs*5; B3906

<400> 27383
Met Cys Asn Ser Ser Ala Trp Ala Ala
1               5


<210> 27384
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A6801

<400> 27384
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27385
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3101

<400> 27385
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27386
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3303

<400> 27386
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27387
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A6801

<400> 27387
Asn Ser Ser Phe Met Gly Gly Met Asn Arg
1               5                   10


<210> 27388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A1101

<400> 27388
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27389
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3303

<400> 27389
Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27390
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; C1402

<400> 27390
Asn Tyr Met Cys Asn Ser Ser Phe
1               5


<210> 27391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3301

<400> 27391
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27392
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3101

<400> 27392
Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27393
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3303

<400> 27393
Asn Ser Ser Phe Met Gly Gly Met Asn Arg
1               5                   10


<210> 27394
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.C242F; A1101

<400> 27394
Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3101

<400> 27395
Ser Phe Met Gly Gly Met Asn Arg Arg
1               5


<210> 27396
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3303

<400> 27396
Ser Phe Met Gly Gly Met Asn Arg Arg
1               5


<210> 27397
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A3301

<400> 27397
Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27398
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A6801

<400> 27398
Ser Ser Phe Met Gly Gly Met Asn Arg Arg
1               5                   10


<210> 27399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242F; A0301

<400> 27399
Ser Ser Phe Met Gly Gly Met Asn Arg
1               5


<210> 27400
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242W; A3101

<400> 27400
Ser Ser Trp Met Gly Gly Met Asn Arg
1               5


<210> 27401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242W; A6801

<400> 27401
Ser Ser Trp Met Gly Gly Met Asn Arg
1               5


<210> 27402
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A1101

<400> 27402
Ser Ser Tyr Met Gly Gly Met Asn Arg

1 5

<210> 27403
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A3101

<400> 27403
Ser Ser Tyr Met Gly Gly Met Asn Arg
1 5

<210> 27404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A6801

<400> 27404
Ser Ser Tyr Met Gly Gly Met Asn Arg
1 5

<210> 27405
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A6801

<400> 27405
Asn Ser Ser Tyr Met Gly Gly Met Asn Arg
1 5 10

<210> 27406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A0301

<400> 27406
Ser Ser Tyr Met Gly Gly Met Asn Arg
1 5

<210> 27407
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A3101

<400> 27407
Ser Tyr Met Gly Gly Met Asn Arg
1               5


<210> 27408
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A3101

<400> 27408
Ser Tyr Met Gly Gly Met Asn Arg Arg
1               5


<210> 27409
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A1101

<400> 27409
Ser Tyr Met Gly Gly Met Asn Arg
1               5


<210> 27410
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A1101

<400> 27410
Ser Ser Tyr Met Gly Gly Met Asn Arg Arg
1               5                   10


<210> 27411

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A6801

<400> 27411
Ser Ser Tyr Met Gly Gly Met Asn Arg Arg
1               5                   10


<210> 27412
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; A3101

<400> 27412
Ser Ser Tyr Met Gly Gly Met Asn Arg Arg
1               5                   10


<210> 27413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C242Y; B2705

<400> 27413
Ser Ser Tyr Met Gly Gly Met Asn Arg
1               5


<210> 27414
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; B2705

<400> 27414
Gly Arg Asn Ser Phe Glu Val Arg Val Phe
1               5                   10


<210> 27415
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; C0701

<400> 27415
Arg Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27416
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; C1203

<400> 27416
Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27417
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; B1501

<400> 27417
Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27418
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; B5701

<400> 27418
Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27419
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; C1601

<400> 27419
Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27420
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; B5701

<400> 27420
Arg Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27421
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; B1801

<400> 27421
Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27422
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; C0701

<400> 27422
Gly Arg Asn Ser Phe Glu Val Arg Val Phe
1               5                   10


<210> 27423
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; C1601

<400> 27423
Arg Asn Ser Phe Glu Val Arg Val Phe
1               5


<210> 27424
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275F; C0602

<400> 27424
Gly Arg Asn Ser Phe Glu Val Arg Val Phe
1               5                   10


<210> 27425
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Lfs*31; B0702

<400> 27425
Ser Pro Arg Ala Ala Pro Arg Glu His
1               5


<210> 27426
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Lfs*31; B0702

<400> 27426
Ser Pro Gln Glu Arg Gly Ala Ser Pro
1               5


<210> 27427
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Lfs*31; A3101

<400> 27427

Arg Gly Arg Glu Ser Pro Gln Glu Arg
1               5


<210> 27428
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Lfs*31; A3101

<400> 27428
Leu Ser Trp Glu Arg Pro Ala His Arg
1               5


<210> 27429
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Lfs*31; A6801

<400> 27429
Glu Ser Pro Gln Glu Arg Gly Ala Ser Pro Arg
1               5                   10


<210> 27430
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275W; B5701

<400> 27430
Asn Ser Phe Glu Val Arg Val Trp
1               5


<210> 27431
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275W; B5701

<400> 27431
Arg Asn Ser Phe Glu Val Arg Val Trp
1               5

<210> 27432
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275W; C1203

<400> 27432
Asn Ser Phe Glu Val Arg Val Trp
1               5


<210> 27433
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B1501

<400> 27433
Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27434
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; C1203

<400> 27434
Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27435
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B1801

<400> 27435
Asn Ser Phe Glu Val Arg Val Tyr
1               5

<210> 27436
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B2705

<400> 27436
Gly Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5                   10


<210> 27437
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; C1601

<400> 27437
Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27438
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; C1601

<400> 27438
Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27439
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; A6802

<400> 27439
Asn Ser Phe Glu Val Arg Val Tyr Ala
1               5


<210> 27440
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B2702

<400> 27440
Gly Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5                   10


<210> 27441
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; C0701

<400> 27441
Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27442
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B3501

<400> 27442
Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27443
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B5701

<400> 27443
Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27444
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B5801

<400> 27444
Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B5701

<400> 27445
Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27446
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; C0701

<400> 27446
Gly Arg Asn Ser Phe Glu Val Arg Val Tyr
1               5                   10


<210> 27447
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C275Y; B0801

<400> 27447
Asn Ser Phe Glu Val Arg Val Tyr
1               5


<210> 27448
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.C277F; B1801

<400> 27448
Phe Glu Val Arg Val Cys Ala Phe
1               5


<210> 27449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.C277F; C1402

<400> 27449
Ser Phe Glu Val Arg Val Cys Ala Phe
1               5


<210> 27450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; A2402

<400> 27450
Glu Tyr Leu Asp Val Arg Asn Thr Phe
1               5


<210> 27451
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; B4403

<400> 27451
Val Glu Tyr Leu Asp Val Arg Asn Thr Phe
1               5                   10


<210> 27452
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; B1801

<400> 27452
Val Glu Tyr Leu Asp Val Arg Asn Thr Phe
1               5                   10


<210> 27453
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; C0501

<400> 27453
Tyr Leu Asp Val Arg Asn Thr Phe
1               5


<210> 27454
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; B4402

<400> 27454
Val Glu Tyr Leu Asp Val Arg Asn Thr Phe
1               5                   10


<210> 27455
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.D208V; C0401

<400> 27455
Tyr Leu Asp Val Arg Asn Thr Phe
1               5


<210> 27456
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; B4001

<400> 27456
Val Glu Tyr Leu Asp Val Arg Asn Thr Phe

1 5 10

<210> 27457
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; B0801

<400> 27457
Tyr Leu Asp Val Arg Asn Thr Phe
1 5

<210> 27458
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; B0702

<400> 27458
Val Glu Tyr Leu Asp Val Arg Asn Thr Phe
1 5 10

<210> 27459
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; B1501

<400> 27459
Val Glu Tyr Leu Asp Val Arg Asn Thr Phe
1 5 10

<210> 27460
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D208V; A0101

<400> 27460
Tyr Leu Asp Val Arg Asn Thr Phe
1 5

<210> 27461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A2902

<400> 27461
Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27462
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A6801

<400> 27462
Glu Tyr Ser Ser Gly Asn Leu Leu Gly Arg
1               5                   10


<210> 27463
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A6801

<400> 27463
Tyr Ser Ser Gly Asn Leu Leu Gly Arg
1               5


<210> 27464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B1501

<400> 27464
Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27465

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B4001

<400> 27465
Leu Glu Tyr Ser Ser Gly Asn Leu Leu
1               5


<210> 27466
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A0101

<400> 27466
Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A0301

<400> 27467
Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A3101

<400> 27468
Tyr Ser Ser Gly Asn Leu Leu Gly Arg
1               5


<210> 27469
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B3501

<400> 27469
Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27470
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A3101

<400> 27470
Glu Tyr Ser Ser Gly Asn Leu Leu Gly Arg
1               5                   10


<210> 27471
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B3801

<400> 27471
Thr Leu Glu Tyr Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27472
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A0101

<400> 27472
Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A1101

<400> 27473
Tyr Ser Ser Gly Asn Leu Leu Gly Arg
1               5


<210> 27474
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B1501

<400> 27474
Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27475
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A2301

<400> 27475
Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5


<210> 27476
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; A2902

<400> 27476
Pro Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5                   10


<210> 27477
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B3501

<400> 27477
Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Tyr
1               5                   10


<210> 27478
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B3801

<400> 27478
Leu Glu Tyr Ser Ser Gly Asn Leu Leu
1               5


<210> 27479
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.D259Y; B5101

<400> 27479
Leu Glu Tyr Ser Ser Gly Asn Leu Leu
1               5


<210> 27480
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; B5101

<400> 27480
Val Pro Tyr Glu Pro Pro Asp Val
1               5


<210> 27481
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; B5501

<400> 27481

Val Pro Tyr Glu Pro Pro Asp Val
1               5


<210> 27482
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; B5502

<400> 27482
Val Pro Tyr Glu Pro Pro Asp Val
1               5


<210> 27483
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; A0206

<400> 27483
Val Val Val Pro Tyr Glu Pro Pro Asp Val
1               5                   10


<210> 27484
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.E224D; B5502

<400> 27484
Val Pro Tyr Glu Pro Pro Asp Val Gly
1               5


<210> 27485
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; A6802

<400> 27485
Val Val Val Pro Tyr Glu Pro Pro Asp Val
1               5                   10

<210> 27486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; A0207

<400> 27486
Val Val Pro Tyr Glu Pro Pro Asp Val
1               5


<210> 27487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; B5101

<400> 27487
Val Pro Tyr Glu Pro Pro Asp Val Gly
1               5


<210> 27488
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; B3906

<400> 27488
Val Pro Tyr Glu Pro Pro Asp Val
1               5


<210> 27489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; B5502

<400> 27489
Val Pro Tyr Glu Pro Pro Asp Val Gly Ser
1               5                   10

<210> 27490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; A0206

<400> 27490
Val Val Pro Tyr Glu Pro Pro Asp Val
1               5


<210> 27491
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; A0201

<400> 27491
Val Val Val Pro Tyr Glu Pro Pro Asp Val
1               5                   10


<210> 27492
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E224D; A0203

<400> 27492
Val Val Val Pro Tyr Glu Pro Pro Asp Val
1               5                   10


<210> 27493
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; C0802

<400> 27493
Thr Leu Asp Asp Ser Ser Gly Asn Leu
1               5


<210> 27494
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; C0802

<400> 27494
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27495
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; A6801

<400> 27495
Asp Asp Ser Ser Gly Asn Leu Leu Gly Arg
1               5                   10


<210> 27496
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B3801

<400> 27496
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27497
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; A3301

<400> 27497
Asp Asp Ser Ser Gly Asn Leu Leu Gly Arg
1               5                   10


<210> 27498
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B3901

<400> 27498
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27499
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; C0501

<400> 27499
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; C0501

<400> 27500
Thr Leu Asp Asp Ser Ser Gly Asn Leu
1               5


<210> 27501
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B3901

<400> 27501
Asp Asp Ser Ser Gly Asn Leu Leu
1               5


<210> 27502
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.E258D; A0201

<400> 27502
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27503
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B1501

<400> 27503
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27504
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; A3303

<400> 27504
Asp Asp Ser Ser Gly Asn Leu Leu Gly Arg
1               5                   10


<210> 27505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B3801

<400> 27505
Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5


<210> 27506
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B5801

<400> 27506
Ile Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27507
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; A0205

<400> 27507
Ile Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27508
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B2702

<400> 27508
Leu Asp Asp Ser Ser Gly Asn Leu Leu Gly Arg
1               5                   10


<210> 27509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B3801

<400> 27509
Thr Leu Asp Asp Ser Ser Gly Asn Leu
1               5


<210> 27510
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B5001

<400> 27510
Ile Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu

1 5 10

<210> 27511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B3901

<400> 27511
Thr Leu Asp Asp Ser Ser Gly Asn Leu
1 5

<210> 27512
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; A0205

<400> 27512
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1 5 10

<210> 27513
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B4001

<400> 27513
Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1 5 10

<210> 27514
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B2702

<400> 27514
Asp Asp Ser Ser Gly Asn Leu Leu Gly Arg
1 5 10

<210> 27515
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; B3801

<400> 27515
Ile Thr Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; A0201

<400> 27516
Thr Leu Asp Asp Ser Ser Gly Asn Leu
1               5


<210> 27517
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258D; C0802

<400> 27517
Leu Asp Asp Ser Ser Gly Asn Leu Leu
1               5


<210> 27518
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; B3701

<400> 27518
Lys Asp Ser Ser Gly Asn Leu Leu
1               5


<210> 27519

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; A3001

<400> 27519
Thr Leu Lys Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27520
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; B1501

<400> 27520
Thr Leu Lys Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27521
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; B0801

<400> 27521
Thr Leu Lys Asp Ser Ser Gly Asn Leu
1               5


<210> 27522
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; B1501

<400> 27522
Thr Leu Lys Asp Ser Ser Gly Asn Leu
1               5


<210> 27523
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; B5001

<400> 27523
Thr Leu Lys Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27524
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; B4002

<400> 27524
Lys Asp Ser Ser Gly Asn Leu Leu
1               5


<210> 27525
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E258K; B5801

<400> 27525
Ile Thr Leu Lys Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 27526
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271K; B2705

<400> 27526
Gly Arg Asn Ser Phe Lys Val Arg Val
1               5


<210> 27527
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271K; C0602

<400> 27527
Gly Arg Asn Ser Phe Lys Val Arg Val
1               5


<210> 27528
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271Q; C0602

<400> 27528
Gly Arg Asn Ser Phe Gln Val Arg Val
1               5


<210> 27529
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; B2705

<400> 27529
Gly Arg Asn Ser Phe Val Val Arg Val
1               5


<210> 27530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; C0602

<400> 27530
Gly Arg Asn Ser Phe Val Val Arg Val
1               5


<210> 27531
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; A3301

<400> 27531
Asn Leu Leu Gly Arg Asn Ser Phe Val Val Arg
1               5                   10


<210> 27532
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; B2705

<400> 27532
Gly Arg Asn Ser Phe Val Val Arg
1               5


<210> 27533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; A3101

<400> 27533
Leu Gly Arg Asn Ser Phe Val Val Arg
1               5


<210> 27534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; A3303

<400> 27534
Leu Gly Arg Asn Ser Phe Val Val Arg
1               5


<210> 27535
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; C1502

<400> 27535

Arg Asn Ser Phe Val Val Arg Val
1               5


<210> 27536
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E271V; A3101

<400> 27536
Asn Leu Leu Gly Arg Asn Ser Phe Val Val Arg
1               5                   10


<210> 27537
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285K; A0301

<400> 27537
Arg Thr Lys Glu Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 27538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285K; A0301

<400> 27538
Arg Thr Lys Glu Glu Asn Leu Arg Lys
1               5


<210> 27539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285K; A1101

<400> 27539
Arg Thr Lys Glu Glu Asn Leu Arg Lys
1               5

<210> 27540
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285V; A1101

<400> 27540
Arg Thr Val Glu Glu Asn Leu Arg Lys
1               5


<210> 27541
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285V; A0301

<400> 27541
Thr Val Glu Glu Asn Leu Arg Lys Lys
1               5


<210> 27542
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285V; A0301

<400> 27542
Arg Thr Val Glu Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 27543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285V; A1101

<400> 27543
Thr Val Glu Glu Asn Leu Arg Lys Lys
1               5

<210> 27544
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285V; A0301

<400> 27544
Arg Thr Val Glu Glu Asn Leu Arg Lys
1               5


<210> 27545
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E285V; A1101

<400> 27545
Arg Thr Val Glu Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 27546
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E286K; A0301

<400> 27546
Arg Thr Glu Lys Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 27547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E286K; B2705

<400> 27547
Arg Arg Thr Glu Lys Glu Asn Leu Arg
1               5


<210> 27548
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E286V; A0301

<400> 27548
Arg Thr Glu Val Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 27549
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E286V; A1101

<400> 27549
Arg Thr Glu Val Glu Asn Leu Arg Lys Lys
1               5                   10


<210> 27550
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E286V; A1101

<400> 27550
Arg Thr Glu Val Glu Asn Leu Arg Lys
1               5


<210> 27551
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E286V; A0301

<400> 27551
Arg Thr Glu Val Glu Asn Leu Arg Lys
1               5


<210> 27552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; A6801

<400> 27552
Thr Pro Ala Pro Leu Pro Ser Gln Arg
1               5


<210> 27553
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; A6801

<400> 27553
Thr Thr Pro Ala Pro Leu Pro Ser Gln Arg
1               5                   10


<210> 27554
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; B0702

<400> 27554
Ser Pro Phe Arg Ser Val Gly Val Ser Ala
1               5                   10


<210> 27555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; C0102

<400> 27555
Ile Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27556
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.E294Sfs*51; B5101

<400> 27556
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27557
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; B0702

<400> 27557
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; A6801

<400> 27558
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 27559
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; B5701

<400> 27559
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 27560
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; B0801

<400> 27560
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27561
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; A1101

<400> 27561
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 27562
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; A0301

<400> 27562
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 27563
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E294Sfs*51; A6801

<400> 27563
Thr Pro Ala Pro Leu Pro Ser Gln Arg Arg
1               5                   10


<210> 27564
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; C0303

<400> 27564
Ser Cys Ile Leu Gly Gln Pro Ser Leu

1 5

<210> 27565
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; C0304

<400> 27565
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1 5

<210> 27566
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B1501

<400> 27566
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1 5

<210> 27567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B0702

<400> 27567
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1 5

<210> 27568
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B0702

<400> 27568
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1 5

<210> 27569
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; C1203

<400> 27569
Phe Thr Lys Thr Gln Val Gln Met
1               5


<210> 27570
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B0801

<400> 27570
Phe Thr Lys Thr Gln Val Gln Met
1               5


<210> 27571
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; A1101

<400> 27571
Ala Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5                   10


<210> 27572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; A0201

<400> 27572
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 27573

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; C1601

<400> 27573
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 27574
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B0801

<400> 27574
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 27575
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; C1601

<400> 27575
Phe Thr Lys Thr Gln Val Gln Met
1               5


<210> 27576
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B0702

<400> 27576
Leu Pro Arg Lys Pro Thr Arg Ala Ala Thr Val
1               5                   10


<210> 27577
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B1501

<400> 27577
Phe Thr Lys Thr Gln Val Gln Met
1               5


<210> 27578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B4001

<400> 27578
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 27579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.E56Kfs*67; B3501

<400> 27579
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 27580
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; A1101

<400> 27580
Gly Val Leu His Ser Gly Thr Ala Lys
1               5


<210> 27581
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; A0301

<400> 27581
Gly Val Leu His Ser Gly Thr Ala Lys
1               5


<210> 27582
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; A0301

<400> 27582
Val Leu His Ser Gly Thr Ala Lys
1               5


<210> 27583
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; C1502

<400> 27583
Gly Ser Tyr Gly Phe Arg Leu Gly Val
1               5


<210> 27584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; B1302

<400> 27584
Gly Ser Tyr Gly Phe Arg Leu Gly Val
1               5


<210> 27585
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; C1402

<400> 27585
Ser Tyr Gly Phe Arg Leu Gly Val Leu
1               5


<210> 27586
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; A1101

<400> 27586
Val Leu His Ser Gly Thr Ala Lys
1               5


<210> 27587
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F113V; A0301

<400> 27587
Arg Leu Gly Val Leu His Ser Gly Thr Ala Lys
1               5                   10


<210> 27588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134C; B0702

<400> 27588
Ser Pro Ala Leu Asn Lys Met Cys Cys
1               5


<210> 27589
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134L; B0702

<400> 27589

Ser Pro Ala Leu Asn Lys Met Leu
1               5


<210> 27590
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134L; A2301

<400> 27590
Thr Tyr Ser Pro Ala Leu Asn Lys Met Leu
1               5                   10


<210> 27591
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134L; A2402

<400> 27591
Thr Tyr Ser Pro Ala Leu Asn Lys Met Leu
1               5                   10


<210> 27592
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134L; C0102

<400> 27592
Tyr Ser Pro Ala Leu Asn Lys Met Leu
1               5


<210> 27593
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134L; B0801

<400> 27593
Ser Pro Ala Leu Asn Lys Met Leu
1               5

<210> 27594
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134L; B0702

<400> 27594
Ser Pro Ala Leu Asn Lys Met Leu Cys Gln Leu
1               5                   10


<210> 27595
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F134L; B0702

<400> 27595
Ser Pro Ala Leu Asn Lys Met Leu Cys
1               5


<210> 27596
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F212Sfs*3; A0201

<400> 27596
Tyr Leu Asp Asp Arg Asn Thr Ser Thr
1               5


<210> 27597
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F212Sfs*3; C0802

<400> 27597
Tyr Leu Asp Asp Arg Asn Thr Ser Thr
1               5

<210> 27598
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F212Sfs*3; C0501

<400> 27598
Tyr Leu Asp Asp Arg Asn Thr Ser Thr
1               5


<210> 27599
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F212Sfs*3; B0801

<400> 27599
Tyr Leu Asp Asp Arg Asn Thr Ser Thr
1               5


<210> 27600
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F212Sfs*3; A0101

<400> 27600
Tyr Leu Asp Asp Arg Asn Thr Ser Thr
1               5


<210> 27601
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F270L; B2705

<400> 27601
Gly Arg Asn Ser Leu Glu Val Arg Val
1               5


<210> 27602
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F270L; C0602

<400> 27602
Gly Arg Asn Ser Leu Glu Val Arg Val
1               5


<210> 27603
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F270L; B0801

<400> 27603
Asn Leu Leu Gly Arg Asn Ser Leu
1               5


<210> 27604
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F270L; B0702

<400> 27604
Ser Gly Asn Leu Leu Gly Arg Asn Ser Leu
1               5                   10


<210> 27605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F270V; C0602

<400> 27605
Gly Arg Asn Ser Val Glu Val Arg Val
1               5


<210> 27606
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F270V; A0201

<400> 27606
Gly Asn Leu Leu Gly Arg Asn Ser Val Glu Val
1               5                   10


<210> 27607
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F270V; C1203

<400> 27607
Asn Ser Val Glu Val Arg Val Cys
1               5


<210> 27608
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B0702

<400> 27608
Ser Pro Phe Arg Ser Val Gly Val Ser Ala
1               5                   10


<210> 27609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; C0102

<400> 27609
Tyr Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27610
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.F328Sfs*17; B4403

<400> 27610
Gly Glu Tyr Ser Pro Phe Arg Ser Val
1               5


<210> 27611
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B5101

<400> 27611
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27612
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B0702

<400> 27612
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27613
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B4001

<400> 27613
Gly Glu Tyr Ser Pro Phe Arg Ser Val
1               5


<210> 27614
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B0801

<400> 27614
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 27615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; A1101

<400> 27615
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 27616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; A0301

<400> 27616
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 27617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B0702

<400> 27617
Gly Glu Tyr Ser Pro Phe Arg Ser Val
1               5


<210> 27618
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B3501

<400> 27618
Lys Pro Leu Asp Gly Glu Tyr Ser Pro Phe

1 5 10

<210> 27619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B1801

<400> 27619
Gly Glu Tyr Ser Pro Phe Arg Ser Val
1 5

<210> 27620
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.F328Sfs*17; B0702

<400> 27620
Lys Pro Leu Asp Gly Glu Tyr Ser Pro Phe
1 5 10

<210> 27621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105C; B1501

<400> 27621
Ser Gln Lys Thr Tyr Gln Cys Ser Tyr
1 5

<210> 27622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105C; B0801

<400> 27622
Val Pro Ser Gln Lys Thr Tyr Gln Cys
1 5

<210> 27623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105C; A2902

<400> 27623
Cys Ser Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 27624
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105C; B0702

<400> 27624
Val Pro Ser Gln Lys Thr Tyr Gln Cys
1               5


<210> 27625
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105C; B5701

<400> 27625
Cys Ser Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 27626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105C; B5701

<400> 27626
Lys Thr Tyr Gln Cys Ser Tyr Gly Phe
1               5


<210> 27627

<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105D; B1501

<400> 27627
Ser Gln Lys Thr Tyr Gln Asp Ser Tyr
1               5


<210> 27628
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105D; B3501

<400> 27628
Val Pro Ser Gln Lys Thr Tyr Gln Asp Ser Tyr
1               5                   10


<210> 27629
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105D; A0301

<400> 27629
Lys Thr Tyr Gln Asp Ser Tyr Gly Phe Arg Leu
1               5                   10


<210> 27630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105D; A2402

<400> 27630
Thr Tyr Gln Asp Ser Tyr Gly Phe Arg Leu
1               5                   10


<210> 27631
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<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105D; A2402

<400> 27631
Thr Tyr Gln Asp Ser Tyr Gly Phe
1               5


<210> 27632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105D; C0501

<400> 27632
Tyr Gln Asp Ser Tyr Gly Phe Arg Leu
1               5


<210> 27633
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105D; B1501

<400> 27633
Lys Thr Tyr Gln Asp Ser Tyr Gly Phe
1               5


<210> 27634
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105D; A0301

<400> 27634
Lys Thr Tyr Gln Asp Ser Tyr Gly Phe Arg
1               5                   10


<210> 27635
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; B1501

<400> 27635
Ser Gln Lys Thr Tyr Gln Ser Ser Tyr
1               5


<210> 27636
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A3002

<400> 27636
Ser Gln Lys Thr Tyr Gln Ser Ser Tyr
1               5


<210> 27637
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; B5701

<400> 27637
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27638
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105S; B5801

<400> 27638
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27639
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A2301

<400> 27639
Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27640
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A3201

<400> 27640
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27641
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; B0702

<400> 27641
Val Pro Ser Gln Lys Thr Tyr Gln Ser Ser Tyr
1               5                   10


<210> 27642
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A0301

<400> 27642
Ser Ser Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 27643
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A2402

<400> 27643

Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105S; A2902

<400> 27644
Ser Ser Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 27645
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<220>
<223> AACR GENIE Results; TP53_p.G105S; B3501

<400> 27645
Val Pro Ser Gln Lys Thr Tyr Gln Ser Ser Tyr
1               5                   10


<210> 27646
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A3303

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Thr Tyr Gln Ser Ser Tyr Gly Phe Arg
1               5


<210> 27647
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<220>
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<400> 27647
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe Arg Leu
1               5                   10

<210> 27648
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<220>
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<400> 27648
Thr Tyr Gln Ser Ser Tyr Gly Phe Arg Leu
1               5                   10


<210> 27649
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; B5701

<400> 27649
Ser Ser Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 27650
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; C1402

<400> 27650
Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105S; A1101

<400> 27651
Ser Ser Tyr Gly Phe Arg Leu Gly Phe
1               5

<210> 27652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105S; C0202

<400> 27652
Ser Gln Lys Thr Tyr Gln Ser Ser Tyr
1               5


<210> 27653
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; B1501

<400> 27653
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27654
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105S; A2402

<400> 27654
Thr Tyr Gln Ser Ser Tyr Gly Phe Arg Leu
1               5                   10


<210> 27655
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A3201

<400> 27655
Ser Gln Lys Thr Tyr Gln Ser Ser Tyr
1               5


<210> 27656
<211> 9

<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A2601

<400> 27656
Ser Gln Lys Thr Tyr Gln Ser Ser Tyr
1               5


<210> 27657
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A3101

<400> 27657
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe Arg
1               5                   10


<210> 27658
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A3101

<400> 27658
Thr Tyr Gln Ser Ser Tyr Gly Phe Arg
1               5


<210> 27659
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; B3901

<400> 27659
Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27660
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A0301

<400> 27660
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe Arg
1               5                   10


<210> 27661
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; C1601

<400> 27661
Ser Ser Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 27662
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105S; A3002

<400> 27662
Lys Thr Tyr Gln Ser Ser Tyr Gly Phe
1               5


<210> 27663
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; B1501

<400> 27663
Ser Gln Lys Thr Tyr Gln Val Ser Tyr
1               5


<210> 27664
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.G105V; B0801

<400> 27664
Val Pro Ser Gln Lys Thr Tyr Gln Val
1               5


<210> 27665
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; B0702

<400> 27665
Val Pro Ser Gln Lys Thr Tyr Gln Val
1               5


<210> 27666
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; B3501

<400> 27666
Val Pro Ser Gln Lys Thr Tyr Gln Val Ser Tyr
1               5                   10


<210> 27667
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; B5101

<400> 27667
Val Pro Ser Gln Lys Thr Tyr Gln Val
1               5


<210> 27668
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; A2402

<400> 27668
Thr Tyr Gln Val Ser Tyr Gly Phe
1               5


<210> 27669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; A3201

<400> 27669
Ser Gln Lys Thr Tyr Gln Val Ser Tyr
1               5


<210> 27670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; C0202

<400> 27670
Ser Gln Lys Thr Tyr Gln Val Ser Tyr
1               5


<210> 27671
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; B0702

<400> 27671
Val Pro Ser Gln Lys Thr Tyr Gln Val Ser Tyr
1               5                   10


<210> 27672
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; A0301

<400> 27672
Lys Thr Tyr Gln Val Ser Tyr Gly Phe Arg Leu

1 5 10

<210> 27673
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; A3201

<400> 27673
Lys Thr Tyr Gln Val Ser Tyr Gly Phe
1 5

<210> 27674
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G105V; B0801

<400> 27674
Ser Gln Lys Thr Tyr Gln Val Ser Tyr
1 5

<210> 27675
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; C1203

<400> 27675
Ser Gln Lys Thr Tyr Gln Val Ser Tyr
1 5

<210> 27676
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; A0301

<400> 27676
Lys Thr Tyr Gln Val Ser Tyr Gly Phe Arg
1 5 10

<210> 27677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G105V; C1601

<400> 27677
Val Ser Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 27678
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; B5701

<400> 27678
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27679
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A3201

<400> 27679
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27680
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A3303

<400> 27680
Thr Tyr Gln Gly Ser Tyr Ser Phe Arg
1               5


<210> 27681

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A0301

<400> 27681
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe Arg
1               5                   10


<210> 27682
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A3101

<400> 27682
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe Arg
1               5                   10


<210> 27683
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A2301

<400> 27683
Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A3101

<400> 27684
Thr Tyr Gln Gly Ser Tyr Ser Phe Arg
1               5


<210> 27685
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; B1501

<400> 27685
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27686
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; C1402

<400> 27686
Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27687
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A2402

<400> 27687
Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A0301

<400> 27688
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27689
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A0301

<400> 27689
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe Arg Leu
1               5                   10


<210> 27690
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; A2301

<400> 27690
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27691
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; C1402

<400> 27691
Ser Tyr Ser Phe Arg Leu Gly Phe
1               5


<210> 27692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; B5701

<400> 27692
Gly Ser Tyr Ser Phe Arg Leu Gly Phe
1               5


<210> 27693
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; A1101

<400> 27693
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27694
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; A2902

<400> 27694
Gly Ser Tyr Ser Phe Arg Leu Gly Phe
1               5


<210> 27695
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; A3001

<400> 27695
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27696
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; A0301

<400> 27696
Gly Ser Tyr Ser Phe Arg Leu Gly Phe
1               5


<210> 27697
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; A1101

<400> 27697

Lys Thr Tyr Gln Gly Ser Tyr Ser Phe Arg
1 5 10

<210> 27698
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G108S; C0701

<400> 27698
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1 5

<210> 27699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A2402

<400> 27699
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1 5

<210> 27700
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; B3901

<400> 27700
Thr Tyr Gln Gly Ser Tyr Ser Phe
1 5

<210> 27701
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; B5701

<400> 27701
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe Arg Leu
1 5 10

<210> 27702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; C1601

<400> 27702
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A3101

<400> 27703
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27704
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; C1203

<400> 27704
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27705
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A2902

<400> 27705
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5

<210> 27706
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; C1402

<400> 27706
Ser Tyr Ser Phe Arg Leu Gly Phe Leu
1               5


<210> 27707
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; B0702

<400> 27707
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27708
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; B1501

<400> 27708
Ser Gln Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5                   10


<210> 27709
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; C0202

<400> 27709
Lys Thr Tyr Gln Gly Ser Tyr Ser Phe
1               5


<210> 27710
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G108S; A2301

<400> 27710
Thr Tyr Gln Gly Ser Tyr Ser Phe Arg Leu
1               5                   10


<210> 27711
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154Afs*16; B0702

<400> 27711
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 27712
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154Afs*16; B3501

<400> 27712
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 27713
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154Afs*16; B3501

<400> 27713
Thr Pro Pro Pro Ala Pro Ala Ser Ala Pro Trp
1               5                   10


<210> 27714
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154Afs*16; B3501

<400> 27714
Ala Pro Trp Pro Ser Thr Ser Ser His Ser Thr
1               5                   10


<210> 27715
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154Afs*16; A0201

<400> 27715
Ser Thr Pro Pro Pro Ala Pro Ala Ser Ala
1               5                   10


<210> 27716
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6801

<400> 27716
Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3301

<400> 27717
Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27718
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.G154V; B5101

<400> 27718
Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27719
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3303

<400> 27719
Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27720
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6802

<400> 27720
Ser Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27721
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6801

<400> 27721
Val Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5                   10


<210> 27722
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A0205

<400> 27722
Ser Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27723
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3303

<400> 27723
Val Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5                   10


<210> 27724
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6802

<400> 27724
Val Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5                   10


<210> 27725
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3301

<400> 27725
Val Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5                   10


<210> 27726
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6802

<400> 27726
Asp Ser Thr Pro Pro Pro Val Thr Arg Val

1 5 10

<210> 27727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A0201

<400> 27727
Ser Thr Pro Pro Pro Val Thr Arg Val
1 5

<210> 27728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3303

<400> 27728
Thr Pro Pro Pro Val Thr Arg Val Arg
1 5

<210> 27729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6801

<400> 27729
Thr Pro Pro Pro Val Thr Arg Val Arg
1 5

<210> 27730
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6801

<400> 27730
Asp Ser Thr Pro Pro Pro Val Thr Arg Val Arg
1 5 10

<210> 27731
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A1101

<400> 27731
Ser Thr Pro Pro Pro Val Thr Arg Val Arg
1               5                   10


<210> 27732
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3303

<400> 27732
Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27733
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; B3701

<400> 27733
Val Asp Ser Thr Pro Pro Pro Val
1               5


<210> 27734
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3101

<400> 27734
Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27735

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A1101

<400> 27735
Ser Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27736
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6801

<400> 27736
Ser Thr Pro Pro Pro Val Thr Arg Val Arg
1               5                   10


<210> 27737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; C1502

<400> 27737
Ser Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27738
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6801

<400> 27738
Ser Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27739
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; B2702

<400> 27739
Val Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5                   10


<210> 27740
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A1101

<400> 27740
Val Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5                   10


<210> 27741
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A1101

<400> 27741
Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27742
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6802

<400> 27742
Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3001

<400> 27743
Val Asp Ser Thr Pro Pro Pro Val Thr
1               5


<210> 27744
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3101

<400> 27744
Val Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5                   10


<210> 27745
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; B4002

<400> 27745
Val Asp Ser Thr Pro Pro Pro Val
1               5


<210> 27746
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3303

<400> 27746
Ser Thr Pro Pro Pro Val Thr Arg Val Arg
1               5                   10


<210> 27747
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A0201

<400> 27747
Trp Val Asp Ser Thr Pro Pro Pro Val
1               5


<210> 27748
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3101

<400> 27748
Ser Thr Pro Pro Pro Val Thr Arg Val Arg
1               5                   10


<210> 27749
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A2601

<400> 27749
Ser Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27750
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A6801

<400> 27750
Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27751
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; C0102

<400> 27751

Ser Thr Pro Pro Pro Val Thr Arg Val
1               5


<210> 27752
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; B5701

<400> 27752
Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G154V; A3101

<400> 27753
Asp Ser Thr Pro Pro Pro Val Thr Arg
1               5


<210> 27754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B1801

<400> 27754
Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27755
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4403

<400> 27755
Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5

<210> 27756
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B1801

<400> 27756
Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27757
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4402

<400> 27757
Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27758
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4001

<400> 27758
Val Glu Glu Asn Leu Arg Val Glu Tyr Leu
1               5                   10


<210> 27759
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4403

<400> 27759
Glu Glu Asn Leu Arg Val Glu Tyr
1               5

<210> 27760
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; A2301

<400> 27760
Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27761
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B5701

<400> 27761
Arg Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 27762
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4403

<400> 27762
Glu Glu Asn Leu Arg Val Glu Tyr Leu
1               5


<210> 27763
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4402

<400> 27763
Glu Glu Asn Leu Arg Val Glu Tyr Leu
1               5


<210> 27764
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B1501

<400> 27764
Arg Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 27765
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4402

<400> 27765
Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27766
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4001

<400> 27766
Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27767
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B1501

<400> 27767
Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27768
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B0801

<400> 27768
Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27769
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B4001

<400> 27769
Glu Glu Asn Leu Arg Val Glu Tyr Leu
1               5


<210> 27770
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; A0101

<400> 27770
Arg Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 27771
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; A2301

<400> 27771
Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27772
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.G199E; A2301

<400> 27772
Glu Glu Asn Leu Arg Val Glu Tyr Leu
1               5


<210> 27773
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B3501

<400> 27773
Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5


<210> 27774
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B3501

<400> 27774
Arg Val Glu Glu Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 27775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199E; B1801

<400> 27775
Glu Glu Asn Leu Arg Val Glu Tyr Leu
1               5


<210> 27776
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B1801

<400> 27776
Val Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B4403

<400> 27777
Val Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27778
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B4402

<400> 27778
Val Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27779
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; A2301

<400> 27779
Val Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B1501

<400> 27780
Val Glu Val Asn Leu Arg Val Glu Tyr

1 5

<210> 27781
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B4001

<400> 27781
Val Glu Val Asn Leu Arg Val Glu Tyr Leu
1 5 10

<210> 27782
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B0801

<400> 27782
Glu Val Asn Leu Arg Val Glu Tyr Leu
1 5

<210> 27783
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B5701

<400> 27783
Arg Val Glu Val Asn Leu Arg Val Glu Tyr
1 5 10

<210> 27784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B3501

<400> 27784
Val Glu Val Asn Leu Arg Val Glu Tyr
1 5

<210> 27785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B4001

<400> 27785
Val Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27786
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; A3001

<400> 27786
Val Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27787
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; A2601

<400> 27787
Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B1402

<400> 27788
Glu Val Asn Leu Arg Val Glu Tyr Leu
1               5


<210> 27789

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; B0801

<400> 27789
Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27790
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; A0201

<400> 27790
His Leu Ile Arg Val Glu Val Asn Leu
1               5


<210> 27791
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; C1601

<400> 27791
Glu Val Asn Leu Arg Val Glu Tyr
1               5


<210> 27792
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G199V; A0101

<400> 27792
Arg Val Glu Val Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 27793
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G244D; B1402

<400> 27793
Asp Gly Met Asn Arg Arg Pro Ile Leu
1               5


<210> 27794
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G244D; B0801

<400> 27794
Asp Gly Met Asn Arg Arg Pro Ile Leu
1               5


<210> 27795
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G244S; A3303

<400> 27795
Ser Cys Met Ser Gly Met Asn Arg
1               5


<210> 27796
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G244S; A1101

<400> 27796
Ser Cys Met Ser Gly Met Asn Arg
1               5


<210> 27797
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G244V; A1101

<400> 27797
Ser Ser Cys Met Val Gly Met Asn Arg
1               5


<210> 27798
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G244V; A1101

<400> 27798
Ser Cys Met Val Gly Met Asn Arg
1               5


<210> 27799
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245A; A1101

<400> 27799
Ser Cys Met Gly Ala Met Asn Arg
1               5


<210> 27800
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245A; A3101

<400> 27800
Ser Cys Met Gly Ala Met Asn Arg
1               5


<210> 27801
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245A; A6801

<400> 27801
Ser Cys Met Gly Ala Met Asn Arg
1               5


<210> 27802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245A; C1601

<400> 27802
Gly Ala Met Asn Arg Arg Pro Ile Leu
1               5


<210> 27803
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245A; A6801

<400> 27803
Ser Ser Cys Met Gly Ala Met Asn Arg
1               5


<210> 27804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245A; A6801

<400> 27804
Asn Ser Ser Cys Met Gly Ala Met Asn Arg
1               5                   10


<210> 27805
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245D; B0801

<400> 27805

Asp Met Asn Arg Arg Pro Ile Leu
1               5


<210> 27806
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245S; A3303

<400> 27806
Ser Cys Met Gly Ser Met Asn Arg
1               5


<210> 27807
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245S; A3101

<400> 27807
Ser Cys Met Gly Ser Met Asn Arg
1               5


<210> 27808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245S; B4102

<400> 27808
Gly Ser Met Asn Arg Arg Pro Ile Leu
1               5


<210> 27809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A6801

<400> 27809
Ser Ser Cys Met Gly Val Met Asn Arg
1               5

<210> 27810
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A6801

<400> 27810
Asn Ser Ser Cys Met Gly Val Met Asn Arg
1               5                   10


<210> 27811
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A3303

<400> 27811
Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 27812
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A3101

<400> 27812
Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 27813
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A6801

<400> 27813
Ser Cys Met Gly Val Met Asn Arg
1               5

<210> 27814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A3101

<400> 27814
Ser Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 27815
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A1101

<400> 27815
Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 27816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A1101

<400> 27816
Ser Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 27817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A3303

<400> 27817
Ser Ser Cys Met Gly Val Met Asn Arg
1               5


<210> 27818
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A3303

<400> 27818
Ser Cys Met Gly Val Met Asn Arg Arg
1               5


<210> 27819
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G245V; A3101

<400> 27819
Ser Cys Met Gly Val Met Asn Arg Arg
1               5


<210> 27820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; A6801

<400> 27820
Asp Ser Ser Val Asn Leu Leu Gly Arg
1               5


<210> 27821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; B4001

<400> 27821
Leu Glu Asp Ser Ser Val Asn Leu Leu
1               5


<210> 27822
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; A6801

<400> 27822
Glu Asp Ser Ser Val Asn Leu Leu Gly Arg
1               5                   10


<210> 27823
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; A3201

<400> 27823
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 27824
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; B4001

<400> 27824
Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 27825
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; C0802

<400> 27825
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 27826
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.G262V; B0702

<400> 27826
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 27827
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; B1501

<400> 27827
Ser Val Asn Leu Leu Gly Arg Asn Ser Phe
1               5                   10


<210> 27828
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; A0201

<400> 27828
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 27829
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; C0802

<400> 27829
Leu Glu Asp Ser Ser Val Asn Leu Leu
1               5


<210> 27830
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; C0501

<400> 27830
Thr Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 27831
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G262V; C0802

<400> 27831
Leu Glu Asp Ser Ser Val Asn Leu
1               5


<210> 27832
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A6801

<400> 27832
Asp Ser Ser Gly Asn Leu Leu Glu Arg
1               5


<210> 27833
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A3301

<400> 27833
Asp Ser Ser Gly Asn Leu Leu Glu Arg
1               5


<210> 27834
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A3303

<400> 27834
Asp Ser Ser Gly Asn Leu Leu Glu Arg

1 5

<210> 27835
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A6801

<400> 27835
Glu Asp Ser Ser Gly Asn Leu Leu Glu Arg
1 5 10

<210> 27836
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; C0602

<400> 27836
Glu Arg Asn Ser Phe Glu Val Arg Val
1 5

<210> 27837
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A3303

<400> 27837
Glu Asp Ser Ser Gly Asn Leu Leu Glu Arg
1 5 10

<210> 27838
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A3301

<400> 27838
Glu Asp Ser Ser Gly Asn Leu Leu Glu Arg
1 5 10

<210> 27839
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; B2705

<400> 27839
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27840
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A3301

<400> 27840
Asn Leu Leu Glu Arg Asn Ser Phe Glu Val Arg
1               5                   10


<210> 27841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A6802

<400> 27841
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27842
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266E; B4901

<400> 27842
Leu Glu Arg Asn Ser Phe Glu Val
1               5


<210> 27843

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; B2702

<400> 27843
Leu Glu Asp Ser Ser Gly Asn Leu Leu Glu Arg
1               5                   10


<210> 27844
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266E; B3901

<400> 27844
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27845
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A3001

<400> 27845
Leu Glu Arg Asn Ser Phe Glu Val
1               5


<210> 27846
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266E; A0201

<400> 27846
Asn Leu Leu Glu Arg Asn Ser Phe Glu Val
1               5                   10


<210> 27847
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<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; B2702

<400> 27847
Glu Asp Ser Ser Gly Asn Leu Leu Glu Arg
1               5                   10


<210> 27848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; B3801

<400> 27848
Glu Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27849
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266E; A6801

<400> 27849
Leu Glu Asp Ser Ser Gly Asn Leu Leu Glu Arg
1               5                   10


<210> 27850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A6801

<400> 27850
Asp Ser Ser Gly Asn Leu Leu Arg Arg
1               5


<210> 27851
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A3301

<400> 27851
Asp Ser Ser Gly Asn Leu Leu Arg Arg
1               5


<210> 27852
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A6801

<400> 27852
Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5


<210> 27853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A3303

<400> 27853
Asp Ser Ser Gly Asn Leu Leu Arg Arg
1               5


<210> 27854
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A6801

<400> 27854
Glu Asp Ser Ser Gly Asn Leu Leu Arg Arg
1               5                   10


<210> 27855
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266R; C0602

<400> 27855
Arg Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27856
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A6801

<400> 27856
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5                   10


<210> 27857
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A3303

<400> 27857
Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5


<210> 27858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A3301

<400> 27858
Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5


<210> 27859
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266R; A6801

<400> 27859

Asp Ser Ser Gly Asn Leu Leu Arg
1               5


<210> 27860
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A3301

<400> 27860
Glu Asp Ser Ser Gly Asn Leu Leu Arg Arg
1               5                   10


<210> 27861
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; A3303

<400> 27861
Glu Asp Ser Ser Gly Asn Leu Leu Arg Arg
1               5                   10


<210> 27862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; B2702

<400> 27862
Leu Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5                   10


<210> 27863
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; B2702

<400> 27863
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5                   10

<210> 27864
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; B2705

<400> 27864
Arg Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266R; B2702

<400> 27865
Glu Asp Ser Ser Gly Asn Leu Leu Arg
1               5


<210> 27866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A6801

<400> 27866
Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5


<210> 27867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A3301

<400> 27867
Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5

<210> 27868
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A3303

<400> 27868
Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5


<210> 27869
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; C0602

<400> 27869
Val Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A6801

<400> 27870
Glu Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5                   10


<210> 27871
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; B4901

<400> 27871
Leu Glu Asp Ser Ser Gly Asn Leu Leu Val
1               5                   10


<210> 27872
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A3303

<400> 27872
Glu Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5                   10


<210> 27873
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; B2705

<400> 27873
Val Arg Asn Ser Phe Glu Val Arg Val
1               5


<210> 27874
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266V; A3101

<400> 27874
Leu Val Arg Asn Ser Phe Glu Val Arg
1               5


<210> 27875
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266V; A3303

<400> 27875
Leu Val Arg Asn Ser Phe Glu Val Arg
1               5


<210> 27876
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A3301

<400> 27876
Glu Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5                   10


<210> 27877
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266V; B2702

<400> 27877
Leu Glu Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5                   10


<210> 27878
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; B1302

<400> 27878
Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu Val
1               5                   10


<210> 27879
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A6801

<400> 27879
Ser Ser Gly Asn Leu Leu Val Arg
1               5


<210> 27880
<211> 10
<212> PRT
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<220>

<223> AACR GENIE Results; TP53_p.G266V; B2702

<400> 27880
Glu Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5                   10


<210> 27881
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266V; A3301

<400> 27881
Leu Val Arg Asn Ser Phe Glu Val Arg
1               5


<210> 27882
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G266V; A1101

<400> 27882
Asp Ser Ser Gly Asn Leu Leu Val Arg
1               5


<210> 27883
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G266V; B5101

<400> 27883
Asp Ser Ser Gly Asn Leu Leu Val
1               5


<210> 27884
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G334V; B5701

<400> 27884
Arg Val Arg Glu Arg Phe Glu Met Phe
1               5


<210> 27885
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G334W; B4403

<400> 27885
Gly Glu Tyr Phe Thr Leu Gln Ile Arg Trp
1               5                   10


<210> 27886
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G334W; B4402

<400> 27886
Gly Glu Tyr Phe Thr Leu Gln Ile Arg Trp
1               5                   10


<210> 27887
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.G334W; A2402

<400> 27887
Glu Tyr Phe Thr Leu Gln Ile Arg Trp
1               5


<210> 27888
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G334W; B4403

<400> 27888
Glu Tyr Phe Thr Leu Gln Ile Arg Trp

1 5

<210> 27889
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G334W; B5701

<400> 27889
Tyr Phe Thr Leu Gln Ile Arg Trp
1 5

<210> 27890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G334W; B5701

<400> 27890
Glu Tyr Phe Thr Leu Gln Ile Arg Trp
1 5

<210> 27891
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.G334W; B4402

<400> 27891
Glu Tyr Phe Thr Leu Gln Ile Arg Trp
1 5

<210> 27892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; C0304

<400> 27892
Met Ala Ile Tyr Lys Gln Ser Gln Leu
1 5

<210> 27893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; B0801

<400> 27893
Met Ala Ile Tyr Lys Gln Ser Gln Leu
1               5


<210> 27894
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; C1203

<400> 27894
Met Ala Ile Tyr Lys Gln Ser Gln Leu
1               5


<210> 27895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; A0201

<400> 27895
Lys Gln Ser Gln Leu Met Thr Glu Val
1               5


<210> 27896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; A0301

<400> 27896
Ala Ile Tyr Lys Gln Ser Gln Leu Met
1               5


<210> 27897

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; A1101

<400> 27897
Gln Leu Met Thr Glu Val Val Arg Arg
1               5


<210> 27898
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; B0801

<400> 27898
Ala Ile Tyr Lys Gln Ser Gln Leu
1               5


<210> 27899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; B0702

<400> 27899
Met Ala Ile Tyr Lys Gln Ser Gln Leu
1               5


<210> 27900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; A0201

<400> 27900
Gln Leu Met Thr Glu Val Val Arg Arg
1               5


<210> 27901
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; A1101

<400> 27901
Ala Ile Tyr Lys Gln Ser Gln Leu Met
1               5


<210> 27902
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; B0702

<400> 27902
Ala Ile Tyr Lys Gln Ser Gln Leu
1               5


<210> 27903
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168L; B0801

<400> 27903
Ile Tyr Lys Gln Ser Gln Leu Met
1               5


<210> 27904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B2705

<400> 27904
Gln Arg Met Thr Glu Val Val Arg Arg
1               5


<210> 27905
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B1302

<400> 27905
Ser Gln Arg Met Thr Glu Val Val
1               5


<210> 27906
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A6801

<400> 27906
Met Ala Ile Tyr Lys Gln Ser Gln Arg
1               5


<210> 27907
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B1501

<400> 27907
Ser Gln Arg Met Thr Glu Val Val
1               5


<210> 27908
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A3101

<400> 27908
Arg Met Thr Glu Val Val Arg Arg
1               5


<210> 27909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A3101

<400> 27909
Ser Gln Arg Met Thr Glu Val Val Arg
1               5


<210> 27910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B1501

<400> 27910
Ala Ile Tyr Lys Gln Ser Gln Arg Met
1               5


<210> 27911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B1302

<400> 27911
Lys Gln Ser Gln Arg Met Thr Glu Val
1               5


<210> 27912
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B2705

<400> 27912
Gln Arg Met Thr Glu Val Val Arg
1               5


<210> 27913
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A0301

<400> 27913

Ala Ile Tyr Lys Gln Ser Gln Arg Met
1 5

<210> 27914
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B1302

<400> 27914
Ala Ile Tyr Lys Gln Ser Gln Arg Met
1 5

<210> 27915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; B1501

<400> 27915
Ser Gln Arg Met Thr Glu Val Val Arg
1 5

<210> 27916
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A6801

<400> 27916
Gln Ser Gln Arg Met Thr Glu Val Val Arg
1 5 10

<210> 27917
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A3001

<400> 27917
Ser Gln Arg Met Thr Glu Val Val
1 5

<210> 27918
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A3101

<400> 27918
Ser Gln Arg Met Thr Glu Val Val Arg Arg
1               5                   10


<210> 27919
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H168R; A0301

<400> 27919
Ala Ile Tyr Lys Gln Ser Gln Arg
1               5


<210> 27920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B4403

<400> 27920
Ser Glu Trp Lys Glu Ile Cys Val Trp
1               5


<210> 27921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; C1203

<400> 27921
Ser Ala Ala Gln Ile Ala Met Val Trp
1               5

<210> 27922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B5101

<400> 27922
Val Pro Pro Ser Thr Thr Thr Thr Cys
1               5


<210> 27923
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B4402

<400> 27923
Ser Glu Trp Lys Glu Ile Cys Val Trp
1               5


<210> 27924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B3501

<400> 27924
Ser Ala Ala Gln Ile Ala Met Val Trp
1               5


<210> 27925
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; A2402

<400> 27925
Val Trp Pro Leu Leu Ser Ile Leu Ser Glu Trp
1               5                   10


<210> 27926
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B5101

<400> 27926
Val Pro Pro Ser Thr Thr Thr Thr Cys Val
1               5                   10


<210> 27927
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B0702

<400> 27927
Val Pro Pro Ser Thr Thr Thr Thr Cys Val
1               5                   10


<210> 27928
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B4403

<400> 27928
Thr Glu Thr Leu Phe Asp Ile Val Trp
1               5


<210> 27929
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B5101

<400> 27929
Val Pro Pro Ser Thr Thr Thr Thr
1               5


<210> 27930
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B5101

<400> 27930
Ser Ala Ala Gln Ile Ala Met Val
1               5


<210> 27931
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H178Tfs*69; B1801

<400> 27931
Thr Glu Thr Leu Phe Asp Ile Val
1               5


<210> 27932
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H179Y; A3001

<400> 27932
Tyr Glu Arg Cys Ser Asp Ser Asp Gly Leu
1               5                   10


<210> 27933
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193L; B1302

<400> 27933
Gly Leu Ala Pro Pro Gln Leu Leu Ile
1               5


<210> 27934
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.H193L; A0201

<400> 27934
Gly Leu Ala Pro Pro Gln Leu Leu Ile Arg Val
1               5                   10


<210> 27935
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.H193L; B5101

<400> 27935
Leu Ala Pro Pro Gln Leu Leu Ile
1               5


<210> 27936
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193L; A0201

<400> 27936
Gly Leu Ala Pro Pro Gln Leu Leu Ile
1               5


<210> 27937
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193L; B5101

<400> 27937
Asp Gly Leu Ala Pro Pro Gln Leu
1               5


<210> 27938
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193L; B5101

<400> 27938
Asp Gly Leu Ala Pro Pro Gln Leu Leu Ile
1               5                   10


<210> 27939
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.H193P; A0201

<400> 27939
Gly Leu Ala Pro Pro Gln Pro Leu Ile
1               5


<210> 27940
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.H193P; B5101

<400> 27940
Leu Ala Pro Pro Gln Pro Leu Ile
1               5


<210> 27941
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.H193P; A0201

<400> 27941
Gly Leu Ala Pro Pro Gln Pro Leu Ile Arg Val
1               5                   10


<210> 27942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193P; B5101

<400> 27942
Ala Pro Pro Gln Pro Leu Ile Arg Val

1 5

<210> 27943
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193P; A0301

<400> 27943
Gly Leu Ala Pro Pro Gln Pro Leu Ile Arg
1 5 10

<210> 27944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193P; B5101

<400> 27944
Asp Gly Leu Ala Pro Pro Gln Pro Leu Ile
1 5 10

<210> 27945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193P; B1501

<400> 27945
Gly Leu Ala Pro Pro Gln Pro Leu Ile
1 5

<210> 27946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193P; B0702

<400> 27946
Ala Pro Pro Gln Pro Leu Ile Arg Val
1 5

<210> 27947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193P; B5101

<400> 27947
Leu Ala Pro Pro Gln Pro Leu Ile Arg
1               5


<210> 27948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; B1302

<400> 27948
Gly Leu Ala Pro Pro Gln Arg Leu Ile
1               5


<210> 27949
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; A6801

<400> 27949
Asp Ser Asp Gly Leu Ala Pro Pro Gln Arg
1               5                   10


<210> 27950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; B5101

<400> 27950
Asp Gly Leu Ala Pro Pro Gln Arg Leu Ile
1               5                   10


<210> 27951

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; A0201

<400> 27951
Gly Leu Ala Pro Pro Gln Arg Leu Ile Arg Val
1               5                   10


<210> 27952
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; A6801

<400> 27952
Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln Arg
1               5                   10


<210> 27953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; A0201

<400> 27953
Gly Leu Ala Pro Pro Gln Arg Leu Ile
1               5


<210> 27954
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; C1701

<400> 27954
Gly Leu Ala Pro Pro Gln Arg Leu
1               5


<210> 27955
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; B5101

<400> 27955
Asp Gly Leu Ala Pro Pro Gln Arg Leu
1               5


<210> 27956
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193R; B5101

<400> 27956
Leu Ala Pro Pro Gln Arg Leu Ile
1               5


<210> 27957
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; A0201

<400> 27957
Gly Leu Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5                   10


<210> 27958
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B1302

<400> 27958
Gly Leu Ala Pro Pro Gln Tyr Leu Ile
1               5


<210> 27959
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; A0101

<400> 27959
Asp Ser Asp Gly Leu Ala Pro Pro Gln Tyr
1               5                   10


<210> 27960
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.H193Y; A0201

<400> 27960
Gly Leu Ala Pro Pro Gln Tyr Leu Ile
1               5


<210> 27961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B1801

<400> 27961
Ser Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 27962
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.H193Y; B1801

<400> 27962
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 27963
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; A6802

<400> 27963
Gly Leu Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5                   10


<210> 27964
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B3501

<400> 27964
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 27965
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; C1701

<400> 27965
Gly Leu Ala Pro Pro Gln Tyr Leu
1               5


<210> 27966
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B5101

<400> 27966
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 27967
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; A3301

<400> 27967

Asp Gly Leu Ala Pro Pro Gln Tyr Leu Ile Arg
1               5                   10


<210> 27968
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B5101

<400> 27968
Ala Pro Pro Gln Tyr Leu Ile Arg Val
1               5


<210> 27969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B5101

<400> 27969
Leu Ala Pro Pro Gln Tyr Leu Ile Arg
1               5


<210> 27970
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B4403

<400> 27970
Ser Asp Gly Leu Ala Pro Pro Gln Tyr
1               5


<210> 27971
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H193Y; B3901

<400> 27971
Asp Gly Leu Ala Pro Pro Gln Tyr
1               5

<210> 27972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H214L; A0201

<400> 27972
Tyr Leu Asp Asp Arg Asn Thr Phe Arg Leu
1               5                   10


<210> 27973
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H214L; A2402

<400> 27973
Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg Leu
1               5                   10


<210> 27974
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H214Lfs*33; B0702

<400> 27974
Val Pro Pro Ser Thr Thr Thr Thr Cys Val
1               5                   10


<210> 27975
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H214R; A6802

<400> 27975
Asn Thr Phe Arg Arg Ser Val Val Val
1               5

<210> 27976
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H214R; A3303

<400> 27976
Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg Arg
1               5                   10


<210> 27977
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.H214R; B1402

<400> 27977
Asp Arg Asn Thr Phe Arg Arg Ser Val
1               5


<210> 27978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I162Sfs*8; B1501

<400> 27978
Arg Ala Met Ala Ser Thr Ser Ser His
1               5


<210> 27979
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I162Sfs*8; A0201

<400> 27979
Ala Met Ala Ser Thr Ser Ser His Ser Thr
1               5                   10


<210> 27980
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I162Sfs*8; B0702

<400> 27980
Arg Ala Met Ala Ser Thr Ser Ser His
1               5


<210> 27981
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195F; B1501

<400> 27981
Gly Leu Ala Pro Pro Gln His Leu Phe
1               5


<210> 27982
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195F; A0201

<400> 27982
Gly Leu Ala Pro Pro Gln His Leu Phe Arg Val
1               5                   10


<210> 27983
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195F; A0301

<400> 27983
Gly Leu Ala Pro Pro Gln His Leu Phe Arg
1               5                   10


<210> 27984
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195N; A0201

<400> 27984
Gly Leu Ala Pro Pro Gln His Leu Asn Arg Val
1               5                   10


<210> 27985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195N; A3101

<400> 27985
Gly Leu Ala Pro Pro Gln His Leu Asn Arg
1               5                   10


<210> 27986
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195N; A0301

<400> 27986
Gly Leu Ala Pro Pro Gln His Leu Asn Arg
1               5                   10


<210> 27987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195N; B5101

<400> 27987
Ala Pro Pro Gln His Leu Asn Arg Val
1               5


<210> 27988
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.I195N; B2705

<400> 27988
Asn Arg Val Glu Gly Asn Leu Arg
1               5


<210> 27989
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A3301

<400> 27989
Asp Gly Leu Ala Pro Pro Gln His Leu Thr Arg
1               5                   10


<210> 27990
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A0201

<400> 27990
Gly Leu Ala Pro Pro Gln His Leu Thr Arg Val
1               5                   10


<210> 27991
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A0301

<400> 27991
Gly Leu Ala Pro Pro Gln His Leu Thr Arg
1               5                   10


<210> 27992
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.I195T; B3901

<400> 27992
Thr Arg Val Glu Gly Asn Leu Arg Val
1               5


<210> 27993
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A3303

<400> 27993
Asp Gly Leu Ala Pro Pro Gln His Leu Thr Arg
1               5                   10


<210> 27994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; B2705

<400> 27994
Thr Arg Val Glu Gly Asn Leu Arg Val
1               5


<210> 27995
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; B2702

<400> 27995
Thr Arg Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 27996
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A3101

<400> 27996
Gly Leu Ala Pro Pro Gln His Leu Thr Arg

1 5 10

<210> 27997
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; B5101

<400> 27997
Leu Ala Pro Pro Gln His Leu Thr Arg
1 5

<210> 27998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A3303

<400> 27998
Leu Thr Arg Val Glu Gly Asn Leu Arg
1 5

<210> 27999
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A6802

<400> 27999
Gly Leu Ala Pro Pro Gln His Leu Thr Arg Val
1 5 10

<210> 28000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; B0702

<400> 28000
Ala Pro Pro Gln His Leu Thr Arg Val
1 5

<210> 28001
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; B2705

<400> 28001
Thr Arg Val Glu Gly Asn Leu Arg
1               5


<210> 28002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; B5101

<400> 28002
Ala Pro Pro Gln His Leu Thr Arg Val
1               5


<210> 28003
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A6801

<400> 28003
Gly Leu Ala Pro Pro Gln His Leu Thr Arg
1               5                   10


<210> 28004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; B1302

<400> 28004
Thr Arg Val Glu Gly Asn Leu Arg Val
1               5


<210> 28005

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A0201

<400> 28005
Gly Leu Ala Pro Pro Gln His Leu Thr
1               5


<210> 28006
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I195T; A6801

<400> 28006
Asp Gly Leu Ala Pro Pro Gln His Leu Thr Arg
1               5                   10


<210> 28007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I232F; A0101

<400> 28007
Gly Ser Asp Cys Thr Thr Phe His Tyr
1               5


<210> 28008
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I232N; A0101

<400> 28008
Gly Ser Asp Cys Thr Thr Asn His Tyr
1               5


<210> 28009
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I232N; C1601

<400> 28009
Cys Thr Thr Asn His Tyr Asn Tyr
1               5


<210> 28010
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I232N; A2601

<400> 28010
Cys Thr Thr Asn His Tyr Asn Tyr Met
1               5


<210> 28011
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I232T; A0101

<400> 28011
Gly Ser Asp Cys Thr Thr Thr His Tyr
1               5


<210> 28012
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I232T; C1601

<400> 28012
Cys Thr Thr Thr His Tyr Asn Tyr
1               5


<210> 28013
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I251F; B0702

<400> 28013
Arg Pro Phe Leu Thr Ile Ile Thr Leu
1               5


<210> 28014
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I251F; C0602

<400> 28014
Asn Arg Arg Pro Phe Leu Thr Ile Ile
1               5


<210> 28015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I251F; B3503

<400> 28015
Arg Pro Phe Leu Thr Ile Ile Thr Leu
1               5


<210> 28016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I251F; B3501

<400> 28016
Arg Pro Phe Leu Thr Ile Ile Thr Leu
1               5


<210> 28017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I251F; B5501

<400> 28017
Arg Pro Phe Leu Thr Ile Ile Thr Leu
1               5


<210> 28018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I254N; B0702

<400> 28018
Arg Pro Ile Leu Thr Asn Ile Thr Leu
1               5


<210> 28019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I254N; C0602

<400> 28019
Asn Arg Arg Pro Ile Leu Thr Asn Ile
1               5


<210> 28020
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I254N; B3501

<400> 28020
Arg Pro Ile Leu Thr Asn Ile Thr Leu
1               5


<210> 28021
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255del; C0602

<400> 28021

Arg Arg Pro Ile Leu Thr Ile Thr Leu
1 5

<210> 28022
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255del; B0702

<400> 28022
Arg Pro Ile Leu Thr Ile Thr Leu
1 5

<210> 28023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255del; C0702

<400> 28023
Arg Arg Pro Ile Leu Thr Ile Thr Leu
1 5

<210> 28024
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255del; C0701

<400> 28024
Arg Arg Pro Ile Leu Thr Ile Thr Leu
1 5

<210> 28025
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; A0205

<400> 28025
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1 5 10

<210> 28026
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; C0702

<400> 28026
Asn Arg Arg Pro Ile Leu Thr Ile Phe
1               5


<210> 28027
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; C0602

<400> 28027
Asn Arg Arg Pro Ile Leu Thr Ile Phe
1               5


<210> 28028
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; B0702

<400> 28028
Arg Pro Ile Leu Thr Ile Phe Thr Leu
1               5


<210> 28029
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; B3801

<400> 28029
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10

<210> 28030
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; A6802

<400> 28030
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 28031
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; C0304

<400> 28031
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 28032
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; B5001

<400> 28032
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 28033
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; A0201

<400> 28033
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 28034
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; B3503

<400> 28034
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 28035
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; C0303

<400> 28035
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 28036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; B3503

<400> 28036
Arg Pro Ile Leu Thr Ile Phe Thr Leu
1               5


<210> 28037
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255F; A6802

<400> 28037
Phe Thr Leu Glu Asp Ser Ser Gly Asn Leu
1               5                   10


<210> 28038
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255S; B0702

<400> 28038
Arg Pro Ile Leu Thr Ile Ser Thr Leu
1               5


<210> 28039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255S; B3501

<400> 28039
Arg Pro Ile Leu Thr Ile Ser Thr Leu
1               5


<210> 28040
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.I255S; B0801

<400> 28040
Arg Pro Ile Leu Thr Ile Ser Thr Leu
1               5


<210> 28041
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3501

<400> 28041
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28042
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.K120E; B1501

<400> 28042
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28043
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A2902

<400> 28043
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28044
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B5801

<400> 28044
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28045
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A2601

<400> 28045
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28046
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B1501

<400> 28046
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28047
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3701

<400> 28047
Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28048
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A0101

<400> 28048
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28049
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B5801

<400> 28049
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B1801

<400> 28050
Ala Glu Ser Val Thr Cys Thr Tyr

1 5

<210> 28051
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3901

<400> 28051
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1 5

<210> 28052
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A1101

<400> 28052
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1 5 10

<210> 28053
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A0101

<400> 28053
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1 5 10

<210> 28054
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B4403

<400> 28054
Ala Glu Ser Val Thr Cys Thr Tyr
1 5

<210> 28055
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B1302

<400> 28055
Phe Leu His Ser Gly Thr Ala Glu Ser Val
1               5                   10


<210> 28056
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A0301

<400> 28056
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28057
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A3201

<400> 28057
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28058
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B5701

<400> 28058
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28059

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B4402

<400> 28059
Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28060
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A6801

<400> 28060
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28061
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A0201

<400> 28061
Phe Leu His Ser Gly Thr Ala Glu Ser Val
1               5                   10


<210> 28062
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3901

<400> 28062
Leu His Ser Gly Thr Ala Glu Ser Val
1               5


<210> 28063
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3801

<400> 28063
Leu His Ser Gly Thr Ala Glu Ser Val
1               5


<210> 28064
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B2702

<400> 28064
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28065
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3501

<400> 28065
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A0201

<400> 28066
Phe Leu His Ser Gly Thr Ala Glu Ser
1               5


<210> 28067
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B4403

<400> 28067
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28068
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A2601

<400> 28068
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28069
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B1501

<400> 28069
Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A3001

<400> 28070
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B2705

<400> 28071
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B4901

<400> 28072
Ala Glu Ser Val Thr Cys Thr Tyr Ser
1               5


<210> 28073
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B5701

<400> 28073
Ser Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B5701

<400> 28074
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B1801

<400> 28075

Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A6801

<400> 28076
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28077
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A6802

<400> 28077
Phe Leu His Ser Gly Thr Ala Glu Ser Val
1               5                   10


<210> 28078
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B5801

<400> 28078
Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28079
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3503

<400> 28079
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5

<210> 28080
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; C0202

<400> 28080
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A2902

<400> 28081
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5


<210> 28082
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; A3101

<400> 28082
Gly Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5                   10


<210> 28083
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K120E; B3801

<400> 28083
Thr Ala Glu Ser Val Thr Cys Thr Tyr
1               5

<210> 28084
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; A2402

<400> 28084
Thr Tyr Ser Pro Ala Leu Asn Glu Met Phe
1               5                   10


<210> 28085
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; A2301

<400> 28085
Thr Tyr Ser Pro Ala Leu Asn Glu Met Phe
1               5                   10


<210> 28086
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; A2402

<400> 28086
Thr Tyr Ser Pro Ala Leu Asn Glu Met
1               5


<210> 28087
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; A2301

<400> 28087
Thr Tyr Ser Pro Ala Leu Asn Glu Met
1               5


<210> 28088
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; C0102

<400> 28088
Tyr Ser Pro Ala Leu Asn Glu Met
1               5


<210> 28089
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; C0702

<400> 28089
Thr Tyr Ser Pro Ala Leu Asn Glu Met
1               5


<210> 28090
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; A0201

<400> 28090
Ala Leu Asn Glu Met Phe Cys Gln Leu
1               5


<210> 28091
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; B3801

<400> 28091
Thr Tyr Ser Pro Ala Leu Asn Glu Met
1               5


<210> 28092
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; B3501

<400> 28092
Ser Pro Ala Leu Asn Glu Met Phe
1               5


<210> 28093
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; B3501

<400> 28093
Thr Tyr Ser Pro Ala Leu Asn Glu Met
1               5


<210> 28094
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; B3801

<400> 28094
Thr Tyr Ser Pro Ala Leu Asn Glu Met Phe
1               5                   10


<210> 28095
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132E; C0602

<400> 28095
Thr Tyr Ser Pro Ala Leu Asn Glu Met
1               5


<210> 28096
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.K132N; A2402

<400> 28096
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 28097
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; A2301

<400> 28097
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 28098
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; A2402

<400> 28098
Thr Tyr Ser Pro Ala Leu Asn Asn Met
1               5


<210> 28099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; C1402

<400> 28099
Thr Tyr Ser Pro Ala Leu Asn Asn Met
1               5


<210> 28100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; A2301

<400> 28100
Thr Tyr Ser Pro Ala Leu Asn Asn Met
1               5


<210> 28101
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132N; C1402

<400> 28101
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 28102
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; B0702

<400> 28102
Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 28103
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; B3901

<400> 28103
Thr Tyr Ser Pro Ala Leu Asn Asn Met
1               5


<210> 28104
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; B3501

<400> 28104
Ser Pro Ala Leu Asn Asn Met Phe

1 5

<210> 28105
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; B5801

<400> 28105
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1 5 10

<210> 28106
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; B3801

<400> 28106
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1 5 10

<210> 28107
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; A2402

<400> 28107
Tyr Ser Pro Ala Leu Asn Asn Met Phe
1 5

<210> 28108
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132N; C0102

<400> 28108
Tyr Ser Pro Ala Leu Asn Asn Met
1 5

<210> 28109
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; B5701

<400> 28109
Thr Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5                   10


<210> 28110
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132N; C0102

<400> 28110
Tyr Ser Pro Ala Leu Asn Asn Met Phe
1               5


<210> 28111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132N; B3801

<400> 28111
Thr Tyr Ser Pro Ala Leu Asn Asn Met
1               5


<210> 28112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132R; A1101

<400> 28112
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28113

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132R; A3303

<400> 28113
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28114
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132R; A2402

<400> 28114
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 28115
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A0301

<400> 28115
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28116
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A3101

<400> 28116
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28117
<211> 10
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<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132R; A2301

<400> 28117
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 28118
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A2402

<400> 28118
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 28119
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A3301

<400> 28119
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28120
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A6801

<400> 28120
Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28121
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A3303

<400> 28121
Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28122
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; C1402

<400> 28122
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 28123
<211> 9
<212> PRT
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<220>
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<400> 28123
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 28124
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; C1402

<400> 28124
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 28125
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; B5701

<400> 28125
Thr Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5                   10


<210> 28126
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A6801

<400> 28126
Thr Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5                   10


<210> 28127
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A3303

<400> 28127
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 28128
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K132R; A3101

<400> 28128
Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28129
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; B0702

<400> 28129

Ser Pro Ala Leu Asn Arg Met Phe
1               5


<210> 28130
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A3301

<400> 28130
Thr Tyr Ser Pro Ala Leu Asn Arg
1               5


<210> 28131
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; B3901

<400> 28131
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5


<210> 28132
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; A3303

<400> 28132
Thr Cys Thr Tyr Ser Pro Ala Leu Asn Arg
1               5                   10


<210> 28133
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; C0602

<400> 28133
Thr Tyr Ser Pro Ala Leu Asn Arg Met
1               5

<210> 28134
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K132R; B5701

<400> 28134
Tyr Ser Pro Ala Leu Asn Arg Met Phe
1               5


<210> 28135
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; B0702

<400> 28135
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 28136
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; B0702

<400> 28136
His Pro Arg Pro Ala Pro Ala Ser Ala
1               5


<210> 28137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; B0801

<400> 28137
Ile Pro His Pro Arg Pro Ala Pro Ala
1               5

<210> 28138
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; A0201

<400> 28138
Gly Leu Ile Pro His Pro Arg Pro Ala
1               5


<210> 28139
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; A0201

<400> 28139
Leu Ile Pro His Pro Arg Pro Ala Pro Ala
1               5                   10


<210> 28140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; B3501

<400> 28140
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 28141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; B0702

<400> 28141
Ile Pro His Pro Arg Pro Ala Pro Ala
1               5


<210> 28142
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; B0702

<400> 28142
Ile Pro His Pro Arg Pro Ala Pro
1               5


<210> 28143
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; A0201

<400> 28143
Ile Pro His Pro Arg Pro Ala Pro Ala
1               5


<210> 28144
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K139Rfs*31; B3501

<400> 28144
Ala Pro Trp Pro Ser Thr Ser Ser His Ser Thr
1               5                   10


<210> 28145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; B1501

<400> 28145
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28146
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; B3501

<400> 28146
Met Ala Ile Tyr Glu Gln Ser Gln His Met
1               5                   10


<210> 28147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; A0201

<400> 28147
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; C0304

<400> 28148
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28149
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; A0301

<400> 28149
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28150
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.K164E; C0303

<400> 28150
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28151
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; A2601

<400> 28151
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28152
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; C0401

<400> 28152
Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; C0202

<400> 28153
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; B3501

<400> 28154
Met Ala Ile Tyr Glu Gln Ser Gln His
1               5


<210> 28155
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.K164E; A1101

<400> 28155
Ala Ile Tyr Glu Gln Ser Gln His Met
1               5


<210> 28156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L111P; B5701

<400> 28156
Gly Ser Tyr Gly Phe Arg Pro Gly Phe
1               5


<210> 28157
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L111P; C1402

<400> 28157
Ser Tyr Gly Phe Arg Pro Gly Phe Leu
1               5


<210> 28158
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L111P; C1402

<400> 28158
Ser Tyr Gly Phe Arg Pro Gly Phe

1 5

<210> 28159
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L111P; C1701

<400> 28159
Gly Ser Tyr Gly Phe Arg Pro Gly Phe Leu
1 5 10

<210> 28160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A1101

<400> 28160
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1 5

<210> 28161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A0301

<400> 28161
Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1 5

<210> 28162
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A2402

<400> 28162
Thr Tyr Ser Pro Ala Phe Asn Lys Met
1 5

<210> 28163
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A2402

<400> 28163
Thr Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5                   10


<210> 28164
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A2301

<400> 28164
Thr Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5                   10


<210> 28165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A2301

<400> 28165
Thr Tyr Ser Pro Ala Phe Asn Lys Met
1               5


<210> 28166
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130F; C1402

<400> 28166
Thr Tyr Ser Pro Ala Phe Asn Lys Met
1               5


<210> 28167

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A3303

<400> 28167
Thr Tyr Ser Pro Ala Phe Asn Lys
1               5


<210> 28168
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; C0102

<400> 28168
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 28169
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; C1402

<400> 28169
Thr Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5                   10


<210> 28170
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; C0202

<400> 28170
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 28171
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A1101

<400> 28171
Thr Cys Thr Tyr Ser Pro Ala Phe Asn Lys
1               5                   10


<210> 28172
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; B0702

<400> 28172
Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 28173
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; C1203

<400> 28173
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 28174
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; B5701

<400> 28174
Thr Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5                   10


<210> 28175
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130F; C0602

<400> 28175
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 28176
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130F; C1601

<400> 28176
Tyr Ser Pro Ala Phe Asn Lys Met Phe
1               5


<210> 28177
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130F; A3303

<400> 28177
Thr Tyr Ser Pro Ala Phe Asn Lys Met
1               5


<210> 28178
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130R; A0301

<400> 28178
Cys Thr Tyr Ser Pro Ala Arg Asn Lys
1               5


<210> 28179
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130R; A1101

<400> 28179
Cys Thr Tyr Ser Pro Ala Arg Asn Lys
1               5


<210> 28180
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130R; A2402

<400> 28180
Thr Tyr Ser Pro Ala Arg Asn Lys Met
1               5


<210> 28181
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130R; A2301

<400> 28181
Thr Tyr Ser Pro Ala Arg Asn Lys Met Phe
1               5                   10


<210> 28182
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130R; A2402

<400> 28182
Thr Tyr Ser Pro Ala Arg Asn Lys Met Phe
1               5                   10


<210> 28183
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130R; A0301

<400> 28183

Thr Cys Thr Tyr Ser Pro Ala Arg Asn Lys
1 5 10

<210> 28184
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130R; B0702

<400> 28184
Ser Pro Ala Arg Asn Lys Met Phe
1 5

<210> 28185
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130R; A1101

<400> 28185
Thr Cys Thr Tyr Ser Pro Ala Arg Asn Lys
1 5 10

<210> 28186
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130R; C0102

<400> 28186
Tyr Ser Pro Ala Arg Asn Lys Met Phe
1 5

<210> 28187
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; A1101

<400> 28187
Cys Thr Tyr Ser Pro Ala Val Asn Lys
1 5

<210> 28188
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A0301

<400> 28188
Cys Thr Tyr Ser Pro Ala Val Asn Lys
1               5


<210> 28189
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A2402

<400> 28189
Thr Tyr Ser Pro Ala Val Asn Lys Met Phe
1               5                   10


<210> 28190
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A2301

<400> 28190
Thr Tyr Ser Pro Ala Val Asn Lys Met Phe
1               5                   10


<210> 28191
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A2402

<400> 28191
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5

<210> 28192
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; C1402

<400> 28192
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28193
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A2301

<400> 28193
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28194
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; B3901

<400> 28194
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A6801

<400> 28195
Cys Thr Tyr Ser Pro Ala Val Asn Lys
1               5


<210> 28196
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A3303

<400> 28196
Cys Thr Tyr Ser Pro Ala Val Asn Lys
1               5


<210> 28197
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; B0702

<400> 28197
Ser Pro Ala Val Asn Lys Met Phe
1               5


<210> 28198
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A3303

<400> 28198
Thr Tyr Ser Pro Ala Val Asn Lys
1               5


<210> 28199
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; B0702

<400> 28199
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28200
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; A1101

<400> 28200
Thr Cys Thr Tyr Ser Pro Ala Val Asn Lys
1               5                   10


<210> 28201
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; B5701

<400> 28201
Thr Tyr Ser Pro Ala Val Asn Lys Met Phe
1               5                   10


<210> 28202
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A1101

<400> 28202
Thr Tyr Ser Pro Ala Val Asn Lys
1               5


<210> 28203
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; C0202

<400> 28203
Tyr Ser Pro Ala Val Asn Lys Met Phe
1               5


<210> 28204
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.L130V; C0702

<400> 28204
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28205
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; B5101

<400> 28205
Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28206
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A3303

<400> 28206
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28207
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; B5701

<400> 28207
Tyr Ser Pro Ala Val Asn Lys Met Phe
1               5


<210> 28208
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A0301

<400> 28208
Thr Cys Thr Tyr Ser Pro Ala Val Asn Lys
1               5                   10


<210> 28209
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; B3801

<400> 28209
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28210
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; C1402

<400> 28210
Thr Tyr Ser Pro Ala Val Asn Lys Met Phe
1               5                   10


<210> 28211
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; B3501

<400> 28211
Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5


<210> 28212
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; A3101

<400> 28212
Cys Thr Tyr Ser Pro Ala Val Asn Lys

1 5

<210> 28213
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; C0102

<400> 28213
Tyr Ser Pro Ala Val Asn Lys Met
1 5

<210> 28214
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; C0102

<400> 28214
Tyr Ser Pro Ala Val Asn Lys Met Phe
1 5

<210> 28215
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; B3501

<400> 28215
Ser Pro Ala Val Asn Lys Met Phe
1 5

<210> 28216
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; A0301

<400> 28216
Cys Thr Tyr Ser Pro Ala Val Asn Lys Met
1 5 10

<210> 28217
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; A1101

<400> 28217
Cys Thr Tyr Ser Pro Ala Val Asn Lys Met
1               5                   10


<210> 28218
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L130V; A2301

<400> 28218
Tyr Ser Pro Ala Val Asn Lys Met Phe
1               5


<210> 28219
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L130V; B0801

<400> 28219
Ser Pro Ala Val Asn Lys Met Phe
1               5


<210> 28220
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L145R; B5701

<400> 28220
Lys Thr Cys Pro Val Gln Arg Trp
1               5


<210> 28221

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L194F; A0201

<400> 28221
Gly Leu Ala Pro Pro Gln His Phe Ile
1               5


<210> 28222
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L194F; A0201

<400> 28222
Gly Leu Ala Pro Pro Gln His Phe Ile Arg Val
1               5                   10


<210> 28223
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L194F; B5101

<400> 28223
Asp Gly Leu Ala Pro Pro Gln His Phe Ile
1               5                   10


<210> 28224
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L194F; B5101

<400> 28224
Ala Pro Pro Gln His Phe Ile Arg Val
1               5


<210> 28225
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L194R; B1302

<400> 28225
Gly Leu Ala Pro Pro Gln His Arg Ile
1               5


<210> 28226
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L194R; A3303

<400> 28226
Asp Gly Leu Ala Pro Pro Gln His Arg
1               5


<210> 28227
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L194R; B5101

<400> 28227
Asp Gly Leu Ala Pro Pro Gln His Arg Ile
1               5                   10


<210> 28228
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<212> PRT
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<220>
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<400> 28228
Gly Leu Ala Pro Pro Gln His Arg Ile
1               5


<210> 28229
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L194R; A6801

<400> 28229
Asp Ser Asp Gly Leu Ala Pro Pro Gln His Arg
1               5                   10


<210> 28230
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L194R; A3303

<400> 28230
Asp Ser Asp Gly Leu Ala Pro Pro Gln His Arg
1               5                   10


<210> 28231
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L194R; B3801

<400> 28231
Gly Leu Ala Pro Pro Gln His Arg Ile
1               5


<210> 28232
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L257P; B4001

<400> 28232
Pro Glu Asp Ser Ser Gly Asn Leu Leu
1               5


<210> 28233
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L257P; B3501

<400> 28233
Thr Pro Glu Asp Ser Ser Gly Asn Leu Leu
1               5                   10


<210> 28234
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.L257P; C0802

<400> 28234
Thr Pro Glu Asp Ser Ser Gly Asn Leu
1               5


<210> 28235
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L265P; A6801

<400> 28235
Asp Ser Ser Gly Asn Leu Pro Gly Arg
1               5


<210> 28236
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L265P; A6801

<400> 28236
Glu Asp Ser Ser Gly Asn Leu Pro Gly Arg
1               5                   10


<210> 28237
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L265P; B0702

<400> 28237

Ser Gly Asn Leu Pro Gly Arg Asn Ser Phe
1 5 10

<210> 28238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L265P; B1501

<400> 28238
Ser Gly Asn Leu Pro Gly Arg Asn Ser Phe
1 5 10

<210> 28239
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L330P; B5101

<400> 28239
Asp Gly Glu Tyr Phe Thr Pro Gln Ile
1 5

<210> 28240
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L330P; B1801

<400> 28240
Gly Glu Tyr Phe Thr Pro Gln Ile
1 5

<210> 28241
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L344R; B0702

<400> 28241
Arg Glu Arg Asn Glu Ala Leu Glu Leu
1 5

<210> 28242
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L348F; B4001

<400> 28242
Arg Glu Leu Asn Glu Ala Phe Glu Leu
1               5


<210> 28243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L348F; A1101

<400> 28243
Glu Leu Asn Glu Ala Phe Glu Leu Lys
1               5


<210> 28244
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.L348F; B4403

<400> 28244
Arg Glu Leu Asn Glu Ala Phe Glu Leu
1               5


<210> 28245
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; A2402

<400> 28245
Thr Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5                   10

<210> 28246
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; A2301

<400> 28246
Thr Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5                   10


<210> 28247
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; B0702

<400> 28247
Ser Pro Ala Leu Asn Lys Thr Phe
1               5


<210> 28248
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; B0702

<400> 28248
Ser Pro Ala Leu Asn Lys Thr Phe Cys Gln Leu
1               5                   10


<210> 28249
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; B3501

<400> 28249
Ser Pro Ala Leu Asn Lys Thr Phe
1               5


<210> 28250
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; B5701

<400> 28250
Thr Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5                   10


<210> 28251
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; C0102

<400> 28251
Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5


<210> 28252
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; B5701

<400> 28252
Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5


<210> 28253
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.M133T; B4403

<400> 28253
Thr Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5                   10


<210> 28254
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; B0801

<400> 28254
Ser Pro Ala Leu Asn Lys Thr Phe
1               5


<210> 28255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; C0202

<400> 28255
Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5


<210> 28256
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; A2402

<400> 28256
Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5


<210> 28257
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M133T; B4402

<400> 28257
Thr Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5                   10


<210> 28258
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.M133T; B1501

<400> 28258
Thr Tyr Ser Pro Ala Leu Asn Lys Thr Phe
1               5                   10


<210> 28259
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246I; A6801

<400> 28259
Asn Ser Ser Cys Met Gly Gly Ile Asn Arg
1               5                   10


<210> 28260
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246I; A6801

<400> 28260
Ser Ser Cys Met Gly Gly Ile Asn Arg
1               5


<210> 28261
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246I; A1101

<400> 28261
Ser Ser Cys Met Gly Gly Ile Asn Arg
1               5


<210> 28262
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246V; A6801

<400> 28262
Asn Ser Ser Cys Met Gly Gly Val Asn Arg
1               5                   10


<210> 28263
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246V; A6801

<400> 28263
Ser Ser Cys Met Gly Gly Val Asn Arg
1               5


<210> 28264
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246V; A3101

<400> 28264
Ser Cys Met Gly Gly Val Asn Arg
1               5


<210> 28265
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246V; A3101

<400> 28265
Ser Ser Cys Met Gly Gly Val Asn Arg
1               5


<210> 28266
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.M246V; A3101

<400> 28266
Ser Cys Met Gly Gly Val Asn Arg Arg

1 5

<210> 28267
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A2402

<400> 28267
Thr Tyr Ser Pro Ala Leu Lys Met Phe
1 5

<210> 28268
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A2301

<400> 28268
Thr Tyr Ser Pro Ala Leu Lys Met Phe
1 5

<210> 28269
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; C0602

<400> 28269
Thr Tyr Ser Pro Ala Leu Lys Met Phe
1 5

<210> 28270
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; C1402

<400> 28270
Thr Tyr Ser Pro Ala Leu Lys Met Phe
1 5

<210> 28271
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A0301

<400> 28271
Cys Thr Tyr Ser Pro Ala Leu Lys
1               5


<210> 28272
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; C1402

<400> 28272
Thr Tyr Ser Pro Ala Leu Lys Met
1               5


<210> 28273
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; B3901

<400> 28273
Thr Tyr Ser Pro Ala Leu Lys Met
1               5


<210> 28274
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A0301

<400> 28274
Cys Thr Tyr Ser Pro Ala Leu Lys Met
1               5


<210> 28275

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A0301

<400> 28275
Val Thr Cys Thr Tyr Ser Pro Ala Leu Lys
1               5                   10


<210> 28276
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A2301

<400> 28276
Thr Tyr Ser Pro Ala Leu Lys Met
1               5


<210> 28277
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A1101

<400> 28277
Val Thr Cys Thr Tyr Ser Pro Ala Leu Lys
1               5                   10


<210> 28278
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131del; A2601

<400> 28278
Thr Tyr Ser Pro Ala Leu Lys Met
1               5


<210> 28279
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A2301

<400> 28279
Thr Tyr Ser Pro Ala Leu Ile Lys Met Phe
1               5                   10


<210> 28280
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A2402

<400> 28280
Thr Tyr Ser Pro Ala Leu Ile Lys Met Phe
1               5                   10


<210> 28281
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A0301

<400> 28281
Cys Thr Tyr Ser Pro Ala Leu Ile Lys
1               5


<210> 28282
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A1101

<400> 28282
Cys Thr Tyr Ser Pro Ala Leu Ile Lys
1               5


<210> 28283
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A2402

<400> 28283
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5


<210> 28284
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A2301

<400> 28284
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5


<210> 28285
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; C1402

<400> 28285
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5


<210> 28286
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; C1203

<400> 28286
Tyr Ser Pro Ala Leu Ile Lys Met Phe
1               5


<210> 28287
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; C0702

<400> 28287
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5


<210> 28288
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; C0602

<400> 28288
Tyr Ser Pro Ala Leu Ile Lys Met Phe
1               5


<210> 28289
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A3303

<400> 28289
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5


<210> 28290
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; A2902

<400> 28290
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5


<210> 28291
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; B0702

<400> 28291

Ser Pro Ala Leu Ile Lys Met Phe
1               5


<210> 28292
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; C0202

<400> 28292
Tyr Ser Pro Ala Leu Ile Lys Met Phe
1               5


<210> 28293
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; B0801

<400> 28293
Ser Pro Ala Leu Ile Lys Met Phe
1               5


<210> 28294
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; C0602

<400> 28294
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5


<210> 28295
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N131I; B3801

<400> 28295
Thr Tyr Ser Pro Ala Leu Ile Lys Met
1               5

<210> 28296
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N239Tfs*8; A2402

<400> 28296
Asn Tyr Met Cys Thr Val Pro Ala Trp
1               5


<210> 28297
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N239Tfs*8; A2301

<400> 28297
Asn Tyr Met Cys Thr Val Pro Ala Trp
1               5


<210> 28298
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N247I; C0602

<400> 28298
Ile Arg Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 28299
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N247I; A1101

<400> 28299
Ser Cys Met Gly Gly Met Ile Arg Arg
1               5

<210> 28300
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A6801

<400> 28300
Thr Pro Ala Pro Leu Pro Ser Gln Arg
1               5


<210> 28301
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A6801

<400> 28301
Thr Thr Pro Ala Pro Leu Pro Ser Gln Arg
1               5                   10


<210> 28302
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; B0702

<400> 28302
Ser Pro Phe Arg Ser Val Gly Val Ser Ala
1               5                   10


<210> 28303
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; C0102

<400> 28303
Ala Leu Pro Thr Thr Pro Ala Pro Leu
1               5


<210> 28304
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; C0102

<400> 28304
Ile Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28305
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A3101

<400> 28305
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28306
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; B5101

<400> 28306
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28307
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; B0702

<400> 28307
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28308
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A6801

<400> 28308
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; B5701

<400> 28309
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28310
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; B0801

<400> 28310
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28311
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A0201

<400> 28311
Ala Leu Pro Thr Thr Pro Ala Pro Leu Pro Ser
1               5                   10


<210> 28312
<211> 8
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.N310Tfs*35; B1302

<400> 28312
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A1101

<400> 28313
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28314
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A0301

<400> 28314
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28315
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A0201

<400> 28315
Ala Leu Pro Thr Thr Pro Ala Pro Leu
1               5


<210> 28316
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; A3101

<400> 28316
Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28317
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.N310Tfs*35; B3501

<400> 28317
Leu Pro Thr Thr Pro Ala Pro Leu
1               5


<210> 28318
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A3101

<400> 28318
Ser Thr His Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28319
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A6801

<400> 28319
Ser Thr His Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28320
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A3303

<400> 28320
Ser Thr His Pro Pro Gly Thr Arg Val Arg

1 5 10

<210> 28321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A3001

<400> 28321
Ser Thr His Pro Pro Gly Thr Arg Val
1 5

<210> 28322
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A1101

<400> 28322
Ser Thr His Pro Pro Gly Thr Arg Val Arg
1 5 10

<210> 28323
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A3101

<400> 28323
Ser Thr His Pro Pro Gly Thr Arg
1 5

<210> 28324
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A6801

<400> 28324
Asp Ser Thr His Pro Pro Gly Thr Arg
1 5

<210> 28325
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A3303

<400> 28325
Ser Thr His Pro Pro Gly Thr Arg
1               5


<210> 28326
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A3303

<400> 28326
Asp Ser Thr His Pro Pro Gly Thr Arg
1               5


<210> 28327
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; C1502

<400> 28327
Ser Thr His Pro Pro Gly Thr Arg Val
1               5


<210> 28328
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A6801

<400> 28328
Asp Ser Thr His Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28329

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; A0301

<400> 28329
Ser Thr His Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28330
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151H; B0702

<400> 28330
Ser Thr His Pro Pro Gly Thr Arg Val
1               5


<210> 28331
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151R; B0702

<400> 28331
Ser Thr Arg Pro Pro Gly Thr Arg Val
1               5


<210> 28332
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151R; B0702

<400> 28332
Arg Pro Pro Gly Thr Arg Val Arg Ala Met
1               5                   10


<210> 28333
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151R; A0301

<400> 28333
Ser Thr Arg Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28334
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151R; C0602

<400> 28334
Thr Arg Pro Pro Gly Thr Arg Val Arg
1               5


<210> 28335
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A6801

<400> 28335
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28336
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; B0702

<400> 28336
Ser Pro Pro Gly Thr Arg Val Arg Ala Met
1               5                   10


<210> 28337
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A6802

<400> 28337
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 28338
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A1101

<400> 28338
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28339
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A6801

<400> 28339
Asp Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28340
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; B5101

<400> 28340
Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 28341
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A6801

<400> 28341
Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5


<210> 28342
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A3303

<400> 28342
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28343
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A3101

<400> 28343
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A6802

<400> 28344
Asp Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5                   10


<210> 28345
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A1101

<400> 28345

Ser Thr Ser Pro Pro Gly Thr Arg Val
1 5

<210> 28346
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A3303

<400> 28346
Thr Ser Pro Pro Gly Thr Arg Val Arg
1 5

<210> 28347
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A6801

<400> 28347
Asp Ser Thr Ser Pro Pro Gly Thr Arg
1 5

<210> 28348
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; C1502

<400> 28348
Ser Thr Ser Pro Pro Gly Thr Arg Val
1 5

<210> 28349
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A3303

<400> 28349
Asp Ser Thr Ser Pro Pro Gly Thr Arg
1 5

<210> 28350
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; B5801

<400> 28350
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 28351
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; B5701

<400> 28351
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28352
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A6802

<400> 28352
Ser Thr Ser Pro Pro Gly Thr Arg Val Arg Ala
1               5                   10


<210> 28353
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; B2702

<400> 28353
Val Asp Ser Thr Ser Pro Pro Gly Thr Arg
1               5                   10

<210> 28354
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; B1302

<400> 28354
Ser Thr Ser Pro Pro Gly Thr Arg Val
1               5


<210> 28355
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151S; A3303

<400> 28355
Asp Ser Thr Ser Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28356
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; A6801

<400> 28356
Thr Thr Pro Pro Gly Thr Arg Val Arg
1               5


<210> 28357
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; A6801

<400> 28357
Ser Thr Thr Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28358
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; A6801

<400> 28358
Asp Ser Thr Thr Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28359
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; A6801

<400> 28359
Asp Ser Thr Thr Pro Pro Gly Thr Arg
1               5


<210> 28360
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; B0702

<400> 28360
Thr Pro Pro Gly Thr Arg Val Arg Ala Met
1               5                   10


<210> 28361
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; A1101

<400> 28361
Ser Thr Thr Pro Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28362
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; A1101

<400> 28362
Thr Thr Pro Pro Gly Thr Arg Val Arg
1               5


<210> 28363
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; B5101

<400> 28363
Thr Thr Pro Pro Gly Thr Arg Val
1               5


<210> 28364
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P151T; A6801

<400> 28364
Val Asp Ser Thr Thr Pro Pro Gly Thr Arg
1               5                   10


<210> 28365
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Afs*14; B0702

<400> 28365
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 28366
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.P152Afs*14; B3501

<400> 28366
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 28367
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Afs*14; B3501

<400> 28367
Ala Pro Trp Pro Ser Thr Ser Ser His Ser Thr
1               5                   10


<210> 28368
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Afs*14; B0702

<400> 28368
Ala Pro Trp Pro Ser Thr Ser Ser His Ser Thr
1               5                   10


<210> 28369
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A6802

<400> 28369
Asp Ser Thr Pro Leu Pro Gly Thr Arg Val
1               5                   10


<210> 28370
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B5101

<400> 28370
Thr Pro Leu Pro Gly Thr Arg Val
1               5


<210> 28371
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B5501

<400> 28371
Thr Pro Leu Pro Gly Thr Arg Val
1               5


<210> 28372
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A6801

<400> 28372
Asp Ser Thr Pro Leu Pro Gly Thr Arg
1               5


<210> 28373
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B5501

<400> 28373
Thr Pro Leu Pro Gly Thr Arg Val Arg Ala
1               5                   10


<210> 28374
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A3301

<400> 28374
Asp Ser Thr Pro Leu Pro Gly Thr Arg

1 5

<210> 28375
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A3303

<400> 28375
Asp Ser Thr Pro Leu Pro Gly Thr Arg
1 5

<210> 28376
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B0702

<400> 28376
Thr Pro Leu Pro Gly Thr Arg Val
1 5

<210> 28377
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A6801

<400> 28377
Asp Ser Thr Pro Leu Pro Gly Thr Arg Val Arg
1 5 10

<210> 28378
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A6801

<400> 28378
Ser Thr Pro Leu Pro Gly Thr Arg Val Arg
1 5 10

<210> 28379
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A3303

<400> 28379
Ser Thr Pro Leu Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28380
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A1101

<400> 28380
Ser Thr Pro Leu Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28381
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B0801

<400> 28381
Leu Pro Gly Thr Arg Val Arg Ala Met
1               5


<210> 28382
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A3303

<400> 28382
Thr Pro Leu Pro Gly Thr Arg Val Arg
1               5


<210> 28383

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B0702

<400> 28383
Leu Pro Gly Thr Arg Val Arg Ala Met
1               5


<210> 28384
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A6801

<400> 28384
Asp Ser Thr Pro Leu Pro Gly Thr Arg Val
1               5                   10


<210> 28385
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B2702

<400> 28385
Val Asp Ser Thr Pro Leu Pro Gly Thr Arg
1               5                   10


<210> 28386
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A3101

<400> 28386
Ser Thr Pro Leu Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28387
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A6802

<400> 28387
Ser Thr Pro Leu Pro Gly Thr Arg Val
1               5


<210> 28388
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A1101

<400> 28388
Ser Thr Pro Leu Pro Gly Thr Arg Val
1               5


<210> 28389
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; B5501

<400> 28389
Thr Pro Leu Pro Gly Thr Arg Val Arg
1               5


<210> 28390
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152L; A3301

<400> 28390
Asp Ser Thr Pro Leu Pro Gly Thr Arg Val Arg
1               5                   10


<210> 28391
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B5501

<400> 28391
Thr Pro Arg Pro Ala Pro Ala Ser Ala
1               5


<210> 28392
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B5502

<400> 28392
Thr Pro Arg Pro Ala Pro Ala Ser Ala
1               5


<210> 28393
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B0702

<400> 28393
Thr Pro Arg Pro Ala Pro Ala Ser Ala
1               5


<210> 28394
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B5502

<400> 28394
Ala Pro Trp Pro Ser Thr Ser Ser His Ser Thr
1               5                   10


<210> 28395
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B0702

<400> 28395
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 28396
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B3906

<400> 28396
Thr Pro Arg Pro Ala Pro Ala Ser Ala
1               5


<210> 28397
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B0702

<400> 28397
Thr Pro Arg Pro Ala Pro Ala Ser Ala Pro
1               5                   10


<210> 28398
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B5501

<400> 28398
Thr Pro Arg Pro Ala Pro Ala Ser Ala Pro
1               5                   10


<210> 28399
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B3501

<400> 28399

Ala Pro Trp Pro Ser Thr Ser Ser His
1 5

<210> 28400
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; A3001

<400> 28400
Val Asp Ser Thr Pro Arg Pro Ala Pro
1 5

<210> 28401
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B5001

<400> 28401
Val Asp Ser Thr Pro Arg Pro Ala Pro
1 5

<210> 28402
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B3501

<400> 28402
Ala Pro Trp Pro Ser Thr Ser Ser His Ser Thr
1 5 10

<210> 28403
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P152Rfs*18; B0702

<400> 28403
Thr Pro Arg Pro Ala Pro Ala Ser Ala Pro Trp
1 5 10

<210> 28404
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; B3801

<400> 28404
Ala His Asp Gly Gly Cys Glu Ala Leu
1               5


<210> 28405
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; B3901

<400> 28405
Ala His Asp Gly Gly Cys Glu Ala Leu
1               5


<210> 28406
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; A3303

<400> 28406
Ser Thr Pro Pro Ala Arg His Pro Arg
1               5


<210> 28407
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; A3101

<400> 28407
Ser Thr Pro Pro Ala Arg His Pro Arg
1               5

<210> 28408
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; A3303

<400> 28408
Asp Ser Thr Pro Pro Ala Arg His Pro Arg
1               5                   10


<210> 28409
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; A6801

<400> 28409
Asp Ser Thr Pro Pro Ala Arg His Pro Arg
1               5                   10


<210> 28410
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; A1101

<400> 28410
Ser Thr Pro Pro Ala Arg His Pro Arg
1               5


<210> 28411
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P153Afs*28; B3503

<400> 28411
Thr Ala His Asp Gly Gly Cys Glu Ala Leu
1               5                   10


<210> 28412
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; B1302

<400> 28412
Gly Leu Ala Leu Pro Gln His Leu Ile
1               5


<210> 28413
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; C0802

<400> 28413
Cys Ser Asp Ser Asp Gly Leu Ala Leu
1               5


<210> 28414
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; B5101

<400> 28414
Leu Pro Gln His Leu Ile Arg Val
1               5


<210> 28415
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; A0201

<400> 28415
Gly Leu Ala Leu Pro Gln His Leu Ile Arg Val
1               5                   10


<210> 28416
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; A0201

<400> 28416
Ala Leu Pro Gln His Leu Ile Arg Val
1               5


<210> 28417
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; A0201

<400> 28417
Gly Leu Ala Leu Pro Gln His Leu Ile
1               5


<210> 28418
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; B5101

<400> 28418
Asp Gly Leu Ala Leu Pro Gln His Leu Ile
1               5                   10


<210> 28419
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190L; B5501

<400> 28419
Leu Pro Gln His Leu Ile Arg Val
1               5


<210> 28420
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.P190T; A0201

<400> 28420
Gly Leu Ala Thr Pro Gln His Leu Ile Arg Val
1               5                   10


<210> 28421
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190T; A0201

<400> 28421
Gly Leu Ala Thr Pro Gln His Leu Ile
1               5


<210> 28422
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190T; B5101

<400> 28422
Asp Gly Leu Ala Thr Pro Gln His Leu Ile
1               5                   10


<210> 28423
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P190T; B5101

<400> 28423
Thr Pro Gln His Leu Ile Arg Val
1               5


<210> 28424
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; B5101

<400> 28424
Asp Gly Leu Ala Pro Gln His Leu Ile
1               5


<210> 28425
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; A0201

<400> 28425
Gly Leu Ala Pro Gln His Leu Ile Arg Val
1               5                   10


<210> 28426
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; B5501

<400> 28426
Ala Pro Gln His Leu Ile Arg Val
1               5


<210> 28427
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; B5101

<400> 28427
Asp Gly Leu Ala Pro Gln His Leu
1               5


<210> 28428
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; B1302

<400> 28428
Gly Leu Ala Pro Gln His Leu Ile

1 5

<210> 28429
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; B5501

<400> 28429
Ala Pro Gln His Leu Ile Arg Val Glu Gly
1 5 10

<210> 28430
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; B4002

<400> 28430
Ser Asp Gly Leu Ala Pro Gln His Leu
1 5

<210> 28431
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P191del; A0301

<400> 28431
Gly Leu Ala Pro Gln His Leu Ile Arg
1 5

<210> 28432
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P250L; A0201

<400> 28432
Arg Leu Ile Leu Thr Ile Ile Thr Leu
1 5

<210> 28433
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P36Rfs*8; A0301

<400> 28433
Asn Val Leu Ser Pro Leu Arg Pro Lys
1               5


<210> 28434
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P36Rfs*8; A3303

<400> 28434
Glu Asn Asn Val Leu Ser Pro Leu Arg
1               5


<210> 28435
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P36Rfs*8; A1101

<400> 28435
Asn Val Leu Ser Pro Leu Arg Pro Lys
1               5


<210> 28436
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P36Rfs*8; B2702

<400> 28436
Leu Pro Glu Asn Asn Val Leu Ser Pro Leu Arg
1               5                   10


<210> 28437

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P36Rfs*8; A0301

<400> 28437
Val Leu Ser Pro Leu Arg Pro Lys
1               5


<210> 28438
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P36Rfs*8; A3301

<400> 28438
Glu Asn Asn Val Leu Ser Pro Leu Arg
1               5


<210> 28439
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P36Rfs*8; B5701

<400> 28439
Val Leu Ser Pro Leu Arg Pro Lys Gln Trp
1               5                   10


<210> 28440
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P4L; B4901

<400> 28440
Glu Glu Leu Gln Ser Asp Pro Ser Val
1               5


<210> 28441
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P4L; A3001

<400> 28441
Glu Glu Leu Gln Ser Asp Pro Ser Val
1               5


<210> 28442
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; C0303

<400> 28442
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28443
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; C0304

<400> 28443
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28444
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B1501

<400> 28444
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28445
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B0702

<400> 28445
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1               5


<210> 28446
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B0702

<400> 28446
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28447
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; A1101

<400> 28447
Ala Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5                   10


<210> 28448
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; A0201

<400> 28448
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28449
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; C1601

<400> 28449
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28450
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B0801

<400> 28450
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28451
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B0702

<400> 28451
Leu Pro Arg Lys Pro Thr Arg Ala Ala Thr Val
1               5                   10


<210> 28452
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B4001

<400> 28452
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28453
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B3501

<400> 28453

Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28454
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; B5701

<400> 28454
Arg Ala Ala Thr Val Ser Val Trp
1               5


<210> 28455
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P75Lfs*48; A0301

<400> 28455
Ala Leu His Gln Gln Leu Leu His Arg
1               5


<210> 28456
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; C0304

<400> 28456
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28457
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B1501

<400> 28457
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5

<210> 28458
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B0702

<400> 28458
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1               5


<210> 28459
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B0702

<400> 28459
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28460
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; A1101

<400> 28460
Ala Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5                   10


<210> 28461
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; A0201

<400> 28461
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5

<210> 28462
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B0801

<400> 28462
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28463
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B0702

<400> 28463
Leu Pro Arg Lys Pro Thr Arg Ala Ala Thr Val
1               5                   10


<210> 28464
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B0702

<400> 28464
Gln Pro Pro Pro Gly Pro Cys His Leu
1               5


<210> 28465
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B3501

<400> 28465
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28466
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P85Lfs*38; B1501

<400> 28466
His Gln Pro Pro Pro Gly Pro Cys His
1               5


<210> 28467
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; C0304

<400> 28467
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28468
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; B0702

<400> 28468
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28469
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; B0702

<400> 28469
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1               5


<210> 28470
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; A1101

<400> 28470
Ser Ser Ser Val Leu Pro Arg Lys
1               5


<210> 28471
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; A1101

<400> 28471
Ala Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5                   10


<210> 28472
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; A0201

<400> 28472
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28473
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; B0801

<400> 28473
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28474
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.P98Lfs*25; B3501

<400> 28474
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28475
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.P98Lfs*25; B0702

<400> 28475
Leu Pro Arg Lys Pro Thr Arg Ala Ala Thr Val
1               5                   10


<210> 28476
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Q136E; B4901

<400> 28476
Cys Glu Leu Ala Lys Thr Cys Pro Val
1               5


<210> 28477
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110L; C1402

<400> 28477
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu
1               5


<210> 28478
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110L; B5701

<400> 28478
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 28479
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110L; A2301

<400> 28479
Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 28480
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110L; A0301

<400> 28480
Gly Ser Tyr Gly Phe Leu Leu Gly Phe Leu
1               5                   10


<210> 28481
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110L; A3101

<400> 28481
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Leu Leu
1               5                   10


<210> 28482
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; A2902

<400> 28482
Gly Ser Tyr Gly Phe Pro Leu Gly Phe

1 5

<210> 28483
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; A1101

<400> 28483
Gly Ser Tyr Gly Phe Pro Leu Gly Phe
1 5

<210> 28484
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; A2402

<400> 28484
Ser Tyr Gly Phe Pro Leu Gly Phe
1 5

<210> 28485
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; C1203

<400> 28485
Gly Ser Tyr Gly Phe Pro Leu Gly Phe
1 5

<210> 28486
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; B5701

<400> 28486
Gly Ser Tyr Gly Phe Pro Leu Gly Phe
1 5

<210> 28487
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; B1501

<400> 28487
Gly Ser Tyr Gly Phe Pro Leu Gly Phe
1               5


<210> 28488
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; A0301

<400> 28488
Gly Ser Tyr Gly Phe Pro Leu Gly Phe
1               5


<210> 28489
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R110P; A0301

<400> 28489
Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Pro
1               5                   10


<210> 28490
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B3501

<400> 28490
Thr Pro Val Arg Ala Met Ala Ile Tyr
1               5


<210> 28491

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A6801

<400> 28491
Ser Thr Pro Pro Pro Gly Thr Pro Val Arg
1               5                   10


<210> 28492
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A6801

<400> 28492
Thr Pro Pro Pro Gly Thr Pro Val Arg
1               5


<210> 28493
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A6801

<400> 28493
Asp Ser Thr Pro Pro Pro Gly Thr Pro Val Arg
1               5                   10


<210> 28494
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B5101

<400> 28494
Thr Pro Pro Pro Gly Thr Pro Val
1               5


<210> 28495
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A1101

<400> 28495
Ser Thr Pro Pro Pro Gly Thr Pro Val Arg
1               5                   10


<210> 28496
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B3501

<400> 28496
Thr Pro Pro Pro Gly Thr Pro Val Arg Ala Met
1               5                   10


<210> 28497
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B5101

<400> 28497
Thr Pro Val Arg Ala Met Ala Ile
1               5


<210> 28498
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; C0102

<400> 28498
Ser Thr Pro Pro Pro Gly Thr Pro Val
1               5


<210> 28499
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B5101

<400> 28499
Thr Pro Pro Pro Gly Thr Pro Val Arg
1               5


<210> 28500
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A2601

<400> 28500
Ser Thr Pro Pro Pro Gly Thr Pro Val
1               5


<210> 28501
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A6801

<400> 28501
Thr Pro Pro Pro Gly Thr Pro Val
1               5


<210> 28502
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B5101

<400> 28502
Ser Thr Pro Pro Pro Gly Thr Pro Val
1               5


<210> 28503
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B0702

<400> 28503
Thr Pro Pro Pro Gly Thr Pro Val Arg Ala Met
1               5                   10


<210> 28504
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B3501

<400> 28504
Thr Pro Pro Pro Gly Thr Pro Val Arg
1               5


<210> 28505
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; B0702

<400> 28505
Ser Thr Pro Pro Pro Gly Thr Pro Val
1               5


<210> 28506
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; C0304

<400> 28506
Ser Thr Pro Pro Pro Gly Thr Pro Val
1               5


<210> 28507
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; C0303

<400> 28507

Ser Thr Pro Pro Pro Gly Thr Pro Val
1 5

<210> 28508
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A1101

<400> 28508
Ser Thr Pro Pro Pro Gly Thr Pro Val Arg Ala
1 5 10

<210> 28509
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R156P; A6801

<400> 28509
Ser Thr Pro Pro Pro Gly Thr Pro Val
1 5

<210> 28510
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158C; A0301

<400> 28510
Arg Val Cys Ala Met Ala Ile Tyr Lys
1 5

<210> 28511
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158C; A1101

<400> 28511
Arg Val Cys Ala Met Ala Ile Tyr Lys
1 5

<210> 28512
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; A0301

<400> 28512
Arg Val Gly Ala Met Ala Ile Tyr Lys
1               5


<210> 28513
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; A1101

<400> 28513
Arg Val Gly Ala Met Ala Ile Tyr Lys
1               5


<210> 28514
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; A0301

<400> 28514
Gly Thr Arg Val Gly Ala Met Ala Ile Tyr Lys
1               5                   10


<210> 28515
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; A1101

<400> 28515
Gly Thr Arg Val Gly Ala Met Ala Ile Tyr Lys
1               5                   10

<210> 28516
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; C0702

<400> 28516
Thr Arg Val Gly Ala Met Ala Ile Tyr
1 5

<210> 28517
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; B0702

<400> 28517
Thr Pro Pro Pro Gly Thr Arg Val Gly Ala Met
1 5 10

<210> 28518
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; B0702

<400> 28518
Thr Pro Pro Pro Gly Thr Arg Val Gly Ala
1 5 10

<210> 28519
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; B0702

<400> 28519
Pro Pro Gly Thr Arg Val Gly Ala Met
1 5

<210> 28520
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; A1101

<400> 28520
Val Gly Ala Met Ala Ile Tyr Lys
1               5


<210> 28521
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; B0702

<400> 28521
Pro Pro Pro Gly Thr Arg Val Gly Ala Met
1               5                   10


<210> 28522
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158G; B3501

<400> 28522
Thr Pro Pro Pro Gly Thr Arg Val Gly Ala Met
1               5                   10


<210> 28523
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158H; A0301

<400> 28523
Arg Val His Ala Met Ala Ile Tyr Lys
1               5


<210> 28524
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158H; B2702

<400> 28524
Thr Arg Val His Ala Met Ala Ile Tyr
1               5


<210> 28525
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158H; A1101

<400> 28525
Arg Val His Ala Met Ala Ile Tyr Lys
1               5


<210> 28526
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158H; B3503

<400> 28526
Thr Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 28527
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158H; A6802

<400> 28527
Ser Thr Pro Pro Pro Gly Thr Arg Val His Ala
1               5                   10


<210> 28528
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.R158H; B3501

<400> 28528
Thr Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 28529
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158H; B0801

<400> 28529
Thr Pro Pro Pro Gly Thr Arg Val His Ala Met
1               5                   10


<210> 28530
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B0702

<400> 28530
Thr Pro Pro Pro Gly Thr Arg Val Leu
1               5


<210> 28531
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B3503

<400> 28531
Thr Pro Pro Pro Gly Thr Arg Val Leu
1               5


<210> 28532
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; A1101

<400> 28532
Arg Val Leu Ala Met Ala Ile Tyr Lys
1               5


<210> 28533
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; A0301

<400> 28533
Arg Val Leu Ala Met Ala Ile Tyr Lys
1               5


<210> 28534
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; C0102

<400> 28534
Thr Pro Pro Pro Gly Thr Arg Val Leu
1               5


<210> 28535
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B2702

<400> 28535
Thr Arg Val Leu Ala Met Ala Ile Tyr
1               5


<210> 28536
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B3501

<400> 28536
Thr Pro Pro Pro Gly Thr Arg Val Leu

1 5

<210> 28537
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B3502

<400> 28537
Thr Pro Pro Pro Gly Thr Arg Val Leu
1 5

<210> 28538
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B5101

<400> 28538
Thr Pro Pro Pro Gly Thr Arg Val Leu
1 5

<210> 28539
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B5502

<400> 28539
Thr Pro Pro Pro Gly Thr Arg Val Leu
1 5

<210> 28540
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; C0102

<400> 28540
Ser Thr Pro Pro Pro Gly Thr Arg Val Leu
1 5 10

<210> 28541
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B5502

<400> 28541
Thr Pro Pro Pro Gly Thr Arg Val Leu Ala
1               5                   10


<210> 28542
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; A6802

<400> 28542
Ser Thr Pro Pro Pro Gly Thr Arg Val Leu Ala
1               5                   10


<210> 28543
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B3801

<400> 28543
Thr Pro Pro Pro Gly Thr Arg Val Leu
1               5


<210> 28544
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B0702

<400> 28544
Pro Pro Pro Gly Thr Arg Val Leu
1               5


<210> 28545

<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158L; B3501

<400> 28545
Thr Pro Pro Pro Gly Thr Arg Val Leu Ala Met
1               5                   10


<210> 28546
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; A1101

<400> 28546
Arg Val Pro Ala Met Ala Ile Tyr Lys
1               5


<210> 28547
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; A0301

<400> 28547
Arg Val Pro Ala Met Ala Ile Tyr Lys
1               5


<210> 28548
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; A0301

<400> 28548
Gly Thr Arg Val Pro Ala Met Ala Ile Tyr Lys
1               5                   10


<210> 28549
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; A1101

<400> 28549
Gly Thr Arg Val Pro Ala Met Ala Ile Tyr Lys
1               5                   10


<210> 28550
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; B0702

<400> 28550
Thr Pro Pro Pro Gly Thr Arg Val Pro Ala
1               5                   10


<210> 28551
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; B3501

<400> 28551
Thr Pro Pro Pro Gly Thr Arg Val Pro Ala Met
1               5                   10


<210> 28552
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; B2705

<400> 28552
Thr Arg Val Pro Ala Met Ala Ile Tyr
1               5


<210> 28553
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; C0702

<400> 28553
Thr Arg Val Pro Ala Met Ala Ile Tyr
1               5


<210> 28554
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R158P; C0602

<400> 28554
Thr Arg Val Pro Ala Met Ala Ile Tyr
1               5


<210> 28555
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R175_R181del; B3801

<400> 28555
Gln His Met Thr Glu Val Val Arg Cys
1               5


<210> 28556
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R175_R181del; A0201

<400> 28556
His Met Thr Glu Val Val Arg Cys
1               5


<210> 28557
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R175G; A0201

<400> 28557
His Met Thr Glu Val Val Arg Gly Cys
1               5


<210> 28558
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R175H; B3801

<400> 28558
Gln His Met Thr Glu Val Val Arg His
1               5


<210> 28559
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R175H; C0803

<400> 28559
His Met Thr Glu Val Val Arg His
1               5


<210> 28560
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R175H; B1510

<400> 28560
Gln His Met Thr Glu Val Val Arg His
1               5


<210> 28561
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R175L; A0201

<400> 28561

His Met Thr Glu Val Val Arg Leu
1 5

<210> 28562
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R175L; B0801

<400> 28562
His Met Thr Glu Val Val Arg Leu
1 5

<210> 28563
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R181H; B3801

<400> 28563
Glu His Cys Ser Asp Ser Asp Gly Leu
1 5

<210> 28564
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R181H; B4001

<400> 28564
His Glu His Cys Ser Asp Ser Asp Gly Leu
1 5 10

<210> 28565
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R181P; B4001

<400> 28565
His Glu Pro Cys Ser Asp Ser Asp Gly Leu
1 5 10

<210> 28566
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196P; B3501

<400> 28566
Ile Pro Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28567
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196P; B5101

<400> 28567
Ile Pro Val Glu Gly Asn Leu Arg Val
1               5


<210> 28568
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196P; A0201

<400> 28568
Gly Leu Ala Pro Pro Gln His Leu Ile Pro Val
1               5                   10


<210> 28569
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196P; A6801

<400> 28569
Ile Pro Val Glu Gly Asn Leu Arg
1               5

<210> 28570
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196P; B1501

<400> 28570
Ile Pro Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28571
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196P; B0702

<400> 28571
Ile Pro Val Glu Gly Asn Leu Arg Val
1               5


<210> 28572
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B1302

<400> 28572
Ile Gln Val Glu Gly Asn Leu Arg Val
1               5


<210> 28573
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A0201

<400> 28573
Gly Leu Ala Pro Pro Gln His Leu Ile Gln Val
1               5                   10


<210> 28574
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B1501

<400> 28574
Ile Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28575
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A0206

<400> 28575
Ile Gln Val Glu Gly Asn Leu Arg Val
1               5


<210> 28576
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A3002

<400> 28576
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28577
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A0205

<400> 28577
Ile Gln Val Glu Gly Asn Leu Arg Val
1               5


<210> 28578
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B5101

<400> 28578
Ala Pro Pro Gln His Leu Ile Gln Val
1               5


<210> 28579
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B5502

<400> 28579
Ala Pro Pro Gln His Leu Ile Gln Val
1               5


<210> 28580
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B3501

<400> 28580
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28581
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B1501

<400> 28581
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28582
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.R196Q; A6802

<400> 28582
Gly Leu Ala Pro Pro Gln His Leu Ile Gln Val
1               5                   10


<210> 28583
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B5801

<400> 28583
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28584
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B0702

<400> 28584
Ala Pro Pro Gln His Leu Ile Gln Val
1               5


<210> 28585
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A0101

<400> 28585
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28586
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; C0302

<400> 28586
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28587
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B1503

<400> 28587
Ile Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28588
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B5501

<400> 28588
Ala Pro Pro Gln His Leu Ile Gln Val
1               5


<210> 28589
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A3002

<400> 28589
Ile Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28590
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A2901

<400> 28590
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr

1 5 10

<210> 28591
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B5001

<400> 28591
Ile Gln Val Glu Gly Asn Leu Arg Val
1 5

<210> 28592
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B3501

<400> 28592
Ile Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1 5 10

<210> 28593
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A6801

<400> 28593
His Leu Ile Gln Val Glu Gly Asn Leu Arg
1 5 10

<210> 28594
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B1502

<400> 28594
Ile Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1 5 10

<210> 28595
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; C1602

<400> 28595
Leu Ala Pro Pro Gln His Leu Ile Gln Val
1               5                   10


<210> 28596
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B1502

<400> 28596
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28597
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B3901

<400> 28597
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28598
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B5701

<400> 28598
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28599

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; A0201

<400> 28599
Ile Gln Val Glu Gly Asn Leu Arg Val
1               5


<210> 28600
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; C0801

<400> 28600
Ile Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28601
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B2702

<400> 28601
Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28602
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R196Q; B1302

<400> 28602
Gly Leu Ala Pro Pro Gln His Leu Ile Gln Val
1               5                   10


<210> 28603
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B4601

<400> 28603
Ile Gln Val Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 28604
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R196Q; B3906

<400> 28604
Gln His Leu Ile Gln Val Glu Gly
1               5


<210> 28605
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; A0201

<400> 28605
Tyr Leu Asp Asp Lys His Phe Ser Thr
1               5


<210> 28606
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; B4403

<400> 28606
Val Glu Tyr Leu Asp Asp Lys His Phe
1               5


<210> 28607
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; B0801

<400> 28607
Tyr Leu Asp Asp Lys His Phe Ser Thr
1               5


<210> 28608
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; C0802

<400> 28608
Tyr Leu Asp Asp Lys His Phe Ser Thr
1               5


<210> 28609
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; A6802

<400> 28609
Tyr Leu Asp Asp Lys His Phe Ser Thr
1               5


<210> 28610
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; A3303

<400> 28610
Glu Tyr Leu Asp Asp Lys His Phe Ser Thr
1               5                   10


<210> 28611
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; B0801

<400> 28611
Leu Asp Asp Lys His Phe Ser Thr
1               5


<210> 28612
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; B4402

<400> 28612
Val Glu Tyr Leu Asp Asp Lys His Phe
1               5


<210> 28613
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; A3303

<400> 28613
Glu Tyr Leu Asp Asp Lys His Phe
1               5


<210> 28614
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; A2301

<400> 28614
Glu Tyr Leu Asp Asp Lys His Phe
1               5


<210> 28615
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; A2301

<400> 28615

Val Glu Tyr Leu Asp Asp Lys His Phe
1               5


<210> 28616
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; B2702

<400> 28616
Leu Arg Val Glu Tyr Leu Asp Asp Lys
1               5


<210> 28617
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R209Kfs*6; A0301

<400> 28617
Tyr Leu Asp Asp Lys His Phe Ser Thr
1               5


<210> 28618
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; A0201

<400> 28618
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5


<210> 28619
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C0802

<400> 28619
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5

<210> 28620
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C0501

<400> 28620
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5


<210> 28621
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C1701

<400> 28621
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5


<210> 28622
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; A6802

<400> 28622
Asn Thr Phe Leu His Ser Val Val Val
1               5


<210> 28623
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C0401

<400> 28623
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5

<210> 28624
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; B1402

<400> 28624
Asn Thr Phe Leu His Ser Val Val
1 5

<210> 28625
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; A2301

<400> 28625
Glu Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1 5 10

<210> 28626
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C1203

<400> 28626
Asn Thr Phe Leu His Ser Val Val Val
1 5

<210> 28627
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; A2902

<400> 28627
Thr Phe Leu His Ser Val Val Val Pro Tyr
1 5 10

<210> 28628
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C0802

<400> 28628
Leu Asp Asp Arg Asn Thr Phe Leu
1               5


<210> 28629
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C0304

<400> 28629
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5


<210> 28630
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; A2402

<400> 28630
Glu Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5                   10


<210> 28631
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C1502

<400> 28631
Arg Asn Thr Phe Leu His Ser Val Val
1               5


<210> 28632
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; B1402

<400> 28632
Asp Arg Asn Thr Phe Leu His Ser Val
1               5


<210> 28633
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C1203

<400> 28633
Asn Thr Phe Leu His Ser Val Val
1               5


<210> 28634
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C1502

<400> 28634
Asn Thr Phe Leu His Ser Val Val Val
1               5


<210> 28635
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; B2702

<400> 28635
Thr Phe Leu His Ser Val Val Val Pro Tyr
1               5                   10


<210> 28636
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.R213L; A2902

<400> 28636
Phe Leu His Ser Val Val Val Pro Tyr
1               5


<210> 28637
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C1502

<400> 28637
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5


<210> 28638
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; B4901

<400> 28638
Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5                   10


<210> 28639
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; A3303

<400> 28639
Glu Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5                   10


<210> 28640
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; B3801

<400> 28640
Tyr Leu Asp Asp Arg Asn Thr Phe Leu
1               5


<210> 28641
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213L; C0602

<400> 28641
Asp Arg Asn Thr Phe Leu His Ser Val
1               5


<210> 28642
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213Q; C1203

<400> 28642
Asn Thr Phe Gln His Ser Val Val Val
1               5


<210> 28643
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213Q; B1501

<400> 28643
Phe Gln His Ser Val Val Val Pro Tyr
1               5


<210> 28644
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213Q; C0202

<400> 28644
Phe Gln His Ser Val Val Val Pro Tyr

1 5

<210> 28645
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213Q; C1203

<400> 28645
Asn Thr Phe Gln His Ser Val Val
1 5

<210> 28646
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R213Q; C0602

<400> 28646
Asp Arg Asn Thr Phe Gln His Ser Val
1 5

<210> 28647
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248G; B5101

<400> 28647
Asn Gly Arg Pro Ile Leu Thr Ile
1 5

<210> 28648
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248G; B0702

<400> 28648
Gly Gly Met Asn Gly Arg Pro Ile Leu
1 5

<210> 28649
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248G; A1101

<400> 28649
Ser Cys Met Gly Gly Met Asn Gly Arg Pro
1               5                   10


<210> 28650
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248L; A3303

<400> 28650
Ser Cys Met Gly Gly Met Asn Leu Arg
1               5


<210> 28651
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248L; A6801

<400> 28651
Ser Cys Met Gly Gly Met Asn Leu Arg
1               5


<210> 28652
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248L; A3101

<400> 28652
Ser Cys Met Gly Gly Met Asn Leu Arg
1               5


<210> 28653

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248L; A1101

<400> 28653
Ser Cys Met Gly Gly Met Asn Leu Arg Pro
1               5                   10


<210> 28654
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; B5101

<400> 28654
Asn Pro Arg Pro Ile Leu Thr Ile
1               5


<210> 28655
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; B5101

<400> 28655
Asn Pro Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 28656
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; B1302

<400> 28656
Gly Met Asn Pro Arg Pro Ile Leu Thr Ile
1               5                   10


<210> 28657
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; B0702

<400> 28657
Asn Pro Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 28658
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; B0702

<400> 28658
Asn Pro Arg Pro Ile Leu Thr Ile Ile Thr Leu
1               5                   10


<210> 28659
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; B0702

<400> 28659
Asn Pro Arg Pro Ile Leu Thr Ile
1               5


<210> 28660
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; A6801

<400> 28660
Ser Cys Met Gly Gly Met Asn Pro Arg
1               5


<210> 28661
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; A1101

<400> 28661
Ser Cys Met Gly Gly Met Asn Pro Arg
1               5


<210> 28662
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248P; B0702

<400> 28662
Gly Gly Met Asn Pro Arg Pro Ile Leu
1               5


<210> 28663
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B1302

<400> 28663
Asn Gln Arg Pro Ile Leu Thr Ile
1               5


<210> 28664
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; A3303

<400> 28664
Ser Cys Met Gly Gly Met Asn Gln Arg
1               5


<210> 28665
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B3906

<400> 28665
Asn Gln Arg Pro Ile Leu Thr Ile
1               5


<210> 28666
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R248Q; A6801

<400> 28666
Ser Cys Met Gly Gly Met Asn Gln Arg
1               5


<210> 28667
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R248Q; B4102

<400> 28667
Gly Gly Met Asn Gln Arg Pro Ile Leu
1               5


<210> 28668
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B1302

<400> 28668
Asn Gln Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 28669
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; A0203

<400> 28669

Asn Gln Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 28670
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B1510

<400> 28670
Gly Gly Met Asn Gln Arg Pro Ile Leu
1               5


<210> 28671
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; A3101

<400> 28671
Ser Cys Met Gly Gly Met Asn Gln Arg
1               5


<210> 28672
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; A1101

<400> 28672
Ser Cys Met Gly Gly Met Asn Gln Arg
1               5


<210> 28673
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B1302

<400> 28673
Gly Met Asn Gln Arg Pro Ile Leu Thr Ile
1               5                   10

<210> 28674
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B3906

<400> 28674
Asn Gln Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 28675
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; A1101

<400> 28675
Ser Cys Met Gly Gly Met Asn Gln Arg Pro
1               5                   10


<210> 28676
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B5101

<400> 28676
Asn Gln Arg Pro Ile Leu Thr Ile
1               5


<210> 28677
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R248Q; B4002

<400> 28677
Gly Gly Met Asn Gln Arg Pro Ile Leu
1               5

<210> 28678
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R248Q; B0702

<400> 28678
Gly Gly Met Asn Gln Arg Pro Ile Leu
1               5


<210> 28679
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R248Q; A3301

<400> 28679
Ser Cys Met Gly Gly Met Asn Gln Arg
1               5


<210> 28680
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R248Q; A6801

<400> 28680
Ser Ser Cys Met Gly Gly Met Asn Gln Arg
1               5                   10


<210> 28681
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R248Q; A3001

<400> 28681
Asn Gln Arg Pro Ile Leu Thr Ile Ile
1               5


<210> 28682
<211> 10

<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R248Q; A0203

<400> 28682
Gly Met Asn Gln Arg Pro Ile Leu Thr Ile
1               5                   10


<210> 28683
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<212> PRT
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<220>
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<400> 28683
Asn Gln Arg Pro Ile Leu Thr Ile
1               5


<210> 28684
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249G; C0602

<400> 28684
Asn Arg Gly Pro Ile Leu Thr Ile Ile
1               5


<210> 28685
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249G; B0702

<400> 28685
Gly Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28686
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249G; C0602

<400> 28686
Asn Arg Gly Pro Ile Leu Thr Ile
1               5


<210> 28687
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249G; B3501

<400> 28687
Gly Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28688
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249G; B5101

<400> 28688
Gly Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28689
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249K; B0702

<400> 28689
Lys Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28690
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.R249K; C0602

<400> 28690
Asn Arg Lys Pro Ile Leu Thr Ile Ile
1               5


<210> 28691
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249K; B3503

<400> 28691
Lys Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28692
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249K; B5501

<400> 28692
Lys Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28693
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249K; B3501

<400> 28693
Lys Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28694
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249K; A1101

<400> 28694
Ser Cys Met Gly Gly Met Asn Arg Lys
1               5


<210> 28695
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249K; B1402

<400> 28695
Asn Arg Lys Pro Ile Leu Thr Ile
1               5


<210> 28696
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249K; B5101

<400> 28696
Lys Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28697
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249M; B3503

<400> 28697
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28698
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; B3501

<400> 28698
Met Pro Ile Leu Thr Ile Ile Thr Leu

1 5

<210> 28699
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; B3502

<400> 28699
Met Pro Ile Leu Thr Ile Ile Thr Leu
1 5

<210> 28700
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; B5101

<400> 28700
Met Pro Ile Leu Thr Ile Ile Thr Leu
1 5

<210> 28701
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; C0602

<400> 28701
Asn Arg Met Pro Ile Leu Thr Ile Ile
1 5

<210> 28702
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; B0702

<400> 28702
Met Pro Ile Leu Thr Ile Ile Thr Leu
1 5

<210> 28703
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; B5501

<400> 28703
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28704
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249M; B0801

<400> 28704
Met Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28705
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; B1302

<400> 28705
Gly Met Asn Arg Met Pro Ile Leu Thr Ile
1               5                   10


<210> 28706
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; C0602

<400> 28706
Asn Arg Met Pro Ile Leu Thr Ile
1               5


<210> 28707

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249M; B2705

<400> 28707
Asn Arg Met Pro Ile Leu Thr Ile Ile
1               5


<210> 28708
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; B3503

<400> 28708
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28709
<211> 9
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<220>
<223> AACR GENIE Results; TP53_p.R249S; C0602

<400> 28709
Asn Arg Ser Pro Ile Leu Thr Ile Ile
1               5


<210> 28710
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; B0702

<400> 28710
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28711
<211> 9
<212> PRT

<213> Homo sapiens

<220>
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<400> 28711
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28712
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; B1302

<400> 28712
Gly Met Asn Arg Ser Pro Ile Leu Thr Ile
1               5                   10


<210> 28713
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; B5501

<400> 28713
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28714
<211> 9
<212> PRT
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<220>
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<400> 28714
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28715
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; C0602

<400> 28715
Asn Arg Ser Pro Ile Leu Thr Ile
1               5


<210> 28716
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; B3801

<400> 28716
Asn Arg Ser Pro Ile Leu Thr Ile Ile
1               5


<210> 28717
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249S; B2705

<400> 28717
Asn Arg Ser Pro Ile Leu Thr Ile Ile
1               5


<210> 28718
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; B0801

<400> 28718
Ser Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28719
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249S; A0201

<400> 28719
Gly Gly Met Asn Arg Ser Pro Ile Leu
1               5


<210> 28720
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249T; B3501

<400> 28720
Thr Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28721
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249T; B0702

<400> 28721
Thr Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28722
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249T; C0602

<400> 28722
Asn Arg Thr Pro Ile Leu Thr Ile Ile
1               5


<210> 28723
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249T; B5101

<400> 28723

Thr Pro Ile Leu Thr Ile Ile Thr Leu
1 5

<210> 28724
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249T; B0801

<400> 28724
Thr Pro Ile Leu Thr Ile Ile Thr Leu
1 5

<210> 28725
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249T; A0201

<400> 28725
Gly Gly Met Asn Arg Thr Pro Ile Leu
1 5

<210> 28726
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R249W; C0602

<400> 28726
Asn Arg Trp Pro Ile Leu Thr Ile Ile
1 5

<210> 28727
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249W; B3501

<400> 28727
Trp Pro Ile Leu Thr Ile Ile Thr Leu
1 5

<210> 28728
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R249W; B5101

<400> 28728
Trp Pro Ile Leu Thr Ile Ile Thr Leu
1               5


<210> 28729
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R267L; A0201

<400> 28729
Gly Leu Asn Ser Phe Glu Val Arg Val
1               5


<210> 28730
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R267L; A0201

<400> 28730
Asn Leu Leu Gly Leu Asn Ser Phe Glu Val
1               5                   10


<210> 28731
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267L; A0201

<400> 28731
Gly Leu Asn Ser Phe Glu Val Arg Val Cys
1               5                   10

<210> 28732
<211> 9
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<220>
<223> AACR GENIE Results; TP53_p.R267P; A0201

<400> 28732
Leu Leu Gly Pro Asn Ser Phe Glu Val
1               5


<210> 28733
<211> 10
<212> PRT
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<220>
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<400> 28733
Asn Leu Leu Gly Pro Asn Ser Phe Glu Val
1               5                   10


<210> 28734
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267P; B1302

<400> 28734
Gly Pro Asn Ser Phe Glu Val Arg Val
1               5


<210> 28735
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R267P; A0201

<400> 28735
Leu Leu Gly Pro Asn Ser Phe Glu Val Arg Val
1               5                   10


<210> 28736
<211> 9

<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267P; B1302

<400> 28736
Leu Leu Gly Pro Asn Ser Phe Glu Val
1               5


<210> 28737
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R267P; B5101

<400> 28737
Gly Pro Asn Ser Phe Glu Val Arg Val
1               5


<210> 28738
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267P; B0702

<400> 28738
Gly Pro Asn Ser Phe Glu Val Arg Val
1               5


<210> 28739
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267W; B4403

<400> 28739
Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly Trp
1               5                   10


<210> 28740
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267W; B4402

<400> 28740
Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly Trp
1               5                   10


<210> 28741
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267W; B4403

<400> 28741
Glu Asp Ser Ser Gly Asn Leu Leu Gly Trp
1               5                   10


<210> 28742
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267W; B5701

<400> 28742
Asp Ser Ser Gly Asn Leu Leu Gly Trp
1               5


<210> 28743
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R267W; A6801

<400> 28743
Asp Ser Ser Gly Asn Leu Leu Gly Trp
1               5


<210> 28744
<211> 10
<212> PRT
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<220>

<223> AACR GENIE Results; TP53_p.R267W; B4402

<400> 28744
Glu Asp Ser Ser Gly Asn Leu Leu Gly Trp
1               5                   10


<210> 28745
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267W; B5701

<400> 28745
Ser Ser Gly Asn Leu Leu Gly Trp
1               5


<210> 28746
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267W; A0201

<400> 28746
Asn Leu Leu Gly Trp Asn Ser Phe Glu Val
1               5                   10


<210> 28747
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R267W; A0201

<400> 28747
Leu Leu Gly Trp Asn Ser Phe Glu Val
1               5


<210> 28748
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273C; B2705

<400> 28748
Gly Arg Asn Ser Phe Glu Val Cys Val
1               5


<210> 28749
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273C; B3906

<400> 28749
Gly Arg Asn Ser Phe Glu Val Cys Val
1               5


<210> 28750
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273C; B3906

<400> 28750
Asn Ser Phe Glu Val Cys Val Cys Ala
1               5


<210> 28751
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273C; B3906

<400> 28751
Asn Ser Phe Glu Val Cys Val Cys
1               5


<210> 28752
<211> 9
<212> PRT
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<220>
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<400> 28752
Asn Ser Phe Glu Val Cys Val Cys Ala

1 5

<210> 28753
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273H; B2705

<400> 28753
Gly Arg Asn Ser Phe Glu Val His Val
1 5

<210> 28754
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273H; B3906

<400> 28754
Asn Ser Phe Glu Val His Val Cys Ala
1 5

<210> 28755
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273H; B3906

<400> 28755
Asn Ser Phe Glu Val His Val Cys
1 5

<210> 28756
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273H; A6802

<400> 28756
Asn Ser Phe Glu Val His Val Cys Ala
1 5

<210> 28757
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273H; A0205

<400> 28757
Asn Ser Phe Glu Val His Val Cys Ala
1               5


<210> 28758
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273H; B3906

<400> 28758
Gly Arg Asn Ser Phe Glu Val His Val
1               5


<210> 28759
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273H; C1203

<400> 28759
Asn Ser Phe Glu Val His Val Cys
1               5


<210> 28760
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273H; C0602

<400> 28760
Gly Arg Asn Ser Phe Glu Val His Val
1               5


<210> 28761

<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273H; B4002

<400> 28761
Asn Ser Phe Glu Val His Val Cys
1               5


<210> 28762
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273H; B5001

<400> 28762
Phe Glu Val His Val Cys Ala Cys Pro
1               5


<210> 28763
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273H; A6801

<400> 28763
Asn Ser Phe Glu Val His Val Cys Ala
1               5


<210> 28764
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273L; B3906

<400> 28764
Asn Ser Phe Glu Val Leu Val Cys Ala
1               5


<210> 28765
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273L; A0205

<400> 28765
Asn Ser Phe Glu Val Leu Val Cys Ala
1               5


<210> 28766
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273L; A6802

<400> 28766
Asn Ser Phe Glu Val Leu Val Cys Ala
1               5


<210> 28767
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273L; A0206

<400> 28767
Asn Ser Phe Glu Val Leu Val Cys Ala
1               5


<210> 28768
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273L; B2705

<400> 28768
Gly Arg Asn Ser Phe Glu Val Leu Val
1               5


<210> 28769
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.R273L; B5001

<400> 28769
Phe Glu Val Leu Val Cys Ala Cys Pro
1               5


<210> 28770
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273L; B3906

<400> 28770
Asn Ser Phe Glu Val Leu Val Cys
1               5


<210> 28771
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273L; B5001

<400> 28771
Asn Ser Phe Glu Val Leu Val Cys Ala
1               5


<210> 28772
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273L; C0602

<400> 28772
Gly Arg Asn Ser Phe Glu Val Leu Val
1               5


<210> 28773
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273L; B4002

<400> 28773
Phe Glu Val Leu Val Cys Ala Cys
1               5


<210> 28774
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273L; B1801

<400> 28774
Phe Glu Val Leu Val Cys Ala Cys
1               5


<210> 28775
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273P; B2705

<400> 28775
Gly Arg Asn Ser Phe Glu Val Pro Val
1               5


<210> 28776
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273P; B5101

<400> 28776
Asn Ser Phe Glu Val Pro Val Cys
1               5


<210> 28777
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273P; A6801

<400> 28777

Asn Ser Phe Glu Val Pro Val Cys Ala
1 5

<210> 28778
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273P; C1203

<400> 28778
Asn Ser Phe Glu Val Pro Val Cys
1 5

<210> 28779
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273P; B1801

<400> 28779
Phe Glu Val Pro Val Cys Ala Cys
1 5

<210> 28780
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273S; B2705

<400> 28780
Gly Arg Asn Ser Phe Glu Val Ser Val
1 5

<210> 28781
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273S; C0602

<400> 28781
Gly Arg Asn Ser Phe Glu Val Ser Val
1 5

<210> 28782
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273S; C1203

<400> 28782
Asn Ser Phe Glu Val Ser Val Cys
1               5


<210> 28783
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273S; A6801

<400> 28783
Asn Ser Phe Glu Val Ser Val Cys Ala
1               5


<210> 28784
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R273S; B1302

<400> 28784
Gly Arg Asn Ser Phe Glu Val Ser Val
1               5


<210> 28785
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A6801

<400> 28785
Thr Pro Ala Pro Leu Pro Ser Gln Arg
1               5

<210> 28786
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A6801

<400> 28786
Thr Thr Pro Ala Pro Leu Pro Ser Gln Arg
1               5                   10


<210> 28787
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; B0702

<400> 28787
Ser Pro Phe Arg Ser Val Gly Val Ser Ala
1               5                   10


<210> 28788
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; C0102

<400> 28788
Ile Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28789
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A3101

<400> 28789
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28790
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; B5101

<400> 28790
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28791
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; B0702

<400> 28791
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28792
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A6801

<400> 28792
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28793
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; B5701

<400> 28793
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28794
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; B0801

<400> 28794
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28795
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; B1302

<400> 28795
Ser Pro Phe Arg Ser Val Gly Val
1               5


<210> 28796
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A1101

<400> 28796
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28797
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A3001

<400> 28797
Met Glu Asn Ile Ser Pro Phe Arg Ser Val
1               5                   10


<210> 28798
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.R280Efs*65; A0301

<400> 28798
Arg Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28799
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; B0702

<400> 28799
Arg Ile Ser Ala Arg Lys Gly Ser Leu
1               5


<210> 28800
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A6801

<400> 28800
Thr Pro Ala Pro Leu Pro Ser Gln Arg Arg
1               5                   10


<210> 28801
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R280Efs*65; A3101

<400> 28801
Ser Val Gly Val Ser Ala Ser Arg
1               5


<210> 28802
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R283P; A0101

<400> 28802
Pro Thr Glu Glu Glu Asn Leu Arg Lys
1               5


<210> 28803
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R283P; A3101

<400> 28803
Arg Asp Arg Pro Thr Glu Glu Glu Asn Leu Arg
1               5                   10


<210> 28804
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R283P; A3001

<400> 28804
Arg Asp Arg Pro Thr Glu Glu Glu Asn Leu
1               5                   10


<210> 28805
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R290H; A1101

<400> 28805
Arg Thr Glu Glu Glu Asn Leu His Lys Lys
1               5                   10


<210> 28806
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R290H; A1101

<400> 28806
Arg Thr Glu Glu Glu Asn Leu His Lys

1 5

<210> 28807
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R290H; A0301

<400> 28807
Arg Thr Glu Glu Glu Asn Leu His Lys Lys
1 5 10

<210> 28808
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R337L; A6802

<400> 28808
Glu Leu Phe Glu Met Phe Arg Glu Leu
1 5

<210> 28809
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.R337L; B5701

<400> 28809
Arg Gly Arg Glu Leu Phe Glu Met Phe
1 5

<210> 28810
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; B5701

<400> 28810
Lys Thr Tyr Gln Gly Arg Tyr Gly Phe
1 5

<210> 28811
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; A3201

<400> 28811
Lys Thr Tyr Gln Gly Arg Tyr Gly Phe
1               5


<210> 28812
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; B1501

<400> 28812
Ser Gln Lys Thr Tyr Gln Gly Arg Tyr
1               5


<210> 28813
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; C0602

<400> 28813
Gly Arg Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 28814
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; B2705

<400> 28814
Gly Arg Tyr Gly Phe Arg Leu Gly Phe
1               5


<210> 28815

<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; A2301

<400> 28815
Thr Tyr Gln Gly Arg Tyr Gly Phe
1               5


<210> 28816
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; A3101

<400> 28816
Lys Thr Tyr Gln Gly Arg Tyr Gly Phe
1               5


<210> 28817
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; C1601

<400> 28817
Lys Thr Tyr Gln Gly Arg Tyr Gly Phe
1               5


<210> 28818
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S106R; A3101

<400> 28818
Lys Thr Tyr Gln Gly Arg Tyr Gly Phe Arg
1               5                   10


<210> 28819
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A1101

<400> 28819
Cys Thr Tyr Phe Pro Ala Leu Asn Lys
1               5


<210> 28820
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A0301

<400> 28820
Cys Thr Tyr Phe Pro Ala Leu Asn Lys
1               5


<210> 28821
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; C1402

<400> 28821
Tyr Phe Pro Ala Leu Asn Lys Met Phe
1               5


<210> 28822
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A2301

<400> 28822
Thr Tyr Phe Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 28823
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A2402

<400> 28823
Thr Tyr Phe Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 28824
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; C1402

<400> 28824
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 28825
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A2402

<400> 28825
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 28826
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A2301

<400> 28826
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 28827
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; C0303

<400> 28827
Val Thr Cys Thr Tyr Phe Pro Ala Leu
1               5


<210> 28828
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; C1402

<400> 28828
Tyr Phe Pro Ala Leu Asn Lys Met
1               5


<210> 28829
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; C1402

<400> 28829
Thr Tyr Phe Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 28830
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; B5701

<400> 28830
Thr Ala Lys Ser Val Thr Cys Thr Tyr Phe
1               5                   10


<210> 28831
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.S127F; A2301

<400> 28831

Tyr Phe Pro Ala Leu Asn Lys Met Phe
1 5

<210> 28832
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.S127F; C0602

<400> 28832
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1 5

<210> 28833
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.S127F; B3501

<400> 28833
Phe Pro Ala Leu Asn Lys Met Phe
1 5

<210> 28834
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A3303

<400> 28834
Thr Tyr Phe Pro Ala Leu Asn Lys
1 5

<210> 28835
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A3303

<400> 28835
Thr Tyr Phe Pro Ala Leu Asn Lys Met
1 5

<210> 28836
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127F; A3101

<400> 28836
Thr Ala Lys Ser Val Thr Cys Thr Tyr Phe
1               5                   10


<210> 28837
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; A0301

<400> 28837
Cys Thr Tyr Tyr Pro Ala Leu Asn Lys
1               5


<210> 28838
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; A1101

<400> 28838
Cys Thr Tyr Tyr Pro Ala Leu Asn Lys
1               5


<210> 28839
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; A2402

<400> 28839
Thr Tyr Tyr Pro Ala Leu Asn Lys Met Phe
1               5                   10

<210> 28840
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; A2402

<400> 28840
Tyr Tyr Pro Ala Leu Asn Lys Met Phe
1               5


<210> 28841
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; A2402

<400> 28841
Thr Tyr Tyr Pro Ala Leu Asn Lys Met
1               5


<210> 28842
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; A0101

<400> 28842
Gly Thr Ala Lys Ser Val Thr Cys Thr Tyr Tyr
1               5                   10


<210> 28843
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; B1501

<400> 28843
Thr Ala Lys Ser Val Thr Cys Thr Tyr Tyr
1               5                   10


<210> 28844
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; B0702

<400> 28844
Thr Tyr Tyr Pro Ala Leu Asn Lys Met
1               5


<210> 28845
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; C0702

<400> 28845
Tyr Tyr Pro Ala Leu Asn Lys Met Phe
1               5


<210> 28846
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; B3501

<400> 28846
Tyr Pro Ala Leu Asn Lys Met Phe
1               5


<210> 28847
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; C0602

<400> 28847
Tyr Tyr Pro Ala Leu Asn Lys Met Phe
1               5


<210> 28848
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; C0602

<400> 28848
Thr Tyr Tyr Pro Ala Leu Asn Lys Met
1               5


<210> 28849
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; A0301

<400> 28849
Thr Tyr Tyr Pro Ala Leu Asn Lys
1               5


<210> 28850
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; C0702

<400> 28850
Thr Tyr Tyr Pro Ala Leu Asn Lys Met
1               5


<210> 28851
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S127Y; B0801

<400> 28851
Tyr Pro Ala Leu Asn Lys Met Phe
1               5


<210> 28852
<211> 10
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.S127Y; C0202

<400> 28852
Thr Ala Lys Ser Val Thr Cys Thr Tyr Tyr
1               5                   10


<210> 28853
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215G; C0702

<400> 28853
Phe Arg His Gly Val Val Val Pro Tyr
1               5


<210> 28854
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215G; C1203

<400> 28854
Asn Thr Phe Arg His Gly Val Val Val
1               5


<210> 28855
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215G; C0602

<400> 28855
Phe Arg His Gly Val Val Val Pro Tyr
1               5


<210> 28856
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215I; C1203

<400> 28856
Asn Thr Phe Arg His Ile Val Val Val
1               5


<210> 28857
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215I; C1203

<400> 28857
Asn Thr Phe Arg His Ile Val Val
1               5


<210> 28858
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215I; C1502

<400> 28858
Asn Thr Phe Arg His Ile Val Val Val
1               5


<210> 28859
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215I; C1502

<400> 28859
Arg Asn Thr Phe Arg His Ile Val Val
1               5


<210> 28860
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S215I; C0702

<400> 28860
Phe Arg His Ile Val Val Val Pro Tyr

1 5

<210> 28861
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241F; C1402

<400> 28861
His Tyr Asn Tyr Met Cys Asn Ser Phe
1 5

<210> 28862
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241F; A6801

<400> 28862
Asn Ser Phe Cys Met Gly Gly Met Asn Arg
1 5 10

<210> 28863
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241F; A2402

<400> 28863
His Tyr Asn Tyr Met Cys Asn Ser Phe
1 5

<210> 28864
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241F; A3303

<400> 28864
Phe Cys Met Gly Gly Met Asn Arg
1 5

<210> 28865
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241F; A3303

<400> 28865
Ser Phe Cys Met Gly Gly Met Asn Arg
1               5


<210> 28866
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241F; A2301

<400> 28866
His Tyr Asn Tyr Met Cys Asn Ser Phe
1               5


<210> 28867
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241T; A1101

<400> 28867
Ser Thr Cys Met Gly Gly Met Asn Arg
1               5


<210> 28868
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S241Y; A6801

<400> 28868
Asn Ser Tyr Cys Met Gly Gly Met Asn Arg
1               5                   10


<210> 28869

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B5501

<400> 28869
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1               5


<210> 28870
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B0702

<400> 28870
Ala Pro Ala Pro Pro Gly Pro Cys His Leu
1               5                   10


<210> 28871
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; A3001

<400> 28871
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28872
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; C0303

<400> 28872
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28873
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B0702

<400> 28873
Ala Pro Ala Pro Pro Gly Pro Cys His
1               5


<210> 28874
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; C0304

<400> 28874
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28875
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B2702

<400> 28875
Thr Arg Ala Ala Thr Val Ser Val Trp
1               5


<210> 28876
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B1501

<400> 28876
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28877
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B0702

<400> 28877
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1               5


<210> 28878
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B0702

<400> 28878
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28879
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; A1101

<400> 28879
Ala Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5                   10


<210> 28880
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; A0201

<400> 28880
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28881
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; C1601

<400> 28881
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28882
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B5501

<400> 28882
Leu Pro Arg Lys Pro Thr Arg Ala Ala Thr Val
1               5                   10


<210> 28883
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B0801

<400> 28883
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28884
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B3501

<400> 28884
Ala Pro Ala Pro Pro Gly Pro Cys His
1               5


<210> 28885
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B1302

<400> 28885

Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28886
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B0702

<400> 28886
Leu Pro Arg Lys Pro Thr Arg Ala Ala Thr Val
1               5                   10


<210> 28887
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B4001

<400> 28887
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28888
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B0702

<400> 28888
Ala Pro Pro Gly Pro Cys His Leu Leu
1               5


<210> 28889
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B3801

<400> 28889
Thr Arg Ala Ala Thr Val Ser Val Trp
1               5

<210> 28890
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B3501

<400> 28890
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 28891
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.S90Pfs*33; B5701

<400> 28891
Arg Ala Ala Thr Val Ser Val Trp
1               5


<210> 28892
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A0201

<400> 28892
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28893
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B1302

<400> 28893
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5

<210> 28894
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3901

<400> 28894
Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28895
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0304

<400> 28895
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28896
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0102

<400> 28896
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28897
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3503

<400> 28897
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28898
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A3001

<400> 28898
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28899
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3901

<400> 28899
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28900
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0303

<400> 28900
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28901
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B1501

<400> 28901
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28902
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3801

<400> 28902
Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28903
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B0801

<400> 28903
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28904
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3801

<400> 28904
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28905
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B4002

<400> 28905
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28906
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.T118Qfs*5; C1701

<400> 28906
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28907
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B5001

<400> 28907
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28908
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A6802

<400> 28908
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28909
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3502

<400> 28909
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28910
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B5801

<400> 28910
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28911
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3501

<400> 28911
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28912
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C1402

<400> 28912
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28913
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0202

<400> 28913
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28914
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B0702

<400> 28914
Phe Leu His Ser Gly Gln Pro Ser Leu

1 5

<210> 28915
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0802

<400> 28915
Phe Leu His Ser Gly Gln Pro Ser Leu
1 5

<210> 28916
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0704

<400> 28916
Phe Leu His Ser Gly Gln Pro Ser Leu
1 5

<210> 28917
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C1502

<400> 28917
Phe Leu His Ser Gly Gln Pro Ser Leu
1 5

<210> 28918
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B4001

<400> 28918
Phe Leu His Ser Gly Gln Pro Ser Leu
1 5

<210> 28919
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B4002

<400> 28919
Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28920
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C1601

<400> 28920
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28921
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A2301

<400> 28921
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28922
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B2705

<400> 28922
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28923

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A0301

<400> 28923
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28924
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0401

<400> 28924
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28925
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B2705

<400> 28925
Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28926
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C0501

<400> 28926
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28927
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A3101

<400> 28927
Gly Phe Leu His Ser Gly Gln Pro Ser Leu
1               5                   10


<210> 28928
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A2902

<400> 28928
Gly Phe Leu His Ser Gly Gln Pro Ser Leu
1               5                   10


<210> 28929
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A2301

<400> 28929
Gly Phe Leu His Ser Gly Gln Pro Ser Leu
1               5                   10


<210> 28930
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A2402

<400> 28930
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28931
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A2601

<400> 28931
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28932
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C1203

<400> 28932
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28933
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B4002

<400> 28933
Gly Phe Leu His Ser Gly Gln Pro Ser Leu
1               5                   10


<210> 28934
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A6801

<400> 28934
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28935
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A2902

<400> 28935
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28936
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B0702

<400> 28936
Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28937
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B5701

<400> 28937
Phe Leu His Ser Gly Gln Pro Ser Leu
1               5


<210> 28938
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; A3001

<400> 28938
Gly Phe Leu His Ser Gly Gln Pro Ser Leu
1               5                   10


<210> 28939
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B3503

<400> 28939

Leu His Ser Gly Gln Pro Ser Leu
1 5

<210> 28940
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; C1402

<400> 28940
Gly Phe Leu His Ser Gly Gln Pro Ser Leu
1 5 10

<210> 28941
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B1402

<400> 28941
Phe Leu His Ser Gly Gln Pro Ser Leu
1 5

<210> 28942
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T118Qfs*5; B5101

<400> 28942
Phe Leu His Ser Gly Gln Pro Ser Leu
1 5

<210> 28943
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; B1501

<400> 28943
Thr Ala Lys Ser Val Thr Cys Lys Tyr
1 5

<210> 28944
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A2402

<400> 28944
Lys Tyr Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 28945
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A1101

<400> 28945
Gly Thr Ala Lys Ser Val Thr Cys Lys
1               5


<210> 28946
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; C0202

<400> 28946
Thr Ala Lys Ser Val Thr Cys Lys Tyr
1               5


<210> 28947
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A2402

<400> 28947
Lys Tyr Ser Pro Ala Leu Asn Lys Met
1               5

<210> 28948
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A0301

<400> 28948
Gly Thr Ala Lys Ser Val Thr Cys Lys
1               5


<210> 28949
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; B3501

<400> 28949
Thr Ala Lys Ser Val Thr Cys Lys Tyr
1               5


<210> 28950
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A0301

<400> 28950
Thr Cys Lys Tyr Ser Pro Ala Leu Asn Lys
1               5                   10


<210> 28951
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; C0602

<400> 28951
Lys Tyr Ser Pro Ala Leu Asn Lys Met
1               5


<210> 28952
<211> 10

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; B1501

<400> 28952
Gly Thr Ala Lys Ser Val Thr Cys Lys Tyr
1               5                   10


<210> 28953
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A2601

<400> 28953
Thr Ala Lys Ser Val Thr Cys Lys Tyr
1               5


<210> 28954
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A0301

<400> 28954
Gly Thr Ala Lys Ser Val Thr Cys Lys Tyr
1               5                   10


<210> 28955
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T125K; A2601

<400> 28955
Gly Thr Ala Lys Ser Val Thr Cys Lys Tyr
1               5                   10


<210> 28956
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B5501

<400> 28956
Ile Pro His Pro Arg Pro Ala Pro Ala
1               5


<210> 28957
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B5501

<400> 28957
His Pro Arg Pro Ala Pro Ala Ser Ala
1               5


<210> 28958
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B5501

<400> 28958
Ile Pro His Pro Arg Pro Ala Pro
1               5


<210> 28959
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B0702

<400> 28959
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 28960
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.T140Pfs*30; A3303

<400> 28960
Ser Cys Gly Leu Ile Pro His Pro Arg
1               5


<210> 28961
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B0702

<400> 28961
His Pro Arg Pro Ala Pro Ala Ser Ala
1               5


<210> 28962
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B0801

<400> 28962
Ile Pro His Pro Arg Pro Ala Pro Ala
1               5


<210> 28963
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; A0201

<400> 28963
Gly Leu Ile Pro His Pro Arg Pro Ala
1               5


<210> 28964
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; A0201

<400> 28964
Leu Ile Pro His Pro Arg Pro Ala Pro Ala
1               5                   10


<210> 28965
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B3501

<400> 28965
Ala Pro Trp Pro Ser Thr Ser Ser His
1               5


<210> 28966
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B0702

<400> 28966
Ile Pro His Pro Arg Pro Ala Pro Ala
1               5


<210> 28967
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; A3101

<400> 28967
Ser Cys Gly Leu Ile Pro His Pro Arg
1               5


<210> 28968
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B0702

<400> 28968
Ile Pro His Pro Arg Pro Ala Pro

1 5

<210> 28969
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; A0201

<400> 28969
Ile Pro His Pro Arg Pro Ala Pro Ala
1 5

<210> 28970
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T140Pfs*30; B3501

<400> 28970
Ala Pro Trp Pro Ser Thr Ser Ser His Ser Thr
1 5 10

<210> 28971
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; B5101

<400> 28971
Thr Pro Pro Pro Gly Ile Arg Val
1 5

<210> 28972
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; A1101

<400> 28972
Ser Thr Pro Pro Pro Gly Ile Arg Val Arg
1 5 10

<210> 28973
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; A6801

<400> 28973
Asp Ser Thr Pro Pro Pro Gly Ile Arg Val Arg
1               5                   10


<210> 28974
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; B5101

<400> 28974
Asp Ser Thr Pro Pro Pro Gly Ile
1               5


<210> 28975
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; A6801

<400> 28975
Ser Thr Pro Pro Pro Gly Ile Arg Val Arg
1               5                   10


<210> 28976
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; A6801

<400> 28976
Asp Ser Thr Pro Pro Pro Gly Ile Arg
1               5


<210> 28977

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; A6801

<400> 28977
Thr Pro Pro Pro Gly Ile Arg Val Arg
1               5


<210> 28978
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; A1101

<400> 28978
Ser Thr Pro Pro Pro Gly Ile Arg Val
1               5


<210> 28979
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; A6801

<400> 28979
Asp Ser Thr Pro Pro Pro Gly Ile Arg Val
1               5                   10


<210> 28980
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155I; B4403

<400> 28980
Val Asp Ser Thr Pro Pro Pro Gly Ile
1               5


<210> 28981
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155P; B5101

<400> 28981
Thr Pro Pro Pro Gly Pro Arg Val
1               5


<210> 28982
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155P; A0201

<400> 28982
Ser Thr Pro Pro Pro Gly Pro Arg Val
1               5


<210> 28983
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155P; A1101

<400> 28983
Ser Thr Pro Pro Pro Gly Pro Arg Val
1               5


<210> 28984
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155P; B0702

<400> 28984
Gly Pro Arg Val Arg Ala Met Ala Ile
1               5


<210> 28985
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T155P; A1101

<400> 28985
Ser Thr Pro Pro Pro Gly Pro Arg Val Arg
1               5                   10


<210> 28986
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; A2301

<400> 28986
Glu Tyr Leu Asp Asp Arg Asn Ile Phe
1               5


<210> 28987
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; A2402

<400> 28987
Glu Tyr Leu Asp Asp Arg Asn Ile Phe
1               5


<210> 28988
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; C0501

<400> 28988
Tyr Leu Asp Asp Arg Asn Ile Phe
1               5


<210> 28989
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; B1402

<400> 28989
Asp Arg Asn Ile Phe Arg His Ser Val
1               5


<210> 28990
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; B4403

<400> 28990
Val Glu Tyr Leu Asp Asp Arg Asn Ile Phe
1               5                   10


<210> 28991
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; A0201

<400> 28991
Tyr Leu Asp Asp Arg Asn Ile Phe Arg
1               5


<210> 28992
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; C0802

<400> 28992
Tyr Leu Asp Asp Arg Asn Ile Phe
1               5


<210> 28993
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; C0401

<400> 28993

Tyr Leu Asp Asp Arg Asn Ile Phe
1               5


<210> 28994
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; C1502

<400> 28994
Arg Asn Ile Phe Arg His Ser Val Val
1               5


<210> 28995
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; A2301

<400> 28995
Val Glu Tyr Leu Asp Asp Arg Asn Ile Phe
1               5                   10


<210> 28996
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.T211I; A3101

<400> 28996
Glu Tyr Leu Asp Asp Arg Asn Ile Phe Arg
1               5                   10


<210> 28997
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; C0102

<400> 28997
Val Leu Pro Thr Gly Gln Asp Leu
1               5

<210> 28998
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; B3501

<400> 28998
Leu Pro Cys Pro Gln Gln Asp Val Leu
1               5


<210> 28999
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; A0201

<400> 28999
Val Leu Pro Thr Gly Gln Asp Leu Pro Cys Ala
1               5                   10


<210> 29000
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; C1203

<400> 29000
Thr Ala Lys Ser Asp Leu His Val Leu
1               5


<210> 29001
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; B3501

<400> 29001
Leu Pro Thr Gly Gln Asp Leu Pro Cys
1               5

<210> 29002
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; C1601

<400> 29002
Thr Ala Lys Ser Asp Leu His Val Leu
1               5


<210> 29003
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; B0801

<400> 29003
Thr Ala Lys Ser Asp Leu His Val Leu
1               5


<210> 29004
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; C0202

<400> 29004
Thr Ala Lys Ser Asp Leu His Val Leu
1               5


<210> 29005
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V122Dfs*26; B0702

<400> 29005
Leu Pro Cys Pro Gln Gln Asp Val Leu
1               5


<210> 29006
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V143A; B5701

<400> 29006
Lys Thr Cys Pro Ala Gln Leu Trp
1               5


<210> 29007
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V143A; C1502

<400> 29007
Lys Thr Cys Pro Ala Gln Leu Trp Val
1               5


<210> 29008
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V143M; B5701

<400> 29008
Lys Thr Cys Pro Met Gln Leu Trp
1               5


<210> 29009
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157A; A1101

<400> 29009
Ser Thr Pro Pro Pro Gly Thr Arg Ala Arg
1               5                   10


<210> 29010
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157A; A6801

<400> 29010
Asp Ser Thr Pro Pro Pro Gly Thr Arg Ala Arg
1               5                   10


<210> 29011
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157A; A6801

<400> 29011
Ser Thr Pro Pro Pro Gly Thr Arg Ala Arg
1               5                   10


<210> 29012
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157A; A0301

<400> 29012
Arg Ala Arg Ala Met Ala Ile Tyr Lys
1               5


<210> 29013
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157A; A3101

<400> 29013
Ser Thr Pro Pro Pro Gly Thr Arg Ala Arg
1               5                   10


<210> 29014
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.V157F; A2601

<400> 29014
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29015
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B1501

<400> 29015
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29016
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B5801

<400> 29016
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29017
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; A1101

<400> 29017
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29018
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; C0202

<400> 29018
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29019
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B5701

<400> 29019
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29020
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; A3301

<400> 29020
Asp Ser Thr Pro Pro Pro Gly Thr Arg Phe Arg
1               5                   10


<210> 29021
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B3501

<400> 29021
Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29022
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B0702

<400> 29022
Ser Thr Pro Pro Pro Gly Thr Arg Phe

1 5

<210> 29023
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B3901

<400> 29023
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1 5

<210> 29024
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; A3101

<400> 29024
Ser Thr Pro Pro Pro Gly Thr Arg Phe Arg
1 5 10

<210> 29025
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B0702

<400> 29025
Thr Pro Pro Pro Gly Thr Arg Phe
1 5

<210> 29026
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V157F; A6801

<400> 29026
Asp Ser Thr Pro Pro Pro Gly Thr Arg Phe
1 5 10

<210> 29027
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; A2301

<400> 29027
Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5                   10


<210> 29028
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; B5101

<400> 29028
Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29029
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V157F; C0102

<400> 29029
Ser Thr Pro Pro Pro Gly Thr Arg Phe
1               5


<210> 29030
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172D; B1302

<400> 29030
Ser Gln His Met Thr Glu Asp Val
1               5


<210> 29031

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; B1501

<400> 29031
Lys Gln Ser Gln His Met Thr Glu Phe
1               5


<210> 29032
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; A2402

<400> 29032
Ile Tyr Lys Gln Ser Gln His Met Thr Glu Phe
1               5                   10


<210> 29033
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; A3201

<400> 29033
Lys Gln Ser Gln His Met Thr Glu Phe
1               5


<210> 29034
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; A2301

<400> 29034
Ile Tyr Lys Gln Ser Gln His Met Thr Glu Phe
1               5                   10


<210> 29035
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; C0202

<400> 29035
Lys Gln Ser Gln His Met Thr Glu Phe
1               5


<210> 29036
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; A3101

<400> 29036
Ser Gln His Met Thr Glu Phe Val Arg
1               5


<210> 29037
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; A3101

<400> 29037
Gln Ser Gln His Met Thr Glu Phe Val Arg Arg
1               5                   10


<210> 29038
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V172F; A3101

<400> 29038
His Met Thr Glu Phe Val Arg Arg
1               5


<210> 29039
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173G; A3101

<400> 29039
Ser Gln His Met Thr Glu Val Gly Arg
1               5


<210> 29040
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173G; A3101

<400> 29040
Gln Ser Gln His Met Thr Glu Val Gly Arg
1               5                   10


<210> 29041
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173G; A6801

<400> 29041
Gln Ser Gln His Met Thr Glu Val Gly Arg
1               5                   10


<210> 29042
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173G; B1501

<400> 29042
Ser Gln His Met Thr Glu Val Gly Arg
1               5


<210> 29043
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173G; B1302

<400> 29043
Ser Gln His Met Thr Glu Val Gly Arg
1               5


<210> 29044
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; B1501

<400> 29044
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 29045
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; A3101

<400> 29045
Ser Gln His Met Thr Glu Val Leu Arg
1               5


<210> 29046
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V173L; A6801

<400> 29046
Gln Ser Gln His Met Thr Glu Val Leu Arg
1               5                   10


<210> 29047
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; A3101

<400> 29047

Gln Ser Gln His Met Thr Glu Val Leu Arg
1 5 10

<210> 29048
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; B3901

<400> 29048
Ser Gln His Met Thr Glu Val Leu
1 5

<210> 29049
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; B1302

<400> 29049
Ser Gln His Met Thr Glu Val Leu
1 5

<210> 29050
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; B4002

<400> 29050
Ser Gln His Met Thr Glu Val Leu
1 5

<210> 29051
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; A3303

<400> 29051
Gln Ser Gln His Met Thr Glu Val Leu Arg
1 5 10

<210> 29052
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; B1402

<400> 29052
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 29053
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173L; B3801

<400> 29053
Ser Gln His Met Thr Glu Val Leu
1               5


<210> 29054
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B1501

<400> 29054
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29055
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B1502

<400> 29055
Ser Gln His Met Thr Glu Val Met
1               5

<210> 29056
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B1503

<400> 29056
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29057
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; A3101

<400> 29057
Ser Gln His Met Thr Glu Val Met Arg
1               5


<210> 29058
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B3901

<400> 29058
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29059
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; C0801

<400> 29059
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29060
<211> 8

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B1510

<400> 29060
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29061
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B1302

<400> 29061
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29062
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B3906

<400> 29062
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29063
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; A6801

<400> 29063
Gln Ser Gln His Met Thr Glu Val Met Arg
1               5                   10


<210> 29064
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V173M; B3501

<400> 29064
Ser Gln His Met Thr Glu Val Met
1               5


<210> 29065
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B4403

<400> 29065
Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5


<210> 29066
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B1801

<400> 29066
Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5


<210> 29067
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B4402

<400> 29067
Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5


<210> 29068
<211> 9
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.V197M; B0702

<400> 29068
Ala Pro Pro Gln His Leu Ile Arg Met
1               5


<210> 29069
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B1501

<400> 29069
Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5


<210> 29070
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B3501

<400> 29070
Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5


<210> 29071
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B1501

<400> 29071
Arg Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 29072
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; C0602

<400> 29072
Ile Arg Met Glu Gly Asn Leu Arg Val
1               5


<210> 29073
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B5701

<400> 29073
Arg Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5                   10


<210> 29074
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V197M; B4001

<400> 29074
Met Glu Gly Asn Leu Arg Val Glu Tyr
1               5


<210> 29075
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B4403

<400> 29075
Val Glu Gly Asn Leu Arg Leu Glu Tyr
1               5


<210> 29076
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B1801

<400> 29076
Val Glu Gly Asn Leu Arg Leu Glu Tyr

1 5

<210> 29077
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B4402

<400> 29077
Val Glu Gly Asn Leu Arg Leu Glu Tyr
1 5

<210> 29078
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; A2301

<400> 29078
Val Glu Gly Asn Leu Arg Leu Glu Tyr
1 5

<210> 29079
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B4403

<400> 29079
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1 5 10

<210> 29080
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B1801

<400> 29080
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1 5 10

<210> 29081
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B2705

<400> 29081
Ile Arg Val Glu Gly Asn Leu Arg Leu
1               5


<210> 29082
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B4901

<400> 29082
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29083
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B4001

<400> 29083
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29084
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; A3001

<400> 29084
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29085

<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; A2301

<400> 29085
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29086
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V203L; C1601

<400> 29086
Glu Gly Asn Leu Arg Leu Glu Tyr
1               5


<210> 29087
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B4402

<400> 29087
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29088
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V203L; A2902

<400> 29088
Arg Val Glu Gly Asn Leu Arg Leu Glu Tyr
1               5                   10


<210> 29089
<211> 8
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V203L; B0801

<400> 29089
Glu Gly Asn Leu Arg Leu Glu Tyr
1               5


<210> 29090
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V203L; B1501

<400> 29090
Val Glu Gly Asn Leu Arg Leu Glu Tyr
1               5


<210> 29091
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V203L; A0101

<400> 29091
Arg Val Glu Gly Asn Leu Arg Leu Glu Tyr
1               5                   10


<210> 29092
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V203L; B5701

<400> 29092
Arg Val Glu Gly Asn Leu Arg Leu Glu Tyr
1               5                   10


<210> 29093
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V203L; A2902

<400> 29093
Val Glu Gly Asn Leu Arg Leu Glu Tyr
1               5


<210> 29094
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V203L; B5701

<400> 29094
Leu Glu Tyr Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29095
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V216G; A0201

<400> 29095
Gly Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29096
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216G; C0702

<400> 29096
Phe Arg His Ser Gly Val Val Pro Tyr
1               5


<210> 29097
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216G; B2705

<400> 29097
Phe Arg His Ser Gly Val Val Pro Tyr
1               5


<210> 29098
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216G; A3001

<400> 29098
Gly Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29099
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216L; B1402

<400> 29099
Asp Arg Asn Thr Phe Arg His Ser Leu
1               5


<210> 29100
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216L; C1502

<400> 29100
Asn Thr Phe Arg His Ser Leu Val Val
1               5


<210> 29101
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216L; A6802

<400> 29101

Asn Thr Phe Arg His Ser Leu Val Val
1               5


<210> 29102
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216L; A6802

<400> 29102
Leu Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29103
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216L; A0201

<400> 29103
Leu Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29104
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V216L; C0702

<400> 29104
Phe Arg His Ser Leu Val Val Pro Tyr
1               5


<210> 29105
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216L; B5001

<400> 29105
Leu Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10

<210> 29106
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216L; C1502

<400> 29106
Arg Asn Thr Phe Arg His Ser Leu Val
1               5


<210> 29107
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; A6802

<400> 29107
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29108
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; A0201

<400> 29108
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29109
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; A0205

<400> 29109
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10

<210> 29110
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V216M; B1402

<400> 29110
Asp Arg Asn Thr Phe Arg His Ser Met
1               5


<210> 29111
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; B1401

<400> 29111
Asp Arg Asn Thr Phe Arg His Ser Met
1               5


<210> 29112
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; A6802

<400> 29112
Asn Thr Phe Arg His Ser Met Val Val
1               5


<210> 29113
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; B3503

<400> 29113
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29114
<211> 9

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; C1502

<400> 29114
Asn Thr Phe Arg His Ser Met Val Val
1               5


<210> 29115
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; B5001

<400> 29115
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29116
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; B3502

<400> 29116
Met Val Val Pro Tyr Glu Pro Pro Glu Val
1               5                   10


<210> 29117
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V216M; C1203

<400> 29117
Asn Thr Phe Arg His Ser Met Val Val
1               5


<210> 29118
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B5801

<400> 29118
Thr Thr Cys Val Thr Val Pro Ala Trp
1               5


<210> 29119
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B5701

<400> 29119
Thr Thr Cys Val Thr Val Pro Ala Trp
1               5


<210> 29120
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; A6801

<400> 29120
His Ser Val Val Cys Pro Met Ser Arg
1               5


<210> 29121
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; A6802

<400> 29121
Ser Thr Thr Thr Thr Cys Val Thr Val
1               5


<210> 29122
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; TP53_p.V218Cfs*29; A6802

<400> 29122
Thr Val Pro Pro Ser Thr Thr Thr Thr Cys Val
1               5                   10


<210> 29123
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B5101

<400> 29123
Val Pro Pro Ser Thr Thr Thr Thr Cys
1               5


<210> 29124
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; A3303

<400> 29124
His Ser Val Val Cys Pro Met Ser Arg
1               5


<210> 29125
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B5101

<400> 29125
Val Pro Pro Ser Thr Thr Thr Thr Cys Val
1               5                   10


<210> 29126
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B0702

<400> 29126
Val Pro Pro Ser Thr Thr Thr Thr Cys Val
1               5                   10


<210> 29127
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B5801

<400> 29127
Ser Thr Thr Thr Thr Cys Val Thr Val
1               5


<210> 29128
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B5801

<400> 29128
Leu Thr Val Pro Pro Ser Thr Thr Thr
1               5


<210> 29129
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; A6802

<400> 29129
Ser Val Val Cys Pro Met Ser Arg Leu
1               5


<210> 29130
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; B5101

<400> 29130
Val Pro Pro Ser Thr Thr Thr Thr

1 5

<210> 29131
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V218Cfs*29; C1502

<400> 29131
Ser Thr Thr Thr Thr Cys Val Thr Val
1 5

<210> 29132
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V272L; B2705

<400> 29132
Gly Arg Asn Ser Phe Glu Leu Arg Val
1 5

<210> 29133
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V272L; C0602

<400> 29133
Gly Arg Asn Ser Phe Glu Leu Arg Val
1 5

<210> 29134
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V272L; C1502

<400> 29134
Arg Asn Ser Phe Glu Leu Arg Val
1 5

<210> 29135
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V272L; A3101

<400> 29135
Leu Gly Arg Asn Ser Phe Glu Leu Arg
1               5


<210> 29136
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V272M; B2705

<400> 29136
Gly Arg Asn Ser Phe Glu Met Arg Val
1               5


<210> 29137
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V272M; C0602

<400> 29137
Gly Arg Asn Ser Phe Glu Met Arg Val
1               5


<210> 29138
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V274A; B2705

<400> 29138
Gly Arg Asn Ser Phe Glu Val Arg Ala
1               5


<210> 29139

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V274F; B2705

<400> 29139
Gly Arg Asn Ser Phe Glu Val Arg Phe
1               5


<210> 29140
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V274F; B2702

<400> 29140
Gly Arg Asn Ser Phe Glu Val Arg Phe
1               5


<210> 29141
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V274F; C0602

<400> 29141
Gly Arg Asn Ser Phe Glu Val Arg Phe
1               5


<210> 29142
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V274F; C0702

<400> 29142
Gly Arg Asn Ser Phe Glu Val Arg Phe
1               5


<210> 29143
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V274F; C0701

<400> 29143
Gly Arg Asn Ser Phe Glu Val Arg Phe
1               5


<210> 29144
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V274L; B2705

<400> 29144
Gly Arg Asn Ser Phe Glu Val Arg Leu
1               5


<210> 29145
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V274L; C0602

<400> 29145
Gly Arg Asn Ser Phe Glu Val Arg Leu
1               5


<210> 29146
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V274L; C0701

<400> 29146
Gly Arg Asn Ser Phe Glu Val Arg Leu
1               5


<210> 29147
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V274L; B2702

<400> 29147
Gly Arg Asn Ser Phe Glu Val Arg Leu
1               5


<210> 29148
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; C0304

<400> 29148
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29149
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; B1501

<400> 29149
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29150
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; B0702

<400> 29150
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1               5


<210> 29151
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; B0702

<400> 29151
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29152
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; A1101

<400> 29152
Ala Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5                   10


<210> 29153
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; A0201

<400> 29153
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29154
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; B0801

<400> 29154
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29155
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; B0702

<400> 29155

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1 5 10

<210> 29156
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Afs*51; B3501

<400> 29156
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1 5

<210> 29157
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3503

<400> 29157
Leu Pro Cys Pro Gln Gln Asp Val Leu
1 5

<210> 29158
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C1402

<400> 29158
Arg Phe Pro Ser Gly Leu Leu Ala Phe
1 5

<210> 29159
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0102

<400> 29159
Val Leu Pro Thr Gly Gln Asp Leu
1 5

<210> 29160
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3503

<400> 29160
Phe Pro Glu Asn Leu Pro Gly Gln Leu
1               5


<210> 29161
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3503

<400> 29161
Leu Pro Thr Gly Gln Asp Leu Pro Cys
1               5


<210> 29162
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B5101

<400> 29162
Ser Pro Leu Leu Ala Pro Val Ile
1               5


<210> 29163
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3501

<400> 29163
Ser Pro Leu Leu Ala Pro Val Ile Phe
1               5

<210> 29164
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3501

<400> 29164
Leu Pro Cys Pro Gln Gln Asp Val Leu
1               5


<210> 29165
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0401

<400> 29165
Phe Trp Asp Ser Gln Val Cys Asp Leu
1               5


<210> 29166
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; A2301

<400> 29166
Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5


<210> 29167
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3501

<400> 29167
Phe Pro Glu Asn Leu Pro Gly Gln Leu Arg Phe
1               5                   10


<210> 29168
<211> 11

<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; A0201

<400> 29168
Val Leu Pro Thr Gly Gln Asp Leu Pro Cys Ala
1               5                   10


<210> 29169
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3503

<400> 29169
Cys Pro Phe Pro Glu Asn Leu Pro Gly Gln Leu
1               5                   10


<210> 29170
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B1302

<400> 29170
Gly Gln Leu Arg Phe Pro Ser Gly Leu
1               5


<210> 29171
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3501

<400> 29171
Phe Pro Glu Asn Leu Pro Gly Gln Leu
1               5


<210> 29172
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0401

<400> 29172
Phe Pro Glu Asn Leu Pro Gly Gln Leu
1               5


<210> 29173
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; A2402

<400> 29173
Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5


<210> 29174
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0602

<400> 29174
Leu Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5                   10


<210> 29175
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0102

<400> 29175
Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5


<210> 29176
<211> 9
<212> PRT
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<220>

<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3501

<400> 29176
Leu Pro Thr Gly Gln Asp Leu Pro Cys
1               5


<210> 29177
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; A3303

<400> 29177
Glu Asn Leu Pro Gly Gln Leu Arg
1               5


<210> 29178
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B5501

<400> 29178
Leu Pro Thr Gly Gln Asp Leu Pro Cys Ala
1               5                   10


<210> 29179
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3503

<400> 29179
Ser Pro Leu Leu Ala Pro Val Ile Phe
1               5


<210> 29180
<211> 9
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B3503

<400> 29180
Thr Gly Gly Pro Cys Thr Ser Pro Leu
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<210> 29181
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B1302

<400> 29181
Gly Gln Asp Leu Pro Cys Ala Ala Val
1 5

<210> 29182
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; A2301

<400> 29182
Arg Phe Pro Ser Gly Leu Leu Ala Phe Trp
1 5 10

<210> 29183
<211> 10
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; A2402

<400> 29183
Arg Phe Pro Ser Gly Leu Leu Ala Phe Trp
1 5 10

<210> 29184
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B5501

<400> 29184
Ser Pro Leu Leu Ala Pro Val Ile

1 5

<210> 29185
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B2702

<400> 29185
Leu Arg Phe Pro Ser Gly Leu Leu Ala Phe
1 5 10

<210> 29186
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0802

<400> 29186
Phe Trp Asp Ser Gln Val Cys Asp Leu
1 5

<210> 29187
<211> 9
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0802

<400> 29187
Phe Pro Glu Asn Leu Pro Gly Gln Leu
1 5

<210> 29188
<211> 9
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B5101

<400> 29188
Leu Pro Cys Pro Gln Gln Asp Val Leu
1 5

<210> 29189
<211> 9
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; B0702

<400> 29189
Leu Pro Cys Pro Gln Gln Asp Val Leu
1               5


<210> 29190
<211> 10
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0702

<400> 29190
Leu Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5                   10


<210> 29191
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<220>
<223> AACR GENIE Results; TP53_p.V73Rfs*76; C0701

<400> 29191
Leu Arg Phe Pro Ser Gly Leu Leu Ala Phe
1               5                   10


<210> 29192
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; C0303

<400> 29192
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29193

<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; C0304

<400> 29193
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29194
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B1501

<400> 29194
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29195
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B0702

<400> 29195
Leu Pro Arg Lys Pro Thr Arg Ala Ala
1               5


<210> 29196
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B0702

<400> 29196
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29197
<211> 10
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<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; A1101

<400> 29197
Ala Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5                   10


<210> 29198
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; A0201

<400> 29198
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29199
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; C1601

<400> 29199
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29200
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B0801

<400> 29200
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29201
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B1302

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Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29202
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B0702

<400> 29202
Leu Pro Arg Lys Pro Thr Arg Ala Ala Thr Val
1               5                   10


<210> 29203
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B4001

<400> 29203
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29204
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B3801

<400> 29204
Thr Arg Ala Ala Thr Val Ser Val Trp
1               5


<210> 29205
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B3501

<400> 29205
Ser Cys Ile Leu Gly Gln Pro Ser Leu
1               5


<210> 29206
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.V73Wfs*50; B5701

<400> 29206
Arg Ala Ala Thr Val Ser Val Trp
1               5


<210> 29207
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126C; A1101

<400> 29207
Cys Thr Cys Ser Pro Ala Leu Asn Lys
1               5


<210> 29208
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126C; A0301

<400> 29208
Cys Thr Cys Ser Pro Ala Leu Asn Lys
1               5


<210> 29209
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126C; A3001

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Thr Ala Lys Ser Val Thr Cys Thr Cys
1               5


<210> 29210
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126C; B5701

<400> 29210
Thr Cys Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 29211
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126C; A2301

<400> 29211
Thr Cys Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 29212
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126C; B4403

<400> 29212
Thr Cys Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 29213
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126C; B4402

<400> 29213
Thr Cys Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10

<210> 29214
<211> 9
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A1101

<400> 29214
Cys Thr Asp Ser Pro Ala Leu Asn Lys
1               5


<210> 29215
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A0301

<400> 29215
Cys Thr Asp Ser Pro Ala Leu Asn Lys
1               5


<210> 29216
<211> 9
<212> PRT
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<220>
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Thr Asp Ser Pro Ala Leu Asn Lys Met
1               5


<210> 29217
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y126D; B5101

<400> 29217
Asp Ser Pro Ala Leu Asn Lys Met
1               5

<210> 29218
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B4403

<400> 29218
Thr Asp Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 29219
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A1101

<400> 29219
Thr Cys Thr Asp Ser Pro Ala Leu Asn Lys
1               5                   10


<210> 29220
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B4402

<400> 29220
Thr Asp Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 29221
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B3801

<400> 29221
Thr Asp Ser Pro Ala Leu Asn Lys Met
1               5


<210> 29222
<211> 8

<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A1101

<400> 29222
Thr Asp Ser Pro Ala Leu Asn Lys
1               5


<210> 29223
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; C0303

<400> 29223
Val Thr Cys Thr Asp Ser Pro Ala Leu
1               5


<210> 29224
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A0301

<400> 29224
Thr Cys Thr Asp Ser Pro Ala Leu Asn Lys
1               5                   10


<210> 29225
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; C0304

<400> 29225
Val Thr Cys Thr Asp Ser Pro Ala Leu
1               5


<210> 29226
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A2301

<400> 29226
Thr Asp Ser Pro Ala Leu Asn Lys Met Phe
1               5                   10


<210> 29227
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B3503

<400> 29227
Val Thr Cys Thr Asp Ser Pro Ala Leu
1               5


<210> 29228
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A6801

<400> 29228
Thr Cys Thr Asp Ser Pro Ala Leu Asn Lys
1               5                   10


<210> 29229
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B4002

<400> 29229
Thr Asp Ser Pro Ala Leu Asn Lys Met
1               5


<210> 29230
<211> 11
<212> PRT
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<220>

<223> AACR GENIE Results; TP53_p.Y126D; A1101

<400> 29230
Val Thr Cys Thr Asp Ser Pro Ala Leu Asn Lys
1               5                   10


<210> 29231
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B2702

<400> 29231
Thr Asp Ser Pro Ala Leu Asn Lys
1               5


<210> 29232
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B5801

<400> 29232
Val Thr Cys Thr Asp Ser Pro Ala Leu
1               5


<210> 29233
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; B2705

<400> 29233
Cys Thr Asp Ser Pro Ala Leu Asn Lys
1               5


<210> 29234
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y126D; A0101

<400> 29234
Cys Thr Asp Ser Pro Ala Leu Asn Lys Met
1               5                   10


<210> 29235
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y163H; A0301

<400> 29235
Arg Val Arg Ala Met Ala Ile His Lys
1               5


<210> 29236
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y163H; B1501

<400> 29236
Ala Ile His Lys Gln Ser Gln His Met
1               5


<210> 29237
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; B0801

<400> 29237
Glu Gly Asn Leu Arg Val Glu Cys Leu
1               5


<210> 29238
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; A3303

<400> 29238
Glu Cys Leu Asp Asp Arg Asn Thr Phe Arg

1 5 10

<210> 29239
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; B4405

<400> 29239
Val Glu Cys Leu Asp Asp Arg Asn Thr Phe
1 5 10

<210> 29240
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; A2301

<400> 29240
Val Glu Cys Leu Asp Asp Arg Asn Thr Phe
1 5 10

<210> 29241
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205C; B1402

<400> 29241
Glu Gly Asn Leu Arg Val Glu Cys Leu
1 5

<210> 29242
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; C0501

<400> 29242
Cys Leu Asp Asp Arg Asn Thr Phe
1 5

<210> 29243
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; B5001

<400> 29243
Val Glu Gly Asn Leu Arg Val Glu Cys
1               5


<210> 29244
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; B4002

<400> 29244
Val Glu Gly Asn Leu Arg Val Glu Cys Leu
1               5                   10


<210> 29245
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205C; B4403

<400> 29245
Val Glu Cys Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29246
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205C; B1502

<400> 29246
Glu Cys Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29247

<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205C; B4102

<400> 29247
Val Glu Gly Asn Leu Arg Val Glu Cys
1               5


<210> 29248
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205F; C0501

<400> 29248
Phe Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29249
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205F; B4402

<400> 29249
Val Glu Gly Asn Leu Arg Val Glu Phe
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205F; A2402

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Glu Phe Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29251
<211> 10
<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205F; B4402

<400> 29251
Val Glu Phe Leu Asp Asp Arg Asn Thr Phe
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<210> 29252
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205F; C0401

<400> 29252
Phe Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29253
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205F; B0801

<400> 29253
Glu Gly Asn Leu Arg Val Glu Phe
1               5


<210> 29254
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205F; B0801

<400> 29254
Glu Gly Asn Leu Arg Val Glu Phe Leu
1               5


<210> 29255
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205H; B3801

<400> 29255
Glu His Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29256
<211> 9
<212> PRT
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<220>
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<400> 29256
Glu His Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29257
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205H; B4403

<400> 29257
Val Glu His Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29258
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205H; B0801

<400> 29258
Glu Gly Asn Leu Arg Val Glu His Leu
1               5


<210> 29259
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205H; C0501

<400> 29259
His Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29260
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205H; B4001

<400> 29260
Val Glu His Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29261
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<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y205H; B4402

<400> 29261
Val Glu His Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29262
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205H; C0802

<400> 29262
His Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29263
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205H; A2301

<400> 29263

Val Glu His Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29264
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205H; C0401

<400> 29264
His Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29265
<211> 10
<212> PRT
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<220>
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<400> 29265
Val Glu His Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29266
<211> 9
<212> PRT
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<220>
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<400> 29266
Glu Gly Asn Leu Arg Val Glu His Leu
1               5


<210> 29267
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B0801

<400> 29267
Glu Gly Asn Leu Arg Val Glu Ser Leu
1               5

<210> 29268
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B1402

<400> 29268
Glu Gly Asn Leu Arg Val Glu Ser Leu
1               5


<210> 29269
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B4001

<400> 29269
Val Glu Gly Asn Leu Arg Val Glu Ser Leu
1               5                   10


<210> 29270
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; C0501

<400> 29270
Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29271
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B4403

<400> 29271
Val Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5                   10

<210> 29272
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B5701

<400> 29272
Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29273
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B4001

<400> 29273
Val Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29274
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<212> PRT
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<220>
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<400> 29274
Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29275
<211> 9
<212> PRT
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<220>
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<400> 29275
Glu Gly Asn Leu Arg Val Glu Ser Leu
1               5


<210> 29276
<211> 10

<212> PRT
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<220>
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<400> 29276
Val Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29277
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<212> PRT
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<220>
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<400> 29277
Val Glu Gly Asn Leu Arg Val Glu Ser Leu
1               5                   10


<210> 29278
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B3501

<400> 29278
Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29279
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; A2601

<400> 29279
Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29280
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; A2301

<400> 29280
Val Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5                   10


<210> 29281
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; C0401

<400> 29281
Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29282
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; A6801

<400> 29282
Glu Ser Leu Asp Asp Arg Asn Thr Phe Arg
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<210> 29283
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y205S; B3801

<400> 29283
Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29284
<211> 9
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<220>

<223> AACR GENIE Results; TP53_p.Y205S; A2301

<400> 29284
Glu Ser Leu Asp Asp Arg Asn Thr Phe
1               5


<210> 29285
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y220C; B5101

<400> 29285
Val Pro Cys Glu Pro Pro Glu Val
1               5


<210> 29286
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y220C; A0206

<400> 29286
Val Val Pro Cys Glu Pro Pro Glu Val
1               5


<210> 29287
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y220C; A0206

<400> 29287
Val Val Val Pro Cys Glu Pro Pro Glu Val
1               5                   10


<210> 29288
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y220C; A0201

<400> 29288
Val Val Val Pro Cys Glu Pro Pro Glu Val
1               5                   10


<210> 29289
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y220S; B5101

<400> 29289
Val Pro Ser Glu Pro Pro Glu Val
1               5


<210> 29290
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y220S; A0201

<400> 29290
Val Val Pro Ser Glu Pro Pro Glu Val
1               5


<210> 29291
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<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y220S; A0201

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Val Val Val Pro Ser Glu Pro Pro Glu Val
1               5                   10


<210> 29292
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y220S; A0201

<400> 29292
Ser Val Val Val Pro Ser Glu Pro Pro Glu Val

1 5 10

<210> 29293
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y234C; A3301

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Asp Cys Thr Thr Ile His Cys Asn Tyr
1 5

<210> 29294
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y234C; A2601

<400> 29294
Asp Cys Thr Thr Ile His Cys Asn Tyr
1 5

<210> 29295
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y234H; A2601

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Asp Cys Thr Thr Ile His His Asn Tyr
1 5

<210> 29296
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y234H; C1601

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Cys Thr Thr Ile His His Asn Tyr
1 5

<210> 29297
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y234H; A3301

<400> 29297
Asp Cys Thr Thr Ile His His Asn Tyr
1               5


<210> 29298
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y234H; A3002

<400> 29298
Cys Thr Thr Ile His His Asn Tyr
1               5


<210> 29299
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y234H; A6802

<400> 29299
Thr Thr Ile His His Asn Tyr Met Cys
1               5


<210> 29300
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y234H; A6802

<400> 29300
Thr Thr Ile His His Asn Tyr Met
1               5


<210> 29301

<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y234H; B3501

<400> 29301
Asp Cys Thr Thr Ile His His Asn Tyr
1               5


<210> 29302
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y234N; A2601

<400> 29302
Asp Cys Thr Thr Ile His Asn Asn Tyr
1               5


<210> 29303
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y234N; C1601

<400> 29303
Cys Thr Thr Ile His Asn Asn Tyr
1               5


<210> 29304
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; TP53_p.Y234N; A0101

<400> 29304
Gly Ser Asp Cys Thr Thr Ile His Asn Asn Tyr
1               5                   10


<210> 29305
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<212> PRT

<213> Homo sapiens

<220>
<223> AACR GENIE Results; TP53_p.Y234N; A6802

<400> 29305
Thr Thr Ile His Asn Asn Tyr Met Cys
1               5


<210> 29306
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; TRAF7_p.R84L; B5101

<400> 29306
Met Pro Pro Ile Ser Thr Pro Leu
1               5


<210> 29307
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TSC1_p.R336W; B5701

<400> 29307
Gln Thr Leu Ser Ser Pro Ser Thr Trp
1               5


<210> 29308
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TSC2_p.D1512N; B4001

<400> 29308
Asn Glu Ser Asn Lys Pro Ile Leu Leu
1               5


<210> 29309
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.D1512N; B4403

<400> 29309
Asn Glu Ser Asn Lys Pro Ile Leu Leu
1               5


<210> 29310
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.N1522S; B3501

<400> 29310
Leu Pro Ser Glu Ser Gln Ser Phe
1               5


<210> 29311
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.R1078Q; B0702

<400> 29311
Ser Val Gly Thr Gly Thr Gln Ser Leu
1               5


<210> 29312
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.R1706H; C0501

<400> 29312
Val Ser Asp His Asn Leu Pro Phe Val
1               5


<210> 29313
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.R1706H; A0201

<400> 29313
Val Ser Asp His Asn Leu Pro Phe Val
1               5


<210> 29314
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.R1706H; A3101

<400> 29314
His Asn Leu Pro Phe Val Ala Arg
1               5


<210> 29315
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.R1729H; B3501

<400> 29315
Met Ala Ser Gln Val His His Ser His
1               5


<210> 29316
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.T1070M; A0201

<400> 29316
Lys Leu Val Thr Val Met Thr Ser Val
1               5


<210> 29317
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.T1070M; A0201

<400> 29317

Val Met Thr Ser Val Gly Thr Gly Thr
1               5


<210> 29318
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TSC2_p.T1070M; B1501

<400> 29318
Val Gly Asn Lys Leu Val Thr Val Met
1               5


<210> 29319
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.T1070M; A1101

<400> 29319
Thr Val Met Thr Ser Val Gly Thr Gly Thr Arg
1               5                   10


<210> 29320
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.T1070M; B0801

<400> 29320
Val Gly Asn Lys Leu Val Thr Val Met
1               5


<210> 29321
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; TSC2_p.V679M; B0702

<400> 29321
Gly Pro Ala Pro Ala Gly Pro Ala Met
1               5

<210> 29322
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TSC2_p.V679M; B0702

<400> 29322
Ala Pro Ala Gly Pro Ala Met Arg Leu
1               5


<210> 29323
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TSC2_p.V679M; B3501

<400> 29323
Gly Pro Ala Pro Ala Gly Pro Ala Met
1               5


<210> 29324
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; TSC2_p.V679M; B0702

<400> 29324
Gly Pro Ala Met Arg Leu Gly Ser Val
1               5


<210> 29325
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; XPO1_p.E571K; B5701

<400> 29325
Lys Thr Val Val Asn Lys Leu Phe Lys Phe
1               5                   10

<210> 29326
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.E571K; A2301

<400> 29326
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 29327
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.E571K; A0301

<400> 29327
Lys Thr Val Val Asn Lys Leu Phe Lys
1               5


<210> 29328
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.E571K; A1101

<400> 29328
Lys Thr Val Val Asn Lys Leu Phe Lys
1               5


<210> 29329
<211> 8
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.E571K; A2301

<400> 29329
Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 29330
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<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.E571K; B5701

<400> 29330
Thr Val Val Asn Lys Leu Phe Lys Phe
1               5


<210> 29331
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; B3503

<400> 29331
Val Pro Met Phe Gln Asn Val Ser Leu
1               5


<210> 29332
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; B0702

<400> 29332
Val Pro Met Phe Gln Asn Val Ser Leu
1               5


<210> 29333
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; B3501

<400> 29333
Val Pro Met Phe Gln Asn Val Ser Leu
1               5


<210> 29334
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; B0801

<400> 29334
Val Pro Met Phe Gln Asn Val Ser Leu
1               5


<210> 29335
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; C0102

<400> 29335
Asn Val Pro Met Phe Gln Asn Val Ser Leu
1               5                   10


<210> 29336
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; XPO1_p.R261Q; B5101

<400> 29336
Val Pro Met Phe Gln Asn Val Ser Leu
1               5


<210> 29337
<211> 9
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; B5501

<400> 29337
Val Pro Met Phe Gln Asn Val Ser Leu
1               5


<210> 29338
<211> 11
<212> PRT
<213> Homo sapiens

<220>

<223> AACR GENIE Results; XPO1_p.R261Q; A6801

<400> 29338
Asn Val Pro Met Phe Gln Asn Val Ser Leu Lys
1               5                   10


<210> 29339
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; A6802

<400> 29339
Asn Val Pro Met Phe Gln Asn Val Ser Leu
1               5                   10


<210> 29340
<211> 11
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; B2702

<400> 29340
Asn Val Pro Met Phe Gln Asn Val Ser Leu Lys
1               5                   10


<210> 29341
<211> 10
<212> PRT
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<220>
<223> AACR GENIE Results; XPO1_p.R261Q; A6801

<400> 29341
Val Pro Met Phe Gln Asn Val Ser Leu Lys
1               5                   10


<210> 29342
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; XPO1_p.R44I; B3801

<400> 29342
Tyr His Gly Glu Gly Ala Gln Gln Ile
1               5


<210> 29343
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; XPO1_p.R44I; B1501

<400> 29343
Gln Gln Ile Met Ala Gln Glu Val Leu
1               5


<210> 29344
<211> 10
<212> PRT
<213> Homo sapiens

<220>
<223> AACR GENIE Results; XPO1_p.R44I; B3801

<400> 29344
Tyr His Gly Glu Gly Ala Gln Gln Ile Met
1               5                   10


<210> 29345
<211> 9
<212> PRT
<213> Homo sapiens

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