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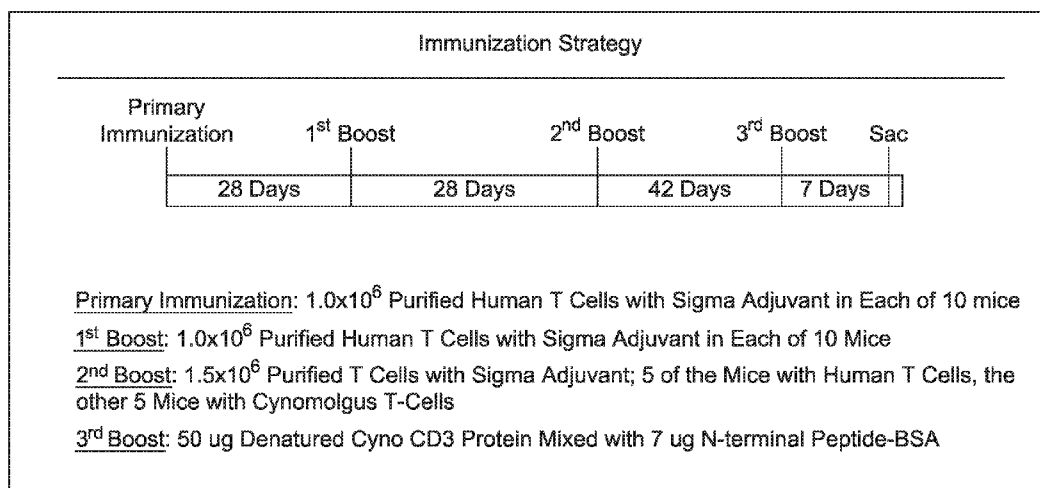


Figure 1

(57) Abstract: Anti-CD3 binding domains and antibodies comprising them, including multispecific antibodies, with, inter alia, desirable T-cell activation and (re)directed target cell killing potency and developability, profiles are provided, as well as methods for their identification, isolation, and generation, and methods for their preparation and use. Reagents for identifying, isolating, selecting, generating and characterizing CD3 binding domains and antibodies comprising them are also provided.



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ANTI-CD3-BINDING DOMAINS AND ANTIBODIES COMPRISING THEM, AND METHODS FOR THEIR GENERATION AND USE

Cross Reference to Related Applications

[0001] This application claims priority to United States Provisional Application No. 62/503,315, filed on May 8, 2017, the entire content of which is incorporated herein by reference.

Sequence Listing

[0002] The instant application contains a Sequence Listing which has been submitted electronically in ASCII format and is hereby incorporated by reference in its entirety. Said ASCII copy, created April 7, 2017, is named 2009186-0189_SL.TXT and is 2,923,505 bytes in size.

Field of the Invention

[0003] The invention relates, *inter alia*, to anti-Cluster of Differentiation 3 (CD3)-binding domains and antibodies comprising them, including multispecific and bispecific antibodies, and functional fragments thereof, and methods and reagents for their identification, isolation, preparation, and use. Reagents for identifying, isolating, selecting, generating and characterizing CD3 binding domains and antibodies comprising them are also provided.

Background of the Invention

[0004] All references cited herein, including without limitation patents, patent applications, and non-patent references and publications referenced throughout are hereby expressly incorporated by reference in their entireties for all purposes.

[0005] The body's immune system serves as a defense against infection, injury and cancer. Two separate but interrelated systems, humoral and cellular immune systems, work together to protect the body. The humoral system is mediated by soluble factors, named antibodies, which neutralize products recognized as being foreign by the body. In contrast, the cellular system involves cells, such as T cells and macrophages, which remove and neutralize foreign invaders.

[0006] The activation of T cells is important for the stimulation of immune responses. T cells exhibit immunological specificity and direct most of the cellular immune responses. Although T cells do not secrete antibodies, they are required for the secretion of antibodies by B lymphocytes. T cell activation requires the participation of a number of cell surface molecules, such as the T cell receptor complex, and CD4 or CD8 molecules. The antigen-specific T cell receptor (TcR) is composed of a disulfide-linked heterodimer, membrane glycoprotein with chains, alpha and beta (α and β), or gamma and delta (γ and δ). The TcR is non-covalently linked with a complex of invariant proteins, designated CD3.

[0007] The TcR confers antigen specificity and the CD3 structures transduce activation signals to T cells. The CD3 complex contains four subunits. They can contain two zeta subunits, one epsilon subunit and either a gamma or a delta subunit. Antigen binding leads to the cross-linking and activation of the TCR complex. T-cell receptor signaling leads to T-cell activation and IL-2 production and other cytokines in a complex process.

[0008] The ligand of the TcR is the MHC-peptide complex on the surface of target cells such as virus-infected cells. After the recognition of the MHC-peptide on the target cell, T cells can have a cytotoxic or an apoptotic effect on the target cell. Especially cytotoxic T cells (CD8 positive T cells) can have advantageous effects by directly removing virus-infected cells. This arm of the cellular immune response is particularly advantageous and is important for fighting virus infections and eliminating tumor cells.

[0009] Activation of the cytotoxic T cell may occur via direct binding of the CD3 antigen without the recognition of the MHC-peptide complex by the TcR. This alternative activation route can be achieved with anti-CD3 antibodies. Non-human monoclonal antibodies have been developed against some of the CD3 chains (subunits), as exemplified by the murine antibodies OKT3, SP34, UCHT1 or 64.1. (See e.g., June, et al., *J. Immunol.* 136:3945-3952 (1986); Yang, et al., *J. Immunol.* 137:1097-1100 (1986); and Hayward, et al., *Immunol.* 64:87-92 (1988)). Other CD3 antibodies are disclosed, for example, in U.S. Pat. Nos. 5,585,097; 5,929,212; 5,968,509; 6,706,265; 6,750,325; 7,381,803; 7,728,114. Bispecific antibodies with CD3 binding specificity are disclosed, for example, in U.S. Pat. Nos. 7,262,276; 7,635,472; and 7,862,813.

[0010] Many of these anti-CD3 antibodies bind the epsilon chain which leads to the development of highly activated T cells. Cancer immunotherapy with ordinary monoclonal

antibodies does not typically activate T-lymphocytes sufficiently so as to elicit meaningful, targeted, pharmacologic activity towards the target cell type or tissue.

[0011] The recent development and use of multispecific antibodies, such as bispecific antibodies (bsAbs), to redirect effector T cells for the targeted killing of tumor cells has shown considerable promise both pre-clinically and clinically (see, e.g., Topp et al, 2012, *Blood* 120:5185-87; Bargou et al, 2008, *Science* 321:974-77). Many of the bispecific antibodies developed to date contain a first binding site specific to CD3 for T-cell recruitment and activation, and a second binding site for a targeted disease-associated antigen, such as CD19 (Bassan, 2012, *Blood* 120:5094-95). The bispecific antibody is thought to bring CD3⁺ T cells into direct contact with targeted disease cells and induce cell-mediated cytotoxicity (Bassan, 2012). Anti-CD3 X anti-CD19 bispecific antibodies have been reported to produce a complete and durable molecular remission at very low concentrations in approximately 70% of adult patients with MRD⁺ ALL (Topp et al, 2012, *Blood* 120:5185-87). Bispecific antibodies recognizing gliomas and the CD3 epitope on T cells have been successfully used in treating brain tumors in human patients (Nitta, et al. *Lancet* 1990; 355:368-371). In addition, CD3 x CD20 bispecific antibodies have been produced for clinical testing (US2015/0166661 and US2017/0202194), as well as CD3 x CLL-1 (US2016/0368994).

[0012] Leukocyte redirecting bsAbs are not limited to T cells. The bispecific killer engagers (BiKEs) comprising scFvs against the NK cell antigen CD16 and a tumor-associated antigen (e.g., CD19, CD22, CD33) have also shown potent anti-cancer activity (e.g., Miller, *Hematology Soc Hematol Educ Program* 2013:247-53). Other alternatives include trispecific killer engagers (TriKEs), such as anti-CD16 x anti-CD19 x anti-CD22 (Miller, 2013; Gleason et al, 2012, *Mol Cancer Ther* 11:2674-84). An anti-CD 16 x anti-CD33 BiKE was used to treat AML and myelodysplastic syndrome (Miller, 2013; Wiernik et al, 2013, *Clin Cancer Res* 19:3844-55). In refractory AML, a CD16 x CD33 BiTE led to potent tumor cell killing and cytokine production by NK cells. Inhibition of ADAM 17 enhanced the CD16 x CD33 BiKE response (Miller, 2013). Other trispecific, trivalent constructs, for example against CD16/CD19/HLA-DR, have been reported (Schubert et al, 2012, *mAbs* 4:45-56).

[0013] Numerous methods to produce bispecific antibodies are known (see, e.g. U.S. Patent No. 7,405,320). Bispecific antibodies can be produced by the quadroma method, which

involves the fusion of two different hybridomas, each producing a monoclonal antibody recognizing a different antigenic site (Milstein and Cuello, *Nature* 1983; 305:537-540). The fused hybridomas are capable of synthesizing two different heavy chains and two different light chains, which can associate randomly to give a heterogeneous population of 10 different antibody structures of which only one of them, amounting to 1/8 of the total antibody molecules, will be bispecific, and therefore must be further purified from the other forms. Fused hybridomas are often less stable cytogenetically than the parent hybridomas, making the generation of a production cell line more problematic.

[0014] Another method for producing bispecific antibodies uses heterobifunctional cross-linkers to chemically tether two different monoclonal antibodies, so that the resulting hybrid conjugate will bind to two different targets (Staerz, et al. *Nature* 1985; 314:628-631; Perez, et al. *Nature* 1985; 316:354-356). Bispecific antibodies generated by this approach are essentially heteroconjugates of two IgG molecules, which diffuse slowly into tissues and are rapidly removed from the circulation. Bispecific antibodies can also be produced by reduction of each of two parental monoclonal antibodies to the respective half molecules, which are then mixed and allowed to reoxidize to obtain the hybrid structure (Staerz and Bevan. *Proc Natl Acad Sci USA* 1986; 83: 1453-1457). An alternative approach involves chemically cross-linking two or three separately purified Fab' fragments using appropriate linkers. All these chemical methods are undesirable for commercial development due to high manufacturing cost, laborious production process, extensive purification steps, low yields (<20%), and heterogeneous products.

[0015] Discrete VH and VL domains of antibodies produced by recombinant DNA technology may pair with each other to form a dimer (recombinant Fv fragment) with binding capability (U.S. Pat. No. 4,642,334). However, such non-covalently associated molecules are not sufficiently stable under physiological conditions to be of practical use. Cognate VH and VL domains can be joined with a peptide linker of appropriate composition and length (usually consisting of more than 12 amino acid residues) to form a single-chain Fv (scFv) with binding activity. Methods of manufacturing scFv-based agents of multivalency and multispecificity by varying the linker length were disclosed in U.S. Pat. No. 5,844,094, U.S. Pat. No. 5,837,242 and WO 98/44001. Common problems that have been frequently associated with generating scFv-

based agents of multivalency and multispecificity are low expression levels, heterogeneous products, instability in solution leading to aggregates, instability in serum, and impaired affinity.

[0016] Several bispecific antibodies targeting CD3 and CD19 are in various stages of development and/or have been approved as therapeutics. An scFv-based bispecific antibody construct, known as BITE® (Bispecific T-cell Engager), employs a single polypeptide containing 2 antigen-binding specificities, each contributed by a cognate VH and VL, linked in tandem via a flexible linker (see, e.g., Nagorsen et al, 2009, *Leukemia & Lymphoma* 50:886-91; Amann et al, 2009, *J Immunother* 32:453-64; Baeuerle and Reinhardt, 2009, *Cancer Res* 69:4941-44). Another bispecific antibody called DART® (Dual-Affinity Re-Targeting) utilizes a disulfide-stabilized diabody design (see, e.g., Moore et al., 2011, *Blood* 117:4542-51; Veri et al, 2010, *Arthritis Rheum* 62: 1933-43). Both BITE® and DART® exhibit fast blood clearance due to their small size (~55 kDa), which requires frequent administration to maintain therapeutic levels of the bispecific antibodies.

[0017] SCORPION Therapeutics (Emergent Biosolutions, Inc., Seattle, Wash.) is a platform technology combining two antigen-binding domains in a single chain protein. One binding domain is on the C-terminus and a second binding domain on the N-terminus of an effector domain base on immunoglobulin Fc regions.

[0018] Tetravalent and bispecific antibody-like proteins are DVD-Igs which are engineered from two monoclonal antibodies (Wu, C. et al., *Nature Biotechnology*, 25, p 1290-1297, 2007). To construct the DVD-Ig molecule, the V domains of the two mAbs are fused in tandem by a short linker (TVAAP) (SEQ ID NO: 6714) with the variable domain of the first antibody light (VL) chain at the N terminus, followed by the other antibodies VL and Ck to form the DVD-Ig protein light chain. Similarly, the variable regions of the heavy (VH) chain of the two mAbs are fused in tandem by a short linker (ASTKGP) (SEQ ID NO: 6715) with the first antibody at the N terminus, followed by the other antibody and the heavy chain constant domains to form the DVD-Ig protein heavy chain (VH1/VL1). All light chain and heavy chain constant domains are preserved in the DVD-Ig design, as they are critical for the formation of a disulfide-linked full IgG-like molecule. Cotransfection of mammalian cells with expression vectors encoding the DVD-Ig light chain and heavy chain leads to the secretion of a single species of an

IgG-like molecule with molecular weight of approximately 200 kDa. This molecule has now four binding sites, 2 from each mAb.

[0019] Bispecific antibodies have shown considerable benefits over monospecific antibodies for the treatment and the detection of cancer. Broad commercial application of bispecific antibodies has been hampered by the lack of efficient/low-cost production methods, the lack of stability of bispecific polypeptides and the lack of long half-lives in humans. A large variety of methods have been developed over the last decades to produce bispecific monoclonal antibodies (BsMAB).

[0020] However, although many candidate clinical and therapeutic antibodies have been found in early discovery efforts which display exquisite selectivity and high potency towards numerous targets of interest, a large proportion of these antibodies have nonetheless subsequently been discovered through downstream development and clinical efficacy activities to suffer from undesirable characteristics such as: promiscuity of binding, polyspecific binding (also termed herein and throughout, “polyspecificity”), off-target binding; nonspecific binding; poor expression levels or profiles in eukaryotic host cells, such as mammalian host cells and yeast cells; poor chemical and physical properties, such as poor stability during storage (e.g., poor/low “shelf-life” stability), poor (low) solubility, poor (high) viscosity, propensity to aggregate, and the like; and poor clinical and biophysical profiles, such as poor pharmacokinetic profiles, poor pharmacodynamic profiles, fast or poor in vivo clearance rates, short circulation half-life, and the like; thereby requiring the termination of further therapeutic development of such candidate antibodies. Additionally, it has been observed that antibodies derived from display technologies represent a historical minority of all clinical and marketed antibodies, a trend which is believed by many to be due, at least in part, to promiscuity of binding, poor PK profiles, and poor CMC characteristics - liabilities which are further postulated to be largely due to a lack of suitable means and methods by which undevelopable antibodies may be detected and/or counter-selected against when screening for antibodies using display technologies (see, e.g., Meninger 2012; available at hyper-text transfer protocol: proteins-congress.com/wordpress/wp-content/uploads/2012/01/Trends-in-Therapeutic-Monoclonal-Antibody-Discovery-Technology.pdf).

[0021] The art has developed certain techniques and assays to assess many of the aforementioned developability characteristics for discovered antibodies in the context of downstream development activities (“post-discovery antibodies”), such as CIC, SIC, BVP-ELISA, TMA, and other assays; however, such assays are typically not amenable to their incorporation into high-throughput early polypeptide and antibody discovery platforms, such as antibody display platforms. Furthermore, assessment of these attributes typically requires milligram to gram quantities of protein, thus often imposing a de facto limitation on the number of leads that can be pragmatically considered for development, and consequently reducing the likelihood of program success. Consequently, significant resources are often expended attempting to fix poorly behaving lead candidates with few backups available in later stages of development.

[0022] In recognition of this bottleneck, considerable efforts have been made to develop assays with lower material requirements and to bring developability assessments further upstream in the development process (Esfandiary *et al.*, 2013, *Protein Eng Des Sel* 26 (10): 663-670, 2013; Sathish *et al.*, 2013, *Nat Rev Drug Discov.* 12(4):306-24). A number of such assays are directed at predicting antibody solubility and aggregation behavior of identified, lead candidates. Self-interaction chromatography (SIC) and cross-interaction chromatography (CIC) are column based, low-to-medium throughput assays that correlate with and thus predict antibody solubility at relatively low concentration (Ahamed *et al.*, 2005, *J Biol Chem* 280(37):32090-100; Jacobs *et al.*, *Pharm Res* 27:65-71, 2010; Spencer *et al.*, *Mabs* 4(3)319-325, 2012). A longer retention time on such SIC or CIC columns suggests interaction with antibodies coupled to the column, and is correlated to poor solubility (Jacobs *et al.*, 2010). Sule and co-workers reported a medium throughput gold nanoparticle assay to predict solubility at very low concentration and further broadened the assay scope to be compatible with complex cell culture media (Sule *et al.*, *Biophys J* 101(7):1749-1757, 2011; *Mol Pharmaceutics* 10(4):1322-1331, 2013).

[0023] As mentioned above, polyspecificity is a highly undesirable property that has been linked to poor antibody pharmacokinetics (Wu *et al.*, *J Mol Biol* 368:652-665, 2007; Hötzel *et al.*, 2012, *MAbs* 4(6):753-760). Certain polyspecificity assays have been reported in the art to serve as medium-throughput substitutes for broad panel tissue immunohistochemistry. Wardemann and colleagues have reported an enzyme-linked immunosorbent assay (ELISA) method using LPS, Insulin,

dsDNA, and ssDNA to study polyreactivity in natural antibody repertoires over the course of B-cell maturation (Wardemann *et al.*, 2003, *Science* 301(5638):1374-7). Protein biochips in which a diverse set of proteins are spotted onto an array for high-throughput ELISAs are another type of screening tool. A chip with ~400 different human proteins from Protagen (Dortmund, Germany) has been reported to compare favorably with IHC staining analysis (Lueking *et al.*, 2008, *Bio Techniques* 45(4):Pi-Pv), as well as a measure of off-target binding of clinically approved TNF-alpha inhibitors (Feyen *et al.*, *Anal Bioanal Chem* 391:1713-1720, 2008). More recently, Frese *et al.* reported on a 384-well assay that measures polyreactivity to 32 test proteins, termed Protein Panel Profiling or 3P (Frese *et al.*, 2013, *MAbs* 5:2, 279-287). Using this assay, the authors showed that FDA-approved therapeutic antibodies show a highly specific profile to the 32 test proteins and apply it to screen candidates from a phage selection process. These particular polyreactivity profiling assays have not yet been correlated with downstream development issues such as solubility, expression, and stability. A recent advance in this area was reported by Hötzel *et al.* 2012 *MAbs* 4(6):753-760, in which a baculovirus particle (BVP) ELISA was shown to predict faster antibody non-target mediated clearance *in vivo*, while traditional biophysical properties such as Size Exclusion Chromatography retention time, Hydrophobic Interaction Chromatography elution time, Fv charge, and pI did not (Hötzel, *et al.*, 2012_MAbs 4(6):753-760). Recently, reagents, methods, and means to assess, predict, select and enrich for developable therapeutic antibodies, and ultimately to generate and obtain developable antibodies, for example from antibody libraries, were disclosed (see, e.g., WO2014/179363).

[0024] While the CD3-targeting approach has shown considerable promise, a common side effect of certain T-cell immunostimulatory therapies is the associated production of cytokines, often leading to toxic cytokine release syndrome (CRS), also known as cytokine storm or cytokine release crisis. Because the anti-CD3 binding domain of the bispecific antibody engages all T cells, the high cytokine-producing CD4+ T cell subset is recruited. Moreover, the CD4+ T cell subset includes regulatory T cells, whose recruitment and expansion can potentially lead to immune suppression and have a negative impact on long-term tumor suppression.

[0025] Cell proliferative disorders, such as cancer, are characterized by the uncontrolled growth of cell subpopulations. They are the leading cause of death in the developed world and the second leading cause of death in developing countries, with over 12 million new cancer cases diagnosed and 7 million cancer deaths occurring each year. The National Cancer Institute

estimates that greater than half a million Americans will die of cancer in 2013, accounting for nearly one out of every four deaths in the country. As the elderly population has grown, the incidence of cancer has concurrently risen, as the probability of developing cancer is more than two-fold higher after the age of seventy. Cancer care thus represents a significant and ever-increasing societal burden. There is, therefore a need for the provision for CD3 binding domains, and antibodies comprising them (including multispecific antibodies), which display desirable developability and/or CRS risk profiles and are safe and efficacious in, for example, binding specifically to CD3 expressed on T-cells, activating T-cells, (re)-directing the activated T-cells to kill target cells, and doing this with diminished risk of eliciting cytokine release syndrome (also known as cytokine storm or cytokine release crisis).

Summary of the Invention

[0026] It has now been discovered, and is disclosed herein and throughout, a large series of CD3 binding domains and antibodies comprising them, and methods of preparing and using them. Members of this large series of CD3 binding domains collectively display a broad range of desirable properties, including, e.g.,: broad of affinities for CD3 epsilon; cross-reactivity towards both human CD3 (“Hu CD3”) and cynomolgus CD3 (“Cy CD3”); as well as desirable developability profiles and/or cytokine release syndrome (CRS) risk profiles, which for many of the CD3 binding domains disclosed herein are observed to be superior to the developability profiles of other anti-CD3 antibodies (e.g., I2C; SP34 ; 38E4; CAB21609_A01, CAB21609_B01, CAB21609_C01, CAB21609_D01 as disclosed herein as well as in Yang et al., J Immunol, Vol 137, pages 1097-1100 (August 4, 1986); US 2014/008295; and WO 2015/095392).

[0027] Advantageously, the CD3 binding domains may be incorporated into essentially any antibody format, including immunoglobulin formats (e.g., IgG, IgM, IgA, IgE, and isotypes thereof), and multispecific (including bispecific) formats. Exemplary multispecific formats that are amenable for incorporation of the inventive CD3 binding domains include, e.g.: Fab-Fc-scFv (“bottle-opener”) (XENCOR), Mab-scFv (XENCOR), Mab-Fv (XENCOR), Dual scFv (XENCOR), central Fv (XENCOR), central scFv (XENCOR), one-arm central scFv (XENCOR), Fab-Fab (XENCOR), Fab-Fv (XENCOR), mAb-Fv (XENCOR), mAb-Fab (XENCOR), DART (MACROGENICS), BiTE (AMGEN/MICROMET), KiTE, common light chain-IgG

(GENENTECH), TandAb (AFFIMED) Cross-Mab (ROCHE), SEED (EMD SERONO), BEAT (GLENMARK), TrioMab (TRION PHARMA/FRESENIUS BIOTECH), DuetMab (MEDIMMUNE), and others, as disclosed, e.g., in (WO 95/09917; WO 2008/119566; WO 2008/119567; WO2011/121110; WO 2010/037835; WO 2007/042261; WO 2007/110205; WO 2011/121110; WO 2012/055961; WO 2012/16067; WO 2016/086189; WO 2016/182751; WO 2015/006749; WO 2014/049003; WO 2013/177101; WO 2015/128509; US 7,951,917; US 2009/0252729; US 2014/0348839; US 7,183,076; Mazor et al., *Mabs*, Vol. 7, pages 377-389 (2015); Muda et al., *Protein Engineering, Design, & Selection*, Vol. 24, pages 447-454 (2011); and Del Bano et al., *Antibodies*, Vol. 5, pages 1-23 (2016).

[0028] As the inventive CD3 binding domains and antibodies comprising them collectively possess a broad range of affinity for cell-surface expressed CD3 and a broad range of T-cell activation and (re)directed target cell killing potency, and are further amenable to essentially any multispecific (including bispecific) antibody format of any valency of interest, the inventive CD3 antibodies may be selected and incorporated into therapeutic molecules designed to target almost any cell type, tissue type, and physiological compartment, and thus may serve as components of therapeutic molecules designed to address almost any disease type or disease state.

[0029] In certain embodiments, the invention provides CD3 binding domains and antibodies comprising them that bind to CD3 (e.g., CD3 ϵ and/or CD3 γ).

[0030] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them are provided which display an enhanced developability profile relative to other CD3 binding domains (or antibodies comprising them). In certain embodiments, the inventive CD3 binding domains and antibodies comprising them are provided which display an enhanced developability profile relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blinicyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0031] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them display a developability score of: between about 0 MFI and about 500 MFI; between about 0 MFI and about 450 MFI; between about 0 MFI and about 400 MFI; between about 0 MFI and about 350 MFI; between about 0 MFI and about 300 MFI; between about 0

MFI and about 250 MFI; between about 0 MFI and about 200 MFI; between about 0 MFI and about 150 MFI; between about 0 MFI and about 100 MFI; between about 0 MFI and about 50 MFI; between about 200 MFI and 500 MFI; between about 200 MFI and about 450 MFI; between about 200 MFI and about 400 MFI; between about 200 MFI and about 350 MFI; between about 200 MFI and about 300 MFI; between about 200 MFI and about 250 MFI; between about 100 MFI and about 450 MFI; between about 100 MFI and about 400 MFI; between about 100 MFI and about 350 MFI; between about 100 MFI and about 300 MFI; between about 100 MFI and about 250 MFI; between about 100 MFI and about 200 MFI; or between about 100 MFI and about 150 MFI.

[0032] In other embodiments, the inventive CD3 binders and antibodies comprising them display a normalized developability score of between about 0.0 and about 0.6; between about 0.0 and about 0.57; between about 0.0 and about 0.55; between about 0.0 and about 0.53; between about 0.0 and about 0.51; between about 0.0 and about 0.49; between about 0.0 and about 0.47; between about 0.0 and about 0.45; between about 0.0 and about 0.43; between about 0.0 and about 0.41; between about 0.0 and about 0.39; between about 0.0 and about 0.37; between about 0.0 and about 0.35; between about 0.0 and about 0.33; between about 0.0 and about 0.31; between about 0.0 and about 0.29; between about 0.0 and about 0.27; between about 0.0 and about 0.25; between about 0.0 and about 0.23; between about 0.0 and about 0.21; between about 0.0 and about 0.19; between about 0.0 and about 0.17; between about 0.0 and about 0.15; between about 0.0 and about 0.13; between about 0.0 and about 0.11; between about 0.0 and about 0.09; between about 0.0 and about 0.07; or between about 0.0 and about 0.05.

[0033] In certain embodiments, the developability profile and/or developability score for the inventive CD3 binders and antibodies comprising them is obtained by performing a PSR assay; an SCP assay; AS-CINS; a BVP assay; an ELISA; a DSF assay; a T_m assay; a HIC assay; a CIC assay; or combinations thereof.

[0034] In other embodiments, the inventive CD3 binding domains and antibodies comprising them elicit potent T cell activation or T cell killing while displaying a decreased propensity to elicit cytokine production to levels capable of inducing cytokine release syndrome. In certain embodiments, at least one cytokine for which cytokine production levels are measured in order to assess the propensity to elicit cytokine production levels capable of inducing cytokine

release syndrome is selected from the group consisting of: Interleukin 6 (IL-6); Interleukin 12 (IL-12); tumor necrosis factor alpha (TNF α); (TGF β); Interleukin 2 (IL-2); and Interferon gamma (IFN γ).

[0035] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them elicit T cell activation or T cell killing while displaying a decreased propensity to elicit cytokine production to levels capable of inducing cytokine release relative to that observed one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blinicyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2. In certain embodiments, at least one cytokine for which cytokine production levels are measured in order to assess the propensity to elicit cytokine production levels capable of inducing cytokine release syndrome is selected from the group consisting of: Interleukin 6 (IL-6); Interleukin 12 (IL-12); tumor necrosis factor alpha (TNF α); (TGF β); Interleukin 2 (IL-2); and Interferon gamma (IFN γ).

[0036] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them display a cytokine release syndrome risk profile that is indicative of decreased risk of eliciting cytokine release syndrome (CRS). In other embodiments, the inventive CD3 binding domains and antibodies comprising them display a cytokine release syndrome risk profile that is indicative of decreased risk of eliciting cytokine release syndrome (CRS) when compared to the cytokine release syndrome risk profile assessed for one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blinicyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0037] In certain embodiments, the invention provides an antibody comprising a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as

provided in Table 2; with the proviso that the CDRH3 is not 100% identical to the CDRH3 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0038] In certain embodiments, the invention provides an antibody comprising a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH2 is not 100% identical to the CDRH2 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0039] In certain embodiments, the invention provides an antibody comprising a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH1 is not 100% identical to the CDRH1 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0040] In certain embodiments, the invention provides an antibody comprising a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL3 selected from the group consisting of the CDRL3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as

provided in Table 2; with the proviso that the CDRL3 is not 100% identical to the CDRL3 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0041] In certain embodiments, the invention provides an antibody comprising a CDRL2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL2 selected from the group consisting of the CDRL2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRL2 is not 100% identical to the CDRL2 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0042] In certain embodiments, the invention provides an antibody comprising a CDRL1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL1 selected from the group consisting of the CDRL1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRL1 is not 100% identical to the CDRL1 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0043] In certain embodiments, the invention provides an antibody comprising a heavy chain (HC) that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; an HC selected from the group consisting of the HCs of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided

in Table 2; with the proviso that the HC is not 100% identical to the HC of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0044] In certain embodiments, the invention provides an antibody comprising a light chain (LC) that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; an LC selected from the group consisting of the LCs of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the LC is not 100% identical to the LC of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0045] In certain embodiments, the invention provides an antibody comprising a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at

least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the neither the CDRH3, CDRH2, nor the CHRH1 is 100% identical to the CHRH3, CDRH2, or CDRH1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0046] In certain embodiments, the invention provides an antibody comprising a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL3 selected from the group consisting of the CDRL3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRL2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL2 selected from the group consisting of the CDRL2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and a CDRL1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical; to a CDRL1 selected from the group consisting of the CDRL1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the

neither the CDRL3, CDRL2, nor the CHRL1 is 100% identical to the CHRL3, CDRL2, or CDRL1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0047] In certain embodiments, the invention provides an antibody comprising a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at

least 80% identical to; a CDRL3 selected from the group consisting of the CDRL3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRL2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL2 selected from the group consisting of the CDRL2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and a CDRL1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL1 selected from the group consisting of the CDRL1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the neither the CDRH3, CDRH2, CDRH1, CDRL3, CDHL2, nor the CHRL1 is 100% identical to the CHRH3, CDRH2, CDRH1, CDRL3, CDHL2, or the CDRL1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0048] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-15512; ADI-15516; and ADI-16513; as provided in Table 2.

[0049] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-18562; ADI-18564; ADI-18565; ADI-18566; ADI-18567; ADI-18568; ADI-18570; ADI-18571; ADI-18572; ADI-18573; ADI-18563; ADI-18569; ADI-18574; ADI-18575; ADI-18576; ADI-18578; ADI-18579; ADI-18580; ADI-18581; ADI-18582; ADI-18584; ADI-18585; ADI-18577; ADI-18583; ADI-18588; ADI-18589; ADI-18590; ADI-18591; ADI-18593; ADI-18594; ADI-18595;

ADI-18596; ADI-18597; ADI-18592; ADI-18587; ADI-18586; and; ADI-16606; as provided in Table 2.

[0050] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-18576; ADI-20820; ADI-20578; ADI-20571; ADI-21097; ADI-20577; ADI-20576; ADI-20568; ADI-20582; ADI-20575; ADI-20567; ADI-20574; ADI-20573; ADI-20579; ADI-18565; ADI-20818; ADI-20587; ADI-20588; ADI-20589; ADI-20590; ADI-20594; ADI-20596; ADI-20599; ADI-20605; ADI-20607; ADI-20608; and ADI-20609; as provided in Table 2.

[0051] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-16606; ADI-20587; ADI-20607; ADI-20590; ADI-28708; ADI-28709; ADI-28710; ADI-21943; ADI-28711; ADI-28712; ADI-28713; ADI-28714; ADI-28715; ADI-21944; ADI-28716; ADI-21945; ADI-21946; ADI-28717; ADI-21947; ADI-28718; ADI-28719; ADI-28720; ADI-28721; ADI-28722; ADI-28723; ADI-28724; ADI-28725; ADI-28726; ADI-28727; ADI-28728; ADI-28729; ADI-28730; ADI-28731; ADI-28732; ADI-28733; ADI-28734; ADI-28735; ADI-28736; ADI-28737; ADI-28738; ADI-28739; ADI-28740; ADI-28741; ADI-28742; ADI-28743; ADI-21948; ADI-21949; ADI-28744; ADI-21950; ADI-28745; ADI-28746; ADI-28747; ADI-28748; ADI-21951; ADI-21952; ADI-28749; ADI-28750; ADI-28751; ADI-21953; ADI-28752; ADI-21954; ADI-28753; ADI-28754; ADI-28755; ADI-28756; ADI-28757; ADI-28758; ADI-28759; ADI-28760; ADI-28761; ADI-28762; ADI-28763; ADI-28764; ADI-28765; ADI-28766; ADI-28767; ADI-28768; ADI-21955; ADI-28769; ADI-28770; ADI-21956; ADI-28771; ADI-28772; ADI-28773; ADI-28774; and ADI-28775; as provided in Table 2.

[0052] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-21959; ADI-21963; ADI-21965; ADI-21967; ADI-21970; ADI-21971; ADI-21972; ADI-21973; ADI-21974; ADI-21975; ADI-21976; ADI-21977; ADI-21978; ADI-21979; ADI-21943; ADI-21944; ADI-21945; ADI-21946; ADI-21947; ADI-21948; ADI-21949; ADI-21950; ADI-21951; ADI-21952; ADI-21953; ADI-21954; ADI-21955; and ADI-21956; as provided in Table 2.

[0053] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-21952;

ADI-22523; ADI-24403; ADI-24404; ADI-24405; ADI-24407; ADI-24408; ADI-24409; ADI-24410; ADI-24411; ADI-24412; ADI-24413; ADI-24414; ADI-24415; ADI-24416; ADI-24417; ADI-24418; ADI-24434; ADI-24435; ADI-24436; ADI-24437; ADI-24438; ADI-24439; ADI-24440; ADI-24441; ADI-24442; ADI-24443; ADI-24444; ADI-24445; ADI-24446; ADI-24449; ADI-24388; ADI-24389; ADI-24390; ADI-24391; ADI-24392; ADI-24393; ADI-24394; ADI-24395; ADI-24396; ADI-24397; ADI-24398; ADI-24399; ADI-24400; ADI-24401; ADI-24402; ADI-24419; ADI-24420; ADI-24421; ADI-24422; ADI-24423; ADI-24424; ADI-24425; ADI-24426; ADI-24427; ADI-24428; ADI-24429; ADI-24430; ADI-24431; ADI-24432; ADI-24433; ADI-24447; and ADI-24448; as provided in Table 2.

[0054] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-23652; ADI-23653; ADI-23654; ADI-23655; ADI-23656; ADI-23657; ADI-23658; ADI-23651; ADI-23644; ADI-23645; ADI-23646; ADI-23647; ADI-23648; ADI-23649; ADI-23650; ADI-23667; ADI-23668; ADI-23669; ADI-23670; ADI-23671; ADI-23672; ADI-23673; ADI-23659; ADI-23660; ADI-23661; ADI-23663; ADI-23664; ADI-23639; ADI-23641; ADI-23642; ADI-23640; ADI-23643; ADI-21952; ADI-23633; ADI-23634; ADI-23635; ADI-23636; ADI-23637; ADI-23638; ADI-23632; and ADI-23629; as provided in Table 2.

[0055] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26909; ADI-26910; ADI-26912; ADI-26913; ADI-26915; ADI-26916; ADI-26917; ADI-26918; ADI-26919; ADI-26920; ADI-26921; ADI-26924; ADI-26925; ADI-26927; ADI-26928; ADI-26929; ADI-26930; ADI-26932; ADI-26933; ADI-26938; ADI-26939; ADI-26940; ADI-26941; ADI-26942; ADI-26943; ADI-26944; ADI-26945; ADI-26950; ADI-26954; ADI-23672; ADI-23673; ADI-23664; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26968; ADI-26969; ADI-26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; ADI-26994; and ADI-26995; as provided in Table 2.

[0056] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26910; ADI-26913; ADI-26915; ADI-26919; ADI-26920; ADI-26921; ADI-26943; ADI-26954; ADI-21952; ADI-26955; ADI-26956; ADI-26962; ADI-26978; ADI-26983; and ADI-26994; as provided in Table 2.

[0057] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: ADI-15512; ADI-16513; ADI-15516; ADI-18565; ADI-18589; ADI-18585; ADI-18590; ADI-18576; ADI-20568; ADI-20580; ADI-21978; ADI-22523; ADI-25133; and ADI-26906.

[0058] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: ADI-16606; ADI-29601; ADI-29602; ADI-29603; ADI-20587; ADI-20607; ADI-20590; ADI-21952; ADI-23633; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26961; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26967; ADI-26968; ADI-26969; ADI-26970; ADI-26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; and ADI-26994.

[0059] In certain embodiments either alone or in combination with other embodiments of the invention, the inventive CD3 binding domains and antibodies comprising them display a decreased propensity for degradation relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0060] In certain embodiments either alone or in combination with other embodiments of the invention, the inventive CD3 binding domains and antibodies comprising them display a decreased CRS risk profile relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0061] In certain embodiments either alone or in combination with other embodiments, provided are CD3 binding domains and antibodies comprising them display a decreased propensity for degradation relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0062] In certain embodiments and/or in combination with any of the embodiments disclosed herein and throughout, provided are CD3 binding domains and antibodies comprising them that are humanized. In certain embodiments, such CD3 binding domains comprise CDRs of such other embodiments, and further comprise an acceptor human framework, e.g., a human immunoglobulin framework or a human consensus framework.

[0063] In certain embodiments and/or in combination with any of the embodiments disclosed herein and throughout provided are CD3 binding domains and antibodies comprising them comprising a VH as in any of the embodiments provided herein and throughout, and a VL as in any of the embodiments provided herein and throughout, wherein one or both of the variable domain sequences include post-translational modifications.

[0064] In a further aspect of the invention, provided are CD3 binding domains and antibodies comprising them that bind to the same epitope as a CD3 binding domain provided in the other embodiments disclosed therein and throughout.

[0065] In certain embodiments, CD3 binding domains and/or antibodies comprising them have a CD3 dissociation constant (Kd) of $\leq 1 \mu\text{M}$, $\leq 100 \text{ nM}$, $\leq 10 \text{ nM}$, $\leq 1 \text{ nM}$, $\leq 0.1 \text{ nM}$, $\leq 0.01 \text{ nM}$, or $\leq 0.001 \text{ nM}$ (e.g., 10^{-8}M or less, e.g., from 10^{-8}M to 10^{-13}M , e.g., from 10^{-9}M to 10^{-13}M).

[0066] In a further aspect of the invention, CD3 binding domains and antibodies comprising them comprise a multispecific antibody. In a further aspect of the invention, CD3 binding domains and antibodies comprising them comprise a bispecific antibody.

[0067] In a further aspect of the invention, CD3 binding domains and antibodies comprising them comprise at least a second antigen binding domain that specifically binds to an oncology target; an immune-oncology target; a neurodegenerative disease target; an autoimmune

disorder target; an infectious disease target; a metabolic disease target; a cognitive disorder target; a blood-brain barrier target; or a blood disease target.

[0068] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody wherein the multispecific antibody comprises a second binding domain having specificity for a second antigen selected from the group consisting of: 0772P (CA125, MUC16; Genbank accession no. AF36148); adipophilin (perilipin-2, Adipose differentiation-related protein, ADRP, ADFP, MGC10598; NCBI Reference Sequence: NP—001113.2); AIM-2 (Absent In Melanoma 2, PYHIN4, Interferon-Inducible Protein AIM2; NCBI Reference Sequence: NP—004824.1); ALDH1 A1 (Aldehyde Dehydrogenase 1 Family, Member A1, ALDH1, PUMB1, Retinaldehyde Dehydrogenase 1, ALDC, ALDH-E1, ALHDII, RALDH 1, EC 1.2.1.36, ALDH11, HEL-9, HEL-S-53e, HEL12, RALDH1, Acetaldehyde Dehydrogenase 1, Aldehyde Dehydrogenase 1, Soluble, Aldehyde Dehydrogenase, Liver Cytosolic, ALDH Class 1, Epididymis Luminal Protein 12, Epididymis Luminal Protein 9, Epididymis Secretory Sperm Binding Protein Li 53e, Retinal Dehydrogenase 1, RaIDH1, Aldehyde Dehydrogenase Family 1 Member A1, Aldehyde Dehydrogenase, Cytosolic, EC 1.2.1; NCBI Reference Sequence: NP—000680.2); alpha-actinin-4 (ACTN4, Actinin, Alpha 4, FSGS1, Focal Segmental Glomerulosclerosis 1, Non-Muscle Alpha-Actinin 4, F-Actin Cross-Linking Protein, FSGS, ACTININ-4, Actinin Alpha4 Isoform, alpha-actinin-4; NCBI Reference Sequence: NP—004915.2); alpha-fetoprotein (AFP, HPAFP, FETA, alpha-1-fetoprotein, alpha-fetoglobulin, Alpha-1-fetoprotein, Alpha-fetoglobulin, HP; GenBank: AAB58754.1); Amphiregulin (AREG, SDGF, Schwannoma-Derived Growth Factor, Colorectum Cell-Derived Growth Factor, AR, CRDGF; GenBank: AAA51781.1); ARTC1 (ART1, ADP-Ribosyltransferase 1, Mono(ADP-Ribosyl)Transferase 1, ADP-Ribosyltransferase C2 And C3 Toxin-Like 1, ART2, CD296, RT6, ADP-Ribosyltransferase 2, GPI-Linked NAD(P)(+)-Arginine ADP-Ribosyltransferase 1, EC 2.4.2.31, CD296 Antigen; NP); ASLG659; ASPHD1 (Aspartate Beta-Hydroxylase Domain Containing 1, Aspartate Beta-Hydroxylase Domain-Containing Protein 1, EC 1.14.11., GenBank: AAI44153.1); B7-H4 (VTCN1, V-Set Domain Containing T Cell Activation Inhibitor 1, B7H4, B7 Superfamily Member 1, Immune Costimulatory Protein B7-H4, B7h.5, T-Cell Costimulatory Molecule B7x, B7S1, B7X, VCTN1, H4, B7 Family Member, PRO1291, B7 Family Member, H4, T Cell Costimulatory Molecule B7x, V-Set Domain-Containing T-Cell Activation Inhibitor 1, Protein B7S1; GenBank:

AAZ17406.1); BAFF-R (TNFRSF13C, Tumor Necrosis Factor Receptor Superfamily, Member 13C, BAFFR, B-Cell-Activating Factor Receptor, BAFF Receptor, BLyS Receptor 3, CVID4, BROMIX, CD268, B Cell-Activating Factor Receptor, prolixin, Tumor Necrosis Factor Receptor Superfamily Member 13C, BR3, CD268 Antigen; NCBI Reference Sequence: NP—443177.1); BAGE-1; BCLX (L); BCR-ABL fusion protein (b3a2); beta-catenin (CTNNB1, Catenin (Cadherin-Associated Protein), Beta 1, 88 kDa, CTNNB, MRD19, Catenin (Cadherin-Associated Protein), Beta 1 (88kD), armadillo, Catenin Beta-1; GenBank: CAA61107.1); BING-4 (WDR46, WD Repeat Domain 46, C6orf11, BING4, WD Repeat-Containing Protein BING4, Chromosome 6 Open Reading Frame 11, FP221, UTP7, WD Repeat-Containing Protein 46; NP); BMPR1 B (bone morphogenetic protein receptor-type IB, Genbank accession no. NM—00120; NP); B-RAF (Brevican (BCAN, BEHAB, Genbank accession no. AF22905); Brevican (BCAN, Chondroitin Sulfate Proteoglycan 7, Brain-Enriched Hyaluronan-Binding Protein, BEHAB, CSPG7, Brevican Proteoglycan, Brevican Core Protein, Chondroitin Sulfate Proteoglycan BEHAB; GenBank: AAH27971.1); CALCA (Calcitonin-Related Polypeptide Alpha, CALC1, Calcitonin 1, calcitonin, Alpha-Type CGRP, Calcitonin Gene-Related Peptide I, CGRP-I, CGRP, CGRP1, CT, KC, Calcitonin/Calcitonin-Related Polypeptide, Alpha, katacalcin; NP); CASP-5 (CASP5, Caspase 5, Apoptosis-Related Cysteine Peptidase, Caspase 5, Apoptosis-Related Cysteine Protease, Protease ICH-3, Protease TY, ICE(rel)-111, ICE(rel)III, ICEREL-III, ICH-3, caspase-5, TY Protease, EC 3.4.22.58, ICH3, EC 3.4.22; NP); CASP-8; CD19 (CD19-B-lymphocyte antigen CD19 isoform 2 precursor, B4, CVID3 [Homo sapiens], NCBI Reference Sequence: NP—001761.3); CD20 (CD20-B-lymphocyte antigen CD20, membrane-spanning 4-domains, subfamily A, member 1, B1,Bp35,CD20,CVID5,LEU-16,MS4A2,S7; NCBI Reference Sequence: NP—690605.1); CD21 (CD21 (CR2 (Complement receptor or C3DR (C3d/Epstein Barr virus receptor) or Hs.73792 Genbank accession no. M2600); (CD22 (B-cell receptor CD22-B isoform, BL-CAM, Lyb-8, LybB, SIGLEC-2, FLJ22814, Genbank accession No. AK02646); CD22; CD33 (CD33 Molecule, CD33 Antigen (Gp67), Sialic Acid Binding Ig-Like Lectin 3, Sialic Acid-Binding Ig-Like Lectin 3, SIGLEC3, gp67, SIGLEC-3, Myeloid Cell Surface Antigen CD33, p67, Siglec-3, CD33 Antigen; GenBank: AAH28152.1); CD45; CD70 (CD70-tumor necrosis factor (ligand) superfamily, member 7; surface antigen CD70; Ki-24 antigen; CD27 ligand; CD27-L; tumor necrosis factor ligand superfamily member 7; NCBI Reference Sequence for species homo sapiens: NP—001243.1); CD72 (CD72 (B-cell differentiation

antigen CD72, Lyb-; 359 aa, μ l: 8.66, MW: 40225, TM: 1 [P] Gene Chromosome: 9p13.3, Genbank accession No. NP—001773.); CD79a (CD79a (CD79A, CD79a, immunoglobulin-associated alpha, a B cell-specific protein that covalently interacts with Ig beta (CD79B) and forms a complex on the surface with Ig M molecules, transduces a signal involved in B-cell differentiation), μ l: 4.84, MW: 25028 TM: 2 [P] Gene Chromosome: 19q13.2, Genbank accession No. NP—001774.1); CD79b (CD79b (CD79B, CD79b, Igb (immunoglobulin-associated beta), B29, Genbank accession no. NM—000626 or 1103867); Cdc27 (Cell Division Cycle 27, D0S1430E, D17S978E, Anaphase Promoting Complex Subunit 3, Anaphase-Promoting Complex Subunit 3, ANAPC3, APC3, CDC27Hs, H-NUC, CDC27 Homolog, Cell Division Cycle 27 Homolog (S. Cerevisiae), HNUC, NUC2, Anaphase-Promoting Complex, Protein 3, Cell Division Cycle 27 Homolog, Cell Division Cycle Protein 27 Homolog, Nuc2 Homolog; GenBank: AAH11656.1); CDK4 (Cyclin-Dependent Kinase 4, Cell Division Protein Kinase 4, PSK-J3, EC 2.7.11.22, CMM3, EC 2.7.11; NCBI Reference Sequence: NP—000066.1); CDKN2A (Cyclin-Dependent Kinase Inhibitor 2A, MLM, CDKN2, MTS1, Cyclin-Dependent Kinase Inhibitor 2A (Melanoma, P16, Inhibits CDK4), Cyclin-Dependent Kinase 4 Inhibitor A, Multiple Tumor Suppressor 1, CDK4I, MTS-1, CMM2, P16, ARF, INK4, INK4A, P14, P14ARF, P16-INK4A, P16INK4, P16INK4A, P19, P19ARF, TP16, CDK4 Inhibitor P16-INK4, Cell Cycle Negative Regulator Beta, p14ARF, p16-INK4, p16-INK4a, p16INK4A, p19ARF; NP); CEA; CLL1 (CLL-1 (CLEC12A, MICL, and DCAL, encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signaling, glycoprotein turnover, and roles in inflammation and immune response. The protein encoded by this gene is a negative regulator of granulocyte and monocyte function. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. This gene is closely linked to other CTL/CTLD superfamily members in the natural killer gene complex region on chromosome 12p13 (Drickamer, K Curr. Opin. Struct. Biol. 9:585-90 [1999]; van Rhenen, A, et al., Blood 110:2659-66 [2007]; Chen C H, et al. Blood 107:1459-67 [2006]; Marshall A S, et al. Eur. J. Immunol. 36:2159-69 [2006]; Bakker A B, et al Cancer Res. 64:8443-50 [2004]; Marshall A S, et al J. Biol. Chem. 279:14792-80, 2004. CLL-1 has been shown to be a type II transmembrane receptor comprising a single C-type lectin-like domain (which is not predicted to bind either calcium or

sugar), a stalk region, a transmembrane domain and a short cytoplasmic tail containing an ITIM motif.); CLPP (Caseinolytic Mitochondrial Matrix Peptidase Proteolytic Subunit, Endopeptidase Clp, EC 3.4.21.92, PRLTS3, ATP-Dependent Protease ClpAP (*E. coli*), ClpP (Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit, *E. coli*) Homolog, ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog (*E. coli*), ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog (*E. coli*), human, Proteolytic Subunit, ATP-Dependent Protease ClpAP, Proteolytic Subunit, Human, ClpP Caseinolytic Peptidase ATP-Dependent, Proteolytic Subunit, ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog, ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog, Putative ATP-Dependent Clp Protease Proteolytic Subunit, Mitochondrial; NP); COA-1; CPSF; CRIPTO (CRIPTO (CR, CR1, CRGF, CRIPTO, TDGF1, teratocarcinoma-derived growth factor, Genbank accession no. NP—003203 or NM—00321); Cw6; CXCR5 CXCR5 (Burkitt's lymphoma receptor 1, a G protein-coupled receptor that is activated by the CXCL13 chemokine, functions in lymphocyte migration and humoral defense, plays a role in HIV-2 infection and perhaps development of AIDS, lymphoma, myeloma, and leukemia); 372 aa, pI: 8.54 MW: 41959 TM: 7 [P] Gene Chromosome: 11q23.3, Genbank accession No. NP—001707.); CXORF61 CXORF61—chromosome X open reading frame 61[Homo sapiens], NCBI Reference Sequence: NP—001017978.1); cyclin D1 (CCND1, BCL1, PRAD1, D11S287E, B-Cell CLL/Lymphoma 1, B-Cell Lymphoma 1 Protein, BCL-1 Oncogene, PRAD1 Oncogene, Cyclin D1 (PRAD1: Parathyroid Adenomatosis 1), G1/S-Specific Cyclin D1, Parathyroid Adenomatosis 1, U21B31, G1/S-Specific Cyclin-D1, BCL-1; NCBI Reference Sequence: NP—444284.1); Cyclin-A1 (CCNA1, CT146, Cyclin A1; GenBank: AAH36346.1); dek-can fusion protein; DKK1 (Dickkopf WNT Signaling Pathway Inhibitor 1, SK, hDkk-1, Dickkopf (*Xenopus Laevis*) Homolog 1, Dickkopf 1 Homolog (*Xenopus Laevis*), DKK-1, Dickkopf 1 Homolog, Dickkopf Related Protein-1, Dickkopf-1 Like, Dickkopf-Like Protein 1, Dickkopf-Related Protein 1, Dickkopf-1, Dkk-1; GenBank: AAQ89364.1); DR1 (Down-Regulator Of Transcription 1, TBP-Binding (Negative Cofactor 2), Negative Cofactor 2-Beta, TATA-Binding Protein-Associated Phosphoprotein, NC2, NC2-BETA, Protein Dr1, NC2-beta, Down-Regulator Of Transcription 1; NCBI Reference Sequence: NP—001929.1); DR13 (Major Histocompatibility Complex, Class II, DR Beta 1, HLA-DR1B, DRw10, DW2.2/DR2.2, SS1, DRB1, HLA-DRB, HLA Class II Histocompatibility Antigen, DR-1 Beta Chain, Human Leucocyte Antigen DRB1, Lymphocyte

Antigen DRB1, MHC Class II Antigen, MHC Class II HLA-DR Beta 1 Chain, MHC Class II HLA-DR-Beta Cell Surface Glycoprotein, MHC Class II HLA-DRw10-Beta, DR-1, DR-12, DR-13, DR-14, DR-16, DR-4, DR-5, DR-7, DR-8, DR-9, DR1, DR12, DR13, DR14, DR16, DR4, DR5, DR7, DRB, DR9, DRw11, DRw8, HLA-DRB2, Clone P2-Beta-3, MHC Class II Antigen DRB1*1, MHC Class II Antigen DRB1*10, MHC Class II Antigen DRB1*11, MHC Class II Antigen DRB1*12, MHC Class II Antigen DRB1*13, MHC Class II Antigen DRB1*14, MHC Class II Antigen DRB1*15, MHC Class II Antigen DRB1*16, MHC Class II Antigen DRB1*3, MHC Class II Antigen DRB1*4, MHC Class II Antigen DRB1*7, MHC Class II Antigen DRB1*8, MHC Class II Antigen DRB1*9; NP); E16 (E16 (LAT1, SLC7A5, Genbank accession no. NM—00348); EDAR (EDAR— tumor necrosis factor receptor superfamily member EDAR precursor, EDA-A1 receptor; downless homolog; ectodysplasin-A receptor; ectodermal dysplasia receptor; anhidrotic ectodysplasin receptor 1, DL; ECTD10A; ECTD10B; ED1R; ED3; ED5; EDA-A1R; EDA1R; EDA3; HRM1 [Homo sapiens]; NCBI Reference Sequence: NP—071731.1); EFTUD2 (Elongation Factor Tu GTP Binding Domain Containing 2, Elongation Factor Tu GTP-Binding Domain-Containing Protein 2, hSNU114, SNU114 Homolog, U5 SnRNP-Specific Protein, 116 KDa, MFDGA, KIAA0031, 116 KD, U5 SnRNP Specific Protein, 116 KDa U5 Small Nuclear Ribonucleoprotein Component, MFDM, SNRNP116, Snrp116, Snu114, U5-116KD, SNRNP116, U5-116 KDa; GenBank: AAH02360.1); EGFR (Epidermal Growth Factor Receptor, ERBB, Proto-Oncogene C-ErbB-1, Receptor Tyrosine-Protein Kinase ErbB-1, ERBB1, HER1, EC 2.7.10.1, Epidermal Growth Factor Receptor (Avian Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog), Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog (Avian), PLG61, Avian Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog, Cell Growth Inhibiting Protein 40, Cell Proliferation-Inducing Protein 61, mENA, EC 2.7.10; GenBank: AAH94761.1); EGFR-G719A; EGFR-G719C; EGFR-G719S; EGFR-L858R; EGFR-L861 Q; EGFR-57681; EGFR-T790M; Elongation factor 2 (EEF2, Eukaryotic Translation Elongation Factor 2, EF2, Polypeptidyl-TRNA Translocase, EF-2, SCA26, EEF-2; NCBI Reference Sequence: NP—001952.1); ENAH (hMena) (Enabled Homolog (Drosophila), MENA, Mammalian Enabled, ENA, NDPP1, Protein Enabled Homolog; GenBank: AAH95481.1)—results for just “ENAH” not “ENAH (hMena)”; EpCAM (Epithelial Cell Adhesion Molecule, M4S1, MIC18, Tumor-Associated Calcium Signal Transducer 1, TACSTD1, TROP1, Adenocarcinoma-Associated Antigen, Cell Surface Glycoprotein Trop-1,

Epithelial Glycoprotein 314, Major Gastrointestinal Tumor-Associated Protein GA733-2, EGP314, KSA, DIAR5, HNPCC8, Antigen Identified By Monoclonal Antibody AUA1, EGP-2, EGP40, ESA, KS1/4, MK-1, Human Epithelial Glycoprotein-2, Membrane Component, Chromosome 4, Surface Marker (35kD Glycoprotein), EGP, Ep-CAM, GA733-2, M1S2, CD326 Antigen, Epithelial Cell Surface Antigen, hEGP314, KS 1/4 Antigen, ACSTD1; GenBank: AAH14785.1); EphA3 (EPH Receptor A3, ETK1, ETK, TYRO4, HEK, Eph-Like Tyrosine Kinase 1, Tyrosine-Protein Kinase Receptor ETK1, EK4, EPH-Like Kinase 4, EC 2.7.10.1, EPHA3, HEK4, Ephrin Type-A Receptor 3, Human Embryo Kinase 1, TYRO4 Protein Tyrosine Kinase, hEK4, Human Embryo Kinase, Tyrosine-Protein Kinase TYRO4, EC 2.7.10; GenBank: AAH63282.1); EphB2R; Epiregulin (EREG, ER, proepiregulin; GenBank: AAI36405.1); ETBR (EDNRB, Endothelin Receptor Type B, HSCR2, HSCR, Endothelin Receptor Non-Selective Type, ET-B, ET-BR, ETRB, ABCDS, WS4A, ETB, Endothelin B Receptor; NP); ETV6-AML1 fusion protein; EZH2 (Enhancer Of Zeste Homolog 2 (Drosophila), Lysine N-Methyltransferase 6, ENX-1, KMT6 EC 2.1.1.43, EZH1, WVS, Enhancer Of Zeste (Drosophila) Homolog 2, ENX1, EZH2b, KMT6A, WVS2, Histone-Lysine N-Methyltransferase EZH2, Enhancer Of Zeste Homolog 2, EC 2.1.1; GenBank: AAH10858.1); FcRH1 (FCRL1, Fc Receptor-Like 1, FCRH1, Fc Receptor Homolog 1, FcR-Like Protein 1, Immune Receptor Translocation-Associated Protein 5, IFGP1, IRTA5, hIFGP1, IFGP Family Protein 1, CD307a, Fc Receptor-Like Protein 1, Immunoglobulin Superfamily Fc Receptor, Gp42, FcRL1, CD307a Antigen; GenBank: AAH33690.1); FcRH2 (FCRL2, Fc Receptor-Like 2, SPAP1, SH2 Domain-Containing Phosphatase Anchor Protein 1, Fc Receptor Homolog 2, FcR-Like Protein 2, Immunoglobulin Receptor Translocation-Associated Protein 4, FCRH2, IFGP4, IRTA4, IFGP Family Protein 4, SPAP1A, SPAP1 B, SPAP1C, CD307b, Fc Receptor-Like Protein 2, Immune Receptor Translocation-Associated Protein 4, Immunoglobulin Superfamily Fc Receptor, Gp42, SH2 Domain Containing Phosphatase Anchor Protein 1, FcRL2, CD307b Antigen; GenBank: AAQ88497.1); FcRH5 (FCRL5, Fc Receptor-Like 5, IRTA2, Fc Receptor Homolog 5, FcR-Like Protein 5, Immune Receptor Translocation-Associated Protein 2, BXMAS1, FCRH5, CD307, CD307e, PRO820, Fc Receptor-Like Protein 5, Immunoglobulin Superfamily Receptor Translocation Associated 2 (IRTA2), FCRL5, CD307e Antigen; GenBank: AAI01070.1); FLT3-ITD; FN1(Fibronectin 1, Cold-Insoluble Globulin, FN, Migration-Stimulating Factor, CIG, FNZ, GFND2, LETS, ED-B, FINC, GFND, MSF, fibronectin; GenBank: AAI43764.1); G250 (MN,

CAIX, Carbonic Anhydrase IX, Carbonic Dehydratase, RCC-Associated Protein G250, Carbonate Dehydratase IX, Membrane Antigen MN, Renal Cell Carcinoma-Associated Antigen G250, CA-IX, P54/58N, pMW1, RCC-Associated Antigen G250, Carbonic Anhydrase 9; NP);— alias results for “G250” not “G250/MN/CAIX”; GAGE-1,2,8; GAGE-3,4,5,6,7; GDNF-Ra1 (GDNF family receptor alpha 1; GFRA1; GDNFR; GDNFRA; RETL1; TRNR1; RET1 L; GDNFR-alpha1; GFR-ALPHA-; U95847; BC014962; NM—145793 NM—005264); GEDA (Genbank accession No. AY26076); GFRA1—GDNF family receptor alpha-1; GDNF receptor alpha-1; GDNFR-alpha-1; GFR-alpha-1; RET ligand 1; TGF-beta-related neurotrophic factor receptor 1 [Homo sapiens]; ProtKB/Swiss-Prot: P56159.2; glypican-3 (GPC3, Glypican 3, SDYS, Glypican Proteoglycan 3, Intestinal Protein OCI-5, GTR2-2, MXR7, SGBS1, DGXS, OCI-5. SGB, SGBS, Heparan Sulphate Proteoglycan, Secreted Glypican-3, OCI5; GenBank: AAH35972.1); GnTVf; gp100 (PMEL, Premelanosome Protein, SILV, D12S53E, PMEL17, SIL, Melanocyte Protein Pmel 17, Melanocytes Lineage-Specific Antigen GP100, Melanoma-Associated ME20 Antigen, Silver Locus Protein Homolog, ME20-M, ME20M, P1, P100, Silver (Mouse Homolog) Like, Silver Homolog (Mouse), ME20, SI, Melanocyte Protein Mel 17, Melanocyte Protein PMEL, Melanosomal Matrix Protein17, Silver, Mouse, Homolog Of; GenBank: AAC60634.1); GPC; GPNMB (Glycoprotein (Transmembrane) Nmb, Glycoprotein NMB, Glycoprotein Nmb-Like Protein, osteoactivin, Transmembrane Glycoprotein HGFIN, HGFIN, NMB, Transmembrane Glycoprotein, Transmembrane Glycoprotein NMB; GenBank: AAH32783.1); GPR172A (G protein-coupled receptor 172A; GPCR41; FLJ11856; D15Ert747e); NP—078807.1; NM—024531.3); GPR19 (G protein-coupled receptor 19; Mm.478; NP—006134.1; NM—006143.2); GPR54 (KISS1 receptor; KISS1R; GPR54; HOT7T175; AXOR1; NP—115940.2; NM—032551.4); HAVCR1 (Hepatitis A Virus Cellular Receptor 1, T-Cell Immunoglobulin Mucin Family Member 1, Kidney Injury Molecule 1, KIM-1, KIM1, TIM, TIM-1, TIM1, TIMD-1, TIMD1, T-Cell Immunoglobulin Mucin Receptor 1, T-Cell Membrane Protein 1, HAVCR, HAVCR-1, T Cell Immunoglobulin Domain And Mucin Domain Protein 1, HAVcr-1, T-Cell Immunoglobulin And Mucin Domain-Containing Protein 1; GenBank: AAH13325.1); HER2 (ERBB2, V-Erb-B2 Avian Erythroblastic Leukemia Viral Oncogene Homolog 2, NGL, NEU, Neuro/Glioblastoma Derived Oncogene Homolog, Metastatic Lymph Node Gene 19 Protein, Proto-Oncogene C-ErbB-2, Proto-Oncogene Neu, Tyrosine Kinase-Type Cell Surface Receptor HER2, MLN 19, p185erbB2, EC 2.7.10.1, V-Erb-

B2 Avian Erythroblastic Leukemia Viral Oncogene Homolog 2 (Neuro/Glioblastoma Derived Oncogene Homolog), CD340, HER-2, HER-2/neu, TKR1, C-Erb B2/Neu Protein, herstatin, Neuroblastoma/Glioblastoma Derived Oncogene Homolog, Receptor Tyrosine-Protein Kinase ErbB-2, V-Erb-B2 Erythroblastic Leukemia Viral Oncogene Homolog 2, Neuro/Glioblastoma Derived Oncogene Homolog, MLN19, CD340 Antigen, EC 2.7.10; NP); HER-2/neu—alias of above; HERV-K-MEL; HLA-DOB (Beta subunit of MHC class II molecule (Ia antigen) that binds peptides and presents them to CD4⁺ T lymphocytes); 273 aa, pI: 6.56, MW: 30820.TM: 1 [P] Gene Chromosome: 6p21.3, Genbank accession No. NP—002111); hsp70-2 (HSPA2, Heat Shock 70 kDa Protein 2, Heat Shock 70kD Protein 2, HSP70-3, Heat Shock-Related 70 KDa Protein 2, Heat Shock 70 KDa Protein 2; GenBank: AAD21815.1); IDO1 (Indoleamine 2,3-Dioxygenase 1, IDO, INDO, Indoleamine-Pyrrole 2,3-Dioxygenase, IDO-1, Indoleamine-Pyrrole 2,3 Dioxygenase, Indolamine 2,3 Dioxygenase, Indole 2,3 Dioxygenase, EC 1.13.11.52; NCBI Reference Sequence: NP—002155.1); IGF2B3; IL13Ralpha2 (IL13RA2, Interleukin 13 Receptor, Alpha 2, Cancer/Testis Antigen 19, Interleukin-13-Binding Protein, IL-13R-alpha-2, IL-13RA2, IL-13 Receptor Subunit Alpha-2, IL-13R Subunit Alpha-2, CD213A2, CT19, IL-13R, IL13BP, Interleukin 13 Binding Protein, Interleukin 13 Receptor Alpha 2 Chain, Interleukin-13 Receptor Subunit Alpha-2, IL13R, CD213a2 Antigen; NP); IL20R α ; Intestinal carboxyl esterase; IRTA2 (alias of FcRH5); Kallikrein 4 (KLK4, Kallikrein-Related Peptidase 4, PRSS17, EMSP1, Enamel Matrix Serine Proteinase 1, Kallikrein-Like Protein 1, Serine Protease 17, KLK-L1, PSTS, AI2A1, Kallikrein 4 (Protease, Enamel Matrix, Prostate), ARM1, EMSP, Androgen-Regulated Message 1, Enamel Matrix Serine Protease 1, kallikrein, kallikrein-4, prostate, EC 3.4.21.-, Protease, EC 3.4.21; GenBank: AAX30051.1); KIF20A (Kinesin Family Member 20A, RAB6KIFL, RAB6 Interacting, Kinesin-Like (Rabkinesin6), Mitotic a; LAGE-1; LDLR-fucosyltransferase AS fusion protein; Lengsin (LGSN, Lengsin, Lens Protein With Glutamine Synthetase Domain, GLULD1, Glutamate-Ammonia Ligase Domain-Containing Protein 1, LGS, Glutamate-Ammonia Ligase (Glutamine Synthetase) Domain Containing 1, Glutamate-Ammonia Ligase (Glutamine Synthase) Domain Containing 1, Lens Glutamine Synthase-Like; GenBank: AAF61255.1); LGR5 (leucine-rich repeat-containing G protein-coupled receptor 5; GPR49, GPR6; NP—003658.1; NM—003667.2; LY64 (Lymphocyte antigen 64 (RP10, type I membrane protein of the leucine rich repeat (LRR) family, regulates B-cell activation and apoptosis, loss of function is associated with increased disease activity in patients

with systemic lupus erythematosis); 661 aa, μ l: 6.20, MW: 74147 TM: 1 [P] Gene Chromosome: 5q12, Genbank accession No. NP—005573.; Ly6E (lymphocyte antigen 6 complex, locus E; Ly67, RIG-E, SCA-2, TSA-; NP—002337.1; NM—002346.2); Ly6G6D (lymphocyte antigen 6 complex, locus G6D; Ly6-D, MEGT; NP—067079.2; NM—021246.2); LY6K (lymphocyte antigen 6 complex, locus K; LY6K; HSJ001348; FLJ3522; NP—059997.3; NM—017527.3); LyPD1-LY6/PLAUR domain containing 1, PHTS [Homo sapiens], GenBank: AAH17318.1); MAGE-A1 (Melanoma Antigen Family A, 1 (Directs Expression Of Antigen MZ2-E, MAGE1, Melanoma Antigen Family A 1, MAGEA1, Melanoma Antigen MAGE-1, Melanoma-Associated Antigen 1, Melanoma-Associated Antigen MZ2-E, Antigen MZ2-E, Cancer/Testis Antigen 1.1, CT1.1, MAGE-1 Antigen, Cancer/Testis Antigen Family 1, Member 1, Cancer/Testis Antigen Family 1, Member 1, MAGE1A; NCBI Reference Sequence: NP—004979.3); MAGE-A10 (MAGEA10, Melanoma Antigen Family A, 10, MAGE10, MAGE-10 Antigen, Melanoma-Associated Antigen 10, Cancer/Testis Antigen 1.10, CT1.10, Cancer/Testis Antigen Family 1, Member 10, Cancer/Testis Antigen Family 1, Member 10; NCBI Reference Sequence: NP—001238757.1); MAGE-A12 (MAGEA12, Melanoma Antigen Family A, 12, MAGE12, Cancer/Testis Antigen 1.12, CT1.12, MAGE12F Antigen, Cancer/Testis Antigen Family 1, Member 12, Cancer/Testis Antigen Family 1, Member 12, Melanoma-Associated Antigen 12, MAGE-12 Antigen; NCBI Reference Sequence: NP—001159859.1); MAGE-A2 (MAGEA2, Melanoma Antigen Family A, 2, MAGE2, Cancer/Testis Antigen 1.2, CT1.2, MAGEA2A, MAGE-2 Antigen, Cancer/Testis Antigen Family 1, Member 2, Cancer/Testis Antigen Family 1, Member 2, Melanoma Antigen 2, Melanoma-Associated Antigen 2; NCBI Reference Sequence: NP—001269434.1); MAGE-A3 (MAGEA3, Melanoma Antigen Family A, 3, MAGE3, MAGE-3 Antigen, Antigen MZ2-D, Melanoma-Associated Antigen 3, Cancer/Testis Antigen 1.3, CT1.3, Cancer/Testis Antigen Family 1, Member 3, HIPS, HYPD, MAGEA6, Cancer/Testis Antigen Family 1, Member 3; NCBI Reference Sequence: NP—005353.1); MAGE-A4 (MAGEA4, Melanoma Antigen Family A, 4, MAGE4, Melanoma-Associated Antigen 4, Cancer/Testis Antigen 1.4, CT1.4, MAGE-4 Antigen, MAGE-41 Antigen, MAGE-X2 Antigen, MAGE4A, MAGE4B, Cancer/Testis Antigen Family 1, Member 4, MAGE-41, MAGE-X2, Cancer/Testis Antigen Family 1, Member 4; NCBI Reference Sequence: NP—001011550.1); MAGE-A6 (MAGEA6, Melanoma Antigen Family A, 6, MAGE6, MAGE-6 Antigen, Melanoma-Associated Antigen 6, Cancer/Testis Antigen 1.6, CT1.6, MAGE3B Antigen, Cancer/Testis Antigen Family

1, Melanoma Antigen Family A 6, Member 6, MAGE-3b, MAGE3B, Cancer/Testis Antigen Family 1, Member 6; NCBI Reference Sequence: NP—787064.1); MAGE-A9 (MAGEA9, Melanoma Antigen Family A, 9, MAGE9, MAGE-9 Antigen, Melanoma-Associated Antigen 9, Cancer/Testis Antigen 1.9, CT1.9, Cancer/Testis Antigen Family 1, Member 9, Cancer/Testis Antigen Family 1, Member 9, MAGEA9A; NCBI Reference Sequence: NP—005356.1); MAGE-C1 (MAGEC1, Melanoma Antigen Family C, 1, Cancer/Testis Antigen 7.1, CT7.1, MAGE-C1 Antigen, Cancer/Testis Antigen Family 7, Member 1, CT7, Cancer/Testis Antigen Family 7, Member 1, Melanoma-Associated Antigen C1; NCBI Reference Sequence: NP—005453.2); MAGE-C2 (MAGEC2, Melanoma Antigen Family C, 2, MAGEE1, Cancer/Testis Antigen 10, CT10, HCA587, Melanoma Antigen, Family E, 1, Cancer/Testis Specific, Hepatocellular Carcinoma-Associated Antigen 587, MAGE-C2 Antigen, MAGE-E1 Antigen, Hepatocellular Cancer Antigen 587, Melanoma-Associated Antigen C2; NCBI Reference Sequence: NP—057333.1); mammaglobin-A (SCGB2A2, Secretoglobin, Family 2A, Member 2, MGB1, Mammaglobin 1, UGB2, Mammaglobin A, mammaglobin-A, Mammaglobin-1, Secretoglobin Family 2A Member 2; NP); MART2 (HHAT, Hedgehog Acyltransferase, SKI1, Melanoma Antigen Recognized By T-Cells 2, Skinny Hedgehog Protein 1, Skn, Melanoma Antigen Recognized By T Cells 2, Protein-Cysteine N-Palmitoyltransferase HHAT, EC 2.3.1.-; GenBank: AAH39071.1); M-CSF (CSF1, Colony Stimulating Factor 1 (Macrophage), MCSF, CSF-1, lanimostim, Macrophage Colony-Stimulating Factor 1, Lanimostim; GenBank: AAH21117.1); MCSP (SMCP, Sperm Mitochondria-Associated Cysteine-Rich Protein, MCS, Mitochondrial Capsule Selenoprotein, HSMCSGEN1, Sperm Mitochondrial-Associated Cysteine-Rich Protein; NCBI Reference Sequence: NP—109588.2); XAGE-1b/GAGED2a; WT1 (Wilms Tumor 1, WAGR, GUD, WIT-2, WT33, Amino-Terminal Domain Of EWS, NPHS4, Last Three Zinc Fingers Of The DNA-Binding Domain Of WT1, AWT1, Wilms Tumor Protein, EWS-WT1; GenBank: AAB33443.1); VEGF; Tyrosinase (TYR; OCAIA; OCA1A; tyrosinase; SHEP; NP—000363.1; NM—000372.4; GenBank: AAB60319.1); TrpM4 (BR22450, FLJ20041, TRPM4, TRPM4B, transient receptor potential cation channel, subfamily M, member 4, Genbank accession no. NM—01763); TRP2-INT2; TRP-2; TRP-1/gp75 (Tyrosinase-Related Protein 1, 5,6-Dihydroxyindole-2-Carboxylic Acid Oxidase, CAS2, CATB, TYRP, OCAS, Catalase B, b-PROTEIN, Glycoprotein 75, EC 1.14.18., Melanoma Antigen Gp75, TYRP1, TRP, TYRRP, TRP1, SHEP11, DHICA Oxidase, EC 1.14.18, GP75, EC 1.14.18.1;

Triosephosphate isomerase (Triosephosphate isomerase 1, TPID, Triose-Phosphate Isomerase, HEL-S-49, TIM, Epididymis Secretory Protein Li 49, TPI, Triosephosphate Isomerase, EC 5.3.1.1; TRAG-3 (CSAG Family Member 2, Cancer/Testis Antigen Family 24, CSAG3B, Member 2, CSAG Family Member 3B, Cancer/Testis Antigen Family 24 Member 2, Cancer/Testis Antigen 24.2, Chondrosarcoma-Associated Gene 2/3 Protein, Taxol-Resistant-Associated Gene 3 Protein, Chondrosarcoma-Associated Gene 2/3 Protein-Like, CT24.2, Taxol Resistance Associated Gene 3, TRAG-3, CSAG3A, TRAG3); TMEM46 (shisa homolog 2 (Xenopus laevis); SHISA; NP—001007539.1; NM—001007538.1; TMEM118 (ring finger protein, transmembrane2; RNFT2; FLJ1462; NP—001103373.1; NM—001109903.1; TMEFF1 (transmembrane protein with EGF-like and two follistatin-like domains 1; Tomoregulin-; H7365; C9orf2; C9ORF2; U19878; X83961; NM—080655; NM—003692; TGF-betaRII (TGFB2, Transforming Growth Factor, Beta Receptor II (70/80 kDa), TGFbeta-RII, MFS2, tbetaR-II, TGFR-2, TGF-Beta Receptor Type IIB, TGF-Beta Type II Receptor, TGF-Beta Receptor Type-2, EC 2.7.11.30, Transforming Growth Factor Beta Receptor Type IIC, AAT3, TbetaR-II, Transforming Growth Factor, Beta Receptor II (70-80kD), TGF-Beta Receptor Type II, FAA3, Transforming Growth Factor-Beta Receptor Type II, LDS1 B, HNPCC6, LDS2B, LDS2, RITC, EC 2.7.11, TAAD2; TENB2 (TMEFF2, tomoregulin, TPEF, HPP1, TR, putative transmembrane proteoglycan, related to the EGF/herregulin family of growth factors and follistatin); 374 aa, NCBI Accession: AAD55776, AAF91397, AAG49451, NCBI RefSeq: NP—057276; NCBI Gene: 23671; OMIM: 605734; SwissProt Q9UIK5; Genbank accession No. AF179274; AY358907, CAF85723, CQ782436; TAG-2; TAG-1 (Contactin 2 (Axonal), TAG-1, AXT, Axonin-1 Cell Adhesion Molecule, TAX, Contactin 2 (transiently Expressed), TAXI, Contactin-2, Axonal Glycoprotein TAG-1, Transiently-Expressed Axonal Glycoprotein, Transient Axonal Glycoprotein, Axonin-1, TAX-1, TAG1, FAMES; PRF: 444868); SYT-SSX1 or -SSX2 fusion protein; survivin; STEAP2 (HGNC 8639, IPCA-1, PCANAP1, STAMP1, STEAP2, STMP, prostate cancer associated gene 1, prostate cancer associated protein 1, six transmembrane epithelial antigen of prostate 2, six transmembrane prostate protein, Genbank accession no. AF45513; STEAP1 (six transmembrane epithelial antigen of prostate, Genbank accession no. NM—01244; SSSX-4; SSSX-2 (SSX2, Synovial Sarcoma, X Breakpoint2, X Breakpoint 2, SSSX, X Breakpoint 2B, Cancer/Testis Antigen 5.2, X-Chromosome-Related 2, Tumor Antigen HOM-MEL-40, CT5.2, HD21, Cancer/Testis Antigen Family 5, HOM-MEL-40, Isoform B,

Cancer/Testis Antigen Family 5 member 2a, member 2a, Protein SSX2, Sarcoma, Sarcoma, Synovial, X-Chromosome-Related 2, synovial, Synovial Sarcoma, X Breakpoint 2B, Synovial Sarcoma, SSX2A; Sp17; SOX10 (SRY (Sex Determining Region Y)-Box 10, mouse, PCWH, DOM, WS4, WS2E, WS4C, Dominant Megacolon, mouse, Human Homolog Of, Dominant Megacolon, SRY-Related HMG-Box Gene 10, Human Homolog Of, transcription Factor SOX-10; GenBank: CAG30470.1); SNRPD1 (Small Nuclear Ribonucleoprotein D1, Small Nuclear Ribonucleoprotein D1, Polypeptide 16 kDa, Polypeptide (16kD), SNRPD, HsT2456, Sm-D1, SMD1, Sm-D Autoantigen, Small Nuclear Ribonucleoprotein D1 Polypeptide 16 kDa Pseudogene, SnRNP Core Protein D1, Small Nuclear Ribonucleoprotein Sm D1; SLC35D3 (Solute Carrier Family 35, Member D3, FRCL1, Fringe Connection-Like Protein 1, bA55K22.3, Frc, Fringe-Like 1, Solute Carrier Family 35 Member D3; NCBI GenBank: NC—000006.11 NC—018917.2 NT—025741.16); SIRT2 (Sirtuin 2, NAD-Dependent Deacetylase Sirtuin-2, SIRT2, Silent Information Regulator 2, Regulatory Protein SIR2 Homolog 2, Sir2-Related Protein Type 2, SIR2-Like Protein 2, Sirtuin Type 2, Sirtuin (Silent Mating Type Information Regulation 2 Homolog) 2 (*S. cerevisiae*), Sirtuin-2, Sirtuin (Silent Mating Type Information Regulation 2 Homolog) 2, *S. cerevisiae*, Homolog) 2, EC 3.5.1., SIR2; GenBank: AAK51133.1); Sema 5b (FLJ10372, KIAA1445, Mm.42015, SEMA5B, SEMAG, Semaphorin 5b Hlog, sema domain, seven thrombospondin repeats (type 1 and type 1-like), Transmembrane Domain™ and short cytoplasmic domain, (semaphorin) 5B, Genbank accession no. AB04087; secernin 1 (SCRN1, SES1, KIAA0193, secerin-1; GenBank: EAL24458.1); SAGE (SAGE1, Sarcoma Antigen 1, Cancer/Testis Antigen 14, CT14, Putative Tumor Antigen; NCBI Reference Sequence: NP—061136.2); RU2AS (KAAG1, Kidney Associated Antigen 1, RU2AS, RU2 Antisense Gene Protein, Kidney-Associated Antigen 1; GenBank: AAF23613.1); RNF43-E3 ubiquitin-protein ligase RNF43 precursor [*Homo sapiens*], RNF124; URCC; NCBI Reference Sequence: NP—060233.3; RhoC (RGS5 (Regulator Of G-Protein Signaling 5, MSTP032, Regulator Of G-Protein Signalling 5, MSTP092, MST092, MSTP106, MST106, MSTP129, MST129; GenBank: AAB84001.1); RET (ret proto-oncogene; MEN2A; HSCR1; MEN2B; MTC1; PTC; CDHF12; Hs.168114; RET51; RET-ELE; NP—066124.1; NM—020975.4); RBAF600 (UBR4, Ubiquitin Protein Ligase E3 Component N-Recognin 4, Zinc Finger, UBR1 Type 1, ZUBR1, E3 Ubiquitin-Protein Ligase UBR4, RBAF600, 600 KDa Retinoblastoma Protein-Associated Factor, Zinc Finger UBR1-Type Protein 1, EC 6.3.2., N-recognin-4, KIAA0462, p600, EC 6.3.2, KIAA1307;

GenBank: AAL83880.1); RAGE-1 (MOK, MOK Protein Kinase, Renal Tumor Antigen, RAGE, MAPK/MAK/MRK Overlapping Kinase, Renal Tumor Antigen 1, Renal Cell Carcinoma Antigen, RAGE-1, EC 2.7.11.22, RAGE1; UniProtKB/Swiss-Prot: Q9UQ07.1); RAB38/NY-MEL-1 (RAB38, NY-MEL-1, RAB38, Member RAS Oncogene Family, Melanoma Antigen NY-MEL-1, Rab-Related GTP-Binding Protein, Ras-Related Protein Rab-38, rrGTPbp; GenBank: AAH15808.1); PTPRK (DJ480J14.2.1 (Protein Tyrosine Phosphatase, Receptor Type, K R-PTP-KAPPA, Protein Tyrosine Phosphatase Kappa, Protein Tyrosine Phosphatase Kappa), Protein Tyrosine Phosphatase, Receptor Type, K, Protein-Tyrosine Phosphatase Kappa, Protein-Tyrosine Phosphatase, Receptor Type, Kappa, R-PTP-kappa, Receptor-Type Tyrosine-Protein Phosphatase Kappa, EC 3.1.3.48, PTPK; GenBank: AAI44514.1); PSMA; PSCA hIg(2700050C12Rik, C530008016Rik, RIKEN cDNA 2700050C12, RIKEN cDNA 2700050C12 gene, Genbank accession no. AY358628); PSCA (Prostate stem cell antigen precursor, Genbank accession no. AJ29743; PRDX5 (Peroxiredoxin 5, EC 1.11.1.15, TPx Type VI, B166, Antioxidant Enzyme B166, HEL-S-55, Liver Tissue 2D-Page Spot 71 B, PMP20, Peroxisomal Antioxidant Enzyme, PRDX6, Thioredoxin Peroxidase PMP20, PRXV, AOEB166, Epididymis Secretory Protein Li 55, Alu Co-Repressor 1, Peroxiredoxin-5, Mitochondrial, Peroxiredoxin V, prx-V, Thioredoxin Reductase, Prx-V, ACR1, Alu Corepressor, PLP; GenBank: CAG33484.1); PRAME (Preferentially Expressed Antigen In Melanoma, Preferentially Expressed Antigen Of Melanoma, MAPE, 01P-4, OIPA, CT130, Cancer/Testis Antigen 130, Melanoma Antigen Preferentially Expressed In Tumors, Opa-Interacting Protein 4, Opa-Interacting Protein 01P4; GenBank: CAG30435.1); pml-RARalpha fusion protein; PMEL17 (silver homolog; SILV; D12S53E; PMEL17; SI; SIL); ME20; gp10 BC001414; BT007202; M32295; M77348; NM—006928; PBF (ZNF395, Zinc Finger Protein 395, PRF-1, Huntington disease regulatory, HD Gene Regulatory Region-Binding Protein, Region-Binding Protein 2, Protein 2, Papillomavirus Regulatory Factor 1, HD-Regulating Factor 2, Papillomavirus-Regulatory Factor, PRF1, HDBP-2, Si-1-8-14, HDBP2, Huntington'S Disease Gene Regulatory Region-Binding Protein 2, HDRF-2, Papillomavirus Regulatory Factor PRF-1, PBF; GenBank: AAH01237.1); PAX5 (Paired Box 5, Paired Box Homeotic Gene 5, BSAP, Paired Box Protein Pax-5, B-Cell Lineage Specific Activator, Paired Domain Gene 5, Paired Box Gene 5 (B-Cell Lineage Specific Activator Protein), B-Cell-Specific Transcription Factor, Paired Box Gene 5 (B-Cell Lineage Specific Activator); PAP (REG3A, Regenerating Islet-Derived 3 Alpha,

INGAP, PAP-H, Hepatointestinal Pancreatic Protein, PBBCGF, Human Proislet Peptide, REG-III, Pancreatitis-Associated Protein 1, Regi, Reg III-Alpha, hepatocarcinoma-intestine-pancreas, Regenerating Islet-Derived Protein III-Alpha, Pancreatic Beta Cell Growth Factor, HIP, PAP Homologous Protein, HIP/PAP, Proliferation-Inducing Protein 34, PAP1, Proliferation-Inducing Protein 42, REG-3-alpha, Regenerating Islet-Derived Protein 3-Alpha, Pancreatitis-Associated Protein; GenBank: AAH36776.1); p53 (TP53, Tumor Protein P53, TPR53, P53, Cellular Tumor Antigen P53, Antigen NY-CO-13, Mutant Tumor Protein 53, Phosphoprotein P53, P53 Tumor Suppressor, BCC7, Transformation-Related Protein 53, LFS1, tumor Protein 53, Li-Fraumeni Syndrome, Tumor Suppressor P53; P2X5 (Purinergic receptor P2X ligand-gated ion channel 5, an ion channel gated by extracellular ATP, may be involved in synaptic transmission and neurogenesis, deficiency may contribute to the pathophysiology of idiopathic detrusor instability); 422 aa), μ l: 7.63, MW: 47206 TM: 1 [P] Gene Chromosome: 17p13.3, Genbank accession No. NP—002552.; OGT (0-Linked N-Acetylglucosamine (GlcNAc) Transferase, O-GlcNAc Transferase P110 Subunit, 0-Linked N-Acetylglucosamine (GlcNAc) Transferase (UDP-N-Acetylglucosamine:Polypeptide-N-Acetylglucosaminyl Transferase, UDP-N-Acetylglucosamine-Peptide N-Acetylglucosaminyltransferase 110 KDa Subunit, UDP-N-Acetylglucosamine:Polypeptide-N-Acetylglucosaminyl Transferase, Uridinediphospho-N-Acetylglucosamine:Polypeptide Beta-N-Acetylglucosaminyl Transferase, O-GlcNAc Transferase Subunit P110, EC 2.4.1.255, 0-Linked N-Acetylglucosamine Transferase 110 KDa Subunit, EC 2.4.1, HRNT1, EC 2.4.1.186, 0-GLCNAC; GenBank: AAH38180.1); 0A1 (Osteoarthritis QTL 1, OASD; GenBank: CAA88742.1); NY-ESO-1/LAGE-2 (Cancer/Testis Antigen 1 B, CTAG1 B, NY-ESO-1, LAGE-2, ESO1, CTAG1, CTAG, LAGE2B, Cancer/Testis Antigen 1, Autoimmunogenic Cancer/Testis Antigen NY-ESO-1, Ancer Antigen 3, Cancer/Testis Antigen 6.1, New York Esophageal Squamous Cell Carcinoma 1, L Antigen Family Member 2, LAGE2, CT6.1, LAGE2A; GenBank: AAI30365.1); NY-BR-1 (ANKRD30A, Ankyrin Repeat Domain 30A, Breast Cancer Antigen NY-BR-1, Serologically Defined Breast Cancer Antigen NY-BR-1, Ankyrin Repeat Domain-Containing Protein 30A; NCBI Reference Sequence: NP—443723.2); N-ras (NRAS, Neuroblastoma RAS Viral (V-Ras) Oncogene Homolog, NRAS1, Transforming Protein N-Ras, GTPase NRas, ALPS4, N-Ras Protein Part 4, NS6, Oncogene Homolog, HRAS1; GenBank: AAH05219.1); NFYC (Nuclear Transcription Factor Y, Gamma, HAP5, HSM, Nuclear Transcription Factor Y Subunit C, Transactivator HSM-1/2, CCAAT Binding Factor

Subunit C, NF-YC, CCAAT Transcription Binding Factor Subunit Gamma, CAAT Box DNA-Binding Protein Subunit C, Histone H1 Transcription Factor Large Subunit 2A, CBFC, Nuclear Transcription Factor Y Subunit Gamma, CBF-C, Transactivator HSM-1, H1 TF2A, Transcription Factor NF-Y, C Subunit; neo-PAP (PAPOLG, Poly(A) Polymerase Gamma, Neo-Poly(A) Polymerase, Nuclear Poly(A) Polymerase Gamma, Polynucleotide Adenylyltransferase Gamma, SRP RNA 3' Adenylating Enzyme/Pap2, PAP-gamma, Neo-PAP, SRP RNA 3'-Adenylating Enzyme, PAP2, EC 2.7.7.19, PAPG; NCBI Reference Sequence: NP—075045.2); NCA (CEACAM6, Genbank accession no. M1872); Napi3b (NAPI-3B, NPTIIIb, SLC34A2, solute carrier family 34 (sodium phosphate), member 2, type II sodium-dependent phosphate transporter 3b, Genbank accession no. NM—00642); Myosin class I; MUM-3; MUM-2 (TRAPPC1, Trafficking Protein Particle Complex 1, BETS, BETS Homolog, MUM2, Melanoma Ubiquitous Mutated 2, Multiple Myeloma Protein 2, Trafficking Protein Particle Complex Subunit 1; MUM-1f; Mucin (MUC1, Mucin 1, Cell Surface Associated, PEMT, PUM, CA 15-3, MCKD1, ADMCKD, Medullary Cystic Kidney Disease 1 (Autosomal Dominant), ADMCKD1, Mucin 1, Transmembrane, CD227, Breast Carcinoma-Associated Antigen DF3, MAM6, Cancer Antigen 15-3, MCD, Carcinoma-Associated Mucin, MCKD, Krebs Von Den Lungen-6, MUC-1/SEC, Peanut-Reactive Urinary Mucin, MUC1/ZD, Tumor-Associated Epithelial Membrane Antigen, DF3 Antigen, Tumor-Associated Mucin, episialin, EMA, H23 Antigen, H23AG, Mucin-1, KL-6, Tumor Associated Epithelial Mucin, MUC-1, Episialin, PEM, CD227 Antigen; UniProtKB/Swiss-Prot: P15941.3); MUCSAC (Mucin SAC, Oligomeric Mucus/Gel-Forming, Tracheobronchial Mucin' MUC5, TBM, Mucin 5, Subtypes A And C, Tracheobronchial/Gastric, leB, Gastric Mucin, Mucin SAC, Oligomeric Mucus/Gel-Forming Pseudogene, Lewis B Blood Group Antigen, LeB, Major Airway Glycoprotein, MUC-SAC, Mucin-5 Subtype AC, Tracheobronchial; MUC1 (Mucin 1, Cell Surface Associated, PEMT, PUM, CA 15-3, MCKD1, ADMCKD, Medullary Cystic Kidney Disease 1 (Autosomal Dominant), ADMCKD1, Mucin 1, Transmembrane, CD227, Breast Carcinoma-Associated Antigen DF3, MAM6, Cancer Antigen 15-3, MCD, Carcinoma-Associated Mucin, MCKD, Krebs Von Den Lungen-6, MUC-1/SEC, Peanut-Reactive Urinary Mucin, MUC-1/X, Polymorphic Epithelial Mucin, MUC1/ZD, Tumor-Associated Epithelial Membrane Antigen, DF3 Antigen, Tumor-Associated Mucin, episialin, EMA, h23 Antigen, H23AG, mucin-1, KL-6, Tumor Associated Epithelial Mucin, MUC-1, Episialin, PEM, CD227 Antigen; MSG783 (RNF124, hypothetical protein FLJ20315, Genbank

accession no. NM-01776; MRP4-multidrug resistance-associated protein 4 isoform 3, MOAT-B; MOATB [Homo sapiens]; NCBI Reference Sequence: NP—001288758.1; MPF (MPF, MSLN, SMR, megakaryocyte potentiating factor, mesothelin, Genbank accession no. NM—00582; MMP-7 (MMP7, matrilysin, MPSL1, matrin, Matrix Metalloproteinase 7 (Matrilysin, Uterine), Uterine Matrilysin, Matrix Metalloproteinase-7, EC 3.4.24.23, Pump-1 Protease, Matrin, Uterine Metalloproteinase, PUMP1, MMP-7, EC 3.4.24, PUMP-1; GenBank: AAC37543.1); MMP-2 (MMP2, Matrix Metalloproteinase 2 (Gelatinase A, 72 kDa Gelatinase, 72 kDa Type IV Collagenase), MONA, CLG4A, Matrix Metalloproteinase 2 (Gelatinase A, 72kD Gelatinase, 72kD Type IV Collagenase), CLG4, 72 kDa Gelatinase, 72 kDa Type IV Collagenase), Matrix Metalloproteinase-2, MMP-II, 72 kDa Gelatinase, Collagenase Type IV-A, MMP-2, Matrix Metalloproteinase-II, TBE-1, Neutrophil Gelatinase, EC 3.4.24.24, EC 3.4.24; GenBank: AAH02576.1); and Meloe.

[0069] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody wherein the multispecific antibody comprises a second binding domain having specificity for a second antigen selected from the group consisting of: 17-IA, 4-1BB, 4Dc, 6- keto-PGF1a, 8-iso-PGF2a, 8-oxo-dG, A1 Adenosine Receptor, A33, ACE, ACE-2, Activin, Activin A, Activin AB, Activin B, Activin C, Activin RIA, Activin RIA ALK-2, Activin RIB ALK-4, Activin RIIA, Activin RUB, ADAM, ADAM10, ADAM12, ADAM15, ADAM17/TACE, ADAM8, ADAM9, ADAMTS, ADAMTS4, ADAMTS5, Addressins, aFGF, ALCAM, ALK, ALK-1, ALK-7, alpha-1-antitrypsin, alpha-V/beta-1 antagonist, ANG, Ang, APAF-1, APE, APJ, APP, APRIL, AR, ARC, ART, Artemin, anti-Id, ASPARTIC, Atrial natriuretic factor, av/b3 integrin, Axl, b2M, B7-1, B7-2, B7-H, B-lymphocyte Stimulator (BlyS), BACE, BACE-1, Bad, BAFF, BAFF-R, Bag-1, BAK, Bax, BCA-1, BCAM, Bel, BCMA, BDNF, b-ECGF, bFGF, BID, Bik, BIM, BLC, BL-CAM, BLK, BMP, BMP-2 BMP-2a, BMP-3 Osteogenin, BMP-4 BMP-2b, BMP-5, BMP-6 Vgr-1, BMP-7 (OP-1), BMP-8 (BMP-8a, OP-2), BMPR, BMPR-IA (ALK-3), BMPR-IB (ALK-6), BRK-2, RPK-1, BMPR-II (BRK-3), BMPs, b- NGF, BOK, Bombesin, Bone-derived neurotrophic factor, BPDE, BPDE-DNA, BTC, complement factor 3 (C3), C3a, C4, C5, C5a, CIO, CA125, CAD-8, Calcitonin, cAMP, carcinoembryonic antigen (CEA), carcinoma-associated antigen, Cathepsin A, Cathepsin B, Cathepsin C/DPPI, Cathepsin D, Cathepsin E, Cathepsin H, Cathepsin L, Cathepsin O, Cathepsin S, Cathepsin V, Cathepsin X/Z/P, CBL, CCI,

CCK2, CCL, CCL1, CCL11, CCL12, CCL13, CCL 14, CCL15, CCL16, CCL1 7, CCL18, CCL19, CCL2, CCL20, CCL21, CCL22, CCL23, CCL24, CCL25, CCL26, CCL27, CCL28, CCL3, CCL4, CCL5, CCL6, CCL7, CCL8, CCL9/10, CCR, CCR1, CCR10, CCR10, CCR2, CCR3, CCR4, CCR5, CCR6, CCR7, CCR8, CCR9, CD1, CD2, CD4, CD5, CD6, CD7, CD8, CD10, CD11a, CD11b, CD11c, CD13, CD14, CD15, CD16, CD18, CD19, CD20, CD21, CD22, CD23, CD25, CD27L, CD28, CD29, CD30, CD30L, CD32, CD33 (p67 proteins), CD34, CD38, CD40, CD40L, CD44, CD45, CD46, CD49a, CD52, CD54, CD55, CD56, CD61, CD64, CD66e, CD74, CD80 (B7-1), CD89, CD95, CD123, CD137, CD138, CD140a, CD146, CD147, CD148, CD152, CD164, CEACAM5, CFTR, cGMP, CINC, Clostridium botulinum toxin, Clostridium perfringens toxin, CKb8-1, CLC, CMV, CMV UL, CNTF, CNTN-1, COX, C-Ret, CRG-2, CT-1, CTACK, CTGF, CTLA-4, CX3CL1, CX3CR1, CXCL, CXCL1, CXCL2, CXCL3, CXCL4, CXCL5, CXCL6, CXCL7, CXCL8, CXCL9, CXCL10, CXCL11, CXCL12, CXCL13, CXCL14, CXCL15, CXCL16, CXCR, CXCR1, CXCR2, CXCR3, CXCR4, CXCR5, CXCR6, cytokeratin tumor-associated antigen, DAN, DCC, DcR3, DC-SIGN, Decay accelerating factor, des(1-3)-IGF-I (brain IGF-1), Dhh, digoxin, DNAM-1, Dnase, Dpp, DPPIV/CD26, Dtk, ECAD, EDA, EDA-A1, EDA-A2, EDAR, EGF, EGFR (ErbB-1), EMA, EMMPRIN, EN A, endothelin receptor, Enkephalinase, eNOS, Eot, eotaxin1, EpCAM, Ephrin B2/ EphB4, EPO, ERCC, E-selectin, ET-1, Factor IIa, Factor VII, Factor VIIIc, Factor IX, fibroblast activation protein (FAP), Fas, FcRI, FEN-1, Ferritin, FGF, FGF-19, FGF-2, FGF3, FGF-8, FGFR, FGFR-3, Fibrin, FL, FLIP, Flt-3, Flt-4, Follicle stimulating hormone, Fractalkine, FZD1, FZD2, FZD3, FZD4, FZD5, FZD6, FZD7, FZD8, FZD9, FZD10, G250, Gas 6, GCP-2, GCSF, GD2, GD3, GDF, GDF-1, GDF-3 (Vgr-2), GDF-5 (BMP-14, CDMP- 1), GDF-6 (BMP-13, CDMP-2), GDF-7 (BMP-12, CDMP-3), GDF-8 (Myostatin), GDF-9, GDF- 15 (MIC-1), GDNF, GDNF, GFAP, GFRa-1, GFR-alpha1, GFR-alpha2, GFR-alpha3, GITR, Glucagon, Glut 4, glycoprotein IIb/IIIa (GP IIb/IIIa), GM-CSF, gp130, gp72, GRO, Growth hormone releasing factor, Hapten (NP-cap or NIP-cap), HB-EGF, HCC, HCMV gB envelope glycoprotein, HCMV) gH envelope glycoprotein, HCMV UL, Hemopoietic growth factor (HGF), Hep B gp120, heparanase, Her2, Her2/neu (ErbB-2), Her3 (ErbB-3), Her4 (ErbB-4), herpes simplex virus (HSV) gB glycoprotein, HSV gD glycoprotein, HGFA, High molecular weight melanoma-associated antigen (HMW-MAA), HIV gp120, HIV IIIB gp 120 V3 loop, HLA, HLA-DR, HM1.24, HMFG PEM, HRG, Hrk, human cardiac myosin, human cytomegalovirus (HCMV), human growth hormone (HGH),

HVEM, 1-309, IAP, ICAM, ICAM-1, ICAM-3, ICE, ICOS, IFNg, Ig, IgA receptor, IgE, IGF, IGF binding proteins, IGF-1R, IGFBP, IGF-I, IGF-II, IL, IL-1, IL-1R, IL-2, IL-2R, IL-4, IL-4R, IL-5, IL-5R, IL-6, IL-6R, IL-8, IL-9, IL-10, IL-12, IL-13, IL-15, IL-18, IL-18R, IL-23, interferon (INF)-alpha, INF-beta, INF-gamma, Inhibin, iNOS, Insulin A-chain, Insulin B-chain, Insulin-like growth factor 1, integrin alpha2, integrin alpha3, integrin alpha4, integrin alpha4/betal, integrin, alpha4/beta7, integrin alpha5 (alphaV), integrin alpha5/betal, integrin alpha5/beta3, integrin alpha6, integrin betal, integrin beta2, interferon gamma, IP-10, 1-TAC, JE, Kallikrein 2, Kallikrein 5, Kallikrein 6, , Kallikrein 11, Kallikrein 12, Kallikrein 14, Kallikrein 15, Kallikrein LI, Kallikrein L2, Kallikrein L3, Kallikrein L4, KC, KDR, Keratinocyte Growth Factor (KGF), laminin 5, LAMP, LAP, LAP (TGF-1), Latent TGF-1, Latent TGF-1 bpl, LBP, LDGF, LECT2, Lefty, Lewis-Y antigen, Lewis-Y related antigen, LFA-1, LFA-3, Lfo, LIF, LIGHT, lipoproteins, LIX, LKN, Lptn, L-Selectin, LT-a, LT-b, LTB4, LTBP-1, Lung surfactant, Luteinizing hormone, Lymphotoxin Beta Receptor, Mac-1, MAdCAM, MAG, MAP2, MARC, MCAM, MCAM, MCK-2, MCP, M-CSF, MDC, Mer, METALLOPROTEASES, MGDF receptor, MGMT, MHC (HLA-DR), MIF, MIG, MIP, MIP-1-alpha, MK, MMAC1, MMP, MMP-1, MMP-10, MMP-11, MMP-12, MMP-13, MMP-14, MMP-15, MMP-2, MMP-24, MMP-3, MMP-7, MMP-8, MMP-9, MPIF, Mpo, MSK, MSP, mucin (Mucl), MUC18, Muellerian-inhibin substance, Mug, MuSK, NAIP, NAP, NCAD, N-Cadherin, NCA 90, NCAM, NCAM, Neprilysin, Neurotrophin-3,-4, or -6, Neurturin, Neuronal growth factor (NGF), NGFR, NGF-beta, nNOS, NO, NOS, Npn, NRG-3, NT, NTN, OB, OGG1, OPG, OPN, OSM, OX40L, OX40R, p150, p95, PADPr, Parathyroid hormone, PARC, PARP, PBR, PBSF, PCAD, P-Cadherin, PCNA, PDGF, PDGF, PDK-1, PECAM, PEM, PF4, PGE, PGF, PGI2, PGJ2, PIN, PLA2, placental alkaline phosphatase (PLAP), P1GF, PLP, PP14, Proinsulin, Prorelaxin, Protein C, PS, PSA, PSCA, prostate specific membrane antigen (PSMA), PTEN, PTHrp, Ptk, PTN, R51, RANK, RANKL, RANTES, RANTES, Relaxin A-chain, Relaxin B-chain, renin, respiratory syncytial virus (RSV) F, RSV Fgp, Ret, Rheumatoid factors, RLIP76, RPA2, RSK, S100, SCF/KL, SDF-1, SERINE, Serum albumin, sFRP-3, Shh, SIGIRR, SK-1, SLAM, SLPI, SMAC, SMDF, SMOH, SOD, SPARC, Stat, STEAP, STEAP-II, TACE, TACI, TAG-72 (tumor-associated glycoprotein-72), TARC, TCA-3, T-cell receptors (e.g., T-cell receptor alpha/beta), TdT, TECK, TEM1, TEM5, TEM7, TEM8, TERT, testicular PLAP-like alkaline phosphatase, TfR, TGF, TGF-alpha, TGF-beta, TGF-beta Pan Specific, TGF-beta RI (ALK-5), TGF-beta RII,

TGF-beta RIIb, TGF-beta RIII, TGF-beta1, TGF-beta2, TGF-beta3, TGF-beta4, TGF-beta5, Thrombin, Thymus Ck-1, Thyroid stimulating hormone, Tie, TIMP, TIQ, Tissue Factor, TMEFF2, Tmpo, TMPRSS2, TNF, TNF-alpha, TNF-alpha beta, TNF-beta2, TNFc, TNF-RI, TNF-RII, TNFRSF10A (TRAIL R1 Apo-2, DR4), TNFRSF10B (TRAIL R2 DR5, KILLER, TRICK-2A, TRICK-B), TNFRSF10C (TRAIL R3 DcR1, LIT, TRID), TNFRSF10D (TRAIL R4 DcR2, TRUNDD), TNFRSF11A (RANK ODF R, TRANCE R), TNFRSF11B (OPG OCIF, TR1), TNFRSF12 (TWEAK R FN14), TNFRSF13B (TACI), TNFRSF13C (BAFF R), TNFRSF14 (HVEM ATAR, HveA, LIGHT R, TR2), TNFRSF16 (NGFR p75NTR), TNFRSF17 (BCMA), TNFRSF18 (GITR AITR), TNFRSF19 (TROY TAJ, TRADE), TNFRSF19L (RELT), TNFRSF1A (TNF RI CD120a, p55-60), TNFRSF1B (TNF RII CD120b, p75-80), TNFRSF26 (TNFRH3), TNFRSF3 (LTbR TNF RIII, TNFC R), TNFRSF4 (OX40 ACT35, TXGP1 R), TNFRSF5 (CD40 p50), TNFRSF6 (Fas Apo-1, APT1, CD95), TNFRSF6B (DcR3 M68, TR6), TNFRSF7 (CD27), TNFRSF8 (CD30), TNFRSF9 (4-1BB CD137, ILA), TNFRSF21 (DR6), TNFRSF22 (DcTRAIL R2 TNFRH2), TNFRST23 (DcTRAIL R1 TNFRH1), TNFRSF25 (DR3 Apo-3, LARD, TR-3, TRAMP, WSL-1), TNFSF10 (TRAIL Apo-2 Ligand, TL2), TNFSF11 (TRANCE/RANK Ligand ODF, OPG Ligand), TNFSF12 (TWEAK Apo-3 Ligand, DR3 Ligand), TNFSF13 (APRIL TALL2), TNFSF13B (BAFF BLYS, TALL1, THANK, TNFSF20), TNFSF14 (LIGHT HVEM Ligand, LTg), TNFSF15 (TL1A/VEGI), TNFSF18 (GITR Ligand AITR Ligand, TL6), TNFSF1A (TNF-a Conectin, DIF, TNFSF2), TNFSF1B (TNF-b LTa, TNFSF1), TNFSF3 (LTb TNFC, p33), TNFSF4 (OX40 Ligand gp34, TXGP1), TNFSF5 (CD40 Ligand CD154, gp39, HIGM1, IMD3, TRAP), TNFSF6 (Fas Ligand Apo-1 Ligand, APT1 Ligand), TNFSF7 (CD27 Ligand CD70), TNFSF8 (CD30 Ligand CD153), TNFSF9 (4-1BB Ligand CD137 Ligand), TP-1, t-PA, Tpo, TRAIL, TRAIL R, TRAIL-R1, TRAIL-R2, TRANCE, transferring receptor, TRF, Trk, TROP-2, TSG, TSLP, tumor-associated antigen CA 125, tumor-associated antigen expressing Lewis Y related carbohydrate, TWEAK, TXB2, Ung, uPAR, uPAR-1, Urokinase, VCAM, VCAM-1, VECAD, VE-Cadherin, VE-cadherin-2, VEGFR-1 (flt-1), VEGF, VEGFR, VEGFR-3 (flt-4), VEGI, VIM, Viral antigens, VLA, VLA-1, VLA-4, VNR integrin, von Willebrands factor, WIF- 1, WNT1, WNT2, WNT2B/13, WNT3, WNT3A, WNT4, WNT5A, WNT5B, WNT6, WNT7A, WNT7B, WNT8A, WNT8B, WNT9A, WNT9A, WNT9B, WNT10A, WNT10B, WNT11, WNT16, XCL1, XCL2, XCR1, XCR1, XEDAR, XIAP, XPD, CTLA4 (cytotoxic T lymphocyte antigen-4), PD1 (programmed cell death protein 1), PD-L1

(programmed cell death ligand 1), LAG-3 (lymphocyte activation gene-3), TIM-3 (T cell immunoglobulin and mucin protein-3), receptors for hormones, and growth factors.

[0070] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody wherein the multispecific antibody comprises a second binding domain having specificity for a second antigen selected from the group consisting of: BCMA, CTLA4 (cytotoxic T lymphocyte antigen-4), PD1 (programmed cell death protein 1), PD-L1 (programmed cell death ligand 1), LAG-3 (lymphocyte activation gene-3), TIM-3, CD20, CD2, CD19, Her2, EGFR, EpCAM, FcγRIIIa (CD16), FcγRIIa (CD32a), FcγRIIb (CD32b), FcγRI (CD64), Toll-like receptors (TLRs), TLR4, TLR9, cytokines, IL-2, IL-5, IL-13, IL-6, IL-17, IL-12, IL-23, TNFα, TGFβ, cytokine receptors, IL-2R, chemokines, chemokine receptors, growth factors, VEGF, and HGF.

[0071] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise at least a second antigen binding domain that specifically binds to an antigen, wherein said antibody comprises a multispecific format selected from the group consisting of: Fab-Fc-scFv, “bottle-opener”, Mab-scFv, Mab-Fv, Dual scFv, central Fv, central scFv, one-arm central scFv, Fab-Fab, Fab-Fv, mAb-Fv, mAb-Fab, DART, BiTE, common light chain-IgG, TandAb, Cross-Mab, SEED, BEAT, TrioMab, and DuetMab.

[0072] In certain embodiments are provided isolated nucleic acid sequences encoding the inventive CD3 binding domains and antibodies comprising them.

[0073] In certain embodiments are provided expression vectors comprising nucleic acid sequences encoding the inventive CD3 binding domains and antibodies comprising them.

[0074] In certain embodiments are provided host cells transfected, transformed, or transduced with a nucleic acid sequences encoding the inventive CD3 binding domains and antibodies comprising them.

[0075] In certain embodiments are provided host cells transfected, transformed, or transduced with vectors encoding the inventive CD3 binding domains and antibodies comprising them.

[0076] In certain embodiments are provided pharmaceutical compositions comprising one or more of the inventive CD3 binding domains and antibodies comprising them.

[0077] In certain embodiments are provided pharmaceutical compositions comprising one or more of the inventive CD3 binding domains and antibodies comprising them and a pharmaceutically acceptable carrier and/or excipient.

[0078] In certain embodiments are provided pharmaceutical compositions comprising one or more nucleic acids encoding one or more of the inventive CD3 binding domains and antibodies comprising them.

[0079] In certain embodiments are provided pharmaceutical compositions comprising one or more vectors encoding one or more of the inventive CD3 binding domains and antibodies comprising them and a pharmaceutically acceptable carrier and/or excipient.

[0080] In certain embodiments are provided methods of treating or delaying the progression of a disorder in a mammal in need of such treating, the methods comprising administering one or more of the inventive CD3 binding domains and antibodies comprising them, wherein the disorder is decreased or ameliorated as a result of said administering. In certain embodiments are provided methods of preventing or decreasing risk of developing a disorder in a mammal by administering one or more of the inventive CD3 binding domains and antibodies comprising them, wherein the disorder is prevented as a result of said administering. In certain embodiments are provided methods of treating a disorder in a mammal in need of such treating, wherein the disorder comprises a proliferative disorder, an oncological disorder, an immunological disorder, a neurological disorder, a neurodegenerative disorder, or an autoimmune disorder, comprising administering one or more of the inventive CD3 binding domains and antibodies comprising them, wherein the disorder is decreased or ameliorated as a result of said administering. In certain embodiments such methods further comprise administering to the mammal an additional therapeutic agent. In certain embodiments such mammal is a human.

[0081] In certain embodiments is provided a heterodimeric CD3 fusion protein comprising: a first polypeptide chain comprising a CD3 epsilon polypeptide fused to a first Fc region; and a second polypeptide chain comprising CD3 delta polypeptide fused to a second Fc region. In certain embodiments, the CD3 epsilon polypeptide comprises a human CD3 epsilon polypeptide and the CD3 delta polypeptide comprises a human CD3 delta polypeptide. In certain embodiments, the CD3 epsilon polypeptide is a human CD3 epsilon polypeptide and the CD3 delta polypeptide is a human CD3 delta polypeptide. In certain embodiments, the CD3 epsilon

polypeptide comprises a cynomolgus CD3 epsilon polypeptide and the CD3 delta polypeptide comprises a cynomolgus CD3 delta polypeptide. In certain embodiments the CD3 epsilon polypeptide is a cynomolgus CD3 epsilon polypeptide and the CD3 delta polypeptide is a cynomolgus CD3 delta polypeptide. In certain embodiments the first polypeptide of the heterodimeric CD3 fusion protein comprises the following amino acid sequence:

QDGNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQHNDKNIGGDEDDKNIGSDEDH
LSLKEFSELEQSGYYVCYPRGSKPEDANFYLYLRARVCENCMEMDGGSDKTHTCPPCP
APELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKT
KPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV
YTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYS
KLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK (SEQ ID NO: 6716); and the

second polypeptide chain comprises the following amino acid sequence:

FKIPIEELEDRVFNVCNTSITWVEGTVGTLLSDITRLDLGKRILDPRGIYRCNGTDIYKDK
STVQVHYRMCQSCVELDGGSDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEV
TCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNG
KEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPS
DIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHN
HYTQKSLSLSPGK (SEQ ID NO: 6717). In certain embodiments the first polypeptide of the

heterodimeric CD3 fusion protein comprises the following amino acid sequence:

QDGNEEMGSITQTPYQVSISGTTVILTCSQHLGSEAQWQHNGKNKEDSGDRLFLPEFSE
MEQSGYYVCYPRGSNPEDASHHLYLKARVCENCMEMDGGSDKTHTCPPCPAPELLGGP
SVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY
ASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR
DELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDK
SRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK (SEQ ID NO: 6718); and the second

polypeptide chain comprises the following amino acid sequence:

FKIPVEELEDRVFKCNTSVTWVEGTVGTLLTNNTRLDLTKRILDPRGIYRCNGTDIYKD
KESAVQVHYRMCQNCVELDPGSDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPE
VTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWL
NGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFY
PSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEAL

HNHYTQKSLSLSPGK (SEQ ID NO: 6719). In certain embodiments are provided uses of such heterodimeric CD3 fusion proteins in identifying, isolating, selecting, generating, and/or characterizing CD3 binding domains and antibodies comprising them.

Detailed Description of the Invention

[0082] Unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood by one of ordinary skill in the art to which this invention belongs. As used herein, the term "about," when used in reference to a particular recited numerical value, means that the value may vary from the recited value by no more than 1 %. For example, as used herein, the expression "about 100" includes 99 and 101 and all values in between (e.g., 99.1, 99.2, 99.3, 99.4, etc.).

[0083] It is understood that aspects and embodiments of the invention described herein include "comprising," "consisting," and "consisting essentially of" aspects and embodiments.

[0084] "Cluster of Differentiation 3" or "CD3", generally refers to any native CD3 from any vertebrate source, including mammals such as primates (e.g., humans) and rodents (e.g., mice and rats), unless otherwise indicated, including, for example, CD3 ϵ , CD3 γ , CD3 α , and CD3 β chains. The term encompasses "full-length," unprocessed CD3 (e.g., unprocessed or unmodified CD3 ϵ or CD3 γ), as well as any form of CD3 that results from processing in the cell. The term also encompasses naturally occurring variants of CD3, including, for example, splice variants or allelic variants. CD3 includes, for example, human CD3 ϵ protein (NCBI RefSeq No. NP_000724), which is 207 amino acids in length, and human CD3 γ protein (NCBI RefSeq No. NP_000064), which is 182 amino acids in length. The term also refers to either the human or cynomolgus CD3epsilon protein, the amino acid sequence for which is depicted, for example in Figure 18 herein. "CD3 ϵ N27" and "CD3 ϵ N13" refer to the N-terminal 27 amino acids and the N-terminal 13 amino acids, respectively, of CD3, and optionally containing chemical modifications or conjugations made thereto.

[0085] The "class" of an antibody refers to the type of constant domain or constant region possessed by its heavy chain. There are five major classes of antibodies: IgA, IgD, IgE, IgG, and IgM, and several of these may be further divided into subclasses (isotypes), e.g., IgG₁,

IgG₂, IgG₃, IgG₄, IgA₁, and IgA₂. The heavy chain constant domains that correspond to the different classes of immunoglobulins are called α , δ , ϵ , γ , and μ , respectively.

[0086] The term “cytotoxic agent” as used herein refers to a substance that inhibits or prevents a cellular function and/or causes cell death or destruction. Cytotoxic agents include, but are not limited to, radioactive isotopes (e.g., At²¹¹, I¹³¹, I¹²⁵, Y⁹⁰, Re¹⁸⁶, Re¹⁸⁸, Sm¹⁵³, Bi²¹², P³², Pb²¹² and radioactive isotopes of Lu); chemotherapeutic agents or drugs (e.g., methotrexate, adriamycin, vinca alkaloids (vincristine, vinblastine, etoposide), doxorubicin, melphalan, mitomycin C, chlorambucil, daunorubicin or other intercalating agents); growth inhibitory agents; enzymes and fragments thereof such as nucleolytic enzymes; antibiotics; toxins such as small molecule toxins or enzymatically active toxins of bacterial, fungal, plant or animal origin, including fragments and/or variants thereof; and the various antitumor or anticancer agents disclosed below.

[0087] A “disorder” refers to any condition or disease that would benefit from treatment including, but not limited to, chronic and acute disorders or diseases including those pathological conditions which predispose a mammal to the disorder in question.

[0088] The terms “cell proliferative disorder” and “proliferative disorder” refer to disorders that are associated with some degree of abnormal cell proliferation. In one embodiment, the cell proliferative disorder comprises cancer. In one embodiment, the cell proliferative disorder comprises a tumor.

[0089] The terms “cancer” and “cancerous” refer to or describe the physiological condition in mammals that is typically characterized by unregulated cell growth. Examples of cancer include but are not limited to, carcinoma, lymphoma, blastoma, sarcoma, and leukemia or lymphoid malignancies. More particular examples of such cancers include, but not limited to, squamous cell cancer (e.g., epithelial squamous cell cancer), lung cancer including small-cell lung cancer, non-small cell lung cancer, adenocarcinoma of the lung and squamous carcinoma of the lung, cancer of the peritoneum, hepatocellular cancer, gastric or stomach cancer including gastrointestinal cancer and gastrointestinal stromal cancer, pancreatic cancer, glioblastoma, cervical cancer, ovarian cancer, liver cancer, bladder cancer, cancer of the urinary tract, hepatoma, breast cancer, colon cancer, rectal cancer, colorectal cancer, endometrial or uterine carcinoma, salivary gland carcinoma, kidney or renal cancer, prostate cancer, vulval cancer,

thyroid cancer, hepatic carcinoma, anal carcinoma, penile carcinoma, melanoma, superficial spreading melanoma, lentigo maligna melanoma, acral lentiginous melanomas, nodular melanomas, multiple myeloma and B-cell lymphoma (including low grade/follicular non-Hodgkin's lymphoma (NHL); small lymphocytic (SL) NHL; intermediate grade/follicular NHL; intermediate grade diffuse NHL; high grade immunoblastic NHL; high grade lymphoblastic NHL; high grade small non-cleaved cell NHL; bulky disease NHL; mantle cell lymphoma; AIDS-related lymphoma; and Waldenstrom's Macroglobulinemia); chronic lymphocytic leukemia (CLL); acute lymphoblastic leukemia (ALL); hairy cell leukemia; chronic myeloblastic leukemia; and post-transplant lymphoproliferative disorder (PTLD), as well as abnormal vascular proliferation associated with phakomatoses, edema (such as that associated with brain tumors), Meigs' syndrome, brain, as well as head and neck cancer, and associated metastases. In certain embodiments, cancers that are amenable to treatment by the antibodies of the invention include breast cancer, colorectal cancer, rectal cancer, non-small cell lung cancer, glioblastoma, non-Hodgkins lymphoma (NHL), renal cell cancer, prostate cancer, liver cancer, pancreatic cancer, soft-tissue sarcoma, kaposi's sarcoma, carcinoid carcinoma, head and neck cancer, ovarian cancer, mesothelioma, and multiple myeloma. In some embodiments, the cancer is selected from: small cell lung cancer, glioblastoma, neuroblastomas, melanoma, breast carcinoma, gastric cancer, colorectal cancer (CRC), and hepatocellular carcinoma. Yet, in some embodiments, the cancer is selected from: non-small cell lung cancer, colorectal cancer, glioblastoma and breast carcinoma, including metastatic forms of those cancers. In other embodiments, the cancer is selected from a class of mature B-Cell cancers excluding Hodgkin's Lymphoma but including germinal-center B-cell-like (GCB) DLBCL, activated B-cell-like (ABC) DLBCL, follicular lymphoma (FL), mantle cell lymphoma (MCL), acute myeloid leukemia (AML), chronic lymphoid leukemia (CLL), marginal zone lymphoma (MZL), small lymphocytic leukemia (SLL), lymphoplasmacytic lymphoma (LL), Waldenstrom macroglobulinemia (WM), central nervous system lymphoma (CNSL), Burkitt's lymphoma (BL), B-cell prolymphocytic leukemia, Splenic marginal zone lymphoma, Hairy cell leukemia, Splenic lymphoma/leukemia, unclassifiable, Splenic diffuse red pulp small B-cell lymphoma, Hairy cell leukemia variant, Waldenström macroglobulinemia, Heavy chain diseases, a Heavy chain disease, γ Heavy chain disease, μ Heavy chain disease, Plasma cell myeloma, Solitary plasmacytoma of bone, Extraosseous plasmacytoma, Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue (MALT lymphoma), Nodal

marginal zone lymphoma, Pediatric nodal marginal zone lymphoma, Pediatric follicular lymphoma, Primary cutaneous follicle centre lymphoma, T-cell/histiocyte rich large B-cell lymphoma, Primary DLBCL of the CNS, Primary cutaneous DLBCL, leg type, EBV-positive DLBCL of the elderly, DLBCL associated with chronic inflammation, Lymphomatoid granulomatosis, Primary mediastinal (thymic) large B-cell lymphoma, Intravascular large B-cell lymphoma, ALK-positive large B-cell lymphoma, Plasmablastic lymphoma, Large B-cell lymphoma arising in HHV8-associated multicentric Castlemann disease, Primary effusion lymphoma: B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and Burkitt lymphoma, and B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and classical Hodgkin lymphoma.

[0090] The term “tumor” as used herein, refers to all neoplastic cell growth and proliferation, whether malignant or benign, and all pre-cancerous and cancerous cells and tissues. The terms “cancer”, “cancerous”, “cell proliferative disorder”, “proliferative disorder” and “tumor” are not mutually exclusive as referred to herein.

[0091] The term “tumor antigen” as used herein, may be understood as those antigens that are presented on tumor cells. These antigens can be presented on the cell surface with an extracellular part, which is often combined with a transmembrane and cytoplasmic part of the molecule. These antigens can sometimes be presented only by tumor cells and never by the normal ones. Tumor antigens can be exclusively expressed on tumor cells or might represent a tumor specific mutation compared to normal cells. In this case, they are called tumor-specific antigens. More common are tumor antigens that are presented by tumor cells and normal cells, and they are called tumor-associated antigens. These tumor-associated antigens can be overexpressed compared to normal cells or are accessible for antibody binding in tumor cells due to the less compact structure of the tumor tissue compared to normal tissue.

[0092] The term "EC₅₀" refers to the "half maximal effective concentration", which value measures the effectiveness of compound (e.g. an anti-CD3 bonding domain-comprising antibody) towards a biological or biochemical utility. This quantitative measure indicates the quantity or concentration required for a particular compound or antibody to elicit a given biological process to half of the maximal response.

[0093] “Effector functions” refer to those biological activities attributable to the Fc region of an antibody, which vary with the antibody isotype. Examples of antibody effector functions include: C1q binding and complement dependent cytotoxicity (CDC); Fc receptor binding; antibody-dependent cell-mediated cytotoxicity (ADCC); phagocytosis; down regulation of cell surface receptors (e.g., B cell receptor); and B cell activation.

[0094] An “effective amount” of a compound, for example, an anti-CD3 antibody of the invention or a composition (e.g., pharmaceutical composition) thereof, is at least the minimum amount required to achieve the desired therapeutic or prophylactic result, such as a measurable improvement or prevention of a particular disorder (e.g., a cell proliferative disorder, e.g., cancer). An effective amount herein may vary according to factors such as the disease state, age, sex, and weight of the patient, and the ability of the antibody to elicit a desired response in the individual. An effective amount is also one in which any toxic or detrimental effects of the treatment are outweighed by the therapeutically beneficial effects. For prophylactic use, beneficial or desired results include results such as eliminating or reducing the risk, lessening the severity, or delaying the onset of the disease, including biochemical, histological and/or behavioral symptoms of the disease, its complications and intermediate pathological phenotypes presenting during development of the disease. For therapeutic use, beneficial or desired results include clinical results such as decreasing one or more symptoms resulting from the disease, increasing the quality of life of those suffering from the disease, decreasing the dose of other medications required to treat the disease, enhancing effect of another medication such as via targeting, delaying the progression of the disease, and/or prolonging survival. In the case of cancer or tumor, an effective amount of the drug may have the effect in reducing the number of cancer cells; reducing the tumor size; inhibiting (i.e., slow to some extent or desirably stop) cancer cell infiltration into peripheral organs; inhibit (i.e., slow to some extent and desirably stop) tumor metastasis; inhibiting to some extent tumor growth; and/or relieving to some extent one or more of the symptoms associated with the disorder. An effective amount can be administered in one or more administrations. For purposes of this invention, an effective amount of drug, compound, or pharmaceutical composition is an amount sufficient to accomplish prophylactic or therapeutic treatment either directly or indirectly. As is understood in the clinical context, an effective amount of a drug, compound, or pharmaceutical composition may or may not be achieved in conjunction with another drug, compound, or pharmaceutical composition.

Thus, an “effective amount” may be considered in the context of administering one or more therapeutic agents, and a single agent may be considered to be given in an effective amount if, in conjunction with one or more other agents, a desirable result may be or is achieved.

[0095] The term “Fc region” herein is used to define a C-terminal region of an immunoglobulin heavy chain that contains at least a portion of the constant region. The term includes native sequence Fc regions and variant Fc regions. In one embodiment, a human IgG heavy chain Fc region extends from Cys226, or from Pro230, to the carboxyl-terminus of the heavy chain. However, the C-terminal lysine (Lys447) of the Fc region may or may not be present. Unless otherwise specified herein, numbering of amino acid residues in the Fc region or constant region is according to the EU numbering system, also called the EU index, as described in Kabat et al., *Sequences of Proteins of Immunological Interest*, 5th Ed. Public Health Service, National Institutes of Health, Bethesda, Md., 1991.

[0096] “Framework” or “FR” refers to variable domain residues other than complementary determining region (CDR) residues. The FR of a variable domain generally consists of four FR domains: FR1, FR2, FR3, and FR4. Accordingly, the CDR and FR sequences generally appear in the following sequence in VH (or VL): FR1-H1(L1)-FR2-H2(L2)-FR3-H3(L3)-FR4.

[0097] The terms “full-length antibody,” “intact antibody,” and “whole antibody” are used herein interchangeably to refer to an antibody having a structure substantially similar to a native antibody structure or having heavy chains that contain an Fc region as defined herein.

[0098] A “growth inhibitory agent” when used herein refers to a compound or composition which inhibits growth of a cell either in vitro or in vivo. In one embodiment, growth inhibitory agent is growth inhibitory antibody that prevents or reduces proliferation of a cell expressing an antigen to which the antibody binds. In another embodiment, the growth inhibitory agent may be one which significantly reduces the percentage of cells in S phase. Examples of growth inhibitory agents include agents that block cell cycle progression (at a place other than S phase), such as agents that induce G1 arrest and M-phase arrest. Classical M-phase blockers include the vincas (vincristine and vinblastine), taxanes, and topoisomerase II inhibitors such as doxorubicin, epirubicin, daunorubicin, etoposide, and bleomycin. Those agents that arrest G1 also spill over into S-phase arrest, for example, DNA alkylating agents such as tamoxifen,

prednisone, dacarbazine, mechlorethamine, cisplatin, methotrexate, 5-fluorouracil, and ara-C. Further information can be found in Mendelsohn and Israel, eds., *The Molecular Basis of Cancer*, Chapter 1, entitled “Cell cycle regulation, oncogenes, and antineoplastic drugs” by Murakami et al. (W.B. Saunders, Philadelphia, 1995), e.g., p. 13. The taxanes (paclitaxel and docetaxel) are anticancer drugs both derived from the yew tree. Docetaxel (TAXOTERE®, RHONE-POULENC RORER), derived from the European yew, is a semisynthetic analogue of paclitaxel (TAXOL®, BRISTOL-MYERS SQUIBB). Paclitaxel and docetaxel promote the assembly of microtubules from tubulin dimers and stabilize microtubules by preventing depolymerization, which results in the inhibition of mitosis in cells.

[0099] A phrase that includes an antigen and the term, “-positive”, such as “HER2-positive”, means that a disease, condition, or disorder is characterized, inter alia, by higher than normal levels of the referenced antigen or target. In certain embodiments, the antigen or target comprises a moiety that is expressed or otherwise present on cancer cells at a level that is higher than on normal cells.

[0100] The terms “host cell,” “host cell line,” and “host cell culture” are used interchangeably and refer to cells into which exogenous nucleic acid has been introduced, including the progeny of such cells. Host cells include “transformants” and “transformed cells,” which include the primary transformed cell and progeny derived therefrom without regard to the number of passages. Progeny may not be completely identical in nucleic acid content to a parent cell, but may contain mutations. Mutant progeny that have the same function or biological activity as screened or selected for in the originally transformed cell are included herein.

[0101] A “human antibody” is one which possesses an amino acid sequence which corresponds to that of an antibody produced by a human or a human cell or derived from a non-human source that utilizes human antibody repertoires or other human antibody-encoding sequences. This definition of a human antibody specifically excludes a humanized antibody comprising non-human antigen-binding residues. Human antibodies can be produced using various techniques known in the art, including phage-display libraries. Hoogenboom and Winter, *J. Mol. Biol.*, 227:381 (1991); Marks et al., *J. Mol. Biol.*, 222:581 (1991). Also available for the preparation of human monoclonal antibodies are methods described in Cole et al., *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, p. 77 (1985); Boerner et al., *J. Immunol.*

147(1):86-95 (1991). See also van Dijk and van de Winkel, *Curr. Opin. Pharmacol.*, 5: 368-74 (2001). Human antibodies can be prepared by administering the antigen to a transgenic animal that has been modified to produce such antibodies in response to antigenic challenge, but whose endogenous loci have been disabled, e.g., immunized xenomice (see, e.g., U.S. Pat. Nos. 6,075,181 and 6,150,584 regarding XENOMOUSE technology). See also, for example, Li et al., *Proc. Natl. Acad. Sci. USA*, 103:3557-3562 (2006) regarding human antibodies generated via a human B-cell hybridoma technology. The term "human antibody", as used herein, is intended to include antibodies having variable and constant regions derived from human germline immunoglobulin sequences. The human mAbs of the invention may include amino acid residues not encoded by human germline immunoglobulin sequences (e.g., mutations introduced by random or site-specific mutagenesis in vitro or by somatic mutation in vivo), for example in the CDRs and in particular CDR3. However, the term "human antibody", as used herein, is not intended to include mAbs in which CDR sequences derived from the germline of another mammalian species (e.g., mouse), have been grafted onto human FR sequences.

[0102] A "human consensus framework" is a framework which represents the most commonly occurring amino acid residues in a selection of human immunoglobulin VL or VH framework sequences. Generally, the selection of human immunoglobulin VL or VH sequences is from a subgroup of variable domain sequences. Generally, the subgroup of sequences is a subgroup as in Kabat et al., *Sequences of Proteins of Immunological Interest*, Fifth Edition, NIH Publication 91-3242, Bethesda Md. (1991), vols. 1-3. In one embodiment, for the VL, the subgroup is subgroup kappa I as in Kabat et al., supra. In one embodiment, for the VH, the subgroup is subgroup III as in Kabat et al., supra.

[0103] A "humanized antibody" refers to an antibody comprising amino acid residues from non-human CDRs and amino acid residues from human FRs. In certain embodiments, a humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the (e.g., CDRs) correspond to those of a non-human antibody, and all or substantially all of the FRs correspond to those of a human antibody. A humanized antibody optionally may comprise at least a portion of an antibody constant region derived from a human antibody. A humanized form of an antibody, e.g., a non-human antibody, refers to an antibody that has undergone humanization.

[0104] An “immunoconjugate” is an antibody conjugated to one or more heterologous molecule(s), including but not limited to a cytotoxic agent.

[0105] A “subject” or an “individual” is a mammal. Mammals include, but are not limited to, domesticated animals (e.g., cows, sheep, cats, dogs, and horses), primates (e.g., humans and non-human primates such as monkeys), rabbits, and rodents (e.g., mice and rats). In certain embodiments, the subject or individual is a human.

[0106] An “isolated antibody” is one which has been separated from a component of its natural environment. In some embodiments, an antibody is purified to greater than 95% or 99% purity as determined by, for example, electrophoretic (e.g., SDS-PAGE, isoelectric focusing (IEF), capillary electrophoresis) or chromatographic (e.g., ion exchange or reverse phase HPLC). For review of methods for assessment of antibody purity, see, e.g., Flatman et al., *J. Chromatogr. B* 848:79-87 (2007).

[0107] An “isolated nucleic acid” refers to a nucleic acid molecule that has been separated from a component of its natural environment. An isolated nucleic acid includes a nucleic acid molecule contained in cells that ordinarily contain the nucleic acid molecule, but the nucleic acid molecule is present extrachromosomally or at a chromosomal location that is different from its natural chromosomal location.

[0108] The term “monoclonal antibody” or “mAb” as used herein refers to an antibody obtained from a population of substantially homogeneous antibodies, i.e., the individual antibodies comprising the population are identical and/or bind the same epitope, except for possible variant antibodies, e.g., containing naturally occurring mutations or arising during production of a monoclonal antibody preparation, such variants generally being present in minor amounts. In contrast to polyclonal antibody preparations, which typically include different antibodies directed against different determinants (epitopes), each monoclonal antibody of a monoclonal antibody preparation is directed against a single determinant on an antigen. Thus, the modifier “monoclonal” indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by a variety of techniques, including but not limited to the hybridoma method, recombinant DNA methods, phage-display

methods, and methods utilizing transgenic animals containing all or part of the human immunoglobulin loci, such methods and other exemplary methods for making monoclonal antibodies being described herein.

[0109] The term “pharmaceutical formulation” or “pharmaceutical composition” refers to a preparation which is in such form as to permit the biological activity of an active ingredient contained therein, such as the inventive CD3 binding domains and antibodies comprising them, to be effective, and which contains no additional components which are unacceptably toxic to a subject to which the formulation would be administered.

[0110] A “pharmaceutically acceptable carrier” refers to an ingredient in a pharmaceutical formulation, other than an active ingredient, which is nontoxic to a subject. A pharmaceutically acceptable carrier includes, but is not limited to, a buffer, excipient, stabilizer, or preservative.

[0111] By the phrase “therapeutically effective amount” is meant an amount that produces the desired effect for which it is administered. The exact amount will depend on the purpose of the treatment, and will be ascertainable by one skilled in the art using known techniques (see, for example, Lloyd (1999) *The Art, Science and Technology of Pharmaceutical Compounding*).

[0112] An “immune response” or “immunological response” as used herein, in a subject refers to the development of a humoral immune response, a cellular- immune response, or a humoral and a cellular immune response to an antigen/immunogen. A “humoral immune response” refers to one that is at least in part mediated by antibodies. A “cellular immune response” is one mediated by T-lymphocytes or other white blood cells or both, and includes the production of cytokines, chemokines and similar molecules produced by activated T-cells, white blood cells, or both. Immune responses can be determined using standard immunoassays and neutralization assays, which are known in the art.

[0113] “Immunogenicity”, as used herein, refers to the capability of a protein or polypeptide to elicit an immune response directed specifically against a bacteria or virus that causes the identified disease.

[0114] As used herein, “treatment” (and grammatical variations thereof such as “treat” or “treating”) refers to clinical intervention in an attempt to alter the natural course of the individual being treated, and can be performed either for prophylaxis or during the course of clinical pathology. Desirable effects of treatment include, but are not limited to, preventing occurrence or recurrence of disease, alleviation of symptoms, diminishment of any direct or indirect pathological consequences of the disease, preventing metastasis, decreasing the rate of disease progression, amelioration or palliation of the disease state, and remission or improved prognosis. In some embodiments, antibodies of the invention are used to delay development of a disorder or disease or to slow the progression of a disorder or disease.

[0115] As used herein, “delaying progression” of a disorder or disease means to defer, hinder, slow, retard, stabilize, and/or postpone development of the disease or disorder (e.g., a cell proliferative disorder, e.g., cancer). This delay can be of varying lengths of time, depending on the history of the disease and/or individual being treated. As is evident to one skilled in the art, a sufficient or significant delay can, in effect, encompass prevention, in that the individual does not develop the disease. For example, a late stage cancer, such as development of metastasis, may be delayed.

[0116] By “reduce” or “inhibit” is meant the ability to cause an overall decrease, for example, of 20% or greater, of 50% or greater, or of 75%, 85%, 90%, 95%, or greater. In certain embodiments, reduce or inhibit can refer to the effector function of an antibody that is mediated by the antibody Fc region, such effector functions specifically including complement-dependent cytotoxicity (CDC), antibody-dependent cellular cytotoxicity (ADCC), and antibody-dependent cellular phagocytosis (ADCP).

[0117] As used herein, the terms "prevent," "preventing," and "prevention" refer to the prevention or inhibition of the development or onset of a disorder or disease.

[0118] As used herein, the terms “ameliorate” and “alleviate” refer to a reduction or diminishment in the severity a condition or any symptoms thereof.

[0119] The term "antibody" herein is used in the broadest sense and encompasses various antibody structures, including but not limited to monoclonal antibodies, polyclonal antibodies, multispecific antibodies (e.g., bispecific antibodies), and antibody fragments so long as they exhibit the desired antigen-binding activity. With regard to multispecific antibodies, such

antibodies comprise at least two different antigen binding domains which recognized and specifically bind to at least two different antigens. With regard to bispecific antibodies, such antibodies comprise two different antigen binding domains which recognized and specifically bind to at least two different antigens. A “different antigen” or “different antigens” may refer to different and/or distinct proteins, polypeptides, or molecules; as well as different and/or distinct epitopes, which epitopes may be contained within one protein, polypeptide, or other molecule. Unless specifically indicated otherwise, the term “antibody,” as used herein, shall also be understood to encompass, in addition to the above, antibody molecules comprising two immunoglobulin heavy chains and two immunoglobulin light chains (i.e., “full antibody molecules”) as well as antigen-binding fragments thereof. The terms “antigen-binding portion” of an antibody, “antigen-binding fragment” of an antibody, and the like, as used herein, include any naturally occurring, enzymatically obtainable, synthetic, or genetically engineered polypeptide or glycoprotein that specifically binds an antigen to form a complex.

[0120] An “antibody” and “antibodies” may also refer to immunoglobulin molecules comprised of four polypeptide chains, two heavy (H) chains and two light (L) chains interconnected by disulfide bonds (i.e., “full antibody molecules”), as well as multimers thereof (e.g. IgM) or antigen-binding fragments thereof. Each heavy chain is comprised of a heavy chain variable region (“VH”) and a heavy chain constant region (comprised of domains C_{H1}, C_{H2} and C_{H3}). Each light chain is comprised of a light chain variable region (“VL”) and a light chain constant region (“CL”). The V_H and V_L regions can be further subdivided into regions of hypervariability, termed complementarity determining regions (CDR), interspersed with regions that are more conserved, termed framework regions (FR). Each V_H and V_L is composed of three CDRs and four FRs, arranged from amino-terminus to carboxy-terminus in the following order: FR1, CDR1, FR2, CDR2, FR3, CDR3, FR4. In certain embodiments of the invention, the FRs of the antibody (or antigen binding fragment thereof) may be identical to the human germline sequences, or may be naturally or artificially modified. An amino acid consensus sequence may be defined based on a side-by-side analysis of two or more CDRs. Accordingly, the CDRs in a heavy chain are designated “CHRH1”, “CDRH2”, and “CDRH3”, respectively, and the CDRs in a light chain are designated “CDRL1”, “CDRL2”, and “CDRL3”.

[0121] An “antibody fragment” refers to a molecule other than an intact antibody that comprises a portion of an intact antibody that binds the antigen to which the intact antibody

binds. Examples of antibody fragments include but are not limited to Fv, Fab, Fab', Fab'-SH, F(ab')₂; diabodies; linear antibodies; single-chain antibody molecules (e.g. scFv); and multispecific antibodies formed from antibody fragments.

[0122] By “binding domain” or “antigen binding domain” is meant a part of an antibody, compound, or a molecule that specifically binds to a target epitope, antigen, ligand, or receptor. Binding domains include but are not limited to antibodies (e.g., monoclonal, polyclonal, recombinant, humanized, and chimeric antibodies), antibody fragments or portions thereof (e.g., Fab fragments, Fab'₂, scFv antibodies, Fv fragments, SMIP, domain antibodies, diabodies, minibodies, scFv-Fc, affibodies, nanobodies, and VH and/or VL domains of antibodies), receptors, ligands, aptamers, and other molecules having an identified binding partner.

[0123] An “affinity matured antibody” refers to an antibody with one or more alterations in one or more complementary determining regions (CDRs), compared to a parent antibody which does not possess such alterations, such alterations resulting in an improvement in the affinity of the antibody for antigen. Substitution of one or more CDR residues or omission of one or more CDRs is also possible. Antibodies have been described in the scientific literature in which one or two CDRs can be dispensed with for binding. Padlan et al. (1995 FASEB J. 9:133-139) analyzed the contact regions between antibodies and their antigens, based on published crystal structures, and concluded that only about one fifth to one third of CDR residues actually contact the antigen. Padlan also found many antibodies in which one or two CDRs had no amino acids in contact with an antigen (see also, Vajdos et al. 2002 J Mol Biol 320:415-428). CDR residues not contacting antigen can be identified based on previous studies (for example residues H60-H65 in CDRH2 are often not required), from regions of Kabat CDRs lying outside Chothia CDRs, by molecular modeling and/or empirically. If a CDR or residue(s) thereof is omitted, it is usually substituted with an amino acid occupying the corresponding position in another human antibody sequence or a consensus of such sequences. Positions for substitution within CDRs and amino acids to substitute can also be selected empirically.

[0124] Fully human monoclonal antibodies as disclosed herein may comprise one or more amino acid substitutions, insertions and/or deletions in the framework and/or CDR regions of the heavy and light chain variable domains as compared to the corresponding germline sequences. Such mutations can be readily ascertained by comparing the amino acid sequences

disclosed herein to germline sequences available from, for example, public antibody sequence databases. The present invention includes antibodies, and antigen-binding fragments thereof, which are derived from any of the amino acid sequences disclosed herein, wherein one or more amino acids within one or more framework and/or CDR regions are mutated to the corresponding residue(s) of the germline sequence from which the antibody was derived, or to the corresponding residue(s) of another human germline sequence, or to a conservative amino acid substitution of the corresponding germline residue(s) (such sequence changes are referred to herein collectively as “germline mutations”). A person of ordinary skill in the art, starting with the heavy and light chain variable region sequences disclosed herein, can easily produce numerous antibodies and antigen-binding fragments which comprise one or more individual germline mutations or combinations thereof. In certain embodiments, all of the framework and/or CDR residues within the V_H and/or V_L domains are mutated back to the residues found in the original germline sequence from which the antibody was derived. In other embodiments, only certain residues are mutated back to the original germline sequence, e.g., only the mutated residues found within the first 8 amino acids of FR1 or within the last 8 amino acids of FR4, or only the mutated residues found within CDR1, CDR2 or CDR3. In other embodiments, one or more of the framework and/or CDR residue(s) are mutated to the corresponding residue(s) of a different germline sequence (i.e., a germline sequence that is different from the germline sequence from which the antibody was originally derived). Furthermore, the antibodies of the present invention may contain any combination of two or more germline mutations within the framework and/or CDR regions, e.g., wherein certain individual residues are mutated to the corresponding residue of a particular germline sequence while certain other residues that differ from the original germline sequence are maintained or are mutated to the corresponding residue of a different germline sequence. Once obtained, antibodies and antigen-binding fragments that contain one or more germline mutations can be easily tested for one or more desired property such as, improved binding specificity, increased binding affinity, improved or enhanced antagonistic or agonistic biological properties (as the case may be), reduced immunogenicity, etc. Antibodies and antigen-binding fragments obtained in this general manner are encompassed within the present invention.

[0125] The present invention also includes fully monoclonal antibodies comprising variants of any of the CDR amino acid sequences disclosed herein having one or more

conservative substitutions. For example, the present invention includes antibodies having CDR amino acid sequences with, e.g., 10 or fewer, 8 or fewer, 6 or fewer, 4 or fewer, etc. conservative amino acid substitutions relative to any of the CDR amino acid sequences disclosed herein.

[0126] The terms “anti-CD3 antibody”, “anti-CD3 binding domain-comprising antibody”, “an antibody that binds to CD3”, “a CD3 binding domain”, “an antibody comprising a CD3 binding domain”, and the like refer to an antibody (or a CD3 binding domain) that is capable of binding CD3 with sufficient affinity and/or specificity such that the antibody is useful as a diagnostic and/or therapeutic agent in targeting CD3. In one embodiment, the extent of binding of an anti-CD3 antibody to an unrelated, non-CD3 protein is less than about 10% of the binding of the antibody to CD3 as measured, e.g., by one of a variety of solution and surface based affinity measurement methodologies and instrumentation, such as, e.g., biolayer interferometry (BLI), surface plasmon resonance (SPR), solution equilibrium based kinetic exclusion assays, KinExA direct association, assays using FORTEBIO instruments and reagents, such as Octet RED 384 and HTX BLI-based instruments, enzyme-linked immunosorbent assays (ELISA), and radioimmunoassay (RIA) (see, e.g., Estep et al, *MAbs*, Vol. 5, pages 270-278 (2013); Yu et al., *J Biomol Screen*, Vol. 21, pages 88-95 (2016)). In certain embodiments, an antibody that binds to CD3 has a dissociation constant (Kd) of < 1mM, < 100 nM, < 10 nM, < 1 nM, < 0.1 nM, < 0.01 nM, or < 0.001 nM (e.g. 10^{-8} M or less, e.g. from 10^{-8} M to 10^{-13} M, e.g., from 10^{-9} M to 10^{-13} M). In certain embodiments, an anti-CD3 antibody binds to an epitope of CD3 that is conserved among CD3 from different species.

[0127] The term “developable” refers to extent to which one or more polypeptides in a plurality of polypeptides possess desirable characteristics, such as, e.g.: desirable expression, for example, in mammalian cells; solubility; viscosity; aggregation; chemical and/or physical stability; desirable “shelf-life”; melting temperature; pharmacokinetic profiles; circulation half-life; and clearance characteristics. Such characteristics may serve as indicia, independently, as combinations of sub-sets of such indicia, or in totality, for the likelihood that such one or more polypeptides may be successfully developed as a therapeutic candidate, and ultimately an approved drug. Accordingly, as understood in the art, generally, polypeptides with desirable developability characteristics possess, e.g., relatively high solubility, relatively low viscosity, relatively low propensity for aggregation, relatively high chemical stability, relatively high

physical stability, relatively long “shelf life”, relatively high melting temperature, relatively long circulation half-life, relatively long clearance time, and the like. Polypeptides with undesirable developability characteristics possess, e.g., relatively low solubility, relatively high viscosity, relatively high propensity for aggregation, relatively poor chemical stability, relatively poor physical stability, relatively short “shelf life”, relatively low melting temperature, relatively short circulation half-life, relatively short clearance time, and the like.

[0128] Methods and assays which may be employed to ascertain the degree to which polypeptides, such as the inventive CD3 binding domains and antibodies comprising them, possess such desirable (or undesirable, as the case may be) developability characteristics are available in the art, and include, for example; those disclosed in WO 2014/179363 and Xu et al., *Protein Eng Des Sol*, Vol. 26, pages 663-670 (2013); SMP and SCP assays and the like cross interaction chromatography (CIC); self-interaction chromatography (SIC); dynamic light scattering; size exclusion chromatography (SEC), dynamic light scattering (DLS) spectroscopy; photon correlation spectroscopy; quasi-elastic light scattering, circular dichroism (CD), viscosity measurements; whole cell binding; tissue micro array methodologies; BVP ELISA assays; AC-SINS assays (Liu et al; *MAbs*, Vol. 6, pages 483-492 (2014); differential scanning calorimetry; and the like (see, e.g., He et al., *J. Pharm. Sci.*, Vol. 100(4), pp. 1330-1340 (2011); Wagner et al., *Pharm. Develop. & Technol* (posted online 2012; hyper-text transfer protocol: informahealthcare.com/doi/abs/10.3109/10837450.2011.649851); Hotzel et al., *mAbs*, Vol. 4(6), pages 753-7601 (2012); Weiqiang et al., *J. Pharm. Sci.*, Vol. 101(5), pp. 1701-1720 (2012); Banks et al., *J. Pharm. Sci.*, Vol. 101(8), pp. 2720-2732 (2012); Lie et al., *J. Pharm. Sci.*, Vol. 94(9), pp. 1928-1948 (2005); and Payne et al., *Biopolymers*, Vol. 85(5), pp. 527-533 (2006)).

[0129] Furthermore polypeptides, such as the inventive CD3 binding domains and antibodies comprising them selected or identified as possessing enhanced developability are referred to as “developable”. Polypeptides that are detected in accordance with the disclosed and claimed methods as possessing decreased developability are so detected by virtue of their interaction with the disclosed and claimed PSRs, and as such are referred to as “polyspecific” polypeptides. Such polyspecific polypeptides are further referred to as relatively “undevelopable” or relatively “non-developable” polypeptides.

[0130] Any means for detecting an interaction between one or more polypeptides and a moiety with which the one or more polypeptide interacts may be employed in accordance with the disclosed and claimed methods. Exemplary such means include, e.g.: flow cytometry; magnetic-activated cell sorting (MAGS); fluorescence assisted cell sorting (FACS); immunohistochemistry; column and/or affinity chromatography or separations; sedimentation methodologies (e.g., centrifugation); immunoprecipitation; two-hybrid assays, such as mammalian two-hybrid assays and yeast two-hybrid assays; fluorescence resonance energy transfer (FRET) assays; affinity chromatography; and the like. In certain embodiments detecting such an interaction comprises employing magnetic-activated cell sorting (MAGS); fluorescence assisted cell sorting (FACS); and/or combinations of magnetic-activated cell sorting (MAGS) and fluorescence assisted cell sorting (FACS).

[0131] A “developability score” also known as a “developability profile”, refers to an index that may be assigned to the inventive CD3 binding domains and/or antibodies comprising them upon assessing developability as described herein and in, e.g., WO 2014/179363 and Xu et al., *Protein Eng Des Sol*, Vol. 26, pages 663-670 (2013). The developability score is thus a measure or metric by which developability of CD3 binders and/or antibodies comprising them may be assessed, compared, and/or ranked. Such developability scores serve as a measure of the degree of interaction of CD3 binders and antibodies comprising them. The degree of interaction may be assessed by any number of means available in the art that provides an output value that correlates with a strength or affinity of a polypeptide for a moiety to which it is bound. Exemplary such means include flow cytometry means, such as FACS; ELISA; quantitative immunoaffinity assays or immunoprecipitation assays; mammalian two-hybrid or yeast two-hybrid assays, and the like. In the context of FACS, as demonstrated in the Examples, a degree of interaction between polypeptides in the plurality and the PSR may be ascertained by generating a mean fluorescence intensity (MFI) for each polypeptide-PSR interaction that is detected, and then ordering the MFI in either ascending or descending order, thereby ranking the polypeptides in the plurality according to the relative degree of interaction between each detected polypeptide and the PSR. Such a ranking provides for a ranking of polypeptides of the plurality such that those polypeptides possessing enhanced developability are readily ascertained, as are those polypeptides possessing decreased developability. In certain embodiments, an MFI of 500 or less is demonstrative of a polypeptide possessing enhanced developability. In certain

embodiments, an MFI of 400 or less is demonstrative of a polypeptide possessing enhanced developability. In certain embodiments, an MFI of 300 or less is demonstrative of a polypeptide possessing enhanced developability. In certain embodiments, an MFI of 200 or less is demonstrative of a polypeptide possessing enhanced developability. In certain embodiments, an MFI of 100 or less is demonstrative of a polypeptide possessing enhanced developability. In certain embodiments, an MFI of 1000 or more is demonstrative of polypeptide possessing decreased developability. In certain embodiments, an MFI of 900 or more is demonstrative of polypeptide possessing decreased developability. In certain embodiments, an MFI of 800 or more is demonstrative of polypeptide possessing decreased developability. In certain embodiments, an MFI of 700 or more is demonstrative of polypeptide possessing decreased developability. In certain embodiments, an MFI of 600 or less is demonstrative of a polypeptide possessing decreased developability.

[0132] A developability score may also take the form of a normalized score, for example, on a scale of 0.0 to 1.0, in which the score of one or more test CD3 binders and/or antibodies comprising them are normalized to the developability score determined by performing the assay with a standard, or control, polypeptide or antibody. An exemplary such standard or control antibody may comprise, e.g., a hen egg lysozyme-binding (HEL) antibody, such as ADI-03847.

[0133] The terms “cytokine release syndrome”, “cytokine release crisis”, or “cytokine storm” refers to a pro-inflammatory, positive feedback loop between cytokines and immune cells leading to excessive or uncontrolled release of pro-inflammatory cytokines by cells within immune system (e.g., T cells) (see, e.g., Lee et al., *Blood*, Vol. 124, pages 188-195 (2014) and Tisoncik et al., *Microbiol Mol Biol Rev*, Vol. 76, pages 16-32 (2012)). Without wishing to be bound by any theory, it is believed that upon stimulation and activation, the immune cells (e.g., T cells) release a series of cytokines to a level and degree that generates untoward biological/physiological effects or varying degree and severity, including acute inflammation characterized by, e.g., rubor (redness), swelling or edema, calor (heat), dolor (pain), and “functio laesa” (loss of function); when localized in skin or other tissue: increase blood flow, enabling vascular leukocytes and plasma proteins to reach extravascular sites of injury, increasing local temperatures and generation of pain, tissue edema and extravascular pressure and a reduction in tissue perfusion; organ and system dysfunction, such as cardiac dysfunction, adult respiratory

distress syndrome, neurologic toxicity, renal and/or hepatic failure, and disseminated intravascular coagulation. Although numerous cytokines appear to associate with onset of CRS, elevated levels of IFN γ , IL-6, TNF α , TGF β , IL-2, granulocyte macrophage–colony-stimulating factor (GM-CSF), IL-10, IL-8, IL-5, and/or fractalkine are implicated as predictive and/or causative of CRS or the propensity to elicit CRS upon T-cell stimulation. In certain embodiments of the invention, elevated levels of Interleukin 6 (IL-6); Interleukin 12 (IL-12); tumor necrosis factor alpha (TNF α); (TGF β); Interleukin-2 (IL-2); and/or interferon gamma (IFN γ) production by T-cells incubated with the CD3 binding domains and antibodies comprising them are predictive of the propensity to elicit CRS. In certain embodiments of the invention, elevated levels interferon gamma (IFN γ) production by T-cells incubated with the CD3 binding domains and antibodies comprising them are predictive of the propensity to elicit CRS.

[0134] A “cytokine release syndrome risk score”, also known as a “cytokine release syndrome risk profile”, “CRS risk score”, or “CRS risk profile”, refers to an index that may be assigned to the inventive CD3 binding domains and/or antibodies comprising them upon assessing the propensity to elicit cytokine production levels from T cells incubated or contacted with the inventive CD3 binding domains (and/or antibodies comprising them) to levels that would be predicted or expected, and/or in fact demonstrated, to be sufficient to induce cytokine release syndrome in subjects. The developability score is thus a measure or metric by which CRS risk of CD3 binders and/or antibodies comprising them may be assessed, compared, and/or ranked. Such CRS risk scores serve as a measure of the propensity, either predictive or demonstrative, of CD3 binders and antibodies comprising them to elicit cytokine release when assessed in either an in vitro (e.g., cell-based) or an in vivo (e.g., in a test subject or patient) cytokine release assay. Such assays are available to the artisan and include, in certain embodiments of the invention e.g., the use of PBMCs, either as cultured cell lines or as primary cells obtained from living donors, to assess the ability of immunomodulatory agents, such as CD3 binding domains and antibodies comprising them, to induce cytokine production/secretion in cell-based cytokine release assays performed in immobilized or, preferably soluble antibody formats (see, e.g., Vessillier et al., *J Immunol Methods*, Vol. 424, pages 43-52 (2015)). Generally, production levels of cytokines that are measured as indicators or predictive of CRS risk, as understood by the artisan and/or as disclosed therein and throughout, that are lower for

test molecules than that determined for known (i.e., “positive control”) inducers of cytokine release syndrome or cytokine storm are indicative of diminished risk of inducing CRS by the test inducers.

[0135] The term “recombinant” generally refers to any protein, polypeptide, or cell expressing a gene of interest that is produced by genetic engineering methods. The term “recombinant” as used with respect to a protein or polypeptide, means a polypeptide produced by expression of a recombinant polynucleotide. The proteins used in the immunogenic compositions of the invention may be isolated from a natural source or produced by genetic engineering methods.

[0136] The antibodies of the invention may, in some embodiments, be recombinant human antibodies. The term “recombinant human antibody”, as used herein, is intended to include all antibodies, including human or humanized antibodies, that are prepared, expressed, created or isolated by recombinant means, such as antibodies expressed using a recombinant expression vector transfected into a host cell (described further below), antibodies isolated from a recombinant, combinatorial human antibody library (described further below), antibodies isolated from an animal (e.g., a mouse) that is transgenic for human immunoglobulin genes (see e.g., Taylor et al. (1992) Nucl. Acids Res. 20:6287-6295) or antibodies prepared, expressed, created or isolated by any other means that involves splicing of human immunoglobulin gene sequences to other DNA sequences. Such recombinant human antibodies have variable and constant regions derived from human germline immunoglobulin sequences. In certain embodiments, however, such recombinant human antibodies are subjected to *in vitro* mutagenesis (or, when an animal transgenic for human Ig sequences is used, *in vivo* somatic mutagenesis) and thus the amino acid sequences of the V_H and V_L regions of the recombinant antibodies are sequences that, while derived from and related to human germline V_H and V_L sequences, may not naturally exist within the human antibody germline repertoire *in vivo*.

[0137] The term “specifically binds,” or “binds specifically to”, or the like, means that an antibody or antigen-binding fragment thereof forms a complex with an antigen that is relatively stable under physiologic conditions. Specific binding can be characterized by an equilibrium dissociation constant of at least about 1×10^{-6} M or less (e.g., a smaller K_D denotes a tighter binding). Methods for determining whether two molecules specifically bind are well known in

the art and include, for example, equilibrium dialysis, surface plasmon resonance, and the like. As described herein, antibodies have been identified by surface plasmon resonance, e.g., BIACORE™, biolayer interferometry measurements using, e.g., a FORTEBIO Octet HTX instrument (Pall Life Sciences), which bind specifically to CD3. Moreover, multi-specific antibodies that bind to CD3 and one or more additional antigens, or a bi-specific that binds to two different regions of CD3 and/or different regions of an additional antigen are nonetheless considered antibodies that “specifically bind”, as used herein. In certain embodiments, the antibodies disclosed herein display equilibrium dissociation constants (and hence specificities) of about 1×10^{-6} M; about 1×10^{-7} M; about 1×10^{-8} M; about 1×10^{-9} M; about 1×10^{-10} M; between about 1×10^{-6} M and about 1×10^{-7} M; between about 1×10^{-7} M and about 1×10^{-8} M; between about 1×10^{-8} M and about 1×10^{-9} M; or between about 1×10^{-9} M and about 1×10^{-10} M.

[0138] The term “high affinity” antibody refers to those mAbs having a binding affinity to CD3, expressed as K_D , of at least 10^{-9} M; more preferably 10^{-10} M, more preferably 10^{-11} M, more preferably 10^{-12} M as measured by surface plasmon resonance, e.g., BIACOR, biolayer interferometry measurements using, e.g., a FORTEBIO Octet HTX instrument (Pall Life Sciences), or solution-affinity ELISA.

[0139] By the term “slow off rate”, is meant an antibody that dissociates from CD3, with a rate constant (K_{off} or K_D) of $1 \times 10^{-3} \text{ s}^{-1}$ or less, preferably $1 \times 10^{-4} \text{ s}^{-1}$ or less, as determined by surface plasmon resonance, e.g., BIACORE™ or a FORTEBIO Octet HTX instrument (Pall Life Sciences).

[0140] Further with regard to antibody fragments such antibody fragments may include a Fab fragment, a $F(ab')_2$ fragment, a Fv fragment, a dAb fragment, a fragment containing a CDR, or an isolated CDR. Antigen-binding fragments of an antibody may be derived, e.g., from full antibody molecules using any suitable standard techniques such as proteolytic digestion or recombinant genetic engineering techniques involving the manipulation and expression of DNA encoding antibody variable and (optionally) constant domains. Such DNA is known and/or is readily available from, e.g., commercial sources, DNA libraries (including, e.g., phage-antibody libraries), or can be synthesized. The DNA may be sequenced and manipulated chemically or by using molecular biology techniques, for example, to arrange one or more variable and/or constant

domains into a suitable configuration, or to introduce codons, create cysteine residues, modify, add or delete amino acids, etc.

[0141] Non-limiting examples of antigen-binding fragments include: (i) Fab fragments; (ii) F(ab')₂ fragments; (iii) Fd fragments; (iv) Fv fragments; (v) single-chain Fv (scFv) molecules; (vi) dAb fragments; and (vii) minimal recognition units consisting of the amino acid residues that mimic the hypervariable region of an antibody (e.g., an isolated complementarity determining region (CDR) such as a CDR3 peptide), or a constrained FR3-CDR3-FR4 peptide. Other engineered molecules, such as domain-specific antibodies, single domain antibodies, domain-deleted antibodies, chimeric antibodies, CDR-grafted antibodies, diabodies, triabodies, tetrabodies, minibodies, nanobodies (e.g., monovalent nanobodies, bivalent nanobodies, etc.), small modular immunopharmaceuticals (SMIPs), and shark variable IgNAR domains, are also encompassed within the expression "antigen-binding fragment," as used herein.

[0142] An antigen-binding fragment of an antibody will typically comprise at least one variable domain. The variable domain may be of any size or amino acid composition and will generally comprise at least one CDR, which is adjacent to or in frame with one or more framework sequences. In antigen-binding fragments having a V_H domain associated with a V_L domain, the V_H and V_L domains may be situated relative to one another in any suitable arrangement. For example, the variable region may be dimeric and contain V_H - V_H, V_H - V_L or V_L - V_L dimers. Alternatively, the antigen-binding fragment of an antibody may contain a monomeric V_H or V_L domain.

[0143] In certain embodiments, an antigen-binding fragment of an antibody may contain at least one variable domain covalently linked to at least one constant domain. Non-limiting, exemplary configurations of variable and constant domains that may be found within an antigen-binding fragment of an antibody of the present invention include: (i) V_H - C_{H1}; (ii) V_H - C_{H2}; (iii) V_H - C_{H3}; (iv) V_H - C_{H1} - C_{H2}; (v) V_H - C_{H1} - C_{H2} - C_{H3}; (vi) V_H - C_{H2} - C_{H3}; (vii) V_H - C_L; (viii) V_L - C_{H1}; (ix) V_L - C_{H2}; (x) V_L - C_{H3}; (xi) V_L - C_{H1} - C_{H2}; (xii) V_L - C_{H1} - C_{H2} - C_{H3}; (xiii) V_L - C_{H2} - C_{H3}; and (xiv) V_L - C_L. In any configuration of variable and constant domains, including any of the exemplary configurations listed above, the variable and constant domains may be either directly linked to one another or may be linked by a full or partial hinge or linker region. A hinge region may consist of at least 2 (e.g., 5, 10, 15, 20, 40, 60 or more) amino acids, which result in a

flexible or semi-flexible linkage between adjacent variable and/or constant domains in a single polypeptide molecule. Moreover, an antigen-binding fragment of an antibody of the present invention may comprise a homo-dimer or hetero-dimer (or other multimer) of any of the variable and constant domain configurations listed above in non-covalent association with one another and/or with one or more monomeric V_H or V_L domain (e.g., by disulfide bond(s)).

[0144] As with full antibody molecules, antigen-binding fragments may be mono-specific or multi-specific (e.g., bi-specific). A multi-specific antigen-binding fragment of an antibody will typically comprise at least two different variable domains, wherein each variable domain is capable of specifically binding to a separate antigen or to a different epitope on the same antigen. Any multi-specific antibody format, including the exemplary bi-specific antibody formats disclosed herein, may be adapted for use in the context of an antigen-binding fragment of an antibody of the present invention using routine techniques available in the art. Non-limiting examples of multispecific and bispecific formats that are amenable to incorporation of the inventive anti-CD3 binding domains include, e.g., Fab-Fc-scFv (“bottle-opener”) (XENCOR), Mab-scFv (XENCOR), Mab-Fv (XENCOR), Dual scFv (XENCOR), central Fv (XENCOR), central scFv (XENCOR), one-arm central scFv (XENCOR), Fab-Fab (XENCOR), Fab-Fv (XENCOR), mAb-Fv (XENCOR), mAb-Fab (XENCOR), DART (MACROGENICS), BiTE (AMGEN/MICROMET), KiTE, common light chain-IgG (Genentech), TandAb (SFFIMED) Cross-Mab (ROCHE), SEED (EMD SERONO), BEAT (GLENMARK), TrioMab (TRION PHARMA/FRESENIUS BIOTECH), DuetMab (MEDIMMUNE), and others, as disclosed, e.g., in (WO 95/09917; WO 2008/119566; WO 2008/119567; WO2011/121110; WO 2010/037835; WO 2007/042261; WO 2007/110205; WO 2011/121110; WO 2012/055961; WO 2012/16067; WO 2016/086189; WO 2016/182751; WO 2015/006749; WO 2014/049003; WO 2013/177101; WO 2015/128509; US 7,951,917; US 2009/0252729; US 2014/0348839; US 7,183,076; Mazor et al., *Mabs*, Vol. 7, pages 377-389 (2015); Muda et al., *Protein Engineering, Design, & Selection*, Vol. 24, pages 447-454 (2011); and Del Bano et al., *Antibodies*, Vol. 5, pages 1-23 (2016).

[0145] The specific embodiments, antibody or antibody fragments of the invention may be conjugated to a therapeutic moiety (“immunoconjugate”), such as an antibiotic, a second anti-CD3 antibody, a vaccine, or a toxoid, or any other useful therapeutic moiety.

[0146] An “isolated antibody”, as used herein, is intended to refer to an antibody that is substantially free of other antibodies (Abs) having different antigenic specificities (e.g., an isolated antibody that specifically binds CD3, or a fragment thereof, is substantially free of Abs that specifically bind antigens other than CD3).

[0147] A “blocking antibody” or a “neutralizing antibody”, as used herein (or an “antibody that neutralizes CD3 activity”), is intended to refer to an antibody whose binding to CD3, as the case may be as disclosed herein, results in inhibition of at least one biological activity of CD3.

[0148] The term “surface plasmon resonance”, as used herein, refers to an optical phenomenon that allows for the analysis of real-time biomolecular interactions by detection of alterations in protein concentrations within a biosensor matrix, for example using the BIACORE™ system (Pharmacia Biosensor AB, Uppsala, Sweden and Piscataway, N.J.).

[0149] The term “ K_D ”, as used herein, is intended to refer to the equilibrium dissociation constant of a particular antibody-antigen interaction.

[0150] The term “epitope” refers to an antigenic determinant that interacts with a specific antigen binding site in the variable region of an antibody molecule known as a paratope. A single antigen may have more than one epitope. Thus, different antibodies may bind to different areas on an antigen and may have different biological effects. The term “epitope” also refers to a site on an antigen to which B and/or T cells respond. It also refers to a region of an antigen that is bound by an antibody. Epitopes may be defined as structural or functional. Functional epitopes are generally a subset of the structural epitopes and have those residues that directly contribute to the affinity of the interaction. Epitopes may also be conformational, that is, composed of non-linear amino acids. In certain embodiments, epitopes may include determinants that are chemically active surface groupings of molecules such as amino acids, sugar side chains, phosphoryl groups, or sulfonyl groups, and, in certain embodiments, may have specific three-dimensional structural characteristics, and/or specific charge characteristics.

[0151] The term “substantial identity”, or “substantially identical,” when referring to a nucleic acid or fragment thereof, or an amino acid sequence or a fragment thereof, indicates that, when optimally aligned with appropriate insertions or deletions with another nucleic acid

sequence or amino acid sequence, as the case may be, (or its complementary strand), there is sequence identity in at least about 100%, at least about 99%, at least about 98%, at least about 97%, at least about 96%, at least about 95%, at least about 94%, at least about 93%, at least about 92%, at least about 91%, at least about 90%, at least about 89%, at least about 88%, at least about 87%, at least about 86%, at about 85%, at least about 84%, at least about 83%, at least about 82%, at least about 80%, and optionally so on, as measured by any well-known algorithm of sequence identity, such as FASTA, BLAST or GAP, as discussed below.

Accordingly, sequences that display a certain percentage “identity” share that percentage identity, and/or are that percentage “identical” to one another.

[0152] In certain embodiments, the disclosed CD3 binding domains, and/or the individual heavy chain (HC) sequence, light chain (LC) sequence, CDRH3 sequence, CDRH2 sequence, CHRH1 sequence, CDRL3 sequence, CDRL2 sequence, CDRL1 sequence, and/or framework sequences are independently at least about 100%, at least about 99%, at least about 98%, at least about 97%, at least about 96%, at least about 95%, at least about 94%, at least about 93%, at least about 92%, at least about 91%, at least about 90%, at least about 89%, at least about 88%, at least about 87%, at least about 86%, at about 85%, at least about 84%, at least about 83%, at least about 82%, at least about 80%; and/or all percentages of identity in between; to other sequences and/or share such percentage identities with one another (or with certain subsets of the herein-disclosed antibody sequences).

[0153] In certain embodiments, the disclosed antibody amino acid sequences are, e.g.,: at least 70% identical; at least 75% identical; 80% identical; at least 85% identical; at least 90% identical; at least 95% identical; at least 96% identical; at least 97% identical; at least 98% identical; at least 99%; and/or all percentages of identity in between; to other sequences and/or share such percentage identities with one another (or with certain subsets of the herein-disclosed antibody sequences).

[0154] Preferably, residue positions, which are not identical, differ by conservative amino acid substitutions. A “conservative amino acid substitution” is one in which an amino acid residue is substituted by another amino acid residue having a side chain (R group) with similar chemical properties (e.g., charge or hydrophobicity). In general, a conservative amino acid substitution will not substantially change the functional properties of a protein. In cases where

two or more amino acid sequences differ from each other by conservative substitutions, the percent or degree of similarity may be adjusted upwards to correct for the conservative nature of the substitution. Means for making this adjustment are well known to those of skill in the art. (See, e.g., Pearson (1994) *Methods Mol. Biol.* 24: 307- 331). Examples of groups of amino acids that have side chains with similar chemical properties include 1) aliphatic side chains: glycine, alanine, valine, leucine and isoleucine; 2) aliphatic- hydroxyl side chains: serine and threonine; 3) amide-containing side chains: asparagine and glutamine; 4) aromatic side chains: phenylalanine, tyrosine, and tryptophan; 5) basic side chains: lysine, arginine, and histidine; 6) acidic side chains: aspartate and glutamate, and 7) sulfur-containing side chains: cysteine and methionine. Preferred conservative amino acids substitution groups are: valine-leucine-isoleucine, phenylalanine-tyrosine, lysine-arginine, alanine-valine, glutamate-aspartate, and asparagine-glutamine. Alternatively, a conservative replacement is any change having a positive value in the PAM250 log-likelihood matrix disclosed in Gonnet et al. (1992) *Science* 256: 1443 45. A “moderately conservative” replacement is any change having a nonnegative value in the PAM250 log-likelihood matrix.

[0155] Sequence similarity for polypeptides is typically measured using sequence analysis software. Protein analysis software matches similar sequences using measures of similarity assigned to various substitutions, deletions and other modifications, including conservative amino acid substitutions. For instance, GCG software contains programs such as GAP and BESTFIT which can be used with default parameters to determine sequence homology or sequence identity between closely related polypeptides, such as homologous polypeptides from different species of organisms or between a wild type protein and a mutin thereof. See, e.g., GCG Version 6.1. Polypeptide sequences also can be compared using FASTA with default or recommended parameters; a program in GCG Version 6.1. FASTA (e.g., FASTA2 and FASTA3) provides alignments and percent sequence identity of the regions of the best overlap between the query and search sequences (Pearson (2000) *supra*). Another preferred algorithm when comparing a sequence of the invention to a database containing a large number of sequences from different organisms is the computer program BLAST, especially BLASTP or TBLASTN, using default parameters. (See, e.g., Altschul et al. (1990) *J. Mol. Biol.* 215: 403 410 and (1997) *Nucleic Acids Res.* 25:3389 402).

[0156] In certain embodiments, the antibody or antibody fragment for use in the method of the invention may be mono-specific, bi-specific, or multi-specific. Multi-specific antibodies may be specific for different epitopes of one target polypeptide or may contain antigen-binding domains specific for epitopes of more than one target polypeptide. An exemplary bi-specific antibody format that can be used in the context of the present invention involves the use of a first immunoglobulin (Ig) C_{H3} domain and a second Ig C_{H3} domain, wherein the first and second Ig C_{H3} domains differ from one another by at least one amino acid, and wherein at least one amino acid difference reduces binding of the bi-specific antibody to Protein A as compared to a bi-specific antibody lacking the amino acid difference. In one embodiment, the first Ig C_{H3} domain binds Protein A and the second Ig C_{H3} domain contains a mutation that reduces or abolishes Protein A binding such as an H95R modification (by IMGT exon numbering; H435R by EU numbering). The second C_{H3} may further comprise an Y96F modification (by IMGT; Y436F by EU). Further modifications that may be found within the second C_{H3} include: D16E, L18M, N44S, K52N, V57M, and V82I (by IMGT; D356E, L358M, N384S, K392N, V397M, and V422I by EU) in the case of IgG1 mAbs; N44S, K52N, and V82I (IMGT; N384S, K392N, and V422I by EU) in the case of IgG2 mAbs; and Q15R, N44S, K52N, V57M, R69K, E79Q, and V82I (by IMGT; Q355R, N384S, K392N, V397M, R409K, E419Q, and V422I by EU) in the case of IgG4 mAbs. Variations on the bi-specific antibody format described above are contemplated within the scope of the present invention.

[0157] *Exemplary Anti-CD3 binding domains and antibodies comprising them*

[0158] As mentioned above, in certain embodiments of the invention a large series of CD3 binding domains and antibodies comprising them, and methods of preparing and using them are provided. Surprisingly, species of this large series of CD3 binding domains collectively display desirable properties, including, e.g., a broad range of affinities for CD3 epsilon; cross-reactivity towards both human CD3 (“Hu CD3”) and cynomolgus CD3 (“Cy CD3”); as well as desirable developability profiles and/or cytokine release syndrome (CRS) risk profiles. In certain embodiments, the inventive CD3 binding domains, and antibodies comprising them, display developability profiles and/or CRS risk profiles that are superior to the developability profiles and/or CRS risk profiles of other anti-CD3 antibodies. In certain embodiments, the inventive CD3 binding domains, and antibodies comprising them, display developability profiles and/or

CRS risk profiles that are superior to the developability profiles and/or CRS risk profiles of, e.g., I2C; SP34; 38E4; CAB21609_A01, CAB21609_B01, CAB21609_C01, and/or CAB21609_D01 as disclosed herein as well as in Yang et al., J Immunol, Vol 137, pages 1097-1100 (August 4, 1986); US 2014/008295; and WO 2015/095392.

[0159] In certain embodiments, the invention provides CD3 binding domains and antibodies comprising them that bind to CD3 (e.g., CD3 ϵ and/or CD3 γ).

[0160] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them are provided which display an enhanced developability profile relative to other CD3 binding domains (or antibodies comprising them). In certain embodiments, the inventive CD3 binding domains and antibodies comprising them are provided which display an enhanced developability profile relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blinicyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0161] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them display a developability score of: between about 0 MFI and about 500 MFI; between about 0 MFI and about 450 MFI; between about 0 MFI and about 400 MFI; between about 0 MFI and about 350 MFI; between about 0 MFI and about 300 MFI; between about 0 MFI and about 250 MFI; between about 0 MFI and about 200 MFI; between about 0 MFI and about 150 MFI; between about 0 MFI and about 100 MFI; between about 0 MFI and about 50 MFI; between about 200 MFI and 500 MFI; ; between about 200 MFI and about 450 MFI; between about 200 MFI and about 400 MFI; between about 200 MFI and about 350 MFI; between about 200 MFI and about 300 MFI; between about 200 MFI and about 250 MFI; between about 100 MFI and about 450 MFI; between about 100 MFI and about 400 MFI; between about 100 MFI and about 350 MFI; between about 100 MFI and about 300 MFI; between about 100 MFI and about 250 MFI; between about 100 MFI and about 200 MFI; or between about 100 MFI and about 150 MFI.

[0162] In other embodiments, the inventive CD3 binders and antibodies comprising them display a normalized developability score of between about 0.0 and about 0.6; between about 0.0 and about 0.57; between about 0.0 and about 0.55; between about 0.0 and about 0.53; between about 0.0 and about 0.51; between about 0.0 and about 0.49; between about 0.0 and about 0.47;

between about 0.0 and about 0.45; between about 0.0 and about 0.43; between about 0.0 and about 0.41; between about 0.0 and about 0.39; between about 0.0 and about 0.37; between about 0.0 and about 0.35; between about 0.0 and about 0.33; between about 0.0 and about 0.31; between about 0.0 and about 0.29; between about 0.0 and about 0.27; between about 0.0 and about 0.25; between about 0.0 and about 0.23; between about 0.0 and about 0.21; between about 0.0 and about 0.19; between about 0.0 and about 0.17; between about 0.0 and about 0.15; between about 0.0 and about 0.13; between about 0.0 and about 0.11; between about 0.0 and about 0.09; between about 0.0 and about 0.07; or between about 0.0 and about 0.05.

[0163] In certain embodiments, the developability profile and/or developability score for the inventive CD3 binders and antibodies comprising them is obtained by performing a PSR assay; an SCP assay; AS-CINS; a BVP assay; an ELISA; a DSF assay; a Tm assay; a HIC assay; a CIC assay; or combinations thereof.

[0164] In other embodiments, the inventive CD3 binding domains and antibodies comprising them elicit potent T cell activation or T cell killing while displaying a decreased propensity to elicit cytokine production to levels capable of inducing cytokine release syndrome. In certain embodiments, at least one cytokine for which cytokine production levels are measured in order to assess the propensity to elicit cytokine production levels capable of inducing cytokine release syndrome is selected from the group consisting of: Interleukin 6 (IL-6); Interleukin 12 (IL-12); tumor necrosis factor alpha (TNFa); (TGFb); Interleukin-2 (IL-2); and Interferon gamma (IFNg).

[0165] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them elicit T cell activation or T cell killing while displaying a decreased propensity to elicit cytokine production to levels capable of inducing cytokine release relative to that observed one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blinicyto®); and Mab 364, Mab366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2. In certain embodiments, at least one cytokine for which cytokine production levels are measured in order to assess the propensity to elicit cytokine production levels capable of inducing cytokine release syndrome is selected from the group consisting of: Interleukin 6 (IL-6); Interleukin 12 (IL-12); tumor necrosis factor alpha (TNFa); (TGFb); Interleukin-2 (IL-2); and Interferon gamma (IFNg).

[0166] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them display a cytokine release syndrome risk profile that is indicative of decreased risk of eliciting cytokine release syndrome (CRS). In other embodiments, the inventive CD3 binding domains and antibodies comprising them display a cytokine release syndrome risk profile that is indicative of decreased risk of eliciting cytokine release syndrome (CRS) when compared to the cytokine release syndrome risk profile assessed for one or more of: trastuzumab (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0167] In certain embodiments, the invention provides an antibody comprising a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH3 is not 100% identical to the CDRH3 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0168] In certain embodiments, the invention provides an antibody comprising a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH2 is not 100% identical to the CDRH2 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0169] In certain embodiments, the invention provides an antibody comprising a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97%

identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH1 is not 100% identical to the CDRH1 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0170] In certain embodiments, the invention provides an antibody comprising a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL3 selected from the group consisting of the CDRL3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRL3 is not 100% identical to the CDRL3 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0171] In certain embodiments, the invention provides an antibody comprising a CDRL2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL2 selected from the group consisting of the CDRL2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRL2 is not 100% identical to the CDRL2 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0172] In certain embodiments, the invention provides an antibody comprising a CDRL1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97%

identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL1 selected from the group consisting of the CDRL1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRL1 is not 100% identical to the CDRL1 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0173] In certain embodiments, the invention provides an antibody comprising a heavy chain (HC) variable region that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; an HC variable region selected from the group consisting of the HC variable regions of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the HC variable region is not 100% identical to the HC variable region of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0174] In certain embodiments, the invention provides an antibody comprising a light chain (LC) variable region that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a LC variable region selected from the group consisting of the LC variable regions of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the LC variable region is not 100% identical to the LC variable region of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0175] In certain embodiments, the invention provides an antibody comprising a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the neither the CDRH3, CDRH2, nor the CDRH1 is 100% identical to the CDRH3, CDRH2, or CDRH1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0176] In certain embodiments, the invention provides an antibody comprising a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical

to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL3 selected from the group consisting of the CDRL3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRL2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL2 selected from the group consisting of the CDRL2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and a CDRL1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical; to a CDRL1 selected from the group consisting of the CDRL1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the neither the CDRL3, CDRL2, nor the CHRL1 is 100% identical to the CHRL3, CDRL2, or CDRL1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0177] In certain embodiments, the invention provides an antibody comprising a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least

94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL3 selected from the group consisting of the CDRL3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; a CDRL2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL2 selected from the group consisting of the CDRL2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and a CDRL1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87%

identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL1 selected from the group consisting of the CDRL1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the neither the CDRH3, CDRH2, CDRH1, CDRL3, CDHL2, nor the CHRL1 is 100% identical to the CDRH3, CDRH2, CDRH1, CDRL3, CDHL2, or the CDRL1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

[0178] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-15512; ADI-15516; and ADI-16513; as provided in Table 2.

[0179] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-18562; ADI-18564; ADI-18565; ADI-18566; ADI-18567; ADI-18568; ADI-18570; ADI-18571; ADI-18572; ADI-18573; ADI-18563; ADI-18569; ADI-18574; ADI-18575; ADI-18576; ADI-18578; ADI-18579; ADI-18580; ADI-18581; ADI-18582; ADI-18584; ADI-18585; ADI-18577; ADI-18583; ADI-18588; ADI-18589; ADI-18590; ADI-18591; ADI-18593; ADI-18594; ADI-18595; ADI-18596; ADI-18597; ADI-18592; ADI-18587; ADI-18586; and; ADI-16606; as provided in Table 2.

[0180] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-18576; ADI-20820; ADI-20578; ADI-20571; ADI-21097; ADI-20577; ADI-20576; ADI-20568; ADI-20582; ADI-20575; ADI-20567; ADI-20574; ADI-20573; ADI-20579; ADI-18565; ADI-20818; ADI-20587; ADI-20588; ADI-20589; ADI-20590; ADI-20594; ADI-20596; ADI-20599; ADI-20605; ADI-20607; ADI-20608; and ADI-20609; as provided in Table 2.

[0181] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-16606; ADI-20587; ADI-20607; ADI-20590; ADI-28708; ADI-28709; ADI-28710; ADI-21943; ADI-28711; ADI-28712; ADI-28713; ADI-28714; ADI-28715; ADI-21944; ADI-28716; ADI-21945; ADI-21946; ADI-28717; ADI-21947; ADI-28718; ADI-28719; ADI-28720; ADI-28721; ADI-28722; ADI-28723; ADI-28724; ADI-28725; ADI-28726; ADI-28727; ADI-28728; ADI-28729;

ADI-28730; ADI-28731; ADI-28732; ADI-28733; ADI-28734; ADI-28735; ADI-28736; ADI-28737; ADI-28738; ADI-28739; ADI-28740; ADI-28741; ADI-28742; ADI-28743; ADI-21948; ADI-21949; ADI-28744; ADI-21950; ADI-28745; ADI-28746; ADI-28747; ADI-28748; ADI-21951; ADI-21952; ADI-28749; ADI-28750; ADI-28751; ADI-21953; ADI-28752; ADI-21954; ADI-28753; ADI-28754; ADI-28755; ADI-28756; ADI-28757; ADI-28758; ADI-28759; ADI-28760; ADI-28761; ADI-28762; ADI-28763; ADI-28764; ADI-28765; ADI-28766; ADI-28767; ADI-28768; ADI-21955; ADI-28769; ADI-28770; ADI-21956; ADI-28771; ADI-28772; ADI-28773; ADI-28774; and ADI-28775; as provided in Table 2.

[0182] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-21959; ADI-21963; ADI-21965; ADI-21967; ADI-21970; ADI-21971; ADI-21972; ADI-21973; ADI-21974; ADI-21975; ADI-21976; ADI-21977; ADI-21978; ADI-21979; ADI-21943; ADI-21944; ADI-21945; ADI-21946; ADI-21947; ADI-21948; ADI-21949; ADI-21950; ADI-21951; ADI-21952; ADI-21953; ADI-21954; ADI-21955; and ADI-21956; as provided in Table 2.

[0183] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-21952; ADI-22523; ADI-24403; ADI-24404; ADI-24405; ADI-24407; ADI-24408; ADI-24409; ADI-24410; ADI-24411; ADI-24412; ADI-24413; ADI-24414; ADI-24415; ADI-24416; ADI-24417; ADI-24418; ADI-24434; ADI-24435; ADI-24436; ADI-24437; ADI-24438; ADI-24439; ADI-24440; ADI-24441; ADI-24442; ADI-24443; ADI-24444; ADI-24445; ADI-24446; ADI-24449; ADI-24388; ADI-24389; ADI-24390; ADI-24391; ADI-24392; ADI-24393; ADI-24394; ADI-24395; ADI-24396; ADI-24397; ADI-24398; ADI-24399; ADI-24400; ADI-24401; ADI-24402; ADI-24419; ADI-24420; ADI-24421; ADI-24422; ADI-24423; ADI-24424; ADI-24425; ADI-24426; ADI-24427; ADI-24428; ADI-24429; ADI-24430; ADI-24431; ADI-24432; ADI-24433; ADI-24447; and ADI-24448; as provided in Table 2.

[0184] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-23652; ADI-23653; ADI-23654; ADI-23655; ADI-23656; ADI-23657; ADI-23658; ADI-23651; ADI-23644; ADI-23645; ADI-23646; ADI-23647; ADI-23648; ADI-23649; ADI-23650; ADI-23667; ADI-23668; ADI-23669; ADI-23670; ADI-23671; ADI-23672; ADI-23673; ADI-

23659; ADI-23660; ADI-23661; ADI-23663; ADI-23664; ADI-23639; ADI-23641; ADI-23642; ADI-23640; ADI-23643; ADI-21952; ADI-23633; ADI-23634; ADI-23635; ADI-23636; ADI-23637; ADI-23638; ADI-23632; and ADI-23629; as provided in Table 2.

[0185] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26909; ADI-26910; ADI-26912; ADI-26913; ADI-26915; ADI-26916; ADI-26917; ADI-26918; ADI-26919; ADI-26920; ADI-26921; ADI-26924; ADI-26925; ADI-26927; ADI-26928; ADI-26929; ADI-26930; ADI-26932; ADI-26933; ADI-26938; ADI-26939; ADI-26940; ADI-26941; ADI-26942; ADI-26943; ADI-26944; ADI-26945; ADI-26950; ADI-26954; ADI-23672; ADI-23673; ADI-23664; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26968; ADI-26969; ADI-26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; ADI-26994; and ADI-26995; as provided in Table 2.

[0186] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26910; ADI-26913; ADI-26915; ADI-26919; ADI-26920; ADI-26921; ADI-26943; ADI-26954; ADI-21952; ADI-26955; ADI-26956; ADI-26962; ADI-26978; ADI-26983; and ADI-26994; as provided in Table 2.

[0187] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: ADI-15512; ADI-16513; ADI-15516; ADI-18565; ADI-18589; ADI-18585; ADI-18590; ADI-18576; ADI-20568; ADI-20580; ADI-21978; ADI-22523; ADI-25133; and ADI-26906.

[0188] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: ADI-16606; ADI-29601; ADI-29602; ADI-29603; ADI-20587; ADI-20607; ADI-20590; ADI-21952; ADI-23633; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26961; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26967; ADI-26968; ADI-26969; ADI-26970; ADI-

26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; and ADI-26994.

[0189] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: ADI-32238, ADI-32241, ADI-32244, ADI-32247, ADI-32250, ADI-32253, ADI-32256, ADI-32259, ADI-32239, ADI-32242, ADI-32245, ADI-32248, ADI-32251, ADI-32254, ADI-32257, ADI-32260, ADI-32240, ADI-32243, ADI-32246, ADI-32249, ADI-32252, ADI-32255, ADI-32258, and ADI-32261.

[0190] In certain embodiments, the invention provides an antibody comprising a CD3 binding domain selected from the group consisting of: ADI-29295, ADI-32249, ADI-29298, ADI-29300, and ADI-26915.

[0191] In certain embodiments either alone or in combination with other embodiments of the invention, the inventive CD3 binding domains and antibodies comprising them display a decreased propensity for degradation relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blinicyto®); and Mab 364, Mab366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0192] In certain embodiments either alone or in combination with other embodiments of the invention, the inventive CD3 binding domains and antibodies comprising them display a decreased CRS risk profile relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blinicyto®); and Mab 364, Mab366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

[0193] In certain embodiments and/or in combination with any of the embodiments disclosed herein and throughout, provided are CD3 binding domains and antibodies comprising them that are humanized. In certain embodiments, such CD3 binding domains comprise CDRs of such other embodiments, and further comprise an acceptor human framework, e.g., a human immunoglobulin framework or a human consensus framework.

[0194] In certain embodiments and/or in combination with any of the embodiments disclosed herein and throughout provided are CD3 binding domains and antibodies comprising

them comprising a VH as in any of the embodiments provided herein and throughout, and a VL as in any of the embodiments provided herein and throughout, wherein one or both of the variable domain sequences include post-translational modifications.

[0195] In a further aspect of the invention, provided are CD3 binding domains and antibodies comprising them that bind to the same epitope as a CD3 binding domain provided in the other embodiments disclosed therein and throughout.

[0196] In certain embodiments, CD3 binding domains and/or antibodies comprising them have a CD3 dissociation constant (Kd) of $\leq 1 \mu\text{M}$, $\leq 100 \text{ nM}$, $\leq 10 \text{ nM}$, $\leq 1 \text{ nM}$, $\leq 0.1 \text{ nM}$, $\leq 0.01 \text{ nM}$, or $\leq 0.001 \text{ nM}$ (e.g., 10^{-8} M or less, e.g., from 10^{-8} M to 10^{-13} M , e.g., from 10^{-9} M to 10^{-13} M).

[0197] In certain embodiments, Kd is measured by: biolayer interferometry (BLI), surface plasmon resonance (SPR), solution equilibrium based kinetic exclusion assays, KinExA direct association, assays using FORTEBIO instruments and reagents, such as Octet RED 384 and HTX BLI-based instruments, enzyme-linked immunosorbent assays (ELISA), or radioimmunoassay (RIA). In certain embodiments, the Kd measurement is performed with the Fab version of an inventive CD3 binding domain or antibody comprising it. For example, solution binding affinity of Fabs for antigen is measured by equilibrating Fab with a minimal concentration of (125I)-labeled antigen in the presence of a titration series of unlabeled antigen, then capturing bound antigen with an anti-Fab antibody-coated plate (see, e.g., Chen et al., J. Mol. Biol. 293:865-881 (1999)). To establish conditions for the assay, MICROTITER® multi-well plates (Thermo Scientific) are coated overnight with 5 $\mu\text{g/ml}$ of a capturing anti-Fab antibody (Cappel Labs) in 50 mM sodium carbonate (pH 9.6), and subsequently blocked with 2% (w/v) bovine serum albumin in PBS for two to five hours at room temperature (approximately 23° C). In a non-adsorbent plate (Nunc #269620), 100 pM or 26 pM [125I]-antigen are mixed with serial dilutions of a Fab of interest (e.g., consistent with assessment of the anti-VEGF antibody, Fab-12, in Presta et al., Cancer Res. 57:4593-4599 (1997)). The Fab of interest is then incubated overnight; however, the incubation may continue for a longer period (e.g., about 65 hours) to ensure that equilibrium is reached. Thereafter, the mixtures are transferred to the capture plate for incubation at room temperature (e.g., for one hour). The solution is then removed and the plate washed eight times with 0.1% polysorbate 20 (TWEEN-

20®) in PBS. When the plates have dried, 150 µl/well of scintillant (MICROSCINT-20™; Packard) is added, and the plates are counted on a TOPCOUNT™ gamma counter (Packard) for ten minutes. Concentrations of each Fab that give less than or equal to 20% of maximal binding are chosen for use in competitive binding assays.

[0198] In other embodiments, K_d is measured using a BIACORE® surface plasmon resonance assay. For example, an assay using a BIACORE®-2000 or a BIACORE®-3000 (BIACORE, Inc., Piscataway, N.J.) is performed at 25° C. with immobilized antigen CM5 chips at ~10 response units (RU). In one embodiment, carboxymethylated dextran biosensor chips (CM5, BIACORE, Inc.) are activated with N-ethyl-N'-(3-dimethylaminopropyl)-carbodiimide hydrochloride (EDC) and N-hydroxysuccinimide (NHS) according to the supplier's instructions. Antigen is diluted with 10 mM sodium acetate, pH 4.8, to 5 µg/ml (~0.2 µM) before injection at a flow rate of 5 µl/minute to achieve approximately 10 response units (RU) of coupled protein. Following the injection of antigen, 1 M ethanolamine is injected to block unreacted groups. For kinetics measurements, two-fold serial dilutions of Fab (0.78 nM to 500 nM) are injected in PBS with 0.05% polysorbate 20 (TWEEN-20™) surfactant (PBST) at 25° C. at a flow rate of approximately 25 µl/min. Association rates (k_{on}) and dissociation rates (K_o) are calculated using a simple one-to-one Langmuir binding model (BIACORE® Evaluation Software version 3.2) by simultaneously fitting the association and dissociation sensorgrams. The equilibrium dissociation constant (K_d) is calculated as the ratio k_{on}/k_{off}. See, for example, Chen et al., J. Mol. Biol. 293:865-881 (1999). If the on-rate exceeds 10⁶ M⁻¹s⁻¹ by the surface plasmon resonance assay above, then the on-rate can be determined by using a fluorescent quenching technique that measures the increase or decrease in fluorescence emission intensity (excitation=295 nm; emission=340 nm, 16 nm band-pass) at 25° C of a 20 nM anti-antigen antibody (Fab form) in PBS, pH 7.2, in the presence of increasing concentrations of antigen as measured in a spectrometer, such as a stop-flow equipped spectrophotometer (Aviv Instruments) or a 8000-series SLM-AMINC spectrophotometer (THERMOSPECTRONIC) with a stirred cuvette.

[0199] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise an antibody fragment. Antibody fragments include, but are not limited to, Fab, Fab', Fab'-SH, F(ab')₂, Fv, and scFv fragments, and other fragments described herein and throughout. For a review of certain antibody fragments, see, e.g., Hudson et al. Nat.

Med. 9:129-134 (2003). For a review of scFv fragments, see, e.g., Pluckthün, in *The Pharmacology of Monoclonal Antibodies*, vol. 113, Rosenberg and Moore eds., (Springer-Verlag, New York), pp. 269-315 (1994); see also WO 93/16185; and U.S. Pat. Nos. 5,571,894 and 5,587,458. For discussion of Fab and F(ab')₂ fragments comprising salvage receptor binding epitope residues and having increased in vivo half-life, see U.S. Pat. No. 5,869,046.

[0200] Diabodies are antibody fragments with two antigen-binding sites that may be bivalent or bispecific. See, for example, EP 404,097; WO 1993/01161; Hudson et al. *Nat. Med.* 9:129-134 (2003); and Hollinger et al. *Proc. Natl. Acad. Sci. USA* 90: 6444-6448 (1993). Triabodies and tetrabodies are also described in Hudson et al. *Nat. Med.* 9:129-134 (2003).

[0201] Single-domain antibodies are antibody fragments comprising all or a portion of the heavy chain variable domain or all or a portion of the light chain variable domain of an antibody. In certain embodiments, a single-domain antibody is a human single-domain antibody (Domantis, Inc., Waltham, Mass.; see, e.g., U.S. Pat. No. 6,248,516 B1).

[0202] Antibody fragments can be made by various techniques, including but not limited to proteolytic digestion of an intact antibody as well as production by recombinant host cells (e.g. *E. coli* or phage), as described herein.

[0203] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a chimeric antibody. Certain chimeric antibodies are described, e.g., in U.S. Pat. No. 4,816,567; and Morrison et al. *Proc. Natl. Acad. Sci. USA*, 81:6851-6855 (1984). In one example, a chimeric antibody comprises a non-human variable region (e.g., a variable region derived from a mouse, rat, hamster, rabbit, or non-human primate, such as a monkey) and a human constant region. In a further example, a chimeric antibody is a “class switched” antibody in which the class or subclass has been changed from that of the parent antibody. Chimeric antibodies include antigen-binding fragments thereof.

[0204] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a chimeric antibody that is a humanized antibody. Typically, a non-human antibody is humanized to reduce immunogenicity to humans, while retaining the specificity and affinity of the parental non-human antibody. Generally, a humanized antibody comprises one or more variable domains in which CDRs (or portions thereof) are derived from a

non-human antibody, and FRs (or portions thereof) are derived from human antibody sequences. A humanized antibody optionally will also comprise at least a portion of a human constant region. In some embodiments, some FR residues in a humanized antibody are substituted with corresponding residues from a non-human antibody (e.g., the antibody from which the CDR residues are derived), e.g., to restore or improve antibody specificity, affinity, lack or immunogenicity, stability, developability profile, CRS risk, and the like.

[0205] Humanized antibodies and methods of making them are reviewed, e.g., in Almagro and Fransson, *Front. Biosci.* 13:1619-1633 (2008), and are further described, e.g., in Riechmann et al., *Nature* 332:323-329 (1988); Queen et al., *Proc. Nat'l Acad. Sci. USA* 86:10029-10033 (1989); U.S. Pat. Nos. 5,821,337, 7,527,791, 6,982,321, and 7,087,409; Kashmiri et al., *Methods* 36:25-34 (2005) (describing specificity determining region (SDR) grafting); Padlan, *Mol. Immunol.* 28:489-498 (1991) (describing "resurfacing"); Dall'Acqua et al., *Methods* 36:43-60 (2005) (describing "FR shuffling"); and Osbourn et al., *Methods* 36:61-68 (2005) and Klimka et al., *Br. J. Cancer*, 83:252-260 (2000) (describing the "guided selection" approach to FR shuffling).

[0206] Human framework regions that may be used for humanization include but are not limited to: framework regions selected using the "best-fit" method (see, e.g., Sims et al. *J. Immunol.* 151:2296 (1993)); framework regions derived from the consensus sequence of human antibodies of a particular subgroup of light or heavy chain variable regions (see, e.g., Carter et al. *Proc. Natl. Acad. Sci. USA*, 89:4285 (1992); and Presta et al. *J. Immunol.*, 151:2623 (1993)); human mature (somatically mutated) framework regions or human germline framework regions (see, e.g., Almagro and Fransson, *Front. Biosci.* 13:1619-1633 (2008)); and framework regions derived from screening FR libraries (see, e.g., Baca et al., *J. Biol. Chem.* 272:10678-10684 (1997) and Rosok et al., *J. Biol. Chem.* 271:22611-22618 (1996)).

[0207] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a human antibody. Human antibodies can be produced using various techniques known in the art. Human antibodies are described generally in van Dijk and van de Winkel, *Curr. Opin. Pharmacol.* 5: 368-74 (2001) and Lonberg, *Curr. Opin. Immunol.* 20:450-459 (2008).

[0208] Human antibodies may be prepared by administering an immunogen to a transgenic animal that has been modified to produce intact human antibodies or intact antibodies with human variable regions in response to antigenic challenge. Such animals typically contain all or a portion of the human immunoglobulin loci, which replace the endogenous immunoglobulin loci, or which are present extrachromosomally or integrated randomly into the animal's chromosomes. In such transgenic mice, the endogenous immunoglobulin loci have generally been inactivated. For review of methods for obtaining human antibodies from transgenic animals, see Lonberg, *Nat. Biotech.* 23:1117-1125 (2005). See also, e.g., U.S. Pat. Nos. 6,075,181 and 6,150,584 describing XENOMOUSE technology; U.S. Pat. No. 5,770,429 describing HUMAB® technology; U.S. Pat. No. 7,041,870 describing K-M MOUSE® technology, and U.S. Patent Application Publication No. US 2007/0061900, describing VELOCIMOUSE® technology). Human variable regions from intact antibodies generated by such animals may be further modified, e.g., by combining with a different human constant region.

[0209] Human antibodies can also be made by hybridoma-based methods. Human myeloma and mouse-human heteromyeloma cell lines for the production of human monoclonal antibodies have been described. (See, e.g., Kozbor *J. Immunol.*, 133: 3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63 (Marcel Dekker, Inc., New York, 1987); and Boerner et al., *J. Immunol.*, 147: 86 (1991).) Human antibodies generated via human B-cell hybridoma technology are also described in Li et al., *Proc. Natl. Acad. Sci. LISA.* 103; 3557-3562 (2006). Additional methods include those described, for example, in U.S. Pat. No. 7,189,826 (describing production of monoclonal human IgM antibodies from hybridoma cell lines) and Ni, *Xiandai Mianyixue*, 26(4):265-268 (2006) (describing human-human hybridomas). Human hybridoma technology (Trioma technology) is also described in Vollmers and Brandlein, *Histology and Histopathology*, 20(3):927-937 (2005) and Vollmers and Brandlein, *Methods and Findings in Experimental and Clinical Pharmacology*, 27(3):185-91 (2005).

[0210] Human antibodies may also be generated by isolating Fv clone variable domain sequences selected from human-derived phage display libraries. Such variable domain sequences

may then be combined with a desired human constant domain. Techniques for selecting human antibodies from antibody libraries are described herein and throughout.

[0211] Antibodies of the invention may be isolated by screening combinatorial libraries for antibodies with the desired activity or activities. For example, a variety of methods are known in the art for generating phage display libraries and screening such libraries for antibodies possessing the desired binding characteristics. Such methods are reviewed, e.g., in Hoogenboom et al. in *Methods in Molecular Biology* 178:1-37 (O'Brien et al., ed., Human Press, Totowa, N.J., 2001) and further described, e.g., in the McCafferty et al., *Nature* 348:552-554; Clackson et al., *Nature* 352: 624-628 (1991); Marks et al., *J. Mol. Biol.* 222: 581-597 (1992); Marks and Bradbury, in *Methods in Molecular Biology* 248:161-175 (Lo, ed., Human Press, Totowa, N.J., 2003); Sidhu et al., *J. Mol. Biol.* 338(2): 299-310 (2004); Lee et al., *J. Mol. Biol.* 340(5): 1073-1093 (2004); Fellouse, *Proc. Natl. Acad. Sci. USA* 101(34): 12467-12472 (2004); and Lee et al., *J. Immunol. Methods* 284(1-2): 119-132(2004).

[0212] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be selected from yeast-based antibody libraries, such as those disclosed in, e.g., WO 2009/0363379; WO 2010/105256; and WO 2012/009568. In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be optimized (also known as "affinity matured") as disclosed herein and throughout as well as in WO 2009/0363379; WO 2010/105256; and WO 2012/009568 and via other techniques available in the art.

[0213] In certain phage display methods, repertoires of VH and VL genes are separately cloned by polymerase chain reaction (PCR) and recombined randomly in phage libraries, which can then be screened for antigen-binding phage as described in Winter et al., *Ann. Rev. Immunol.*, 12: 433-455 (1994). Phage typically display antibody fragments, either as single-chain Fv (scFv) fragments or as Fab fragments. Libraries from immunized sources provide high-affinity antibodies to the immunogen without the requirement of constructing hybridomas. Alternatively, the naive repertoire can be cloned (e.g., from human) to provide a single source of antibodies to a wide range of non-self and also self antigens without any immunization as described by Griffiths et al., *EMBO J*, 12: 725-734 (1993). Finally, naive libraries can also be made synthetically by cloning unrearranged V-gene segments from stem cells and using PCR primers containing random sequence to encode the highly variable CDR3 regions and to

accomplish rearrangement in vitro, as described by Hoogenboom and Winter, *J. Mol. Biol.*, 227: 381-388 (1992). Patent publications describing human antibody phage libraries include, for example: U.S. Pat. No. 5,750,373, and US Patent Publication Nos. 2005/0079574, 2005/0119455, 2005/0266000, 2007/0117126, 2007/0160598, 2007/0237764, 2007/0292936, and 2009/0002360.

[0214] Antibodies or antibody fragments isolated from human antibody libraries are considered human antibodies or human antibody fragments herein.

[0215] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody. Multispecific antibodies are monoclonal antibodies that have binding specificities for at least two different antigens, or at least two different epitopes present on the same antigen. In certain embodiments, bispecific antibodies may bind to two different epitopes of CD3 (e.g., CD3 ϵ or CD3 γ). In certain embodiments, one of the binding specificities is for CD3 (e.g., CD3 ϵ or CD3 γ) and the other is for any other antigen (e.g., a second biological molecule, e.g., a cell surface antigen, e.g., a tumor antigen). Accordingly, a bispecific anti-CD3 antibody may have binding specificities for CD3 and a second biological molecule, such as a second biological molecule (e.g., a tumor antigen) listed in Table 1 and described in U.S. Pub. No. 2010/0111856. In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody wherein the multispecific antibody comprises a second binding domain having specificity for a second antigen, such as: a human leukocyte antigen (HLA)-peptide complex presented on the cell surface by MHC.

[0216] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody wherein the multispecific antibody comprises a second binding domain having specificity for a second antigen selected from the group consisting of: 0772P (CA125, MUC16; Genbank accession no. AF36148); adipophilin (perilipin-2, Adipose differentiation-related protein, ADRP, ADFP, MGC10598; NCBI Reference Sequence: NP—001113.2); AIM-2 (Absent In Melanoma 2, PYHIN4, Interferon-Inducible Protein AIM2; NCBI Reference Sequence: NP—004824.1); ALDH1 A1 (Aldehyde Dehydrogenase 1 Family, Member A1, ALDH1, PUMB1, Retinaldehyde Dehydrogenase 1, ALDC, ALDH-E1, ALHDII, RALDH 1, EC 1.2.1.36, ALDH11, HEL-9,

HEL-S-53e, HEL12, RALDH1, Acetaldehyde Dehydrogenase 1, Aldehyde Dehydrogenase 1, Soluble, Aldehyde Dehydrogenase, Liver Cytosolic, ALDH Class 1, Epididymis Luminal Protein 12, Epididymis Luminal Protein 9, Epididymis Secretory Sperm Binding Protein Li 53e, Retinal Dehydrogenase 1, RaIDH1, Aldehyde Dehydrogenase Family 1 Member A1, Aldehyde Dehydrogenase, Cytosolic, EC 1.2.1; NCBI Reference Sequence: NP—000680.2); alpha-actinin-4 (ACTN4, Actinin, Alpha 4, FSGS1, Focal Segmental Glomerulosclerosis 1, Non-Muscle Alpha-Actinin 4, F-Actin Cross-Linking Protein, FSGS, ACTININ-4, Actinin Alpha4 Isoform, alpha-actinin-4; NCBI Reference Sequence: NP—004915.2); alpha-fetoprotein (AFP, HPAFP, FETA, alpha-1-fetoprotein, alpha-fetoglobulin, Alpha-1-fetoprotein, Alpha-fetoglobulin, HP; GenBank: AAB58754.1); Amphiregulin (AREG, SDGF, Schwannoma-Derived Growth Factor, Colorectum Cell-Derived Growth Factor, AR, CRDGF; GenBank: AAA51781.1); ARTC1 (ART1, ADP-Ribosyltransferase 1, Mono(ADP-Ribosyl)Transferase 1, ADP-Ribosyltransferase C2 And C3 Toxin-Like 1, ART2, CD296, RT6, ADP-Ribosyltransferase 2, GPI-Linked NAD(P)(+)-Arginine ADP-Ribosyltransferase 1, EC 2.4.2.31, CD296 Antigen; NP); ASLG659; ASPHD1 (Aspartate Beta-Hydroxylase Domain Containing 1, Aspartate Beta-Hydroxylase Domain-Containing Protein 1, EC 1.14.11.-, EC 1.14.11; GenBank: AAI44153.1); B7-H4 (VTCN1, V-Set Domain Containing T Cell Activation Inhibitor 1, B7H4, B7 Superfamily Member 1, Immune Costimulatory Protein B7-H4, B7h.5, T-Cell Costimulatory Molecule B7x, B7S1, B7X, VCTN1, H4, B7 Family Member, PRO1291, B7 Family Member, H4, T Cell Costimulatory Molecule B7x, V-Set Domain-Containing T-Cell Activation Inhibitor 1, Protein B7S1; GenBank: AAZ17406.1); BAFF-R (TNFRSF13C, Tumor Necrosis Factor Receptor Superfamily, Member 13C, BAFFR, B-Cell-Activating Factor Receptor, BAFF Receptor, BLyS Receptor 3, CVID4, BROMIX, CD268, B Cell-Activating Factor Receptor, prolixin, Tumor Necrosis Factor Receptor Superfamily Member 13C, BR3, CD268 Antigen; NCBI Reference Sequence: NP—443177.1); BAGE-1; BCLX (L); BCR-ABL fusion protein (b3a2); beta-catenin (CTNNB1, Catenin (Cadherin-Associated Protein), Beta 1, 88 kDa, CTNNB, MRD19, Catenin (Cadherin-Associated Protein), Beta 1 (88kD), armadillo, Catenin Beta-1; GenBank: CAA61107.1); BING-4 (WDR46, WD Repeat Domain 46, C6orf11, BING4, WD Repeat-Containing Protein BING4, Chromosome 6 Open Reading Frame 11, FP221, UTP7, WD Repeat-Containing Protein 46; NP); BMPRI B (bone morphogenetic protein receptor-type IB, Genbank accession no. NM—00120; NP); B-RAF (Brevican (BCAN, BEHAB, Genbank accession no.

AF22905); Brevican (BCAN, Chondroitin Sulfate Proteoglycan 7, Brain-Enriched Hyaluronan-Binding Protein, BEHAB, CSPG7, Brevican Proteoglycan, Brevican Core Protein, Chondroitin Sulfate Proteoglycan BEHAB; GenBank: AAH27971.1); CALCA (Calcitonin-Related Polypeptide Alpha, CALC1, Calcitonin 1, calcitonin, Alpha-Type CGRP, Calcitonin Gene-Related Peptide I, CGRP-I, CGRP, CGRP1, CT, KC, Calcitonin/Calcitonin-Related Polypeptide, Alpha, katacalcin; NP); CASP-5 (CASP5, Caspase 5, Apoptosis-Related Cysteine Peptidase, Caspase 5, Apoptosis-Related Cysteine Protease, Protease ICH-3, Protease TY, ICE(rel)-111, ICE(rel)III, ICEREL-III, ICH-3, caspase-5, TY Protease, EC 3.4.22.58, ICH3, EC 3.4.22; NP); CASP-8; CD19 (CD19-B-lymphocyte antigen CD19 isoform 2 precursor, B4, CVID3 [Homo sapiens], NCBI Reference Sequence: NP—001761.3); CD20 (CD20-B-lymphocyte antigen CD20, membrane-spanning 4-domains, subfamily A, member 1, B1,Bp35,CD20,CVID5,LEU-16,MS4A2,S7; NCBI Reference Sequence: NP—690605.1); CD21 (CD21 (CR2 (Complement receptor or C3DR (C3d/Epstein Barr virus receptor) or Hs.73792 Genbank accession no. M2600); (CD22 (B-cell receptor CD22-B isoform, BL-CAM, Lyb-8, LybB, SIGLEC-2, FLJ22814, Genbank accession No. AK02646); CD22; CD33 (CD33 Molecule, CD33 Antigen (Gp67), Sialic Acid Binding Ig-Like Lectin 3, Sialic Acid-Binding Ig-Like Lectin 3, SIGLEC3, gp67, SIGLEC-3, Myeloid Cell Surface Antigen CD33, p67, Siglec-3, CD33 Antigen; GenBank: AAH28152.1); CD45; CD70 (CD70-tumor necrosis factor (ligand) superfamily, member 7; surface antigen CD70; Ki-24 antigen; CD27 ligand; CD27-L; tumor necrosis factor ligand superfamily member 7; NCBI Reference Sequence for species homo sapiens: NP—001243.1); CD72 (CD72 (B-cell differentiation antigen CD72, Lyb-; 359 aa, μ l: 8.66, MW: 40225, TM: 1 [P] Gene Chromosome: 9p13.3, Genbank accession No. NP—001773.); CD79a (CD79a (CD79A, CD79a, immunoglobulin-associated alpha, a B cell-specific protein that covalently interacts with Ig beta (CD79B) and forms a complex on the surface with Ig M molecules, transduces a signal involved in B-cell differentiation), μ l: 4.84, MW: 25028 TM: 2 [P] Gene Chromosome: 19q13.2, Genbank accession No. NP—001774.1); CD79b (CD79b (CD79B, CD79b, Igb (immunoglobulin-associated beta), B29, Genbank accession no. NM—000626 or 1103867); Cdc27 (Cell Division Cycle 27, D0S1430E, D17S978E, Anaphase Promoting Complex Subunit 3, Anaphase-Promoting Complex Subunit 3, ANAPC3, APC3, CDC27Hs, H-NUC, CDC27 Homolog, Cell Division Cycle 27 Homolog (S. Cerevisiae), HNUC, NUC2, Anaphase-Promoting Complex, Protein 3, Cell Division Cycle 27 Homolog, Cell Division Cycle

Protein 27 Homolog, Nuc2 Homolog; GenBank: AAH11656.1); CDK4 (Cyclin-Dependent Kinase 4, Cell Division Protein Kinase 4, PSK-J3, EC 2.7.11.22, CMM3, EC 2.7.11; NCBI Reference Sequence: NP—000066.1); CDKN2A (Cyclin-Dependent Kinase Inhibitor 2A, MLM, CDKN2, MTS1, Cyclin-Dependent Kinase Inhibitor 2A (Melanoma, P16, Inhibits CDK4), Cyclin-Dependent Kinase 4 Inhibitor A, Multiple Tumor Suppressor 1, CDK4I, MTS-1, CMM2, P16, ARF, INK4, INK4A, P14, P14ARF, P16-INK4A, P16INK4, P16INK4A, P19, P19ARF, TP16, CDK4 Inhibitor P16-INK4, Cell Cycle Negative Regulator Beta, p14ARF, p16-INK4, p16-INK4a, p16INK4A, p19ARF; NP); CEA; CLL1 (CLL-1 (CLEC12A, MICL, and DCAL, encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signaling, glycoprotein turnover, and roles in inflammation and immune response. The protein encoded by this gene is a negative regulator of granulocyte and monocyte function. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. This gene is closely linked to other CTL/CTLD superfamily members in the natural killer gene complex region on chromosome 12p13 (Drickamer K *Curr. Opin. Struct. Biol.* 9):585-90; van Rhenen A, et al., *Blood* 110):2659-66; Chen C H, et al. *Blood* 107):1459-67; Marshall A S, et al. *Eur. J. Immunol.* 36):2159-69; Bakker A B, et al *Cancer Res.* 64:8443-50; Marshall A S, et al *J. Biol. Chem.* 279:14792-80. CLL-1 has been shown to be a type II transmembrane receptor comprising a single C-type lectin-like domain (which is not predicted to bind either calcium or sugar), a stalk region, a transmembrane domain and a short cytoplasmic tail containing an ITIM motif.); CLPP (Caseinolytic Mitochondrial Matrix Peptidase Proteolytic Subunit, Endopeptidase Clp, EC 3.4.21.92, PRLTS3, ATP-Dependent Protease ClpAP (E. Coli), ClpP (Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit, E. Coli) Homolog, ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog (E. Coli), ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog (E. Coli), human, Proteolytic Subunit, ATP-Dependent Protease ClpAP, Proteolytic Subunit, Human, ClpP Caseinolytic Peptidase ATP-Dependent, Proteolytic Subunit, ClpP Caseinolytic Peptidase, ATP-Dependent, Proteolytic Subunit Homolog, ClpP Caseinolytic Protease, ATP-Dependent, Proteolytic Subunit Homolog, Putative ATP-Dependent Clp Protease Proteolytic Subunit, Mitochondrial; NP); COA-1; CPSF; CRIPTO (CRIPTO (CR, CR1, CRGF, CRIPTO, TDGF1, teratocarcinoma-derived growth factor, Genbank

accession no. NP—003203 or NM—00321); Cw6; CXCR5 CXCR5 (Burkitt's lymphoma receptor 1, a G protein-coupled receptor that is activated by the CXCL13 chemokine, functions in lymphocyte migration and humoral defense, plays a role in HIV-2 infection and perhaps development of AIDS, lymphoma, myeloma, and leukemia); 372 aa, μ : 8.54 MW: 41959 TM: 7 [P] Gene Chromosome: 11q23.3, Genbank accession No. NP—001707.); CXORF61 CXORF61—chromosome X open reading frame 61[Homo sapiens], NCBI Reference Sequence: NP—001017978.1); cyclin D1 (CCND1, BCL1, PRAD1, D11S287E, B-Cell CLL/Lymphoma 1, B-Cell Lymphoma 1 Protein, BCL-1 Oncogene, PRAD1 Oncogene, Cyclin D1 (PRAD1: Parathyroid Adenomatosis 1), G1/S-Specific Cyclin D1, Parathyroid Adenomatosis 1, U21B31, G1/S-Specific Cyclin-D1, BCL-1; NCBI Reference Sequence: NP—444284.1); Cyclin-A1 (CCNA1, CT146, Cyclin A1; GenBank: AAH36346.1); dek-can fusion protein; DKK1 (Dickkopf WNT Signaling Pathway Inhibitor 1, SK, hDkk-1, Dickkopf (Xenopus Laevis) Homolog 1, Dickkopf 1 Homolog (Xenopus Laevis), DKK-1, Dickkopf 1 Homolog, Dickkopf Related Protein-1, Dickkopf-1 Like, Dickkopf-Like Protein 1, Dickkopf-Related Protein 1, Dickkopf-1, Dkk-1; GenBank: AAQ89364.1); DR1 (Down-Regulator Of Transcription 1, TBP-Binding (Negative Cofactor 2), Negative Cofactor 2-Beta, TATA-Binding Protein-Associated Phosphoprotein, NC2, NC2-BETA, Protein Dr1, NC2-beta, Down-Regulator Of Transcription 1; NCBI Reference Sequence: NP—001929.1); DR13 (Major Histocompatibility Complex, Class II, DR Beta 1, HLA-DR1B, DRw10, DW2.2/DR2.2, SS1, DRB1, HLA-DRB, HLA Class II Histocompatibility Antigen, DR-1 Beta Chain, Human Leucocyte Antigen DRB1, Lymphocyte Antigen DRB1, MHC Class II Antigen, MHC Class II HLA-DR Beta 1 Chain, MHC Class II HLA-DR-Beta Cell Surface Glycoprotein, MHC Class II HLA-DRw10-Beta, DR-1, DR-12, DR-13, DR-14, DR-16, DR-4, DR-5, DR-7, DR-8, DR-9, DR1, DR12, DR13, DR14, DR16, DR4, DR5, DR7, DRB, DR9, DRw11, DRw8, HLA-DRB2, Clone P2-Beta-3, MHC Class II Antigen DRB1*1, MHC Class II Antigen DRB1*10, MHC Class II Antigen DRB1*11, MHC Class II Antigen DRB1*12, MHC Class II Antigen DRB1*13, MHC Class II Antigen DRB1*14, MHC Class II Antigen DRB1*15, MHC Class II Antigen DRB1*16, MHC Class II Antigen DRB1*3, MHC Class II Antigen DRB1*4, MHC Class II Antigen DRB1*7, MHC Class II Antigen DRB1*8, MHC Class II Antigen DRB1*9; NP); E16 (E16 (LAT1, SLC7A5, Genbank accession no. NM—00348); EDAR (EDAR— tumor necrosis factor receptor superfamily member EDAR precursor, EDA-A1 receptor; downless homolog; ectodysplasin-A receptor; ectodermal dysplasia

receptor; anhidrotic ectodysplasin receptor 1, DL; ECTD10A; ECTD10B; ED1R; ED3; ED5; EDA-A1R; EDA1R; EDA3; HRM1 [Homo sapiens]; NCBI Reference Sequence: NP—071731.1); EFTUD2 (Elongation Factor Tu GTP Binding Domain Containing 2, Elongation Factor Tu GTP-Binding Domain-Containing Protein 2, hSNU114, SNU114 Homolog, U5 SnRNP-Specific Protein, 116 KDa, MFDGA, KIAA0031, 116 KD, U5 SnRNP Specific Protein, 116 KDa U5 Small Nuclear Ribonucleoprotein Component, MFDM, SNRNP116, Snrp116, Snu114, U5-116KD, SNRNP116, U5-116 KDa; GenBank: AAH02360.1); EGFR (Epidermal Growth Factor Receptor, ERBB, Proto-Oncogene C-ErbB-1, Receptor Tyrosine-Protein Kinase ErbB-1, ERBB1, HER1, EC 2.7.10.1, Epidermal Growth Factor Receptor (Avian Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog), Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog (Avian), PIG61, Avian Erythroblastic Leukemia Viral (V-Erb-B) Oncogene Homolog, Cell Growth Inhibiting Protein 40, Cell Proliferation-Inducing Protein 61, mENA, EC 2.7.10; GenBank: AAH94761.1); EGFR-G719A; EGFR-G719C; EGFR-G719S; EGFR-L858R; EGFR-L861 Q; EGFR-57681; EGFR-T790M; Elongation factor 2 (EEF2, Eukaryotic Translation Elongation Factor 2, EF2, Polypeptidyl-TRNA Translocase, EF-2, SCA26, EEF-2; NCBI Reference Sequence: NP—001952.1); ENAH (hMena) (Enabled Homolog (Drosophila), MENA, Mammalian Enabled, ENA, NDPP1, Protein Enabled Homolog; GenBank: AAH95481.1)—results for just “ENAH” not “ENAH (hMena)”; EpCAM (Epithelial Cell Adhesion Molecule, M4S1, MIC18, Tumor-Associated Calcium Signal Transducer 1, TACSTD1, TROP1, Adenocarcinoma-Associated Antigen, Cell Surface Glycoprotein Trop-1, Epithelial Glycoprotein 314, Major Gastrointestinal Tumor-Associated Protein GA733-2, EGP314, KSA, DIAR5, HNPCC8, Antigen Identified By Monoclonal Antibody AUA1, EGP-2, EGP40, ESA, KS1/4, MK-1, Human Epithelial Glycoprotein-2, Membrane Component, Chromosome 4, Surface Marker (35kD Glycoprotein), EGP, Ep-CAM, GA733-2, M1S2, CD326 Antigen, Epithelial Cell Surface Antigen, hEGP314, KS 1/4 Antigen, ACSTD1; GenBank: AAH14785.1); EphA3 (EPH Receptor A3, ETK1, ETK, TYRO4, HEK, Eph-Like Tyrosine Kinase 1, Tyrosine-Protein Kinase Receptor ETK1, EK4, EPH-Like Kinase 4, EC 2.7.10.1, EPHA3, HEK4, Ephrin Type-A Receptor 3, Human Embryo Kinase 1, TYRO4 Protein Tyrosine Kinase, hEK4, Human Embryo Kinase, Tyrosine-Protein Kinase TYRO4, EC 2.7.10; GenBank: AAH63282.1); EphB2R; Epiregulin (EREG, ER, proepiregulin; GenBank: AAI36405.1); ETBR (EDNRB, Endothelin Receptor Type B, HSCR2, HSCR, Endothelin Receptor Non-Selective

Type, ET-B, ET-BR, ETRB, ABCDS, WS4A, ETB, Endothelin B Receptor; NP); ETV6-AML1 fusion protein; EZH2 (Enhancer Of Zeste Homolog 2 (Drosophila), Lysine N-Methyltransferase 6, ENX-1, KMT6 EC 2.1.1.43, EZH1, WVS, Enhancer Of Zeste (Drosophila) Homolog 2, ENX1, EZH2b, KMT6A, WVS2, Histone-Lysine N-Methyltransferase EZH2, Enhancer Of Zeste Homolog 2, EC 2.1.1; GenBank: AAH10858.1); FcRH1 (FCRL1, Fc Receptor-Like 1, FCRH1, Fc Receptor Homolog 1, FcR-Like Protein 1, Immune Receptor Translocation-Associated Protein 5, IFGP1, IRTA5, hIFGP1, IFGP Family Protein 1, CD307a, Fc Receptor-Like Protein 1, Immunoglobulin Superfamily Fc Receptor, Gp42, FcRL1, CD307a Antigen; GenBank: AAH33690.1); FcRH2 (FCRL2, Fc Receptor-Like 2, SPAP1, SH2 Domain-Containing Phosphatase Anchor Protein 1, Fc Receptor Homolog 2, FcR-Like Protein 2, Immunoglobulin Receptor Translocation-Associated Protein 4, FCRH2, IFGP4, IRTA4, IFGP Family Protein 4, SPAP1A, SPAP1 B, SPAP1C, CD307b, Fc Receptor-Like Protein 2, Immune Receptor Translocation-Associated Protein 4, Immunoglobulin Superfamily Fc Receptor, Gp42, SH2 Domain Containing Phosphatase Anchor Protein 1, FcRL2, CD307b Antigen; GenBank: AAQ88497.1); FcRH5 (FCRL5, Fc Receptor-Like 5, IRTA2, Fc Receptor Homolog 5, FcR-Like Protein 5, Immune Receptor Translocation-Associated Protein 2, BXMAS1, FCRH5, CD307, CD307e, PRO820, Fc Receptor-Like Protein 5, Immunoglobulin Superfamily Receptor Translocation Associated 2 (IRTA2), FCRL5, CD307e Antigen; GenBank: AAI01070.1); FLT3-ITD; FN1 (Fibronectin 1, Cold-Insoluble Globulin, FN, Migration-Stimulating Factor, CIG, FNZ, GFND2, LETS, ED-B, FINC, GFND, MSF, fibronectin; GenBank: AAI43764.1); G250 (MN, CAIX, Carbonic Anhydrase IX, Carbonic Dehydratase, RCC-Associated Protein G250, Carbonate Dehydratase IX, Membrane Antigen MN, Renal Cell Carcinoma-Associated Antigen G250, CA-IX, P54/58N, pMW1, RCC-Associated Antigen G250, Carbonic Anhydrase 9; NP);— alias results for “G250” not “G250/MN/CAIX”; GAGE-1,2,8; GAGE-3,4,5,6,7; GDNF-Ra1 (GDNF family receptor alpha 1; GFRA1; GDNFR; GDNFRA; RETL1; TRNR1; RET1 L; GDNFR-alpha1; GFR-ALPHA-; U95847; BC014962; NM—145793 NM—005264); GEDA (Genbank accession No. AY26076); GFRA1—GDNF family receptor alpha-1; GDNF receptor alpha-1; GDNFR-alpha-1; GFR-alpha-1; RET ligand 1; TGF-beta-related neurotrophic factor receptor 1 [Homo sapiens]; ProtKB/Swiss-Prot: P56159.2; glypican-3 (GPC3, Glypican 3, SDYS, Glypican Proteoglycan 3, Intestinal Protein OCI-5, GTR2-2, MXR7, SGBS1, DG SX, OCI-5. SGB, SGBS, Heparan Sulphate Proteoglycan, Secreted Glypican-3, OCI5; GenBank:

AAH35972.1); GnTVf; gp100 (PMEL, Premelanosome Protein, SILV, D12S53E, PMEL17, SIL, Melanocyte Protein Pmel 17, Melanocytes Lineage-Specific Antigen GP100, Melanoma-Associated ME20 Antigen, Silver Locus Protein Homolog, ME20-M, ME20M, P1, P100, Silver (Mouse Homolog) Like, Silver Homolog (Mouse), ME20, SI, Melanocyte Protein Mel 17, Melanocyte Protein PMEL, Melanosomal Matrix Protein17, Silver, Mouse, Homolog Of; GenBank: AAC60634.1); GPC; GPNMB (Glycoprotein (Transmembrane) Nmb, Glycoprotein NMB, Glycoprotein Nmb-Like Protein, osteoactivin, Transmembrane Glycoprotein HGFIN, HGFIN, NMB, Transmembrane Glycoprotein, Transmembrane Glycoprotein NMB; GenBank: AAH32783.1); GPR172A (G protein-coupled receptor 172A; GPCR41; FLJ11856; D15Ert747e); NP—078807.1; NM—024531.3); GPR19 (G protein-coupled receptor 19; Mm.478; NP—006134.1; NM—006143.2); GPR54 (KISS1 receptor; KISS1R; GPR54; HOT7T175; AXOR1; NP—115940.2; NM—032551.4); HAVCR1 (Hepatitis A Virus Cellular Receptor 1, T-Cell Immunoglobulin Mucin Family Member 1, Kidney Injury Molecule 1, KIM-1, KIM1, TIM, TIM-1, TIM1, TIMD-1, TIMD1, T-Cell Immunoglobulin Mucin Receptor 1, T-Cell Membrane Protein 1, HAVCR, HAVCR-1, T Cell Immunoglobulin Domain And Mucin Domain Protein 1, HAVcr-1, T-Cell Immunoglobulin And Mucin Domain-Containing Protein 1; GenBank: AAH13325.1); HER2 (ERBB2, V-Erb-B2 Avian Erythroblastic Leukemia Viral Oncogene Homolog 2, NGL, NEU, Neuro/Glioblastoma Derived Oncogene Homolog, Metastatic Lymph Node Gene 19 Protein, Proto-Oncogene C-ErbB-2, Proto-Oncogene Neu, Tyrosine Kinase-Type Cell Surface Receptor HER2, MLN 19, p185erbB2, EC 2.7.10.1, V-Erb-B2 Avian Erythroblastic Leukemia Viral Oncogene Homolog 2 (Neuro/Glioblastoma Derived Oncogene Homolog), CD340, HER-2, HER-2/neu, TKR1, C-Erb B2/Neu Protein, herstatin, Neuroblastoma/Glioblastoma Derived Oncogene Homolog, Receptor Tyrosine-Protein Kinase ErbB-2, V-Erb-B2 Erythroblastic Leukemia Viral Oncogene Homolog 2, Neuro/Glioblastoma Derived Oncogene Homolog, MLN19, CD340 Antigen, EC 2.7.10; NP); HER-2/neu—alias of above; HERV-K-MEL; HLA-DOB (Beta subunit of MHC class II molecule (Ia antigen) that binds peptides and presents them to CD4+ T lymphocytes); 273 aa, pI: 6.56, MW: 30820.TM: 1 [P] Gene Chromosome: 6p21.3, Genbank accession No. NP—002111); hsp70-2 (HSPA2, Heat Shock 70 kDa Protein 2, Heat Shock 70kD Protein 2, HSP70-3, Heat Shock-Related 70 KDa Protein 2, Heat Shock 70 KDa Protein 2; GenBank: AAD21815.1); IDO1 (Indoleamine 2,3-Dioxygenase 1, IDO, INDO, Indoleamine-Pyrrole 2,3-Dioxygenase, IDO-1, Indoleamine-Pyrrole

2,3 Dioxygenase, Indolamine 2,3 Dioxygenase, Indole 2,3 Dioxygenase, EC 1.13.11.52; NCBI Reference Sequence: NP—002155.1); IGF2B3; IL13Ralpha2 (IL13RA2, Interleukin 13 Receptor, Alpha 2, Cancer/Testis Antigen 19, Interleukin-13-Binding Protein, IL-13R-alpha-2, IL-13RA2, IL-13 Receptor Subunit Alpha-2, IL-13R Subunit Alpha-2, CD213A2, CT19, IL-13R, IL13BP, Interleukin 13 Binding Protein, Interleukin 13 Receptor Alpha 2 Chain, Interleukin-13 Receptor Subunit Alpha-2, IL13R, CD213a2 Antigen; NP); IL20R α ; Intestinal carboxyl esterase; IRTA2 (alias of FcRH5); Kallikrein 4 (KLK4, Kallikrein-Related Peptidase 4, PRSS17, EMSP1, Enamel Matrix Serine Proteinase 1, Kallikrein-Like Protein 1, Serine Protease 17, KLK-L1, PSTS, AI2A1, Kallikrein 4 (Prostase, Enamel Matrix, Prostate), ARM1, EMSP, Androgen-Regulated Message 1, Enamel Matrix Serine Protease 1, kallikrein, kallikrein-4, prostase, EC 3.4.21.-, Prostase, EC 3.4.21; GenBank: AAX30051.1); KIF20A (Kinesin Family Member 20A, RAB6KIFL, RAB6 Interacting, Kinesin-Like (Rabkinesin6), Mitotic a; LAGE-1; LDLR-fucosyltransferaseASfusion protein; Lengsin (LGSN, Lengsin, Lens Protein With Glutamine Synthetase Domain, GLULD1, Glutamate-Ammonia Ligase Domain-Containing Protein 1, LGS, Glutamate-Ammonia Ligase (Glutamine Synthetase) Domain Containing 1, Glutamate-Ammonia Ligase (Glutamine Synthase) Domain Containing 1, Lens Glutamine Synthase-Like; GenBank: AAF61255.1); LGR5 (leucine-rich repeat-containing G protein-coupled receptor 5; GPR49, GPR6; NP—003658.1; NM—003667.2; LY64 (Lymphocyte antigen 64 (RP10, type I membrane protein of the leucine rich repeat (LRR) family, regulates B-cell activation and apoptosis, loss of function is associated with increased disease activity in patients with systemic lupus erythematosus); 661 aa, μ l: 6.20, MW: 74147 TM: 1 [P] Gene Chromosome: 5q12, Genbank accession No. NP—005573.; Ly6E (lymphocyte antigen 6 complex, locus E; Ly67, RIG-E, SCA-2, TSA-; NP—002337.1; NM—002346.2); Ly6G6D (lymphocyte antigen 6 complex, locus G6D; Ly6-D, MEGT; NP—067079.2; NM—021246.2); LY6K (lymphocyte antigen 6 complex, locus K; LY6K; HSI001348; FLJ3522; NP—059997.3; NM—017527.3); LyPD1-LY6/PLAUR domain containing 1, PHTS [Homo sapiens], GenBank: AAH17318.1); MAGE-A1 (Melanoma Antigen Family A, 1 (Directs Expression Of Antigen MZ2-E, MAGE1, Melanoma Antigen Family A 1, MAGEA1, Melanoma Antigen MAGE-1, Melanoma-Associated Antigen 1, Melanoma-Associated Antigen MZ2-E, Antigen MZ2-E, Cancer/Testis Antigen 1.1, CT1.1, MAGE-1 Antigen, Cancer/Testis Antigen Family 1, Member 1, Cancer/Testis Antigen Family 1, Member 1, MAGE1A; NCBI Reference Sequence: NP—004979.3); MAGE-A10

(MAGEA10, Melanoma Antigen Family A, 10, MAGE10, MAGE-10 Antigen, Melanoma-Associated Antigen 10, Cancer/Testis Antigen 1.10, CT1.10, Cancer/Testis Antigen Family 1, Member 10, Cancer/Testis Antigen Family 1, Member 10; NCBI Reference Sequence: NP—001238757.1); MAGE-A12 (MAGEA12, Melanoma Antigen Family A, 12, MAGE12, Cancer/Testis Antigen 1.12, CT1.12, MAGE12F Antigen, Cancer/Testis Antigen Family 1, Member 12, Cancer/Testis Antigen Family 1, Member 12, Melanoma-Associated Antigen 12, MAGE-12 Antigen; NCBI Reference Sequence: NP—001159859.1); MAGE-A2 (MAGEA2, Melanoma Antigen Family A, 2, MAGE2, Cancer/Testis Antigen 1.2, CT1.2, MAGEA2A, MAGE-2 Antigen, Cancer/Testis Antigen Family 1, Member 2, Cancer/Testis Antigen Family 1, Member 2, Melanoma Antigen 2, Melanoma-Associated Antigen 2; NCBI Reference Sequence: NP—001269434.1); MAGE-A3 (MAGEA3, Melanoma Antigen Family A, 3, MAGE3, MAGE-3 Antigen, Antigen MZ2-D, Melanoma-Associated Antigen 3, Cancer/Testis Antigen 1.3, CT1.3, Cancer/Testis Antigen Family 1, Member 3, HIPS, HYPD, MAGEA6, Cancer/Testis Antigen Family 1, Member 3; NCBI Reference Sequence: NP—005353.1); MAGE-A4 (MAGEA4, Melanoma Antigen Family A, 4, MAGE4, Melanoma-Associated Antigen 4, Cancer/Testis Antigen 1.4, CT1.4, MAGE-4 Antigen, MAGE-41 Antigen, MAGE-X2 Antigen, MAGE4A, MAGE4B, Cancer/Testis Antigen Family 1, Member 4, MAGE-41, MAGE-X2, Cancer/Testis Antigen Family 1, Member 4; NCBI Reference Sequence: NP—001011550.1); MAGE-A6 (MAGEA6, Melanoma Antigen Family A, 6, MAGE6, MAGE-6 Antigen, Melanoma-Associated Antigen 6, Cancer/Testis Antigen 1.6, CT1.6, MAGE3B Antigen, Cancer/Testis Antigen Family 1, Melanoma Antigen Family A 6, Member 6, MAGE-3b, MAGE3B, Cancer/Testis Antigen Family 1, Member 6; NCBI Reference Sequence: NP—787064.1); MAGE-A9 (MAGEA9, Melanoma Antigen Family A, 9, MAGE9, MAGE-9 Antigen, Melanoma-Associated Antigen 9, Cancer/Testis Antigen 1.9, CT1.9, Cancer/Testis Antigen Family 1, Member 9, Cancer/Testis Antigen Family 1, Member 9, MAGEA9A; NCBI Reference Sequence: NP—005356.1); MAGE-C1 (MAGEC1, Melanoma Antigen Family C, 1, Cancer/Testis Antigen 7.1, CT7.1, MAGE-C1 Antigen, Cancer/Testis Antigen Family 7, Member 1, CT7, Cancer/Testis Antigen Family 7, Member 1, Melanoma-Associated Antigen C1; NCBI Reference Sequence: NP—005453.2); MAGE-C2 (MAGEC2, Melanoma Antigen Family C, 2, MAGEE1, Cancer/Testis Antigen 10, CT10, HCA587, Melanoma Antigen, Family E, 1, Cancer/Testis Specific, Hepatocellular Carcinoma-Associated Antigen 587, MAGE-C2 Antigen, MAGE-E1 Antigen,

Hepatocellular Cancer Antigen 587, Melanoma-Associated Antigen C2; NCBI Reference Sequence: NP—057333.1); mammaglobin-A (SCGB2A2, Secretoglobin, Family 2A, Member 2, MGB1, Mammaglobin 1, UGB2, Mammaglobin A, mammaglobin-A, Mammaglobin-1, Secretoglobin Family 2A Member 2; NP); MART2 (HHAT, Hedgehog Acyltransferase, SKI1, Melanoma Antigen Recognized By T-Cells 2, Skinny Hedgehog Protein 1, Skn, Melanoma Antigen Recognized By T Cells 2, Protein-Cysteine N-Palmitoyltransferase HHAT, EC 2.3.1.-; GenBank: AAH39071.1); M-CSF (CSF1, Colony Stimulating Factor 1 (Macrophage), MCSF, CSF-1, lanimostim, Macrophage Colony-Stimulating Factor 1, Lanimostim; GenBank: AAH21117.1); MCSP (SMCP, Sperm Mitochondria-Associated Cysteine-Rich Protein, MCS, Mitochondrial Capsule Selenoprotein, HSMCSGEN1, Sperm Mitochondrial-Associated Cysteine-Rich Protein; NCBI Reference Sequence: NP—109588.2); XAGE-1b/GAGED2a; WT1 (Wilms Tumor 1, WAGR, GUD, WIT-2, WT33, Amino-Terminal Domain Of EWS, NPHS4, Last Three Zinc Fingers Of The DNA-Binding Domain Of WT1, AWT1, Wilms Tumor Protein, EWS-WT1; GenBank: AAB33443.1); VEGF; Tyrosinase (TYR; OCAIA; OCA1A; tyrosinase; SHEP; NP—000363.1; NM—000372.4; GenBank: AAB60319.1); TrpM4 (BR22450, FLJ20041, TRPM4, TRPM4B, transient receptor potential cation channel, subfamily M, member 4, Genbank accession no. NM—01763); TRP2-INT2; TRP-2; TRP-1/gp75 (Tyrosinase-Related Protein 1, 5,6-Dihydroxyindole-2-Carboxylic Acid Oxidase, CAS2, CATB, TYRP, OCAS, Catalase B, b-PROTEIN, Glycoprotein 75, EC 1.14.18., Melanoma Antigen Gp75, TYRP1, TRP, TYRRP, TRP1, SHEP11, DHICA Oxidase, EC 1.14.18, GP75, EC 1.14.18.1; Triosephosphate isomerase (Triosephosphate isomerase 1, TPID, Triose-Phosphate Isomerase, HEL-S-49, TIM, Epididymis Secretory Protein Li 49, TPI, Triosephosphate Isomerase, EC 5.3.1.1; TRAG-3 (CSAG Family Member 2, Cancer/Testis Antigen Family 24, CSAG3B, Member 2, CSAG Family Member 3B, Cancer/Testis Antigen Family 24 Member 2, Cancer/Testis Antigen 24.2, Chondrosarcoma-Associated Gene 2/3 Protein, Taxol-Resistant-Associated Gene 3 Protein, Chondrosarcoma-Associated Gene 2/3 Protein-Like, CT24.2, Taxol Resistance Associated Gene 3, TRAG-3, CSAG3A, TRAG3); TMEM46 (shisa homolog 2 (Xenopus laevis); SHISA; NP—001007539.1; NM—001007538.1; TMEM118 (ring finger protein, transmembrane2; RNFT2; FLJ1462; NP—001103373.1; NM—001109903.1; TMEFF1 (transmembrane protein with EGF-like and two follistatin-like domains 1; Tomoregulin-; H7365; C9orf2; C9ORF2; U19878; X83961; NM—080655; NM—003692; TGF-betaRII (TGFB2,

Transforming Growth Factor, Beta Receptor II (70/80 kDa), TGFbeta-RII, MFS2, tbetaR-II, TGFR-2, TGF-Beta Receptor Type IIB, TGF-Beta Type II Receptor, TGF-Beta Receptor Type-2, EC 2.7.11.30, Transforming Growth Factor Beta Receptor Type IIC, AAT3, TbetaR-II, Transforming Growth Factor, Beta Receptor II (70-80kD), TGF-Beta Receptor Type II, FAA3, Transforming Growth Factor-Beta Receptor Type II, LDS1 B, HNPCC6, LDS2B, LDS2, RITC, EC 2.7.11, TAAD2; TENB2 (TMEFF2, tomoregulin, TPEF, HPP1, TR, putative transmembrane proteoglycan, related to the EGF/hereregulin family of growth factors and follistatin); 374 aa, NCBI Accession: AAD55776, AAF91397, AAG49451, NCBI RefSeq: NP—057276; NCBI Gene: 23671; OMIM: 605734; SwissProt Q9UIK5; Genbank accession No. AF179274; AY358907, CAF85723, CQ782436; TAG-2; TAG-1 (Contactin 2 (Axonal), TAG-1, AXT, Axonin-1 Cell Adhesion Molecule, TAX, Contactin 2 (transiently Expressed), TAXI, Contactin-2, Axonal Glycoprotein TAG-1, Transiently-Expressed Axonal Glycoprotein, Transient Axonal Glycoprotein, Axonin-1, TAX-1, TAG1, FAMES; PRF: 444868); SYT-SSX1 or -SSX2 fusion protein; survivin; STEAP2 (HGNC 8639, IPCA-1, PCANAP1, STAMP1, STEAP2, STMP, prostate cancer associated gene 1, prostate cancer associated protein 1, six transmembrane epithelial antigen of prostate 2, six transmembrane prostate protein, Genbank accession no. AF45513; STEAP1 (six transmembrane epithelial antigen of prostate, Genbank accession no. NM—01244; SSX-4; SSX-2 (SSX2, Synovial Sarcoma, X Breakpoint2, X Breakpoint 2, SSX, X Breakpoint 2B, Cancer/Testis Antigen 5.2, X-Chromosome-Related 2, Tumor Antigen HOM-MEL-40, CT5.2, HD21, Cancer/Testis Antigen Family 5, HOM-MEL-40, Isoform B, Cancer/Testis Antigen Family 5 member 2a, member 2a, Protein SSX2, Sarcoma, Sarcoma, Synovial, X-Chromosome-Related 2, synovial, Synovial Sarcoma, X Breakpoint 2B, Synovial Sarcomam, SSX2A; Sp17; SOX10 (SRY (Sex Determining Region Y)-Box 10, mouse, PCWH, DOM, WS4, WS2E, WS4C, Dominant Megacolon, mouse, Human Homolog Of, Dominant Megacolon, SRY-Related HMG-Box Gene 10, Human Homolog Of, transcription Factor SOX-10; GenBank: CAG30470.1); SNRPD1 (Small Nuclear Ribonucleoprotein D1, Small Nuclear Ribonucleoprotein D1, Polypeptide 16 kDa, Polypeptide (16kD), SNRPD, HsT2456, Sm-D1, SMD1, Sm-D Autoantigen, Small Nuclear Ribonucleoprotein D1 Polypeptide 16 kDa Pseudogene, SnRNP Core Protein D1, Small Nuclear Ribonucleoprotein Sm D1; SLC35D3 (Solute Carrier Family 35, Member D3, FRCL1, Fringe Connection-Like Protein 1, bA55K22.3, Frc, Fringe-Like 1, Solute Carrier Family 35 Member D3; NCBI GenBank: NC—000006.11

NC—018917.2 NT—025741.16); SIRT2 (Sirtuin 2, NAD-Dependent Deacetylase Sirtuin-2, SIRT2, Silent Information Regulator 2, Regulatory Protein SIR2 Homolog 2, Sir2-Related Protein Type 2, SIR2-Like Protein 2, Sirtuin Type 2, Sirtuin (Silent Mating Type Information Regulation 2 Homolog) 2 (*S. cerevisiae*), Sirtuin-2, Sirtuin (Silent Mating Type Information Regulation 2, *S. cerevisiae*, Homolog) 2, EC 3.5.1., SIR2; GenBank: AAK51133.1); Sema 5b (FLJ10372, KIAA1445, Mm.42015, SEMA5B, SEMAG, Semaphorin 5b Hlog, sema domain, seven thrombospondin repeats (type 1 and type 1-like), Transmembrane Domain™ and short cytoplasmic domain, (semaphorin) 5B, Genbank accession no. AB04087; secernin 1 (SCRN1, SES1, KIAA0193, secerin-1; GenBank: EAL24458.1); SAGE (SAGE1, Sarcoma Antigen 1, Cancer/Testis Antigen 14, CT14, Putative Tumor Antigen; NCBI Reference Sequence: NP—061136.2); RU2AS (KAAG1, Kidney Associated Antigen 1, RU2AS, RU2 Antisense Gene Protein, Kidney-Associated Antigen 1; GenBank: AAF23613.1); RNF43-E3 ubiquitin-protein ligase RNF43 precursor [*Homo sapiens*], RNF124; URCC; NCBI Reference Sequence: NP—060233.3; RhoC (RGS5 (Regulator Of G-Protein Signaling 5, MSTP032, Regulator Of G-Protein Signalling 5, MSTP092, MST092, MSTP106, MST106, MSTP129, MST129; GenBank: AAB84001.1); RET (ret proto-oncogene; MEN2A; HSCR1; MEN2B; MTC1; PTC; CDHF12; Hs.168114; RET51; RET-ELE; NP—066124.1; NM—020975.4); RBAF600 (UBR4, Ubiquitin Protein Ligase E3 Component N-Recognin 4, Zinc Finger, UBR1 Type 1, ZUBR1, E3 Ubiquitin-Protein Ligase UBR4, RBAF600, 600 KDa Retinoblastoma Protein-Associated Factor, Zinc Finger UBR1-Type Protein 1, EC 6.3.2., N-recognin-4, KIAA0462, p600, EC 6.3.2, KIAA1307; GenBank: AAL83880.1); RAGE-1 (MOK, MOK Protein Kinase, Renal Tumor Antigen, RAGE, MAPK/MAK/MRK Overlapping Kinase, Renal Tumor Antigen 1, Renal Cell Carcinoma Antigen, RAGE-1, EC 2.7.11.22, RAGE1; UniProtKB/Swiss-Prot: Q9UQ07.1); RAB38/NY-MEL-1 (RAB38, NY-MEL-1, RAB38, Member RAS Oncogene Family, Melanoma Antigen NY-MEL-1, Rab-Related GTP-Binding Protein, Ras-Related Protein Rab-38, rrGTPbp; GenBank: AAH15808.1); PTPRK (DJ480J14.2.1 (Protein Tyrosine Phosphatase, Receptor Type, K R-PTP-KAPPA, Protein Tyrosine Phosphatase Kappa, Protein Tyrosine Phosphatase Kappa), Protein Tyrosine Phosphatase, Receptor Type, K, Protein-Tyrosine Phosphatase Kappa, Protein-Tyrosine Phosphatase, Receptor Type, Kappa, R-PTP-kappa, Receptor-Type Tyrosine-Protein Phosphatase Kappa, EC 3.1.3.48, PTPK; GenBank: AAI44514.1); PSMA; PSCA hIg(2700050C12Rik, C530008016Rik, RIKEN cDNA 2700050C12, RIKEN cDNA

2700050C12 gene, Genbank accession no. AY358628); PSCA (Prostate stem cell antigen precursor, Genbank accession no. AJ29743; PRDX5 (Peroxiredoxin 5, EC 1.11.1.15, TPx Type VI, B166, Antioxidant Enzyme B166, HEL-S-55, Liver Tissue 2D-Page Spot 71 B, PMP20, Peroxisomal Antioxidant Enzyme, PRDX6, Thioredoxin Peroxidase PMP20, PRXV, AOEB166, Epididymis Secretory Protein Li 55, Alu Co-Repressor 1, Peroxiredoxin-5, Mitochondrial, Peroxiredoxin V, prx-V, Thioredoxin Reductase, Prx-V, ACR1, Alu Corepressor, PLP; GenBank: CAG33484.1); PRAME (Preferentially Expressed Antigen In Melanoma, Preferentially Expressed Antigen Of Melanoma, MAPE, 01P-4, OIPA, CT130, Cancer/Testis Antigen 130, Melanoma Antigen Preferentially Expressed In Tumors, Opa-Interacting Protein 4, Opa-Interacting Protein 01P4; GenBank: CAG30435.1); pml-RARalpha fusion protein; PMEL17 (silver homolog; SILV; D12S53E; PMEL17; SI; SIL); ME20; gp10 BC001414; BT007202; M32295; M77348; NM—006928; PBF (ZNF395, Zinc Finger Protein 395, PRF-1, Huntington disease regulatory, HD Gene Regulatory Region-Binding Protein, Region-Binding Protein 2, Protein 2, Papillomavirus Regulatory Factor 1, HD-Regulating Factor 2, Papillomavirus-Regulatory Factor, PRF1, HDBP-2, Si-1-8-14, HDBP2, Huntington'S Disease Gene Regulatory Region-Binding Protein 2, HDRF-2, Papillomavirus Regulatory Factor PRF-1, PBF; GenBank: AAH01237.1); PAX5 (Paired Box 5, Paired Box Homeotic Gene 5, BSAP, Paired Box Protein Pax-5, B-Cell Lineage Specific Activator, Paired Domain Gene 5, Paired Box Gene 5 (B-Cell Lineage Specific Activator Protein), B-Cell-Specific Transcription Factor, Paired Box Gene 5 (B-Cell Lineage Specific Activator); PAP (REG3A, Regenerating Islet-Derived 3 Alpha, INGAP, PAP-H, Hepatointestinal Pancreatic Protein, PBBCGF, Human Proislet Peptide, REG-III, Pancreatitis-Associated Protein 1, Regi, Reg III-Alpha, hepatocarcinoma-intestine-pancreas, Regenerating Islet-Derived Protein III-Alpha, Pancreatic Beta Cell Growth Factor, HIP, PAP Homologous Protein, HIP/PAP, Proliferation-Inducing Protein 34, PAP1, Proliferation-Inducing Protein 42, REG-3-alpha, Regenerating Islet-Derived Protein 3-Alpha, Pancreatitis-Associated Protein; GenBank: AAH36776.1); p53 (TP53, Tumor Protein P53, TPR53, P53, Cellular Tumor Antigen P53, Antigen NY-CO-13, Mutant Tumor Protein 53, Phosphoprotein P53, P53 Tumor Suppressor, BCC7, Transformation-Related Protein 53, LFS1, tumor Protein 53, Li-Fraumeni Syndrome, Tumor Suppressor P53; P2X5 (Purinergic receptor P2X ligand-gated ion channel 5, an ion channel gated by extracellular ATP, may be involved in synaptic transmission and neurogenesis, deficiency may contribute to the pathophysiology of idiopathic detrusor

instability); 422 aa), μ l: 7.63, MW: 47206 TM: 1 [P] Gene Chromosome: 17p13.3, Genbank accession No. NP—002552.; OGT (0-Linked N-Acetylglucosamine (GlcNAc) Transferase, O-GlcNAc Transferase P110 Subunit, 0-Linked N-Acetylglucosamine (GlcNAc) Transferase (UDP-N-Acetylglucosamine:Polypeptide-N-Acetylglucosaminyl Transferase, UDP-N-Acetylglucosamine-Peptide N-Acetylglucosaminyltransferase 110 KDa Subunit, UDP-N-Acetylglucosamine:Polypeptide-N-Acetylglucosaminyl Transferase, Uridinediphospho-N-Acetylglucosamine:Polypeptide Beta-N-Acetylglucosaminyl Transferase, O-GlcNAc Transferase Subunit P110, EC 2.4.1.255, 0-Linked N-Acetylglucosamine Transferase 110 KDa Subunit, EC 2.4.1, HRNT1, EC 2.4.1.186, 0-GLCNAC; GenBank: AAH38180.1); 0A1 (Osteoarthritis QTL 1, OASD; GenBank: CAA88742.1); NY-ESO-1/LAGE-2 (Cancer/Testis Antigen 1 B, CTAG1 B, NY-ESO-1, LAGE-2, ESO1, CTAG1, CTAG, LAGE2B, Cancer/Testis Antigen 1, Autoimmunogenic Cancer/Testis Antigen NY-ESO-1, Ancer Antigen 3, Cancer/Testis Antigen 6.1, New York Esophageal Squamous Cell Carcinoma 1, L Antigen Family Member 2, LAGE2, CT6.1, LAGE2A; GenBank: AAI30365.1); NY-BR-1 (ANKRD30A, Ankyrin Repeat Domain 30A, Breast Cancer Antigen NY-BR-1, Serologically Defined Breast Cancer Antigen NY-BR-1, Ankyrin Repeat Domain-Containing Protein 30A; NCBI Reference Sequence: NP—443723.2); N-ras (NRAS, Neuroblastoma RAS Viral (V-Ras) Oncogene Homolog, NRAS1, Transforming Protein N-Ras, GTPase NRas, ALPS4, N-Ras Protein Part 4, NS6, Oncogene Homolog, HRAS1; GenBank: AAH05219.1); NFYC (Nuclear Transcription Factor Y, Gamma, HAP5, HSM, Nuclear Transcription Factor Y Subunit C, Transactivator HSM-1/2, CCAAT Binding Factor Subunit C, NF-YC, CCAAT Transcription Binding Factor Subunit Gamma, CAAT Box DNA-Binding Protein Subunit C, Histone H1 Transcription Factor Large Subunit 2A, CBFC, Nuclear Transcription Factor Y Subunit Gamma, CBF-C, Transactivator HSM-1, H1TF2A, Transcription Factor NF-Y, C Subunit; neo-PAP (PAPOLG, Poly(A) Polymerase Gamma, Neo-Poly(A) Polymerase, Nuclear Poly(A) Polymerase Gamma, Polynucleotide Adenylyltransferase Gamma, SRP RNA 3' Adenylating Enzyme/Pap2, PAP-gamma, Neo-PAP, SRP RNA 3'-Adenylating Enzyme, PAP2, EC 2.7.7.19, PAPG; NCBI Reference Sequence: NP—075045.2); NCA (CEACAM6, Genbank accession no. M1872); Napi3b (NAPI-3B, NPTIIb, SLC34A2, solute carrier family 34 (sodium phosphate), member 2, type II sodium-dependent phosphate transporter 3b, Genbank accession no. NM—00642); Myosin class I; MUM-3; MUM-2 (TRAPPC1, Trafficking Protein Particle Complex 1, BETS, BETS Homolog, MUM2, Melanoma

Ubiquitous Mutated 2, Multiple Myeloma Protein 2, Trafficking Protein Particle Complex Subunit 1; MUM-1f; Mucin (MUC1, Mucin 1, Cell Surface Associated, PEMT, PUM, CA 15-3, MCKD1, ADMCKD, Medullary Cystic Kidney Disease 1 (Autosomal Dominant), ADMCKD1, Mucin 1, Transmembrane, CD227, Breast Carcinoma-Associated Antigen DF3, MAM6, Cancer Antigen 15-3, MCD, Carcinoma-Associated Mucin, MCKD, Krebs Von Den Lungen-6, MUC-1/SEC, Peanut-Reactive Urinary Mucin, MUC1/ZD, Tumor-Associated Epithelial Membrane Antigen, DF3 Antigen, Tumor-Associated Mucin, episialin, EMA, H23 Antigen, H23AG, Mucin-1, KL-6, Tumor Associated Epithelial Mucin, MUC-1, Episialin, PEM, CD227 Antigen; UniProtKB/Swiss-Prot: P15941.3); MUCSAC (Mucin SAC, Oligomeric Mucus/Gel-Forming, Tracheobronchial Mucin' MUC5, TBM, Mucin 5, Subtypes A And C, Tracheobronchial/Gastric, leB, Gastric Mucin, Mucin SAC, Oligomeric Mucus/Gel-Forming Pseudogene, Lewis B Blood Group Antigen, LeB, Major Airway Glycoprotein, MUC-SAC, Mucin-5 Subtype AC, Tracheobronchial; MUC1 (Mucin 1, Cell Surface Associated, PEMT, PUM, CA 15-3, MCKD1, ADMCKD, Medullary Cystic Kidney Disease 1 (Autosomal Dominant), ADMCKD1, Mucin 1, Transmembrane, CD227, Breast Carcinoma-Associated Antigen DF3, MAM6, Cancer Antigen 15-3, MCD, Carcinoma-Associated Mucin, MCKD, Krebs Von Den Lungen-6, MUC-1/SEC, Peanut-Reactive Urinary Mucin, MUC-1/X, Polymorphic Epithelial Mucin, MUC1/ZD, Tumor-Associated Epithelial Membrane Antigen, DF3 Antigen, Tumor-Associated Mucin, episialin, EMA, h23 Antigen, H23AG, mucin-1, KL-6, Tumor Associated Epithelial Mucin, MUC-1, Episialin, PEM, CD227 Antigen; MSG783 (RNF124, hypothetical protein FLJ20315, Genbank accession no. NM-01776; MRP4-multidrug resistance-associated protein 4 isoform 3, MOAT-B; MOATB [Homo sapiens]; NCBI Reference Sequence: NP—001288758.1; MPF (MPF, MSLN, SMR, megakaryocyte potentiating factor, mesothelin, Genbank accession no. NM—00582; MMP-7 (MMP7, matrilysin, MPSL1, matrin, Matrix Metalloproteinase 7 (Matrilysin, Uterine), Uterine Matrilysin, Matrix Metalloproteinase-7, EC 3.4.24.23, Pump-1 Protease, Matrin, Uterine Metalloproteinase, PUMP1, MMP-7, EC 3.4.24, PUMP-1; GenBank: AAC37543.1); MMP-2 (MMP2, Matrix Metalloproteinase 2 (Gelatinase A, 72 kDa Gelatinase, 72 kDa Type IV Collagenase), MONA, CLG4A, Matrix Metalloproteinase 2 (Gelatinase A, 72kD Gelatinase, 72kD Type IV Collagenase), CLG4, 72 kDa Gelatinase, 72 kDa Type IV Collagenase), Matrix Metalloproteinase-2, MMP-II, 72 KDa Gelatinase, Collagenase Type IV-A, MMP-2, Matrix

Metalloproteinase-II, TBE-1, Neutrophil Gelatinase, EC 3.4.24.24, EC 3.4.24; GenBank: AAH02576.1); and Meloe.

[0217] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody wherein the multispecific antibody comprises a second binding domain having specificity for a second antigen selected from the group consisting of: 17-IA, 4-1BB, 4Dc, 6- keto-PGF1a, 8-iso-PGF2a, 8-oxo-dG, A1 Adenosine Receptor, A33, ACE, ACE-2, Activin, Activin A, Activin AB, Activin B, Activin C, Activin RIA, Activin RIA ALK-2, Activin RIB ALK-4, Activin RIIA, Activin RUB, ADAM, ADAM10, ADAM12, ADAM15, ADAM17/TACE, ADAM8, ADAM9, ADAMTS, ADAMTS4, ADAMTS5, Addressins, aFGF, ALCAM, ALK, ALK-1, ALK-7, alpha-1-antitrypsin, alpha-V/beta-1 antagonist, ANG, Ang, APAF-1, APE, APJ, APP, APRIL, AR, ARC, ART, Artemin, anti-Id, ASPARTIC, Atrial natriuretic factor, av/b3 integrin, Axl, b2M, B7-1, B7-2, B7-H, B-lymphocyte Stimulator (BlyS), BACE, BACE-1, Bad, BAFF, BAFF-R, Bag-1, BAK, Bax, BCA-1, BCAM, Bel, BCMA, BDNF, b-ECGF, bFGF, BID, Bik, BIM, BLC, BL-CAM, BLK, BMP, BMP-2 BMP-2a, BMP-3 Osteogenin, BMP-4 BMP-2b, BMP-5, BMP-6 Vgr-1, BMP-7 (OP-1), BMP-8 (BMP-8a, OP-2), BMPR, BMPR-IA (ALK-3), BMPR-IB (ALK-6), BRK-2, RPK-1, BMPR-II (BRK-3), BMPs, b- NGF, BOK, Bombesin, Bone-derived neurotrophic factor, BPDE, BPDE-DNA, BTC, complement factor 3 (C3), C3a, C4, C5, C5a, CIO, CA125, CAD-8, Calcitonin, cAMP, carcinoembryonic antigen (CEA), carcinoma-associated antigen, Cathepsin A, Cathepsin B, Cathepsin C/DPPI, Cathepsin D, Cathepsin E, Cathepsin H, Cathepsin L, Cathepsin O, Cathepsin S, Cathepsin V, Cathepsin X/Z/P, CBL, CCL, CCK2, CCL, CCL1, CCL11, CCL12, CCL13, CCL 14, CCL15, CCL16, CCL1 7, CCL18, CCL19, CCL2, CCL20, CCL21, CCL22, CCL23, CCL24, CCL25, CCL26, CCL27, CCL28, CCL3, CCL4, CCL5, CCL6, CCL7, CCL8, CCL9/10, CCR, CCR1, CCR10, CCR10, CCR2, CCR3, CCR4, CCR5, CCR6, CCR7, CCR8, CCR9, CD1, CD2, CD4, CD5, CD6, CD7, CD8, CD10, CD11a, CD11b, CD11c, CD13, CD14, CD15, CD16, CD18, CD19, CD20, CD21, CD22, CD23, CD25, CD27L, CD28, CD29, CD30, CD30L, CD32, CD33 (p67 proteins), CD34, CD38, CD40, CD40L, CD44, CD45, CD46, CD49a, CD52, CD54, CD55, CD56, CD61, CD64, CD66e, CD74, CD80 (B7-1), CD89, CD95, CD123, CD137, CD138, CD140a, CD146, CD147, CD148, CD152, CD164, CEACAM5, CFTR, cGMP, CINC, Clostridium botulinum toxin, Clostridium perfringens toxin, CKb8-1, CLC, CMV, CMV UL, CNTF, CNTN-1, COX, C-Ret, CRG-2, CT-1,

CTACK, CTGF, CTLA-4, CX3CL1, CX3CR1, CXCL, CXCL1, CXCL2, CXCL3, CXCL4, CXCL5, CXCL6, CXCL7, CXCL8, CXCL9, CXCL10, CXCL11, CXCL12, CXCL13, CXCL14, CXCL15, CXCL16, CXCR, CXCR1, CXCR2, CXCR3, CXCR4, CXCR5, CXCR6, cytokeratin tumor-associated antigen, DAN, DCC, DcR3, DC-SIGN, Decay accelerating factor, des(1-3)-IGF-I (brain IGF-1), Dhh, digoxin, DNAM-1, Dnase, Dpp, DPPIV/CD26, Dtk, ECAD, EDA, EDA-A1, EDA-A2, EDAR, EGF, EGFR (ErbB-1), EMA, EMMPRIN, EN A, endothelin receptor, Enkephalinase, eNOS, Eot, eotaxinl, EpCAM, Ephrin B2/ EphB4, EPO, ERCC, E-selectin, ET-1, Factor IIa, Factor VII, Factor VIIIc, Factor IX, fibroblast activation protein (FAP), Fas, FcR1, FEN-1, Ferritin, FGF, FGF-19, FGF-2, FGF3, FGF-8, FGFR, FGFR-3, Fibrin, FL, FLIP, Flt-3, Flt-4, Follicle stimulating hormone, Fractalkine, FZD1, FZD2, FZD3, FZD4, FZD5, FZD6, FZD7, FZD8, FZD9, FZD10, G250, Gas 6, GCP-2, GCSF, GD2, GD3, GDF, GDF-1, GDF-3 (Vgr-2), GDF-5 (BMP-14, CDMP- 1), GDF-6 (BMP-13, CDMP-2), GDF-7 (BMP-12, CDMP-3), GDF-8 (Myostatin), GDF-9, GDF- 15 (MIC-1), GDNF, GDNF, GFAP, GFRa-1, GFR-alpha1, GFR-alpha2, GFR-alpha3, GITR, Glucagon, Glut 4, glycoprotein IIb/IIIa (GP IIb/IIIa), GM-CSF, gp130, gp72, GRO, Growth hormone releasing factor, Hapten (NP-cap or NIP-cap), HB-EGF, HCC, HCMV gB envelope glycoprotein, HCMV) gH envelope glycoprotein, HCMV UL, Hemopoietic growth factor (HGF), Hep B gp120, heparanase, Her2, Her2/neu (ErbB-2), Her3 (ErbB-3), Her4 (ErbB-4), herpes simplex virus (HSV) gB glycoprotein, HSV gD glycoprotein, HGFA, High molecular weight melanoma-associated antigen (HMW-MAA), HIV gp120, HIV IIIB gp 120 V3 loop, HLA, HLA-DR, HM1.24, HMFG PEM, HRG, Hrk, human cardiac myosin, human cytomegalovirus (HCMV), human growth hormone (HGH), HVEM, 1-309, IAP, ICAM, ICAM-1, ICAM-3, ICE, ICOS, IFNg, Ig, IgA receptor, IgE, IGF, IGF binding proteins, IGF-1R, IGFBP, IGF-I, IGF-II, IL, IL-1, IL-1R, IL-2, IL-2R, IL-4, IL-4R, IL-5, IL-5R, IL-6, IL-6R, IL-8, IL- 9, IL-10, IL-12, IL-13, IL-15, IL-18, IL-18R, IL-23, interferon (INF)-alpha, INF-beta, INF- gamma, Inhibin, iNOS, Insulin A-chain, Insulin B-chain, Insulin-like growth factor 1, integrin alpha2, integrin alpha3, integrin alpha4, integrin alpha4/betal, integrin, alpha4/beta7, integrin alpha5 (alphaV), integrin alpha5/betal, integrin alpha5/beta3, integrin alpha6, integrin betal, integrin beta2, interferon gamma, IP-10, 1-TAC, JE, Kallikrein 2, Kallikrein 5, Kallikrein 6, , Kallikrein 11, Kallikrein 12, Kallikrein 14, Kallikrein 15, Kallikrein LI, Kallikrein L2, Kallikrein L3, Kallikrein L4, KC, KDR, Keratinocyte Growth Factor (KGF), laminin 5, LAMP, LAP, LAP (TGF- 1), Latent TGF-1, Latent TGF-1 bpl, LBP,

LDGF, LECT2, Lefty, Lewis-Y antigen, Lewis-Y related antigen, LFA-1, LFA-3, Lfo, LIF, LIGHT, lipoproteins, LIX, LKN, Lptn, L-Selectin, LT-a, LT-b, LTB4, LTBP-1, Lung surfactant, Luteinizing hormone, Lymphotoxin Beta Receptor, Mac-1, MAdCAM, MAG, MAP2, MARC, MCAM, MCAM, MCK-2, MCP, M-CSF, MDC, Mer, METALLOPROTEASES, MGDF receptor, MGMT, MHC (HLA-DR), MIF, MIG, MIP, MIP-1-alpha, MK, MMAC1, MMP, MMP-1, MMP-10, MMP-11, MMP-12, MMP-13, MMP-14, MMP-15, MMP-2, MMP-24, MMP-3, MMP-7, MMP-8, MMP-9, MPIF, Mpo, MSK, MSP, mucin (Muc1), MUC18, Muellierian- inhibitin substance, Mug, MuSK, NAIP, NAP, NCAD, N-Cadherin, NCA 90, NCAM, NCAM, Neprilysin, Neurotrophin-3, -4, or -6, Neurturin, Neuronal growth factor (NGF), NGFR, NGF-beta, nNOS, NO, NOS, Npn, NRG-3, NT, NTN, OB, OGG1, OPG, OPN, OSM, OX40L, OX40R, p150, p95, PADPr, Parathyroid hormone, PARC, PARP, PBR, PBSF, PCAD, P-Cadherin, PCNA, PDGF, PDGF, PDK-1, PECAM, PEM, PF4, PGE, PGF, PGI2, PGJ2, PIN, PLA2, placental alkaline phosphatase (PLAP), P1GF, PLP, PP14, Proinsulin, Prorelaxin, Protein C, PS, PSA, PSCA, prostate specific membrane antigen (PSMA), PTEN, PTHrp, Ptk, PTN, R51, RANK, RANKL, RANTES, RANTES, Relaxin A-chain, Relaxin B-chain, renin, respiratory syncytial virus (RSV) F, RSV Fgp, Ret, Rheumatoid factors, RLIP76, RPA2, RSK, S100, SCF/KL, SDF-1, SERINE, Serum albumin, sFRP-3, Shh, SIGIRR, SK-1, SLAM, SLPI, SMAC, SMDF, SMOH, SOD, SPARC, Stat, STEAP, STEAP-II, TACE, TACI, TAG-72 (tumor-associated glycoprotein-72), TARC, TCA-3, T-cell receptors (e.g., T-cell receptor alpha/beta), TdT, TECK, TEM1, TEM5, TEM7, TEM8, TERT, testicular PLAP-like alkaline phosphatase, TfR, TGF, TGF-alpha, TGF-beta, TGF-beta Pan Specific, TGF-beta RI (ALK-5), TGF-beta RII, TGF-beta RIIb, TGF-beta RIII, TGF-beta1, TGF-beta2, TGF-beta3, TGF-beta4, TGF-beta5, Thrombin, Thymus Ck-1, Thyroid stimulating hormone, Tie, TIMP, TIQ, Tissue Factor, TMEFF2, Tmpo, TMPRSS2, TNF, TNF-alpha, TNF-alpha beta, TNF-beta2, TNF-c, TNF-RI, TNF-RII, TNFRSF10A (TRAIL R1 Apo-2, DR4), TNFRSF10B (TRAIL R2 DR5, KILLER, TRICK-2A, TRICK-B), TNFRSF10C (TRAIL R3 DcR1, LIT, TRID), TNFRSF10D (TRAIL R4 DcR2, TRUNDD), TNFRSF11A (RANK ODF R, TRANCE R), TNFRSF11B (OPG OCIF, TR1), TNFRSF12 (TWEAK R FN14), TNFRSF13B (TACI), TNFRSF13C (BAFF R), TNFRSF14 (HVEM ATAR, HveA, LIGHT R, TR2), TNFRSF16 (NGFR p75NTR), TNFRSF17 (BCMA), TNFRSF18 (GITR AITR), TNFRSF19 (TROY TAJ, TRADE), TNFRSF19L (RELT), TNFRSF1A (TNF RI CD120a, p55-60), TNFRSF1B (TNF RII CD120b, p75-80), TNFRSF26

(TNFRH3), TNFRSF3 (LTbR TNF RIII, TNFC R), TNFRSF4 (OX40 ACT35, TXGP1 R), TNFRSF5 (CD40 p50), TNFRSF6 (Fas Apo-1, APT1, CD95), TNFRSF6B (DcR3 M68, TR6), TNFRSF7 (CD27), TNFRSF8 (CD30), TNFRSF9 (4-1BB CD137, ILA), TNFRSF21 (DR6), TNFRSF22 (DcTRAIL R2 TNFRH2), TNFRST23 (DcTRAIL RI TNFRH1), TNFRSF25 (DR3 Apo-3, LARD, TR-3, TRAMP, WSL-1), TNFSF10 (TRAIL Apo-2 Ligand, TL2), TNFSF11 (TRANCE/RANK Ligand ODF, OPG Ligand), TNFSF12 (TWEAK Apo-3 Ligand, DR3 Ligand), TNFSF13 (APRIL TALL2), TNFSF13B (BAFF BLYS, TALL1, THANK, TNFSF20), TNFSF14 (LIGHT HVEM Ligand, LTg), TNFSF15 (TL1A/VEGI), TNFSF18 (GITR Ligand AITR Ligand, TL6), TNFSF1A (TNF-a Conectin, DIF, TNFSF2), TNFSF1B (TNF-b LTa, TNFSF1), TNFSF3 (LTb TNFC, p33), TNFSF4 (OX40 Ligand gp34, TXGP1), TNFSF5 (CD40 Ligand CD154, gp39, HIGM1, IMD3, TRAP), TNFSF6 (Fas Ligand Apo-1 Ligand, APT1 Ligand), TNFSF7 (CD27 Ligand CD70), TNFSF8 (CD30 Ligand CD153), TNFSF9 (4-1BB Ligand CD137 Ligand), TP-1, t-PA, Tpo, TRAIL, TRAIL R, TRAIL-R1, TRAIL-R2, TRANCE, transferring receptor, TRF, Trk, TROP-2, TSG, TSLP, tumor-associated antigen CA 125, tumor-associated antigen expressing Lewis Y related carbohydrate, TWEAK, TXB2, Ung, uPAR, uPAR-1, Urokinase, VCAM, VCAM-1, VECAD, VE-Cadherin, VE-cadherin-2, VEGFR-1 (flt-1), VEGF, VEGFR, VEGFR-3 (flt-4), VEGI, VIM, Viral antigens, VLA, VLA-1, VLA-4, VNR integrin, von Willebrands factor, WIF-1, WNT1, WNT2, WNT2B/13, WNT3, WNT3A, WNT4, WNT5A, WNT5B, WNT6, WNT7A, WNT7B, WNT8A, WNT8B, WNT9A, WNT9A, WNT9B, WNT10A, WNT10B, WNT11, WNT16, XCL1, XCL2, XCR1, XCR1, XEDAR, XIAP, XPD, CTLA4 (cytotoxic T lymphocyte antigen-4), PD1 (programmed cell death protein 1), PD-L1 (programmed cell death ligand 1), LAG-3 (lymphocyte activation gene-3), TIM-3 (T cell immunoglobulin and mucin protein-3), receptors for hormones, and growth factors.

[0218] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them comprise a multispecific antibody, for example, a bispecific antibody wherein the multispecific antibody comprises a second binding domain having specificity for a second antigen selected from the group consisting of: BCMA, CTLA4 (cytotoxic T lymphocyte antigen-4), PD1 (programmed cell death protein 1), PD-L1 (programmed cell death ligand 1), LAG-3 (lymphocyte activation gene-3), TIM-3, CD20, CD2, CD19, Her2, EGFR, EpCAM, FcγRIIIa (CD16), FcγRIIa (CD32a), FcγRIIb (CD32b), FcγRI (CD64), Toll-like receptors (TLRs), TLR4,

TLR9, cytokines, IL-2, IL-5, IL-13, IL-6, IL-17, IL-12, IL-23, TNF α , TGF β , cytokine receptors, IL-2R, chemokines, chemokine receptors, growth factors, VEGF, and HGF.

[0219] In some embodiments, the invention provides bispecific antibodies having affinity to CD3 and HER2. In some embodiments, the invention provides bispecific antibodies comprising an antibody fragment (e.g., an Fab) of trastuzumab. Exemplary bispecific CD3 antibodies include ADI-29291, ADI-29292, ADI-29293, ADI-29294, ADI-29295, ADI-29297, ADI-29298, ADI-29300, ADI-29301, ADI-29302, ADI-29303, ADI-29304, ADI-29305, and ADI-29306.

[0220] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be prepared according to a variety of techniques available to the artisan and include, but are not limited to, recombinant co-expression of two immunoglobulin heavy chain-light chain pairs having different specificities (see Milstein and Cuello, *Nature* 305: 537 (1983)), WO 93/08829, and Traunecker et al., *EMBO J.* 10: 3655 (1991)), and “knob-in-hole” engineering (see, e.g., U.S. Pat. No. 5,731,168). “Knob-in-hole” engineering of multispecific antibodies may be utilized to generate a first arm containing a knob and a second arm containing the hole into which the knob of the first arm may bind. The knob of the multispecific antibodies of the invention may be an anti-CD3 arm in one embodiment. Alternatively, the knob of the multispecific antibodies of the invention may be an anti-target/antigen arm in one embodiment. The hole of the multispecific antibodies of the invention may be an anti-CD3 arm in one embodiment. Alternatively, the hole of the multispecific antibodies of the invention may be an anti-target/antigen arm in one embodiment. Multispecific antibodies may also be engineered using immunoglobulin crossover (also known as Fab domain exchange or CrossMab format) technology (see e.g., WO2009/080253; Schaefer et al., *Proc. Natl. Acad. Sci. USA*, 108:11187-11192 (2011)). Multispecific antibodies may also be made by engineering electrostatic steering effects for making antibody Fc-heterodimeric molecules (WO 2009/089004A1); cross-linking two or more antibodies or fragments (see, e.g., U.S. Pat. No. 4,676,980, and Brennan et al., *Science*, 229: 81 (1985)); using leucine zippers to produce bi-specific antibodies (see, e.g., Kostelny et al., *J. Immunol*, 148(5):1547-1553 (1992)); using “diabody” technology for making bispecific antibody fragments (see, e.g., Hollinger et al., *Proc. Natl. Acad. Sci. USA*, 90:6444-6448 (1993)); and using single-chain Fv (sFv) dimers (see, e.g. Gruber et al., *J. Immunol*,

152:5368 (1994)); and preparing trispecific antibodies as described, e.g., in Tutt et al. J. ImmunoL 147: 60 (1991). Additional non-limiting examples of multispecific and bispecific formats that are amenable to incorporation of the inventive anti-CD3 binding domains include, e.g., Fab-Fc-scFv (“bottle-opener”) (XENCOR), Mab-scFv (XENCOR), Mab-Fv (XENCOR), Dual scFv (XENCOR), central Fv (XENCOR), central scFv(XENCOR), one-arm central scFv (XENCOR), Fab-Fab (XENCOR), Fab-Fv (XENCOR), mAb-Fv (XENCOR), mAb-Fab (XENCOR), DART (MacroGenics), BiTE (Amgen/Micromet), KiTE, common light chain-IgG (Genentech), TandAb (Affimed) Cross-Mab (Roche), SEED (EMD Serono), BEAT (Glenmark), TrioMab (Trion Pharma/Fresenius Biotech), DuetMab (MedImmune), and others. Methods for preparing such multispecific antibodies are disclosed in, for example: WO 95/09917; WO 2008/119566; WO 2008/119567; WO2011/121110; WO 2010/037835; WO 2007/042261; WO 2007/110205; WO 2011/121110; WO 2012/055961; WO 2012/16067; WO 2016/086189; WO 2016/182751; WO 2015/006749; WO 2014/049003; WO 2013/177101; WO 2015/128509; US 7,951,917; US 2009/0252729; US 2014/0348839; US 7,183,076; Mazor et al., *Mabs*, Vol. 7, pages 377-389 (2015); Muda et al., *Protein Engineering, Design, & Selection*, Vol. 24, pages 447-454 (2011); and Del Bano et al., *Antibodies*, Vol. 5, pages 1-23 (2016).

[0221] Still further exemplary bispecific antibody format that can be used in the context of the present invention involves the use of a first immunoglobulin (Ig) CH3 domain and a second Ig CH3 domain, wherein the first and second Ig CH3 domains differ from one another by at least one amino acid, and wherein at least one amino acid difference reduces binding of the bispecific antibody to Protein A as compared to a bi-specific antibody lacking the amino acid difference. In one embodiment, the first Ig CH3 domain binds Protein A and the second Ig CH3 domain contains a mutation that reduces or abolishes Protein A binding such as an H95R modification (by IMGT exon numbering; H435R by EU numbering). The second CH3 may further comprise a Y96F modification (by IMGT; Y436F by EU). Further modifications that may be found within the second CH3 include: D16E, L18M, N44S, K52N, V57M, and V82I (by IMGT; D356E, L358M, N384S, K392N, V397M, and V422I by EU) in the case of IgG1 antibodies; N44S, K52N, and V82I (IMGT; N384S, K392N, and V422I by EU) in the case of IgG2 antibodies; and Q15R, N44S, K52N, V57M, R69K, E79Q, and V82I (by IMGT; Q355R, N384S, K392N, V397M, R409K, E419Q, and V422I by EU) in the case of IgG4 antibodies.

[0222] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be prepared according as engineered antibodies with three or more functional antigen binding sites, including “Octopus antibodies,” as disclosed in, e.g. US 2006/0025576A1.

[0223] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be prepared as a “Dual Acting FAb” or “DAF” comprising an antigen binding site that binds to CD3 as well as another, different antigen as disclosed in e.g., US 2008/0069820.

[0224] As disclosed herein and throughout, the inventive CD3 binding domains and antibodies comprising them may comprise monospecific, bispecific, or multispecific antibodies. Multispecific antibodies may be specific for different epitopes of one target polypeptide or may contain antigen-binding domains specific for more than one target polypeptide. See, e.g., Tutt et al., 1991, *J. Immunol.* 147:60-69; Kufer et al., 2004, *Trends Biotechnol.* 22:238-244. The antibodies of the present invention can be linked to or co-expressed with another functional molecule, e.g., another peptide or protein. For example, an antibody or fragment thereof can be functionally linked (e.g., by chemical coupling, genetic fusion, noncovalent association or otherwise) to one or more other molecular entities, such as another antibody or antibody fragment to produce a bi-specific or a multi-specific antibody with a second binding specificity.

[0225] In certain embodiments, amino acid sequence variants of the inventive CD3 binding domains and antibodies comprising them are contemplated. For example, it may be desirable to improve the binding affinity and/or other biological properties of the antibody. Amino acid sequence variants of an antibody may be prepared by introducing appropriate modifications into the nucleotide sequence encoding the antibody, or by peptide synthesis. Such modifications include, for example, deletions from, and/or insertions into and/or substitutions of residues within the amino acid sequences of the antibody. Any combination of deletion, insertion, and substitution can be made to arrive at the final construct, provided that the final construct possesses the desired characteristics, for example, antigen-binding. In certain embodiments, such variants having one or more amino acid substitutions are provided. Sites of interest for substitutional mutagenesis include the CDRs and FRs. Amino acid substitutions may be introduced into an antibody of interest and the products screened for a desired activity, for

example, retained/improved antigen binding, decreased immunogenicity, or improved ADCC or CDC.

[0226] One type of substitutional variant involves substituting one or more hypervariable region residues of a parent antibody (e.g., a humanized or human antibody). Generally, the resulting variant(s) selected for further study will have modifications (e.g., improvements) in certain biological properties (e.g., increased affinity, reduced immunogenicity) relative to the parent antibody and/or will have substantially retained certain biological properties of the parent antibody. An exemplary substitutional variant is an affinity matured antibody, which may be conveniently generated, e.g., using phage display-based affinity maturation techniques. Briefly, one or more CDR residues are mutated and the variant antibodies displayed on phage and screened for a particular biological activity (e.g., binding affinity).

[0227] Alterations (e.g., substitutions) may be made in CDRs, e.g., to improve antibody affinity. Such alterations may be made in CDR “hotspots,” i.e., residues encoded by codons that undergo mutation at high frequency during the somatic maturation process (see, e.g., Chowdhury, *Methods Mol. Biol.* 207:179-196 (2008)), and/or residues that contact antigen, with the resulting variant VH or VL being tested for binding affinity. Affinity maturation by constructing and reselecting from secondary libraries has been described, e.g., in Hoogenboom et al. in *Methods in Molecular Biology* 178:1-37 (O'Brien et al., ed., Human Press, Totowa, N.J., (2001).) In some embodiments of affinity maturation, diversity is introduced into the variable genes chosen for maturation by any of a variety of methods (e.g., error-prone PCR, chain shuffling, or oligonucleotide-directed mutagenesis). A secondary library is then created. The library is then screened to identify any antibody variants with the desired affinity. Another method to introduce diversity involves CDR-directed approaches, in which several CDR residues (e.g., 4-6 residues at a time) are randomized. CDR residues involved in antigen binding may be specifically identified, e.g., using alanine scanning mutagenesis or modeling. CDR-H3 and CDR-L3 in particular are often targeted.

[0228] In certain embodiments, substitutions, insertions, or deletions may occur within one or more CDRs of the inventive CD3 binding domains and antibodies comprising them, so long as such alterations do not substantially reduce the ability of the antibody to bind antigen. For example, conservative alterations (e.g., conservative substitutions as provided herein) that do

not substantially reduce binding affinity may be made in CDRs. Such alterations may, for example, be outside of antigen contacting residues in the CDRs. In certain embodiments of the variant VH and VL sequences provided above, each CDR either is unaltered, or contains no more than one, two or three amino acid substitutions.

[0229] A useful method for identification of residues or regions of an antibody that may be targeted for mutagenesis is called “alanine scanning mutagenesis” as described by Cunningham and Wells (1989) *Science*, 244:1081-1085. In this method, a residue or group of target residues (e.g., charged residues such as arg, asp, his, lys, and glu) are identified and replaced by a neutral or negatively charged amino acid (e.g., alanine or polyalanine) to determine whether the interaction of the antibody with antigen is affected. Further substitutions may be introduced at the amino acid locations demonstrating functional sensitivity to the initial substitutions. Alternatively, or additionally, a crystal structure of an antigen-antibody complex to identify contact points between the antibody and antigen. Such contact residues and neighboring residues may be targeted or eliminated as candidates for substitution. Variants may be screened to determine whether they contain the desired properties.

[0230] Amino acid sequence insertions include amino- and/or carboxyl-terminal fusions ranging in length from one residue to polypeptides containing a hundred or more residues, as well as intrasequence insertions of single or multiple amino acid residues. Examples of terminal insertions include an antibody with an N-terminal methionyl residue. Other insertional variants of the antibody molecule include the fusion to the N- or C-terminus of the antibody to an enzyme (e.g. for ADEPT) or a polypeptide which increases the serum half-life of the antibody.

[0231] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them can be altered to increase or decrease the extent to which the antibody is glycosylated. Addition or deletion of glycosylation sites to anti-CD3 antibody of the invention may be conveniently accomplished by altering the amino acid sequence such that one or more glycosylation sites is created or removed.

[0232] Where the antibody comprises an Fc region, the carbohydrate attached thereto may be altered. Antibodies produced by mammalian cells typically comprise a branched, biantennary oligosaccharide that is generally attached by an N-linkage to Asn297 of the CH2 domain of the Fc region. See, e.g., Wright et al. *TIBTECH* 15:26-32 (1997). The oligosaccharide

may include various carbohydrates, e.g., mannose, N-acetyl glucosamine (GlcNAc), galactose, and sialic acid, as well as a fucose attached to a GlcNAc in the “stem” of the biantennary oligosaccharide structure. In some embodiments, modifications of the oligosaccharide in an antibody of the invention may be made in order to create antibody variants with certain improved properties.

[0233] In certain embodiments, variants of the inventive CD3 binding domains and antibodies comprising them are provided having a carbohydrate structure that lacks fucose attached (directly or indirectly) to an Fc region. For example, the amount of fucose in such antibody may be from 1% to 80%, from 1% to 65%, from 5% to 65% or from 20% to 40%. The amount of fucose is determined by calculating the average amount of fucose within the sugar chain at Asn297, relative to the sum of all glycostructures attached to Asn 297 (e.g. complex, hybrid and high mannose structures) as measured by MALDI-TOF mass spectrometry, as described in WO 2008/077546, for example. Asn297 refers to the asparagine residue located at about position 297 in the Fc region (EU numbering of Fc region residues); however, Asn297 may also be located about ± 3 amino acids upstream or downstream of position 297, i.e., between positions 294 and 300, due to minor sequence variations in antibodies. Such fucosylation variants may have improved ADCC function. See, e.g., US Patent Publication Nos. US 2003/0157108 (Presta, L.); US 2004/0093621 (Kyowa Hakko Kogyo Co., Ltd). Examples of publications related to “defucosylated” or “fucose-deficient” antibody variants include: US 2003/0157108; WO 2000/61739; WO 2001/29246; US 2003/0115614; US 2002/0164328; US 2004/0093621; US 2004/0132140; US 2004/0110704; US 2004/0110282; US 2004/0109865; WO 2003/085119; WO 2003/084570; WO 2005/035586; WO 2005/035778; WO2005/053742; WO2002/031140; Okazaki et al. *J. Mol. Biol.* 336:1239-1249 (2004); Yamane-Ohnuki et al. *Biotech. Bioeng.* 87: 614 (2004). Examples of cell lines capable of producing defucosylated antibodies include Lec13 CHO cells deficient in protein fucosylation (Ripka et al. *Arch. Biochem. Biophys.* 249:533-545 (1986); US Pat Pub No 2003/0157108 A1, Presta, L; and WO 2004/056312 A1, Adams et al., especially at Example 11), and knockout cell lines, such as alpha-1,6-fucosyltransferase gene, FUT8, knockout CHO cells (see, e.g., Yamane-Ohnuki et al. *Biotech. Bioeng.* 87: 614 (2004); Kanda, Y. et al., *Biotechnol. Bioeng.*, 94(4):680-688 (2006); and WO2003/085107).

[0234] Anti-CD3 antibodies variants are further provided with bisected oligosaccharides, for example, in which a biantennary oligosaccharide attached to the Fc region of the antibody is bisected by GlcNAc. Such antibody variants may have reduced fucosylation and/or improved ADCC function. Examples of such antibody variants are described, e.g., in WO 2003/011878 (Jean-Mairet et al.); U.S. Pat. No. 6,602,684 (Umana et al.); and US 2005/0123546 (Umana et al.). Antibody variants with at least one galactose residue in the oligosaccharide attached to the Fc region are also provided. Such antibody variants may have improved CDC function. Such antibody variants are described, e.g., in WO 1997/30087 (Patel et al.); WO 1998/58964 (Raju, S.); and WO 1999/22764 (Raju, S.).

[0235] In certain embodiments, one or more amino acid modifications may be introduced into the Fc region of an anti-CD3 antibody of the invention, thereby generating an Fc region variant (see e.g., US 2012/0251531). The Fc region variant may comprise a human Fc region sequence (e.g., a human IgG1, IgG2, IgG3 or IgG4 Fc region) comprising an amino acid modification (e.g., a substitution) at one or more amino acid positions.

[0236] In certain embodiments, the invention contemplates an anti-CD3 antibody variant that possesses some but not all effector functions, which make it a desirable candidate for applications in which the half life of the antibody in vivo is important yet certain effector functions (such as complement and ADCC) are unnecessary or deleterious. In vitro and/or in vivo cytotoxicity assays can be conducted to confirm the reduction/depletion of CDC and/or ADCC activities. For example, Fc receptor (FcR) binding assays can be conducted to ensure that the antibody lacks Fc γ R binding (hence likely lacking ADCC activity) but retains FcRn binding ability. The primary cells for mediating ADCC, NK cells, express Fc γ RIII only, whereas monocytes express Fc γ RI, Fc γ RII and Fc γ RIII. FcR expression on hematopoietic cells is summarized in Table 3 on page 464 of Ravetch and Kinet, *Annu. Rev. Immunol.* 9:457-492 (1991). Non-limiting examples of in vitro assays to assess ADCC activity of a molecule of interest is described in U.S. Pat. No. 5,500,362 (see, e.g. Hellstrom, I. et al. *Proc. Nat'l Acad. Sci. USA* 83:7059-7063 (1986)) and Hellstrom, I et al., *Proc. Nat'l Acad. Sci. USA* 82:1499-1502 (1985); U.S. Pat. No. 5,821,337 (see Bruggemann, M. et al., *J. Exp. Med.* 166:1351-1361 (1987)). Alternatively, non-radioactive assays methods may be employed (see, for example, ACTI™ non-radioactive cytotoxicity assay for flow cytometry (Cell Technology, Inc. Mountain

View, Calif.; and CytoTox 96® non-radioactive cytotoxicity assay (Promega, Madison, Wis.). Useful effector cells for such assays include peripheral blood mononuclear cells (PBMC) and Natural Killer (NK) cells. Alternatively, or additionally, ADCC activity of the molecule of interest may be assessed *in vivo*, e.g., in an animal model such as that disclosed in Clynes et al. *Proc. Nat'l Acad. Sci. USA* 95:652-656 (1998). C1q binding assays may also be carried out to confirm that the antibody is unable to bind C1q and hence lacks CDC activity. See, e.g., C1q and C3c binding ELISA in WO 2006/029879 and WO 2005/100402. To assess complement activation, a CDC assay may be performed (see, for example, Gazzano-Santoro et al. *J. Immunol Methods* 202:163 (1996); Cragg, M. S. et al. *Blood*. 101:1045-1052 (2003); and Cragg, M. S. and M. J. Glennie *Blood*. 103:2738-2743 (2004)). FcRn binding and *in vivo* clearance/half life determinations can also be performed using methods known in the art (see, e.g., Petkova, S. B. et al. *Int'l. Immunol* 18(12):1759-1769 (2006)).

[0237] Antibodies with reduced effector function include those with substitution of one or more of Fc region residues 238, 265, 269, 270, 297, 327 and 329 (U.S. Pat. Nos. 6,737,056 and 8,219,149). Such Fc mutants include Fc mutants with substitutions at two or more of amino acid positions 265, 269, 270, 297 and 327, including the so-called "DANA" Fc mutant with substitution of residues 265 and 297 to alanine (U.S. Pat. Nos. 7,332,581 and 8,219,149).

[0238] In certain embodiments, the proline at position 329 of a wild-type human Fc region in the antibody is substituted with glycine or arginine or an amino acid residue large enough to destroy the proline sandwich within the Fc/Fc gamma receptor interface that is formed between the proline 329 of the Fc and tryptophan residues Trp 87 and Trp 110 of FcγRIII (Sondermann et al.: *Nature* 406, 267-273 (20 Jul. 2000)). In certain embodiments, the antibody comprises at least one further amino acid substitution. In one embodiment, the further amino acid substitution is S228P, E233P, L234A, L235A, L235E, N297A, N297D, or P331S, and still in another embodiment the at least one further amino acid substitution is L234A and L235A of the human IgG1 Fc region or S228P and L235E of the human IgG4 Fc region (see e.g., US 2012/0251531), and still in another embodiment the at least one further amino acid substitution is L234A and L235A and P329G of the human IgG1 Fc region.

[0239] Certain antibody variants with improved or diminished binding to FcRs are described. (See, e.g., U.S. Pat. No. 6,737,056; WO 2004/056312, and Shields et al., *J. Biol. Chem.* 9(2): 6591-6604 (2001).)

[0240] In certain embodiments, an antibody variant comprises an Fc region with one or more amino acid substitutions which improve ADCC, e.g., substitutions at positions 298, 333, and/or 334 of the Fc region (EU numbering of residues).

[0241] In some embodiments, alterations are made in the Fc region that result in altered (i.e., either improved or diminished) C1q binding and/or Complement Dependent Cytotoxicity (CDC), e.g., as described in U.S. Pat. No. 6,194,551, WO 99/51642, and Idusogie et al. *J. Immunol.* 164: 4178-4184 (2000).

[0242] Antibodies with increased half lives and improved binding to the neonatal Fc receptor (FcRn), which is responsible for the transfer of maternal IgGs to the fetus (Guyer et al., *J. Immunol.* 117:587 (1976) and Kim et al., *J. Immunol.* 24:249 (1994)), are described in US2005/0014934A1 (Hinton et al.). Those antibodies comprise an Fc region with one or more substitutions therein which improve binding of the Fc region to FcRn. Such Fc variants include those with substitutions at one or more of Fc region residues: 238, 256, 265, 272, 286, 303, 305, 307, 311, 312, 317, 340, 356, 360, 362, 376, 378, 380, 382, 413, 424 or 434, e.g., substitution of Fc region residue 434 (U.S. Pat. No. 7,371,826). See also Duncan & Winter, *Nature* 322:738-40 (1988); U.S. Pat. No. 5,648,260; U.S. Pat. No. 5,624,821; and WO 94/29351 concerning other examples of Fc region variants.

[0243] In some embodiments, the anti-CD3 antibody (e.g., bispecific anti-CD3 antibody) comprises an Fc region comprising an N297G mutation.

[0244] In some embodiments, the anti-CD3 antibody comprising the N297G mutation comprises one or more heavy chain constant domains, wherein the one or more heavy chain constant domains are selected from a first CH1 (CH11) domain, a first CH2 (CH21) domain, a first CH3 (CH31) domain, a second CH1 (CH12) domain, second CH2 (CH22) domain, and a second CH3 (CH32) domain. In some instances, at least one of the one or more heavy chain constant domains is paired with another heavy chain constant domain. In some instances, the CH31 and CH32 domains each comprise a protuberance or cavity, and wherein the protuberance

or cavity in the CH31 domain is positionable in the cavity or protuberance, respectively, in the CH32 domain. In some instances, the CH31 and CH32 domains meet at an interface between said protuberance and cavity. In some instances, the CH21 and CH22 domains each comprise a protuberance or cavity, and wherein the protuberance or cavity in the CH21 domain is positionable in the cavity or protuberance, respectively, in the CH22 domain. In other instances, the CH21 and CH22 domains meet at an interface between said protuberance and cavity. In some instances, the anti-CD3 antibody is an IgG1 antibody.

[0245] In certain embodiments, it may be desirable to create cysteine engineered antibodies, e.g., “thioMAbs,” in which one or more residues of an antibody are substituted with cysteine residues. In particular embodiments, the substituted residues occur at accessible sites of the antibody. By substituting those residues with cysteine, reactive thiol groups are thereby positioned at accessible sites of the antibody and may be used to conjugate the antibody to other moieties, such as drug moieties or linker-drug moieties, to create an immunoconjugate, as described further herein. In certain embodiments, any one or more of the following residues may be substituted with cysteine: V205 (Kabat numbering) of the light chain; A118 (EU numbering) of the heavy chain; and S400 (EU numbering) of the heavy chain Fc region. Cysteine engineered antibodies may be generated as described, for example, in U.S. Pat. No. 7,521,541.

[0246] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be further modified to contain additional nonproteinaceous moieties that are known in the art and readily available. The moieties suitable for derivatization of the antibody include but are not limited to water soluble polymers. Non-limiting examples of water soluble polymers include, but are not limited to, polyethylene glycol (PEG), copolymers of ethylene glycol/propylene glycol, carboxymethylcellulose, dextran, polyvinyl alcohol, polyvinyl pyrrolidone, poly-1,3-dioxolane, poly-1,3,6-trioxane, ethylene/maleic anhydride copolymer, polyaminoacids (either homopolymers or random copolymers), and dextran or poly(n-vinyl pyrrolidone)polyethylene glycol, polypropylene glycol homopolymers, polypropylene oxide/ethylene oxide co-polymers, polyoxyethylated polyols (e.g., glycerol), polyvinyl alcohol, and mixtures thereof. Polyethylene glycol propionaldehyde may have advantages in manufacturing due to its stability in water. The polymer may be of any molecular weight, and may be branched or unbranched. The number of polymers attached to the antibody may vary, and

if more than one polymer are attached, they can be the same or different molecules. In general, the number and/or type of polymers used for derivatization can be determined based on considerations including, but not limited to, the particular properties or functions of the antibody to be improved, whether the antibody derivative will be used in a therapy under defined conditions, etc.

[0247] In another embodiment, conjugates of an antibody and nonproteinaceous moiety that may be selectively heated by exposure to radiation are provided. In one embodiment, the nonproteinaceous moiety is a carbon nanotube (Kam et al., Proc. Natl. Acad. Sci. USA 102: 11600-11605 (2005)). The radiation may be of any wavelength, and includes, but is not limited to, wavelengths that do not harm ordinary cells, but which heat the nonproteinaceous moiety to a temperature at which cells proximal to the antibody-nonproteinaceous moiety are killed.

[0248] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be produced using recombinant methods and compositions, for example, as described in U.S. Pat. No. 4,816,567. In one embodiment, isolated nucleic acid encoding an anti-CD3 antibody described herein is provided. Such nucleic acid may encode an amino acid sequence comprising the VL and/or an amino acid sequence comprising the VH of the antibody (e.g., the light and/or heavy chains of the antibody). In a further embodiment, one or more vectors (e.g., expression vectors) comprising such nucleic acid are provided. In a further embodiment, a host cell comprising such nucleic acid is provided. In one such embodiment, a host cell comprises (e.g., has been transformed with): (1) a vector comprising a nucleic acid that encodes an amino acid sequence comprising the VL of the antibody and an amino acid sequence comprising the VH of the antibody, or (2) a first vector comprising a nucleic acid that encodes an amino acid sequence comprising the VL of the antibody and a second vector comprising a nucleic acid that encodes an amino acid sequence comprising the VH of the antibody. In one embodiment, the host cell is eukaryotic, e.g. a Chinese Hamster Ovary (CHO) cell or lymphoid cell (e.g., Y0, NS0, Sp20 cell). In one embodiment, a method of making an anti-CD3 antibody is provided, wherein the method comprises culturing a host cell comprising a nucleic acid encoding the antibody, as provided above, under conditions suitable for expression of the antibody, and optionally recovering the antibody from the host cell (or host cell culture medium).

[0249] For recombinant production of an anti-CD3 antibody, nucleic acid encoding an antibody, e.g., as described above, is isolated and inserted into one or more vectors for further cloning and/or expression in a host cell. Such nucleic acid may be readily isolated and sequenced using conventional procedures (e.g., by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of the antibody).

[0250] Suitable host cells for cloning or expression of antibody-encoding vectors include prokaryotic or eukaryotic cells described herein. For example, antibodies may be produced in bacteria, in particular when glycosylation and Fc effector function are not needed. For expression of antibody fragments and polypeptides in bacteria, see, e.g., U.S. Pat. Nos. 5,648,237, 5,789,199, and 5,840,523. (See also Charlton, *Methods in Molecular Biology*, Vol. 248 (B.K.C. Lo, ed., Humana Press, Totowa, N.J., 2003), pp. 245-254, describing expression of antibody fragments in *E. coli*.) After expression, the antibody may be isolated from the bacterial cell paste in a soluble fraction and can be further purified.

[0251] In addition to prokaryotes, eukaryotic microbes such as filamentous fungi or yeast are suitable cloning or expression hosts for antibody-encoding vectors, including fungi and yeast strains whose glycosylation pathways have been “humanized,” resulting in the production of an antibody with a partially or fully human glycosylation pattern. See, e.g., Gerngross, *Nat. Biotech.* 22:1409-1414 (2004), and Li et al., *Nat. Biotech.* 24:210-215 (2006); WO 2009/036379; WO 2010/105256; and WO 2012/009568.

[0252] Suitable host cells for the expression of glycosylated antibody are also derived from multicellular organisms (invertebrates and vertebrates). Examples of invertebrate cells include plant and insect cells. Numerous baculoviral strains have been identified which may be used in conjunction with insect cells, particularly for transfection of *Spodoptera frugiperda* cells.

[0253] Plant cell cultures can also be utilized as hosts. See, e.g., U.S. Pat. Nos. 5,959,177, 6,040,498, 6,420,548, 7,125,978, and 6,417,429 (describing PLANTIBODIES™ technology for producing antibodies in transgenic plants).

[0254] Vertebrate cells may also be used as hosts. For example, mammalian cell lines that are adapted to grow in suspension may be useful. Other examples of useful mammalian host cell lines are monkey kidney CV1 line transformed by SV40 (COS-7); human embryonic kidney

line (293 or 293 cells as described, e.g., in Graham et al., *J. Gen Virol.* 36:59 (1977)); baby hamster kidney cells (BHK); mouse sertoli cells (TM4 cells as described, e.g., in Mather, *Biol. Reprod.* 23:243-251 (1980)); monkey kidney cells (CV1); African green monkey kidney cells (VERO-76); human cervical carcinoma cells (HELA); canine kidney cells (MDCK; buffalo rat liver cells (BRL 3A); human lung cells (W138); human liver cells (Hep G2); mouse mammary tumor (MMT 060562); TRI cells, as described, e.g., in Mather et al., *Annals N.Y. Acad. Sci.* 383:44-68 (1982); MRC 5 cells; and FS4 cells. Other useful mammalian host cell lines include Chinese hamster ovary (CHO) cells, including DHFR-CHO cells (Urlaub et al., *Proc. Natl. Acad. Sci. USA* 77:4216 (1980)); and myeloma cell lines such as Y0, NS0 and Sp2/0. For a review of certain mammalian host cell lines suitable for antibody production, see, e.g., Yazaki and Wu, *Methods in Molecular Biology*, Vol. 248 (B.K.C. Lo, ed., Humana Press, Totowa, N.J.), pp. 255-268 (2003).

[0255] In certain embodiments, the inventive CD3 binding domains and antibodies comprising them may be identified, screened for, selected for or characterized for their physical/chemical properties and/or biological activities by various assays known in the art.

[0256] In one aspect, an anti-CD3 antibody of the invention is tested for its antigen binding activity, for example, by known methods such as ELISA, Western blot, etc.

[0257] In another aspect, competition assays may be used to identify an antibody that competes with an anti-CD3 antibody of the invention for binding to CD3.

[0258] In an exemplary competition assay, immobilized CD3 is incubated in a solution comprising a first labeled antibody that binds to CD3 and a second unlabeled antibody that is being tested for its ability to compete with the first antibody for binding to CD3. The second antibody may be present in a hybridoma supernatant. As a control, immobilized CD3 is incubated in a solution comprising the first labeled antibody but not the second unlabeled antibody. After incubation under conditions permissive for binding of the first antibody to CD3, excess unbound antibody is removed, and the amount of label associated with immobilized CD3 is measured. If the amount of label associated with immobilized CD3 is substantially reduced in the test sample relative to the control sample, then that indicates that the second antibody is competing with the first antibody for binding to CD3. See, e.g., Harlow and Lane (1988)

Antibodies: A Laboratory Manual. Ch.14 (Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y.).

[0259] In one aspect, assays are provided for identifying anti-CD3 antibodies thereof having biological activity. Biological activity may include, for example, binding to CD3 (e.g., CD3 on the surface of a T cell), or a peptide fragment thereof, either in vivo, in vitro, or ex vivo. In the case of a multispecific (e.g., bispecific) anti-CD3 antibody of the invention (e.g., a T-cell Dependent Bispecific Antibody (TDB) having one anti-CD3 arm and one arm that recognizes a second biological molecule, e.g., a cell surface antigen, e.g., a tumor antigen), biological activity may also include, for example, effector cell activation (e.g., T cell (e.g., CD8⁺ and/or CD4⁺ T cell) activation), effector cell population expansion (i.e., an increase in T cell count), target cell population reduction (i.e., a decrease in the population of cells expressing the second biological molecule on their cell surfaces), and/or target cell killing. Antibodies having such biological activity in vivo and/or in vitro are provided. In certain embodiments, an antibody of the invention is tested for such biological activity, as described in detail in the Examples herein below.

[0260] In some embodiments, the activity comprises ability to support B cell killing and/or the activation of the cytotoxic T cells. In certain embodiments, an anti-B cell targeting anti-CD3 antibody of the invention is tested for such B cell killing and/or the activation of the cytotoxic effect of T cells biological activity by any of the methods described herein, in particular the Examples. In some embodiments of any of these activity assays, PBMCs may be isolated from whole blood of healthy donors by Ficoll separation. In particular, human blood may be collected in heparinized syringes, and PBMCs isolated using Leucosep and Ficoll Paque Plus. If needed CD4⁺ T and CD8⁺ T cells may be separated with Miltenyi kits according to manufacturer's instructions.

[0261] Further, cells may be washed in RPMI medium containing 10% FBS, supplemented with GlutaMax, penicillin & streptomycin, and ~0.2 million suspended cells added to a 96-well U-bottom plate. Cells may be cultured in RPMI1640 supplemented with 10% FBS at 37° C. in a humidified standard cell culture incubator. For BJAB cell killing assays, 20,000 BJAB cells may be incubated with effector cells, either as huPBMCs or purified T cells, as indicated ratios per assay, in the presence of various concentrations of TDB antibodies for 24

hours. For endogenous B cell killing assays, 200,000 huPBMCs may be incubated with various concentrations of TDB antibodies for 24 hours.

[0262] After culturing, cells may be washed with FACS buffer (0.5% BSA, 0.05% Na Azide in PBS). Cells may then be stained in FACS buffer, washed with FACS buffer and suspended in FACS buffer containing 1 µg/ml Propidium Iodide. Data may be collected on a FACSCalibur flow cytometer and analyzed using FlowJo. Live B cells may be gated out as PI-CD19+ or PI-CD20+B cells by FACS, and absolute cell count may be obtained with FITC beads added to reaction mix as an internal counting control. The percent (%) of cell killing may be calculated based on non-TDB treated controls. Activated T cells may be detected by CD69 and CD25 surface expression using anti-CD69-FITC and anti-CD25-PE.

[0263] The invention also provides immunoconjugates comprising an inventive CD3 binding domain or an antibody comprising it. An anti-CD3 antibody herein conjugated to one or more cytotoxic agents, such as chemotherapeutic agents or drugs, growth inhibitory agents, toxins (e.g., protein toxins, enzymatically active toxins of bacterial, fungal, plant, or animal origin, or fragments thereof), or radioactive isotopes.

[0264] In some embodiments, an immunoconjugate is an antibody-drug conjugate (ADC) in which an antibody is conjugated to one or more drugs, including but not limited to a maytansinoid (see U.S. Pat. Nos. 5,208,020, 5,416,064 and European Patent EP 0 425 235 B1); an auristatin such as monomethylauristatin drug moieties DE and DF (MMAE and MMAF) (see U.S. Pat. Nos. 5,635,483 and 5,780,588, and 7,498,298); a dolastatin; a calicheamicin or derivative thereof (see U.S. Pat. Nos. 5,712,374, 5,714,586, 5,739,116, 5,767,285, 5,770,701, 5,770,710, 5,773,001, and 5,877,296; Hinman et al., *Cancer Res.* 53:3336-3342 (1993); and Lode et al., *Cancer Res.* 58:2925-2928 (1998)); an anthracycline such as daunomycin or doxorubicin (see Kratz et al., *Current Med. Chem.* 13:477-523 (2006); Jeffrey et al., *Bioorganic & Med. Chem. Letters* 16:358-362 (2006); Torgov et al., *Bioconj. Chem.* 16:717-721 (2005); Nagy et al., *Proc. Natl. Acad. Sci. USA* 97:829-834 (2000); Dubowchik et al., *Bioorg. & Med. Chem. Letters* 12:1529-1532 (2002); King et al., *J. Med. Chem.* 45:4336-4343 (2002); and U.S. Pat. No. 6,630,579); methotrexate; vindesine; a taxane such as docetaxel, paclitaxel, larotaxel, tasetaxel, and ortataxel; a trichothecene; and CC1065.

[0265] In some embodiments, an immunoconjugate comprises an anti-CD3 antibody as described herein conjugated to an enzymatically active toxin or fragment thereof, including but not limited to diphtheria A chain, nonbinding active fragments of diphtheria toxin, exotoxin A chain (from *Pseudomonas aeruginosa*), ricin A chain, abrin A chain, modeccin A chain, alpha-sarcin, *Aleurites fordii* proteins, dianthin proteins, *Phytolaca americana* proteins (PAPI, PAPII, and PAP-S), momordica charantia inhibitor, curcin, croton, sapaonaria officinalis inhibitor, gelonin, mitogellin, restrictocin, phenomycin, enomycin, and the tricothecenes.

[0266] In some embodiments, an immunoconjugate comprises an anti-CD3 antibody as described herein conjugated to a radioactive atom to form a radioconjugate. A variety of radioactive isotopes are available for the production of radioconjugates. Examples include At211, I131, I125, Y90, Re186, Re188, Sm153, Bi212, P32, Pb212 and radioactive isotopes of Lu. When the radioconjugate is used for detection, it may comprise a radioactive atom for scintigraphic studies, for example tc99m or I123, or a spin label for nuclear magnetic resonance (NMR) imaging (also known as magnetic resonance imaging, mri), such as iodine-123 again, iodine-131, indium-111, fluorine-19, carbon-13, nitrogen-15, oxygen-17, gadolinium, manganese or iron.

[0267] Conjugates of an antibody and cytotoxic agent may be made using a variety of bifunctional protein coupling agents such as N-succinimidyl-3-(2-pyridyldithio) propionate (SPDP), succinimidyl-4-(N-maleimidomethyl)cyclohexane-1-carboxylate (SMCC), iminothiolane (IT), bifunctional derivatives of imidoesters (such as dimethyl adipimidate HCl), active esters (such as disuccinimidyl suberate), aldehydes (such as glutaraldehyde), bis-azido compounds (such as bis(p-azidobenzoyl)hexanediamine), bis-diazonium derivatives (such as bis-(p-diazoniumbenzoyl)-ethylenediamine), diisocyanates (such as toluene 2,6-diisocyanate), and bis-active fluorine compounds (such as 1,5-difluoro-2,4-dinitrobenzene). For example, a ricin immunotoxin can be prepared as described in Vitetta et al., *Science* 238:1098 (1987). Carbon-14-labeled 1-isothiocyanatobenzyl-3-methyldiethylene triaminepentaacetic acid (MX-DTPA) is an exemplary chelating agent for conjugation of radionucleotide to the antibody. See WO94/11026. The linker may be a "cleavable linker" facilitating release of a cytotoxic drug in the cell. For example, an acid-labile linker, peptidase-sensitive linker, photolabile linker, dimethyl linker or

disulfide-containing linker (Chari et al., *Cancer Res.* 52:127-131 (1992); U.S. Pat. No. 5,208,020) may be used.

[0268] The immunoconjugates or ADCs herein expressly contemplate, but are not limited to such conjugates prepared with cross-linker reagents including, but not limited to, BMPS, EMCS, GMBS, HBVS, LC-SMCC, MBS, MPBH, SBAP, SIA, SIAB, SMCC, SMPB, SMPH, sulfo-EMCS, sulfo-GMBS, sulfo-KMUS, sulfo-MBS, sulfo-SIAB, sulfo-SMCC, and sulfo-SMPB, and SVSB (succinimidyl-(4-vinylsulfone)benzoate) which are commercially available (e.g., from Pierce Biotechnology, Inc., Rockford, Ill., U.S.A).

[0269] In certain embodiments, any of the anti-CD3 antibodies of the invention (e.g., bispecific anti-CD3 antibodies of the invention that bind to CD3 and a second biological molecule, e.g., a cell surface antigen, e.g., a tumor antigen, such as TDB antibodies of the invention or variants thereof) is useful for detecting the presence of CD3 in a biological sample. The term “detecting” as used herein encompasses quantitative or qualitative detection. In certain embodiments, a biological sample comprises a cell or tissue.

[0270] In one embodiment, an anti-CD3 antibody for use in a method of diagnosis or detection is provided. In a further aspect, a method of detecting the presence of CD3 in a biological sample is provided. In certain embodiments, the method comprises contacting the biological sample with an anti-CD3 antibody as described herein under conditions permissive for binding of the anti-CD3 antibody to CD3, and detecting whether a complex is formed between the anti-CD3 antibody and CD3. Such method may be an in vitro or in vivo method.

[0271] In certain embodiments, labeled anti-CD3 antibodies are provided. Labels include, but are not limited to, labels or moieties that are detected directly (such as fluorescent, chromophoric, electron-dense, chemiluminescent, and radioactive labels), as well as moieties, such as enzymes or ligands, that are detected indirectly, e.g., through an enzymatic reaction or molecular interaction. Exemplary labels include, but are not limited to, the radioisotopes ³²P, ¹⁴C, ¹²⁵I, ³H, and ¹³¹I, fluorophores such as rare earth chelates or fluorescein and its derivatives, rhodamine and its derivatives, dansyl, umbelliferone, luciferases, e.g., firefly luciferase and bacterial luciferase (U.S. Pat. No. 4,737,456), luciferin, 2,3-dihydrophthalazinediones, horseradish peroxidase (HRP), alkaline phosphatase, β -galactosidase, glucoamylase, lysozyme, saccharide oxidases, e.g., glucose oxidase, galactose oxidase, and

glucose-6-phosphate dehydrogenase, heterocyclic oxidases such as uricase and xanthine oxidase, coupled with an enzyme that employs hydrogen peroxide to oxidize a dye precursor such as HRP, lactoperoxidase, or microperoxidase, biotin/avidin, spin labels, bacteriophage labels, stable free radicals, and the like.

[0272] In certain embodiments, the inventive CD3 binding domains and antibodies comprising may be prepared as pharmaceutical formulations (also known as “pharmaceutical compositions”) by mixing such antibody having the desired degree of purity with one or more optional pharmaceutically acceptable carriers (Remington's Pharmaceutical Sciences 16th edition, Osol, A. Ed. (1980)), in the form of lyophilized formulations or aqueous solutions. Pharmaceutically acceptable carriers are generally nontoxic to recipients at the dosages and concentrations employed, and include, but are not limited to: buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid and methionine; preservatives (such as octadecyldimethylbenzyl ammonium chloride; hexamethonium chloride; benzalkonium chloride; benzethonium chloride; phenol, butyl or benzyl alcohol; alkyl parabens such as methyl or propyl paraben; catechol; resorcinol; cyclohexanol; 3-pentanol; and m-cresol); low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, histidine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugars such as sucrose, mannitol, trehalose or sorbitol; salt-forming counter-ions such as sodium; metal complexes (e.g. Zn-protein complexes); and/or non-ionic surfactants such as polyethylene glycol (PEG). Exemplary pharmaceutically acceptable carriers herein further include interstitial drug dispersion agents such as soluble neutral-active hyaluronidase glycoproteins (sHASEGP), for example, human soluble PH-20 hyaluronidase glycoproteins, such as rHuPH20 (HYLENEX®, Baxter International, Inc.). Certain exemplary sHASEGPs and methods of use, including rHuPH20, are described in US Patent Publication Nos. 2005/0260186 and 2006/0104968. In one aspect, a sHASEGP is combined with one or more additional glycosaminoglycanases such as chondroitinases.

[0273] Exemplary lyophilized antibody formulations are described in U.S. Pat. No. 6,267,958. Aqueous antibody formulations include those described in U.S. Pat. No. 6,171,586 and WO2006/044908, the latter formulations including a histidine-acetate buffer.

[0274] The formulation herein may also contain more than one active ingredients as necessary for the particular indication being treated, preferably those with complementary activities that do not adversely affect each other. For example, it may be desirable to further provide an additional therapeutic agent (e.g., a chemotherapeutic agent, a cytotoxic agent, a growth inhibitory agent, and/or an anti-hormonal agent, such as those recited herein above). Such active ingredients are suitably present in combination in amounts that are effective for the purpose intended.

[0275] Active ingredients may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization, for example, hydroxymethylcellulose or gelatin-microcapsules and poly-(methylmethacrylate) microcapsules, respectively, in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nanoparticles and nanocapsules) or in macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences 16th edition, Osol, A. Ed. (1980).

[0276] Sustained-release preparations may be prepared. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the antibody, which matrices are in the form of shaped articles, for example, films, or microcapsules.

[0277] The formulations to be used for in vivo administration are generally sterile. Sterility may be readily accomplished, e.g., by filtration through sterile filtration membranes.

[0278] In certain embodiments, the inventive CD3 binding domains and antibodies comprising are used in therapeutic methods.

[0279] In one aspect, an anti-CD3 antibody for use as a medicament is provided. In further aspects, an anti-CD3 antibody for use in treating or delaying progression of a cell proliferative disorder (e.g., cancer) or an autoimmune disorder (e.g., arthritis, rheumatoid arthritis, colitis, inflammatory bowel disease, autoimmune type I diabetes, etc.) is provided. In certain embodiments, an anti-CD3 antibody for use in a method of treatment is provided. In

certain embodiments, the invention provides an anti-CD3 antibody for use in a method of treating an individual having a cell proliferative disorder or an autoimmune disorder comprising administering to the individual an effective amount of the anti-CD3 antibody. In one such embodiment, the method further comprises administering to the individual an effective amount of at least one additional therapeutic agent, for example, as described below. In further embodiments, the invention provides an anti-CD3 antibody for use in enhancing immune function in an individual having a cell proliferative disorder or an autoimmune disorder. In certain embodiments, the invention provides an anti-CD3 antibody for use in a method of enhancing immune function in an individual having a cell proliferative disorder or an autoimmune disorder comprising administering to the individual an effective amount of the anti-CD3 antibody to activate effector cells (e.g., T cells, e.g., CD8+ and/or CD4+ T cells including Tregs), expand (increase) an effector cell population, reduce a target cell (e.g., a cell expressing a second biological molecule recognized by an anti-CD3 antibody of the invention, such as a bispecific TDB antibody of the invention) population, and/or kill a target cell (e.g., target tumor cell). An “individual” according to any of the above embodiments may be a human.

[0280] In a further aspect, the invention provides for the use of an anti-CD3 antibody in the manufacture or preparation of a medicament. In one embodiment, the medicament is for treatment of a cell proliferative disorder (e.g., cancer) or an autoimmune disorder (e.g., arthritis, rheumatoid arthritis, colitis, inflammatory bowel disease, autoimmune type I diabetes, etc.). In a further embodiment, the medicament is for use in a method of treating a cell proliferative disorder or an autoimmune disorder comprising administering to an individual having a cell proliferative disorder or an autoimmune disorder an effective amount of the medicament. In one such embodiment, the method further comprises administering to the individual an effective amount of at least one additional therapeutic agent, for example, as described below. In a further embodiment, the medicament is for activating effector cells (e.g., T cells, e.g., CD8+ and/or CD4+ T cells including Tregs), expanding (increasing) an effector cell population, reducing a target cell (e.g., a cell expressing a second biological molecule recognized by an anti-CD3 antibody of the invention, such as a bispecific TDB antibody of the invention) population, and/or killing target cells (e.g., target tumor cells) in the individual. In a further embodiment, the medicament is for use in a method of enhancing immune function in an individual having a cell proliferative disorder or an autoimmune disorder comprising administering to the individual an

amount effective of the medicament to activate effector cells (e.g., T cells, e.g., CD8+ and/or CD4+ T cells), expand (increase) an effector cell population, reduce a target cell (e.g., a cell expressing a second biological molecule recognized by an anti-CD3 antibody of the invention, such as a bispecific TDB antibody of the invention) population, and/or kill a target cell (e.g., target tumor cell). An “individual” according to any of the above embodiments may be a mammal and, in particular, a human.

[0281] In a further aspect, the invention provides a method for treating a disorder comprising a proliferative disorder, an oncological disorder, an immune-oncological disorder, a neurological disorder, a cognitive disorder, a neurodegenerative disorder, an autoimmune disorder. In one embodiment, the method comprises administering to an individual having such disorder an effective amount of an anti-CD3 antibody. In one such embodiment, the method further comprises administering to the individual an effective amount of at least one additional therapeutic agent, for example, as described below. An “individual” according to any of the above embodiments may be a mammal and, in particular, a human.

[0282] In a further aspect, the invention provides a method for enhancing immune function in an individual having a disorder in an individual having such disorder. In one embodiment, the method comprises administering to the individual an effective amount of an anti-CD3 antibody to activate effector cells (e.g., T cells, e.g., CD8+ and/or CD4+ T cells), expand (increase) an effector cell population, reduce a target cell population, and/or kill a target cell (e.g., target tumor cell). In one embodiment, an “individual” is a mammal and, in particular, a human.

[0283] In a further aspect, the invention provides a method for treating a hematological cancer, such as a B cell cancer (for example, mature B-cell lymphoma) by administering an effective amount of an anti-CD3 antibody of the invention, such as a bispecific TDB antibody of the invention, such as an anti-B cell targeting TDB, such as a CD20-TDB having an anti-CD3 arm and an anti-CD20 arm. In a further aspect of the embodiment, the mature B-cell lymphoma is a Non-Hodgkin's Lymphoma (NHL). In a further aspect of the embodiment, the NHL is selected from the group comprising: germinal-center B-cell-like (GCB) DLBCL, activated B-cell-like (ABC) DLBCL, follicular lymphoma (FL), mantle cell lymphoma (MCL), acute myeloid leukemia (AML), chronic lymphoid leukemia (CLL), marginal zone lymphoma (MZL),

small lymphocytic leukemia (SLL), lymphoplasmacytic lymphoma (LL), Waldenstrom macroglobulinemia (WM), central nervous system lymphoma (CNSL), Burkitt's lymphoma (BL), B-cell prolymphocytic leukemia, Splenic marginal zone lymphoma, Hairy cell leukemia, Splenic lymphoma/leukemia, unclassifiable, Splenic diffuse red pulp small B-cell lymphoma, Hairy cell leukemia variant, Waldenström macroglobulinemia, Heavy chain diseases, α Heavy chain disease, γ Heavy chain disease, μ Heavy chain disease, Plasma cell myeloma, Solitary plasmacytoma of bone, Extravascular plasmacytoma, Extranodal marginal zone lymphoma of mucosa-associated lymphoid tissue (MALT lymphoma), Nodal marginal zone lymphoma, Pediatric nodal marginal zone lymphoma, Pediatric follicular lymphoma, Primary cutaneous follicle centre lymphoma, T-cell/histiocyte rich large B-cell lymphoma, Primary DLBCL of the CNS, Primary cutaneous DLBCL, leg type, EBV-positive DLBCL of the elderly, DLBCL associated with chronic inflammation, Lymphomatoid granulomatosis, Primary mediastinal (thymic) large B-cell lymphoma, Intravascular large B-cell lymphoma, ALK-positive large B-cell lymphoma, Plasmablastic lymphoma, Large B-cell lymphoma arising in HHV8-associated multicentric Castleman disease, Primary effusion lymphoma: B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and Burkitt lymphoma, and B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and classical Hodgkin lymphoma. In a preferred embodiment of the invention, the method comprises treating a cancer comprising germinal-center B-cell-like (GCB) DLBCL, activated B-cell-like (ABC) DLBCL, follicular lymphoma (FL), mantle cell lymphoma (MCL), acute myeloid leukemia (AML), chronic lymphoid leukemia (CLL), marginal zone lymphoma (MZL), small lymphocytic leukemia (SLL), lymphoplasmacytic lymphoma (LL), Waldenstrom macroglobulinemia (WM), central nervous system lymphoma (CNSL), or Burkitt's lymphoma (BL).

[0284] In one embodiment, the method comprises administering to an individual having such a hematological cancer (for example, B cell cancer, for example, B cell lymphoma) an effective amount of an anti-CD3 antibody of the invention, such as a bispecific TDB antibody, such as a CD20 TDB comprising an anti-CD20 targeting arm and an anti-CD3 targeting arm. In other embodiments, a CD20 TDB is co-administered with one or more additional therapeutic agents. In one embodiment, the therapeutic agent is an antibody targeting CD20. In one embodiment, a CD20 TDB is co-administered with one or more antibodies targeting CD20

selected from the chimeric monoclonal CD20 antibody, rituximab (Rituxan®) or the monoclonal CD20 antibody, obinutuzumab (Gazyva®). In one embodiment, a CD20 TDB is co-administered with rituximab. In one embodiment, a CD20 TDB is co-administered with obinutuzumab. In one embodiment, a CD20 TDB is co-administered with obinutuzumab and rituximab.

[0285] In one further embodiment, the anti-CD3 antibody of the invention (for example, the CD20 TDB), with or without a CD20 monoclonal antibody, is administered with a further chemotherapy agent and/or an antibody-drug conjugate (ADC). In one embodiment, a CD20 TDB is co-administered with one or more additional chemotherapy agents selected from cyclophosphamide, doxorubicin, vincristine, and prednisolone (CHOP). In one embodiment, a CD20 TDB is co-administered with an ADC. In one embodiment, a CD20 TDB is co-administered with CHOP, wherein vincristine is replaced with an ADC. In one embodiment, a CD20 TDB is co-administered with an ADC selected from an anti-CD79b antibody drug conjugate (such as anti-CD79b-MC-vc-PAB-MMAE or the anti-CD79b antibody drug conjugate described in any one of U.S. Pat. No. 8,088,378 and/or US 2014/0030280, or polatuzumab vedotin), an anti-CD19 antibody drug conjugate, an anti-CD22 antibody drug conjugate, an anti-CD45 antibody drug conjugate, and an anti-CD32 drug conjugate.

[0286] In one other embodiment the therapeutic agent is a biological modifier. In one embodiment, a CD20 TDB is co-administered with one or more biological modifiers selected from a BCL-2 inhibitor (such as GDC-0199/ABT-199), lenalidomide (Revlimid®), a PI3K-delta inhibitor (such as idelalisib (Zydelig®)), a PD-1 axis binding antagonist, an agonist, e.g., agonist antibody, directed against an activating co-stimulatory molecule, e.g., CD40, CD226, CD28, OX40 (e.g., AgonOX), GITR, CD137 (also known as TNFRSF9, 4-1 BB, or ILA), CD27 (e.g., CDX-1127), HVEM, or CD127, an antagonist, e.g., antagonist antibody, directed against an inhibitory co-stimulatory molecule, e.g., CTLA-4 (also known as CD152), PD-1, TIM-3, BTLA, VISTA, LAG-3, B7-H3, B7-H4, IDO (e.g., 1-methyl-D-tryptophan (also known as 1-D-MT)), TIGIT, MICA/B, GITR (e.g., TRX518) or arginase, ipilimumab (also known as MDX-010, MDX-101, or Yervoy®), tremelimumab (also known as ticilimumab or CP-675,206, urelumab (also known as BMS-663513), MGA271, an antagonist directed against a TGF beta, e.g., metelimumab (also known as CAT-192), fresolimumab (also known as GC1008), LY2157299k, and an adoptive transfer of a T cell (e.g., a cytotoxic T cell or CTL) expressing a chimeric

antigen receptor (CAR), e.g., adoptive transfer of a T cell comprising a dominant-negative TGF beta receptor, e.g., a dominant-negative TGF beta type II receptor.

[0287] In one embodiment, a CD20 TDB is co-administered with rituximab and one or more chemotherapy agents. In one such embodiment, a CD20 TDB is co-administered with rituximab and CHOP. In one embodiment, a CD20 TDB is co-administered with rituximab and an ADC. In one embodiment, a CD20 TDB is co-administered with rituximab and CHOP, wherein vincristine is replaced with an ADC. In one embodiment, a CD20 TDB is co-administered with an ADC selected from an anti-CD79b antibody drug conjugate (such as anti-CD79b-MC-vc-PAB-MMAE or the anti-CD79b antibody drug conjugate described in any one of U.S. Pat. No. 8,088,378 and/or US 2014/0030280, or polatuzumab vedotin), an anti-CD19 antibody drug conjugate, an anti-CD22 antibody drug conjugate, an anti-CD45 antibody drug conjugate, and an anti-CD32 drug conjugate. In one embodiment, a CD20 TDB is co-administered with rituximab and one or more biological modifiers selected from a BCL-2 inhibitor (such as GDC-0199/ABT-199), lenalidomide (Revlimid®), a PI3K-delta inhibitor (such as idelalisib (Zydelig®)), a PD-1 axis binding antagonist, an agonist, e.g., agonist antibody, directed against an activating co-stimulatory molecule, e.g., CD40, CD226, CD28, OX40 (e.g., AgonOX), GITR, CD137 (also known as TNFRSF9, 4-1 BB, or ILA), CD27 (e.g., CDX-1127), HVEM, or CD127, an antagonist, e.g., antagonist antibody, directed against an inhibitory co-stimulatory molecule, e.g., CTLA-4 (also known as CD152), PD-1, TIM-3, BTLA, VISTA, LAG-3, B7-H3, B7-H4, IDO (e.g., 1-methyl-D-tryptophan (also known as 1-D-MT)), TIGIT, MICA/B, GITR (e.g., TRX518) or arginase, ipilimumab (also known as MDX-010, MDX-101, or Yervoy®), tremelimumab (also known as ticilimumab or CP-675,206, urelumab (also known as BMS-663513), MGA271, an antagonist directed against a TGF beta, e.g., metelimumab (also known as CAT-192), fresolimumab (also known as GC1008), LY2157299k, and an adoptive transfer of a T cell (e.g., a cytotoxic T cell or CTL) expressing a chimeric antigen receptor (CAR), e.g., adoptive transfer of a T cell comprising a dominant-negative TGF beta receptor, e.g., a dominant-negative TGF beta type II receptor.

[0288] In one embodiment, a CD20 TDB is co-administered with rituximab, one or more chemotherapy agents, and one or more biological modifiers selected from a BCL-2 inhibitor (such as GDC-0199/ABT-199), lenalidomide (Revlimid®), a PI3K-delta inhibitor (such as

idelalisib (Zydelig®)), a PD-1 axis binding antagonist, an agonist, e.g., agonist antibody, directed against an activating co-stimulatory molecule, e.g., CD40, CD226, CD28, OX40 (e.g., AgonOX), GITR, CD137 (also known as TNFRSF9, 4-1 BB, or ILA), CD27 (e.g., CDX-1127), HVEM, or CD127, an antagonist, e.g., antagonist antibody, directed against an inhibitory co-stimulatory molecule, e.g., CTLA-4 (also known as CD152), PD-1, TIM-3, BTLA, VISTA, LAG-3, B7-H3, B7-H4, IDO (e.g., 1-methyl-D-tryptophan (also known as 1-D-MT)), TIGIT, MICA/B, GITR (e.g., TRX518) or arginase, ipilimumab (also known as MDX-010, MDX-101, or Yervoy®), tremelimumab (also known as ticilimumab or CP-675,206, urelumab (also known as BMS-663513), MGA271, an antagonist directed against a TGF beta, e.g., metelimumab (also known as CAT-192), fresolimumab (also known as GC1008), LY2157299k, and an adoptive transfer of a T cell (e.g., a cytotoxic T cell or CTL) expressing a chimeric antigen receptor (CAR), e.g., adoptive transfer of a T cell comprising a dominant-negative TGF beta receptor, e.g., a dominant-negative TGF beta type II receptor.

[0289] In one embodiment, a CD20 TDB is co-administered with rituximab, an ADC, and one or more biological modifiers selected from a BCL-2 inhibitor (such as GDC-0199/ABT-199), lenalidomide (Revlimid®), a PI3K-delta inhibitor (such as idelalisib (Zydelig®)), a PD-1 axis binding antagonist, an agonist, e.g., agonist antibody, directed against an activating co-stimulatory molecule, e.g., CD40, CD226, CD28, OX40 (e.g., AgonOX), GITR, CD137 (also known as TNFRSF9, 4-1 BB, or ILA), CD27 (e.g., CDX-1127), HVEM, or CD127, an antagonist, e.g., antagonist antibody, directed against an inhibitory co-stimulatory molecule, e.g., CTLA-4 (also known as CD152), PD-1, TIM-3, BTLA, VISTA, LAG-3, B7-H3, B7-H4, IDO (e.g., 1-methyl-D-tryptophan (also known as 1-D-MT)), TIGIT, MICA/B, GITR (e.g., TRX518) or arginase, ipilimumab (also known as MDX-010, MDX-101, or Yervoy®), tremelimumab (also known as ticilimumab or CP-675,206, urelumab (also known as BMS-663513), MGA271, an antagonist directed against a TGF beta, e.g., metelimumab (also known as CAT-192), fresolimumab (also known as GC1008), LY2157299k, and an adoptive transfer of a T cell (e.g., a cytotoxic T cell or CTL) expressing a chimeric antigen receptor (CAR), e.g., adoptive transfer of a T cell comprising a dominant-negative TGF beta receptor, e.g., a dominant-negative TGF beta type II receptor.

[0290] In one embodiment, a CD20 TDB is co-administered with obinutuzumab and one or more chemotherapy agents. In one embodiment, a CD20 TDB is co-administered with obinutuzumab and CHOP. In one embodiment, a CD20 TDB is co-administered with obinutuzumab and an ADC. In one embodiment, a CD20 TDB is co-administered with obinutuzumab and CHOP, wherein vincristine is replaced with an ADC. In one embodiment, a CD20 TDB is co-administered with an ADC selected from an anti-CD79b antibody drug conjugate (such as anti-CD79b-MC-vc-PAB-MMAE or the anti-CD79b antibody drug conjugate described in any one of U.S. Pat. No. 8,088,378 and/or US 2014/0030280, or polatuzumab vedotin), an anti-CD19 antibody drug conjugate, an anti-CD22 antibody drug conjugate, an anti-CD45 antibody drug conjugate, and an anti-CD32 drug conjugate. In one embodiment, a CD20 TDB is co-administered with obinutuzumab and one or more biological modifiers selected from a BCL-2 inhibitor (such as GDC-0199/ABT-199), lenalidomide (Revlimid®), a PI3K-delta inhibitor (such as idelalisib (Zydelig®)), a PD-1 axis binding antagonist, an agonist, e.g., agonist antibody, directed against an activating co-stimulatory molecule, e.g., CD40, CD226, CD28, OX40 (e.g., AgonOX), GITR, CD137 (also known as TNFRSF9, 4-1 BB, or ILA), CD27 (e.g., CDX-1127), HVEM, or CD127, an antagonist, e.g., antagonist antibody, directed against an inhibitory co-stimulatory molecule, e.g., CTLA-4 (also known as CD152), PD-1, TIM-3, BTLA, VISTA, LAG-3, B7-H3, B7-H4, IDO (e.g., 1-methyl-D-tryptophan (also known as 1-D-MT)), TIGIT, MICA/B, GITR (e.g., TRX518) or arginase, ipilimumab (also known as MDX-010, MDX-101, or Yervoy®), tremelimumab (also known as ticilimumab or CP-675,206, urelumab (also known as BMS-663513), MGA271, an antagonist directed against a TGF beta, e.g., metelimumab (also known as CAT-192), fresolimumab (also known as GC1008), LY2157299k, and an adoptive transfer of a T cell (e.g., a cytotoxic T cell or CTL) expressing a chimeric antigen receptor (CAR), e.g., adoptive transfer of a T cell comprising a dominant-negative TGF beta receptor, e.g., a dominant-negative TGF beta type II receptor.

[0291] In one embodiment, a CD20 TDB is co-administered with obinutuzumab, an ADC, and one or more biological modifiers selected from a BCL-2 inhibitor (such as GDC-0199/ABT-199), lenalidomide (Revlimid®), a PI3K-delta inhibitor (such as idelalisib (Zydelig®)), a PD-1 axis binding antagonist, an agonist, e.g., agonist antibody, directed against an activating co-stimulatory molecule, e.g., CD40, CD226, CD28, OX40 (e.g., AgonOX), GITR, CD137 (also known as TNFRSF9, 4-1 BB, or ILA), CD27 (e.g., CDX-1127), HVEM, or CD127,

an antagonist, e.g., antagonist antibody, directed against an inhibitory co-stimulatory molecule, e.g., CTLA-4 (also known as CD152), PD-1, TIM-3, BTLA, VISTA, LAG-3, B7-H3, B7-H4, IDO (e.g., 1-methyl-D-tryptophan (also known as 1-D-MT)), TIGIT, MICA/B, GITR (e.g., TRX518) or arginase, ipilimumab (also known as MDX-010, MDX-101, or Yervoy®), tremelimumab (also known as ticilimumab or CP-675,206, urelumab (also known as BMS-663513), MGA271, an antagonist directed against a TGF beta, e.g., metelimumab (also known as CAT-192), fresolimumab (also known as GC1008), LY2157299k, and an adoptive transfer of a T cell (e.g., a cytotoxic T cell or CTL) expressing a chimeric antigen receptor (CAR), e.g., adoptive transfer of a T cell comprising a dominant-negative TGF beta receptor, e.g., a dominant-negative TGF beta type II receptor.

[0292] In a further aspect of the invention, the additional therapy comprises an anti-CD20 antibody. In one embodiment, the anti-CD20 antibody is rituximab. In one embodiment, the anti-CD20 antibody is a humanized B-Ly1 antibody. In one embodiment, the humanized B-Ly1 antibody is obinituzumab. In one embodiment, the anti-CD20 antibody is ofatumumab, ublituximab, and/or ibritumomab tiuxetan.

[0293] In a further aspect of the invention, the additional therapy comprises an alkylating agent. In one embodiment, the alkylating agent is 4-[5-[Bis(2-chloroethyl)amino]-1-methylbenzimidazol-2-yl]butanoic acid and salts thereof. In one embodiment, the alkylating agent is bendamustine.

[0294] In a further aspect of the invention, the additional therapy comprises a BCL-2 inhibitor. In one embodiment, the BCL-2 inhibitor is 4-(4-{[2-(4-chlorophenyl)-4,4-dimethylcyclohex-1-en-1-yl]methyl}piperazin-1-yl)-N-({3-nitro-4-[(tetrahydro-2H-pyran-4-ylmethyl)amino]phenyl}sulfonyl)-2-(1H-pyrrolo[2,3-b]pyridin-5-yloxy)benzamide and salts thereof. In one embodiment, the BCL-2 inhibitor is venetoclax (CAS#: 1257044-40-8).

[0295] In a further aspect of the invention, the additional therapy comprises a phosphoinositide 3-kinase (PI3K) inhibitor. In one embodiment, the PI3K inhibitor inhibits delta isoform PI3K (i.e., P1106). In some embodiments, the PI3K inhibitor is 5-Fluoro-3-phenyl-2-[(1S)-1-(7H-purin-6-ylamino)propyl]-4(3H)-quinazolinone and salts thereof. In some embodiments, the PI3K inhibitor is idelalisib (CAS#: 870281-82-6). In one embodiment, the PI3K inhibitor inhibits alpha and delta isoforms of PI3K. In some embodiments, the PI3K

inhibitor is 2-{3-[2-(1-Isopropyl-3-methyl-1H-1,2,4-triazol-5-yl)-5,6-dihydrobenzo[f]imidazo[1,2-d][1,4]oxazepin-9-yl]-1H-pyrazol-1-yl}-2-methylpropanamide and salts thereof.

[0296] In a further aspect of the invention, the additional therapy comprises a Bruton's tyrosine kinase (BTK) inhibitor. In one embodiment, the BTK inhibitor is 1-[(3R)-3-[4-Amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl]piperidin-1-yl]prop-2-en-1-one and salts thereof. In one embodiment, the BTK inhibitor is ibrutinib (CAS#: 936563-96-1).

[0297] In a further aspect of the invention, the additional therapy comprises thalidomide or a derivative thereof. In one embodiment, the thalidomide or a derivative thereof is (RS)-3-(4-Amino-1-oxo 1,3-dihydro-2H-isoindol-2-yl)piperidine-2,6-dione and salts thereof. In one embodiment, the thalidomide or a derivative thereof is lendalidomide (CAS#: 191732-72-6).

[0298] In a further aspect of the invention, the additional therapy comprises one or more of cyclophosphamide, doxorubicin, vincristine, or prednisolone (CHOP). In one embodiment, the additional therapy further comprises an anti-CD20 antibody as described above (e.g., GA-101 and/or Rituxan®). Any of the above methods and therapies may be used, without limitation, for any cancer, including, for example, treatment of a B-cell cancer or breast cancer.

[0299] In a further aspect, the invention provides a method for treating HER2-positive cancers. In one embodiment, the method comprises administering to an individual having such a cancer an effective amount of an anti-HER2 antibody of the invention, such as a bispecific TDB antibody with an anti-HER2 targeting arm and an anti-CD3 targeting arm. In a preferred embodiment, the HER2-TDB possesses an acceptable toxicity profile when administered in an effective dose in a patient. In one embodiment, the CD3 arm of the HER2-TDB with an acceptable toxicity profile is a low affinity CD3 arm. In one embodiment, the CD3 arm of the HER2-TDB with an acceptable toxicity profile is 40G5c.

[0300] In a preferable embodiment, the HER2-positive cancer is a HER2-positive breast cancer or HER2-positive gastric cancer. In one embodiment, a HER2 TDB is co-administered with one or more additional therapeutic agents that target the HER pathway. In one embodiment, the therapeutic agent that targets the HER pathway is selected from an EGFR inhibitor, a HER2 inhibitor, a HER3 inhibitor, and/or a HER4 inhibitor. In one embodiment, a HER2 TDB is co-

administered with one or more additional therapeutic agents selected from trastuzumab (Herceptin®), T-DM1 (Kadcyla®) and pertuzumab (Perjeta®). In one embodiment, a HER2 TDB is co-administered with trastuzumab. In one embodiment, a HER2 TDB is co-administered with T-DM1. In one embodiment, a HER2 TDB is co-administered with pertuzumab. In one embodiment, a HER2 TDB is co-administered with trastuzumab and pertuzumab. In one embodiment, a HER2 TDB is co-administered with T-DM1 and pertuzumab.

[0301] In a further aspect, the invention provides pharmaceutical formulations comprising any of the anti-CD3 antibodies provided herein, e.g., for use in any of the above therapeutic methods. In one embodiment, a pharmaceutical formulation comprises any of the anti-CD3 antibodies provided herein and a pharmaceutically acceptable carrier. In another embodiment, a pharmaceutical formulation comprises any of the anti-CD3 antibodies provided herein and at least one additional therapeutic agent, for example, as described herein.

[0302] Antibodies of the invention can be used either alone or in combination with other agents in a therapy. For instance, an antibody of the invention may be co-administered with at least one additional therapeutic agent. In certain embodiments, an additional therapeutic agent is a chemotherapeutic agent, growth inhibitory agent, cytotoxic agent, agent used in radiation therapy, anti-angiogenesis agent, apoptotic agent, anti-tubulin agent, or other agent, such as a epidermal growth factor receptor (EGFR) antagonist (e.g., a tyrosine kinase inhibitor), HER1/EGFR inhibitor (e.g., erlotinib (Tarceva™)), platelet derived growth factor inhibitor (e.g., Gleevec™ (Imatinib Mesylate)), a COX-2 inhibitor (e.g., celecoxib), interferon, cytokine, antibody other than the anti-CD3 antibody of the invention, such as an antibody that bind to one or more of the following targets ErbB2, ErbB3, ErbB4, PDGFR-beta, BlyS, APRIL, BCMA VEGF, or VEGF receptor(s), TRAIL/Apo2, PD-1, PD-L1, PD-L2, or another bioactive or organic chemical agent.

[0303] In some embodiments, the invention provides a method wherein the additional therapeutic agent is a glucocorticoid. In one embodiment, the glucocorticoid is dexamethasone.

[0304] Such combination therapies noted above encompass combined administration (where two or more therapeutic agents are included in the same or separate formulations), and separate administration, in which case, administration of the antibody of the invention can occur prior to, simultaneously, and/or following, administration of the additional therapeutic agent or

agents. In one embodiment, administration of the anti-CD3 antibody and administration of an additional therapeutic agent occur within about one month, or within about one, two or three weeks, or within about one, two, three, four, five, or six days, of each other. Anti-CD3 antibodies of the invention (e.g., bispecific anti-CD3 antibodies of the invention that bind to CD3 and a second biological molecule, e.g., a cell surface antigen, e.g., a tumor antigen, such as a TDB antibody of the invention or variant thereof) can also be used in combination with radiation therapy.

[0305] An antibody of the invention (and/or any additional therapeutic agent) can be administered by any suitable means, including parenteral, intrapulmonary, and intranasal, and, if desired for local treatment, intralesional administration. Parenteral infusions include intramuscular, intravenous, intraarterial, intraperitoneal, or subcutaneous administration. In some embodiments, the antibody is administered by subcutaneous administration. In some embodiments, an anti-CD3 antibody administered by subcutaneous injection exhibits a less toxic response in a patient than the same anti-CD3 antibody administered by intravenous injection. Dosing can be by any suitable route, for example, by injections, such as intravenous or subcutaneous injections, depending in part on whether the administration is brief or chronic. Various dosing schedules including but not limited to single or multiple administrations over various time-points, bolus administration, and pulse infusion are contemplated herein.

[0306] Antibodies of the invention would be formulated, dosed, and administered in a fashion consistent with good medical practice. Factors for consideration in this context include the particular disorder being treated, the particular mammal being treated, the clinical condition of the individual patient, the cause of the disorder, the site of delivery of the agent, the method of administration, the scheduling of administration, and other factors known to medical practitioners. The antibody need not be, but is optionally formulated with one or more agents currently used to prevent or treat the disorder in question. The effective amount of such other agents depends on the amount of antibody present in the formulation, the type of disorder or treatment, and other factors discussed above. These are generally used in the same dosages and with administration routes as described herein, or about from 1 to 99% of the dosages described herein, or in any dosage and by any route that is empirically/clinically determined to be appropriate.

[0307] For the prevention or treatment of disease, the appropriate dosage of an antibody of the invention (when used alone or in combination with one or more other additional therapeutic agents) will depend on the type of disease to be treated, the type of antibody, the severity and course of the disease, whether the antibody is administered for preventive or therapeutic purposes, previous therapy, the patient's clinical history and response to the antibody, and the discretion of the attending physician. The antibody is suitably administered to the patient at one time or over a series of treatments.

[0308] As a general proposition, the therapeutically effective amount of the anti-CD3 antibody administered to human will be in the range of about 0.01 to about 100 mg/kg of patient body weight whether by one or more administrations. In some embodiments, the antibody used is about 0.01 to about 45 mg/kg, about 0.01 to about 40 mg/kg, about 0.01 to about 35 mg/kg, about 0.01 to about 30 mg/kg, about 0.01 to about 25 mg/kg, about 0.01 to about 20 mg/kg, about 0.01 to about 15 mg/kg, about 0.01 to about 10 mg/kg, about 0.01 to about 5 mg/kg, or about 0.01 to about 1 mg/kg administered daily, for example. In one embodiment, an anti-CD3 antibody described herein is administered to a human at a dose of about 100 mg, about 200 mg, about 300 mg, about 400 mg, about 500 mg, about 600 mg, about 700 mg, about 800 mg, about 900 mg, about 1000 mg, about 1100 mg, about 1200 mg, about 1300 mg or about 1400 mg on day 1 of 21-day cycles. The dose may be administered as a single dose or as multiple doses (e.g., 2 or 3 doses), such as infusions. For repeated administrations over several days or longer, depending on the condition, the treatment would generally be sustained until a desired suppression of disease symptoms occurs. One exemplary dosage of the antibody would be in the range from about 0.05 mg/kg to about 10 mg/kg. Thus, one or more doses of about 0.5 mg/kg, 2.0 mg/kg, 4.0 mg/kg, or 10 mg/kg (or any combination thereof) may be administered to the patient. Such doses may be administered intermittently, for example, every week or every three weeks (e.g., such that the patient receives from about two to about twenty, or, for example, about six doses of the anti-CD3 antibody). An initial higher loading dose, followed by one or more lower doses may be administered. The progress of this therapy is easily monitored by conventional techniques and assays.

[0309] In some embodiments, the methods may further comprise an additional therapy. The additional therapy may be radiation therapy, surgery, chemotherapy, gene therapy, DNA

therapy, viral therapy, RNA therapy, immunotherapy, bone marrow transplantation, nanotherapy, monoclonal antibody therapy, or a combination of the foregoing. The additional therapy may be in the form of adjuvant or neoadjuvant therapy. In some embodiments, the additional therapy is the administration of small molecule enzymatic inhibitor or anti-metastatic agent. In some embodiments, the additional therapy is the administration of side-effect limiting agents (e.g., agents intended to lessen the occurrence and/or severity of side effects of treatment, such as anti-nausea agents, etc.). In some embodiments, the additional therapy is radiation therapy. In some embodiments, the additional therapy is surgery. In some embodiments, the additional therapy is a combination of radiation therapy and surgery. In some embodiments, the additional therapy is gamma irradiation. In some embodiments, the additional therapy may be a separate administration of one or more of the therapeutic agents described above.

[0310] In another aspect of the invention, an article of manufacture containing materials useful for the treatment, prevention and/or diagnosis of the disorders described above is provided. The article of manufacture comprises a container and a label or package insert on or associated with the container. Suitable containers include, for example, bottles, vials, syringes, IV solution bags, etc. The containers may be formed from a variety of materials such as glass or plastic. The container holds a composition which is by itself or combined with another composition effective for treating, preventing and/or diagnosing the condition and may have a sterile access port (for example the container may be an intravenous solution bag or a vial having a stopper pierceable by a hypodermic injection needle). At least one active agent in the composition is an antibody of the invention. The label or package insert indicates that the composition is used for treating the condition of choice. Moreover, the article of manufacture may comprise (a) a first container with a composition contained therein, wherein the composition comprises an antibody of the invention; and (b) a second container with a composition contained therein, wherein the composition comprises a further cytotoxic or otherwise therapeutic agent. The article of manufacture in this embodiment of the invention may further comprise a package insert indicating that the compositions can be used to treat a particular condition. Alternatively, or additionally, the article of manufacture may further comprise a second (or third) container comprising a pharmaceutically-acceptable buffer, such as bacteriostatic water for injection (BWHI), phosphate-buffered saline, Ringer's solution and dextrose solution. It may further

include other materials desirable from a commercial and user standpoint, including other buffers, diluents, filters, needles, and syringes.

EXAMPLES

[0311] Example 1: Isolation of anti-CD3 antibodies from immunized mice, and generation and isolation of humanized and optimized variants

[0312] Immunizations were carried out as in Figure 1. Briefly, balb/c mice were immunized with a primary immunization with 1.0×10^6 human T cells (which express CD3 epsilon) and Sigma® adjuvant in each of ten mice. Twenty-eight days after the primary immunization, a first immunization boost with 1.0×10^6 human T cells (which express CD3 epsilon) and Sigma® adjuvant was performed in each of the ten mice. Twenty-eight days after the first immunization boost, the ten mice were given a second immunization boost with 1.5×10^6 T cells (which express CD3 epsilon) and Sigma® adjuvant; however, for this second boost, five of the mice received human T cells (which express CD3 epsilon) and the other five mice received cynomolgus (cyno) T cells (which express cyno CD3 epsilon). Forty-two days after the second immunization boost, all ten mice received a third immunization boost of fifty micrograms of denatured recombinant cyno CD3epsilon protein mixed with seven micrograms of a peptide-BSA conjugate in which the peptide corresponded to an N-terminal peptide of the native cyno CD3 epsilon protein. Seven days after the third immunization boost, the ten mice were sacrificed and spleens were harvested for B cell sorting.

[0313] Splenic B cells obtained from the harvested spleens were stained with 50 nM recombinant, biotinylated CD3epsilon using routine methods (see, e.g., Tiller *et al*, *J Immunol Methods*, Vol. **329**, pages 112-124, doi:10.1016/j.jim.2007.09.017 (2008). CD3epsilon-specific B cells were single-cell sorted by flow cytometry using standard methods (see, e.g., Tiller *et al*, *J Immunol Methods*, Vol. **329**, pages 112-124, doi:10.1016/j.jim.2007.09.017 (2008); WO 2009/036379; WO 2010/105256; and WO 2012/009568). Cognate heavy and light chain pairs were amplified by single-cell PCR using a previously described primer set (see, e.g., Tiller *et al*, *J Immunol Methods*, Vol. **329**, pages 112-124, doi:10.1016/j.jim.2007.09.017 (2008). An exemplary flow cytometry-based sorting result is depicted in Figure 2, in which 48 cells were isolated and sorted from each of the cyno-boosted (*middle* flow plot of Figure 2) and human-

boosted (*right* flow plot of Figure 2) sets of mice. Amplicons were confirmed by agarose gel electrophoresis (Figure 3) and transformed into a highly-engineered strain of *Saccharomyces cerevisiae* (see, e.g., Xu et al., *Protein Eng Des Sel.* Vol. 26(10), pages 663-670 (2013) doi: 10.1093/protein/gzt047; Sivasubramanian et al., *MAbs.* Vol. 9(1), pages 29-42 (2017) doi: 10.1080/19420862.2016.1246096; WO 2009/036379; WO 2010/105256; and WO 2012/009568).

[0314] Antibodies were expressed in *Saccharomyces cerevisiae*, purified using standard procedures, and assayed for binding activity (see, e.g., Xu et al., *Protein Eng Des Sel.* Vol. 26(10), pages 663-670 (2013) doi: 10.1093/protein/gzt047; Sivasubramanian et al., *MAbs.* Vol. 9(1), pages 29-42 (2017) doi: 10.1080/19420862.2016.1246096; WO 2009/036379; WO 2010/105256; and WO 2012/009568. Twenty-one clones bound to recombinant human CD3 epsilon (see, e.g., Figure 4A for relative binding affinities, and Figure 4B for antibody identities and sequence information associated with each of the 21 clones). Of these 21 clones, 14 also bound T cell-surface expressed CD3 epsilon (see, collectively, Figures 5, 6, and Figure 7). Of these 14 clones that bind T cell-surface expressed CD3epsilon, six of these were cyno CD3 epsilon-specific (see Figure 5), while eight of these bound both human- and cyno- CD3 epsilon (see Figures 6 and 7). Competitive binding assays showed that all of the CD3 epsilon-binding clones bound to epitopes overlapping that of I2C and did not compete significantly with OKT3 (Figure 8).

[0315] The three highest affinity CD3 binding clones (ADI-15512, ADH-15516, and ADI-16513; see, e.g., Figure 9) were selected for humanization. In that effort, twelve humanized variants were generated for each clone (36 variants in total) and tested for cell binding activity (see Figure 10A for sequence and germline information for each of these variants vs. the respective parents, ADI-15512, ADI-15516, and ADI-16513). Most of the humanized variants showed similar or improved cell binding profiles compared with the chimeric parents (see, e.g., Figures 10B, 10C, and 10D, for comparison of cell binding profiles of humanized variants and chimeric parents of ADI-15512, ADI-15516, and ADI-16513, respectively).

[0316] Six of the humanized variants, ADI-18565, ADI-18576, ADI-18585, ADI-18589, and ADI-18590, were selected for affinity-based optimization based on their binding (see, e.g., Figures 10B, 10C, 10D, 11A, 11B, 11C, and 13) and polyreactivity profiles (see, e.g., Figures 12A and 12B). Affinity maturation was performed by generating libraries of antibody variants

containing mutations in the VH and/or VL of each of the afore-mentioned clones, and selecting for improved binding by flow cytometry (see, e.g., WO 2009/036379; WO 2010/105256; WO 2012/009569; Xu et al., *Protein Eng Des Sel.* Vol. 26(10), pages 663-670 (2013) doi: 10.1093/protein/gzt047; and Sivasubramanian et al., *MAbs.* Vol. 9(1), pages 29-42 (2017) doi: 10.1080/19420862.2016.1246096).

[0317] *Optimization Cycle 1: VH and VK mutagenesis.* For the first optimization cycle (“Cycle 1”), error-prone PCR was performed on both of the antibody VH and VL genes using standard methods and subsequently transformed into yeast using homologous recombination. Briefly, a diversified antibody library was created by introducing stochastic diversity (using standard molecular cloning error-prone PCR techniques) across the heavy and light chain variable domain regions of each antibody. This resulted in a library of roughly 10^8 in size that were ready for selection to enrich for progeny with improved affinity. Selection pressures included human (Hu) and cynomolgus (Cy) CD3 ϵ δ heterodimeric Fc fusion monomer (hereafter Hu CD3 ϵ δ Fc and Cy CD3 ϵ δ Fc, respectively; see Figure 18) antigen titration, biotinylated Hu CD3 ϵ N-terminal peptide (CD3 ϵ N27 and CD3 ϵ N13 having the sequences described in Materials and Methods) antigen titration, and parental antibody Fab competition. Flow cytometry (FACS) methodology was employed to visualize and select, using standard techniques, the desired population to carry forward into additional selection rounds (see, e.g., Chao *et al.* Nature Protocols, 2006, WO 2009/036379; WO 2010/105256; WO 2012/009569; Xu et al., *Protein Eng Des Sel.* Vol. 26(10), pages 663-670 (2013) doi: 10.1093/protein/gzt047; and Sivasubramanian et al., *MAbs.* Vol. 9(1), pages 29-42 (2017) doi: 10.1080/19420862.2016.1246096). After several rounds of enrichment, yeast were plated to obtain colonies representing monoclonal antibody isolates, which were then sequenced by standard Sanger methodology, produced, and characterized as in the humanization selection described above (see, e.g., Figure 14 for a depiction of an exemplary FACS experiment and the resulting output population). Antibodies identified from the output with improved cell binding affinities were subject to a second cycle of mutagenesis and selection using similar methods as those described above.

[0318] *Optimization Cycle 2; HC x LC chain shuffle.* A second effort was undertaken to affinity-mature human/cyno cross-reactive antibodies derived from the ADI-18589 and 18590 lineages (“Cycle 2”; see, e.g., Figure 15 for exemplary FACS experiment and resulting output

population). Briefly, antibody HC and LC were shuffled to create a combinatorial library in yeast for each of the starting parent antibodies and the library was subjected to rounds of affinity pressure similar to Cycle 1. Terminal round output monoclonal antibodies were sequenced, produced, and characterized. All of the clones selected from the second cycle of affinity maturation showed high affinity binding to cell-surface CD3 (see Figure 16), and had mutations in both the VH and VK regions relative to the parent clones (i.e., ADI-18589 and ADI-18590). Each exhibited Fab monovalent affinities to Hu CD3 $\epsilon\delta$ Fc in the 13-142 nM K_D range and Fab monovalent affinities to Cy CD3 $\epsilon\delta$ Fc in the 15-109 nM K_D range as determined by ForteBio Octet BLI measurement.

[0319] In order to ascertain the functional activity of the CD3 binders, a T-cell based IL-2 secretion assay— a measure of T-cell activation – was performed using two exemplary CD3 binders of the invention (ADI-20582 and ADI-20566) in comparison with I2C, an isotype control, and buffer alone (DPBS). The results, depicted in Figure 17, demonstrate that the exemplary CD3 binders elicited robust IL-2 release by CD3+ Jurkat T-cells relative to CD3-control T-cells, at a level meeting or exceeding that observed with the I2C control. Accordingly, CD3 binders of the present invention elicit potent T-cell activation.

[0320] *Optimization Cycle 3; CDR H3 mutagenesis and rational combination.* Subsequently, a single clone (ADI-20580) identified in the Cycle 2 optimization effort was selected for further optimization error (“Cycle 3”) via H3 mutagenesis. H3 mutagenesis libraries were generated using standard oligo-based methods (e.g., NNK-based methods) and transformed into *Saccharomyces cerevisiae* using homologous recombination (see, e.g., Lee et al, *J. Mol. Biol.* Vol. 340, pages 1073-1093 (2004); WO 2009/036379; WO 2010/105256; and WO 2012/009569). Briefly, mutagenic oligonucleotides encoding site saturation (NNK nucleotide) mutagenesis at every pair of residues in combinatorial fashion were used to construct a library of theoretical diversity exceeding 2.6×10^4 (Figure 19). The library was subjected to two rounds of affinity pressure using titration of the CD3 ϵ N13 peptide from 100-10 nM by flow cytometry generally as described above (see Figure 20 for depiction of FACS results). Selected progeny were sequenced, produced, and characterized. Mutations observed in ADI-21970 and ADI-21961 and were rationally combined on the basis of observed affinity improvement. The mutation observed in ADI-21960 was also included based on H3 repeat frequency to generate rational,

combinatorially combined variants based on mutations observed in five selected clones (Figure 22). Several clones showed improved binding affinity and cell staining compared to ADI-20580, while also showing a decrease in polyspecific reactivity (PSR) score (see Figures 21 and 22). ADI-21978 was chosen for scFv conversion and rational engineering of potential sequence degradation motifs.

[0321] *Optimization Cycle 4; rational mutagenesis of potential degradation sequence motifs.* ADI-21978 was observed potential sequence degradation motifs NG (Asn-Gly) and DP (Asp-Pro) in CDR H2, DG (Asp-Gly) in CDR H3, and NS (Asn-Ser) in CDR L1. These sites were rationally mutated to according to the following substitutions: NG -> EG (Glu-Gly) or NA (Asn-Ala), DP -> QP (Gln-Pro) or DA (Asp-Ala), DG -> EG or DA, and NS -> ES (Glu-Ser) or NA. The four sites were combined in a combinatorial matrix and the variant IgG were produced and characterized. Individual site substitutions were well tolerated, particularly mutations of the second position to Ala (i.e. NG->NA, DG->DA, etc.). Comparison of ADI-22523 (all four sequence liability sites) to individual VH Ala substitutions showed a < 2-fold reduction in monovalent (Fab) affinity for Cy CD3εδ and resolution of all four sites had a modest effect on avid (IgG) affinity for Hu CD3εδ (see Figures 23A and 23B). The resulting quadruple Ala variant ADI-25133 (ADI-26906) was used to compose a panel of bispecifics and for further CDR H3 mutagenesis.

[0322] Additionally, ADI-26906 was also converted to an scFv format using the same method as described for ADI-21978 and ADI-21952 and, as with those other scFv conversions, cell binding analysis revealed that conversion was well-tolerated. Optimized scFvs were tested for developability and thermostability.

[0323] *Optimization Cycle 5; CDR H3 mutagenesis focused on DG sequence motif.* ADI-21978 (ADI-22523) was diversified by site-saturation (NNK) mutagenesis targeting the degradation motif DG in CDR H3. In brief, every residue of the H3 was mutated in combination with the first or second position of the Asp-Gly site (Figure 24). A single round of FACS selection using the CD3εN13 peptide at 100 nM and 10 nM was conducted and the output sequenced, produced, and characterized. Only mutation of the Gly residues of the Asp-Gly motif produced binders, and all progeny showed some reduction in binding affinity relative to the parent (ADI-21978 (ADI-22523)).

[0324] *Cycle 6; Affinity modulation by rational combination.* ADI-25133 (ADI-26906) was rationally variegated by a matrix of CDR H2 and H3 sequences known to affect affinity with CDR L1 and L3 sequences known to affect affinity to yield a panel of 68 combinations (Figure 25A). The resulting sequence-confirmed antibodies were produced in yeast and characterized for recombinant antigen and cell binding. Monovalent Fab binding affinity spanned a range of nM- μ M and correlated with cell binding median MFI at 100 nM IgG test concentration (Figures 25B and 25C). IFN γ production from PBMC was measured for both IgG and Fab formats, using two donors.

[0325] Clones derived from Cycles 5 and 6 were then tested for their ability to elicit T-cell stimulation and activation as deduced by measured cytokine levels as described below:

[0326] Cell lines/Primary human cells.

[0327] Frozen human peripheral blood mononuclear cells (PBMC) were purchased from AllCells Inc. (Alameda, CA)

[0328] Fresh peripheral blood mononuclear cells were purified from human whole blood from Scripps blood bank by Ficoll-Hypaque density gradient centrifugation.

[0329] Cell culture materials.

[0330] PBMC were cultured in RPMI-10% FBS consisted of RPMI-1640 serum-free medium supplemented with 10% fetal bovine serum (Hyclone FBS; catalog number SH30071.03IR, GE Healthcare, Logan, Utah), L-glutamine (catalog number 11875-093, ThermoFisher, Waltham, MA), 1% penicillin/streptomycin (catalog number 15070-063, ThermoFisher), 1 mM sodium pyruvate (catalog number 11360-070, ThermoFisher), 10 mM 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES; catalog number 15630080, ThermoFisher), and 1X non-essential amino acid (catalog number 11140-50, ThermoFisher).

[0331] Previously frozen PBMC were quick thawed in 37°C water bath and added to pre-warmed RPMI-10% FBS media. Cells were pelleted at 300x g, re-suspended in pre-warmed media and counted before use.

[0332] **Determination of anti-CD3 clone activation of T cells in PBMCs in soluble IgG1 format and Fab format**

[0333] Cell stimulation procedure

[0334] Provided anti-CD3 IgG1 or anti-CD3 Fab were diluted in RPMI-10% FBS media to 2x final concentration (10 nM and 0.3 nM). Fifty microliters of 2x final concentration antibodies and 50 µL of donor PBMC at 2×10^5 cells/well were added to each well. Unstimulated control has RPMI-10% FBS media only, and positive control clone ADI-22523 and negative control ADI-03847 were also included in separate wells. Plates were incubated at 37°C for 48 hours supernatant was harvested for cytokine analysis.

[0335] Measurement of T cell activation by supernatant cytokine levels

[0336] After 48 hours of incubation, supernatant was collected for cytokine analysis by MesoScale discovery interferon-gamma tissue culture kit according to manufacturer's instruction. Supernatant was analyzed without dilution. Standard curve using recombinant cytokine was included in each plate for calculation of cytokine level in pg/ml.

[0337] Data analysis

[0338] Cytokine measurement by MSD.

Interferon gamma concentration (pg ml^{-1}) in supernatant was extrapolated using standard curve generated in MesoScale Discovery WorkBench software. Interferon gamma concentrations are listed as pg/ml. Antibody affinity data (Fab, IgG) to human CD3εδ was provided and are listed as Molar. Data is provided in the immediately following table (Table 1):

Table 1

ADI clone ID	A4560 0.3nM Fab IFNg (pg ml^{-1})	A4560 0.3nM IgG1 IFNg (pg ml^{-1})	A4560 10nM Fab IFNg (pg ml^{-1})	A4560 10nM IgG1 IFNg (pg ml^{-1})	D5801 0.3nM Fab IFNg (pg ml^{-1})	D5801 0.3nM IgG1 IFNg (pg ml^{-1})	D5801 10nM Fab IFNg (pg ml^{-1})	D5801 10nM IgG1 IFNg (pg ml^{-1})	Fab KD Human CD3εδ-Fc (M) Monovalent	Fab KD Cyno CD3εδ-Fc (M) Monovalent	IgG KD Human CD3εδ-Fc (M) Avid	IgG KD Cyno CD3εδ-Fc (M) Avid
ADI-03847	0	0	0	0	0	0	0	0	N.B.	N.B.	N.B.	N.B.

ADI-22523	0	2293.1 97	148.01 16	4687.9 13	0	8857.2 69	698.88 79	11887. 59	5.9E-09	4.5E-09	2.0E- 10	2.2E -10
ADI-23664	0	2725.7 18	239.83 41	2131.4 18	0	4623.8 14	117.98 67	5317.5 11	8.4E-09	8.9E-09	2.7E- 10	2.8E -10
ADI-23672	0	1905.4 96	56.374 32	2320.2 08	0	4121.7 87	172.22 3	4722.3 99	7.7E-09	8.8E-09	2.5E- 10	2.4E -10
ADI-23673	0	2005.0 52	86.914 75	4193.9 93	0	2627.3 11	185.15 44	8565.4 28	7.6E-09	8.2E-09	2.7E- 10	2.9E -10
ADI-26906	0	3849.8 33	70.527 44	3983.2 37	0	9035.4 43	371.78 09	9707.5 26	7.7E-09	8.1E-09	1.6E- 09	2.5E -10
ADI-26907	0	1484.8 49	57.702 98	5005.1 16	0	7885.6 67	335.92 43	8561.6 89	9.6E-09	1.1E-08	1.8E- 09	3.0E -10
ADI-26908	0	2629.2 34	20.651 5	4618.4 89	0	8357.6 08	257.05 13	7867.7 9	9.1E-09	1.0E-08	1.5E- 09	3.1E -10
ADI-26909	0	3533.8 08	15.252 65	3644.9 66	0	5777.4 94	101.23 96	5639.1 43	1.4E-08	1.6E-08	1.9E- 09	3.2E -10
ADI-26910	0	2128.5 18	37.690 95	3142.9 77	0	5839.2 24	163.20 46	5640.7 8	1.4E-08	1.6E-08	1.4E- 09	2.6E -10
ADI-26912	0	0	0	0	0	0	0	0	1.3E-07	2.1E-07	3.0E- 09	2.0E -09
ADI-26913	0	2235.1 81	0	3599.4 86	0	3239.3 55	0	4880.9 37	3.5E-08	3.8E-08	2.2E- 09	4.0E -10
ADI-26915	0	0	2.5798 92	0	0	0	0	0	1.4E-07	P.F.	3.3E- 09	2.6E -09
ADI-26916	0	0	0	14.776 78	0	0	0	2.5494 8	1.7E-07	1.3E-07	2.9E- 09	1.8E -09
ADI-26917	0	109.18 81	0	895.52 44	0	60.870 33	0	1026.3 13	1.0E-07	1.2E-07	2.6E- 09	1.0E -09
ADI-26918	0	0	0	0	0	0	0	0	1.4E-06	2.7E-07	3.0E- 09	2.2E -09
ADI-26919	0	1221.7 56	0	1529.3 24	0	2607.5 14	0	2959.6 07	5.7E-08	5.4E-08	2.3E- 09	5.9E -10
ADI-26920	0	710.08 84	0	1667.5 36	0	787.94 12	0	1783.7 51	7.6E-08	7.6E-08	3.4E- 09	7.0E -10

ADI-26921	0	0	0	1496.6 88	0	86.263 44	0	964.83 54	9.5E-08	8.9E-08	3.7E-09	9.4E-10
ADI-26924	0	0	0	0	0	0	0	0	2.0E-07	2.8E-07	2.8E-09	2.1E-09
ADI-26925	0	0	0	0	0	0	0	0	N.B.	N.B.	1.1E-08	8.7E-09
ADI-26927	0	0	0	8.8210 52	0	0	0	8.5973 35	1.3E-07	1.5E-07	1.1E-09	1.1E-09
ADI-26928	0	0	0	0	0	0	0	0	N.B.	N.B.	2.8E-09	2.5E-09
ADI-26929	0	0	0	0	0	0	0	0	N.B.	N.B.	1.1E-08	9.7E-09
ADI-26930	0	0	0	0	0	0	0	0	N.B.	N.B.	1.0E-08	8.7E-09
ADI-26932	0	0	0	0	0	0	0	0	N.B.	N.B.	1.6E-08	1.3E-08
ADI-26933	0	1032.9 87	0	2752.2 75	0	660.83 36	0	2100.0 75	5.9E-08	5.5E-08	6.7E-10	5.2E-10
ADI-26938	0	0	0	0	0	0	0	0	N.B.	N.B.	1.0E-08	1.0E-08
ADI-26939	0	0	0	0	0	0	0	0	3.5E-07	2.7E-07	1.9E-09	1.6E-09
ADI-26940	0	0	0	33.396 78	0	0	0	2.8149	1.5E-07	1.5E-07	1.4E-09	1.2E-09
ADI-26941	0	0	0	0	0	0	0	0	1.1E-06	2.2E-07	1.7E-09	2.2E-09
ADI-26942	0	0	0	0	0	0	0	0	N.B.	N.B.	8.5E-09	7.8E-09
ADI-26943	0	0	0	0	0	0	0	0	N.B.	N.B.	7.6E-09	6.6E-09
ADI-26944	0	0	0	0	0	0	0	0	N.B.	N.B.	1.3E-08	1.2E-08
ADI-26945	0	0	0	0	0	0	0	0	N.B.	N.B.	2.0E-08	2.1E-08

ADI-26950	0	0	0	0	0	0	0	0	N.B.	N.B.	N.B.	N.B.
ADI-26954	0	0	0	521.15 72	0	0	0	227.37 43	N.B.	N.B.	N.B.	N.B.
Unstimulated	0	0	0	2.0458 86	0	0	0	0	#N/A	#N/A	#N/A	#N/A

[0339] A subset of the data is provided in graphic representation in Figure 25D. Among other things, a correlation of monovalent affinity with cytokine production was observed for both donors for 10 nM IgG having affinity for Hu and Cy CD3 $\epsilon\delta$ Fc of at least 100 nM. Fab showed low IFN γ production by PBMC at 10 nM, but undetectable IFN γ production at 0.3 nM concentration (Figure 25D).

[0340] *scFv conversion of ADI-21978 (ADI-22523)*. VH and VL were amplified and reassembled by overlap extension PCR to generate a matrix of scFv fused to IgG1 Fc (hereafter referred to as scFv-Fc and depicted in Figure 26A). In brief, the design matrix consisted of the VH/VK or VK/VH orientation, inclusion or exclusion of VH44-VK100 (Kabat numbering) disulfide (DS1) (Brinkmann U. *et al.* PNAS 1993), tether 5 or direct fusion, linker lengths of 15, 20, 25, and 30 amino acids. A modified VH44-VK100 disulfide (DS2) was also explored. Tether and linker sequences consisted of (Gly4Ser)_N repeats. The IgG1 upper hinge includes a Cys220Ser mutation in and scFv fusions were made to Glu216. Twenty-nine scFv-Fc from the ADI-21978 lineage were sequence confirmed, produced, and characterized (Figure 26B). Recombinant CD3 and cell binding analysis revealed that scFv conversion was well tolerated, with 2-4 fold affinity reduction compared to the IgG (Figure 26C). Many of the scFv-Fc designs exhibited a monomeric non-aggregated peak of 85-90% (Figure 26D). Thermal stability analysis by DSF showed that ADI-21978 scFv-Fc were generally stable, showing T_m in the range of 65-69°C (Figure 26E and Figure 26F). The inclusion of DS1 and DS2 yielded scFv-Fc with parent-like HIC retention time, whereas scFv-Fc without DS1/2 had a broad peak profile and delayed retention time (Figure 26G).

[0341] Example 2: Generation of SP34 (anti-CD3) variant antibodies: humanization and optimization SP34

[0342] *Humanization of SP34.* Humanization of SP34 was conducted by screening an initial panel of humanization designs produced in yeast (Figure 27). In brief, 28 designs representing combinations of four humanized VH and seven humanized V κ or V λ were produced in yeast and characterized for binding to Hu CD3 $\epsilon\delta$ and Cy CD3 $\epsilon\delta$ Fc. Due to relatively low expression titers, five selected HuSP34 designs were produced by transient HEK and evaluated for recombinant antigen binding, cell staining, and developability profiles (Figure 27). Of these, ADI-16606 (a combination of HC2 with LC3) was selected for having good binding and the cleanest developability profile, as indicated by AC-SINS and PSR data. Notably, background binding to CD3-expressing Jurkat cells (Jurkat CD3+), Jurkat cells not expressing CD3 (Jurkat CD3-), and Cyno HSC-F was comparable to chimeric SP34 (ChSP34).

[0343] *Affinity optimization from the HuSP34 effort leading to ADI-26956 and related antibody variants.* A first effort was undertaken to affinity-mature the human/cyno cross-reactive humanized anti-CD3 SP34 antibody (HuSP34) ADI-16606 (see Figure 28A for schematic of selection procedure and Figure 28B for exemplary flow cytometry selection plots). Briefly, a diversified antibody library was created by introducing stochastic diversity across the heavy and light chain variable domain regions. This resulted in a library exceeding 10^8 in realized diversity. Briefly, selection pressures for rounds 1 and 2 (R1 and R2) included biotinylated Hu CD3 $\epsilon\delta$ Fc antigen titration from 50-5 nM, with selection of binders from the 10 nM condition gated for increased expression and antigen binding with respect to parent. In a third round (R3) antigen was titrated to 0.2 nM and selected binders, representing affinity-pressured progeny, were plated, sequenced, and produced. In a parallel effort, the R2 outputs were subjected to thermal pressure at R3. In brief, the enriched binding populations were subjected to thermal pressure by incubation of yeast at a range of temperature conditions spanning 53-65°C for 10 min in a thermocycler. After the yeast were cooled to 4°C, 50 nM CD3 ϵ N27 antigen was applied and the optimal condition for sorting was identified. Plasmids were released from sorted yeast using a Zymo Research kit, transformed into electrocompetent *E. coli*, mini-prepped from *E. coli*, and re-transformed into the cycle 1 parent HC or LC strains for V λ and VH mutagenesis, respectively. Affinity and thermal pressures yielded divergent sequence collapse and consensus motifs (Figures 28C and 28D). Unique clones were produced and characterized for Fab and IgG binding to recombinant Hu and Cy CD3 $\epsilon\delta$ Fc antigens, Hu

and Cy cell binding, IL-2 production by Jurkat cells, polyspecific reactivity (PSR), self-interaction propensity (AC-SINS), and thermal stability by DSF.

[0344] *Optimization of HuSP34 Cycle 2; VH x V λ chain shuffle and VH mutagenesis and V λ mutagenesis.* Selected HC and LC from cycle 1 output were shuffled and diversified by error-prone PCR (Figure 29A). Selection were carried out utilizing similar affinity and thermal pressures as cycle 1 (Figure 29B). Unique output sequences were produced and characterized. ADI-20587, ADI-20607, and ADI-20590 were selected for another cycle of optimization.

[0345] *Optimization of HuSP34 Cycle 3; V λ rational combination with 3X VH.* HC from ADI-20587, ADI-20607, and ADI-20590 were used to produce a matrix with 28 rationally-designed LC (Figure 30). The LC combined the most favorable mutations selected in cycles 1 and 2. In brief, V λ mutations that increase thermal stability (F11L, T27A, T74I, A78V, D81E, S84A, and S93N), improve expression (R24G), decrease PSR (N52D), and improve affinity (A89V and L95H) were combined. Sequence-confirmed clones were produced and characterized. ADI-21952, a combination of the HC from ADI-20587 and a designed LC carrying the mutations F11L, R24G, N52D, D81E, S84A, and L95H, was selected for further due to a combination of affinity, cell binding, IL-2 production, thermal stability, and PSR.

[0346] *Optimization of HuSP34 Cycle 4; Rational mutation of potential degradation sequence motifs.* Potential degradation motifs in ADI-21952 were observed in VH FR3, NS (Asn-Ser) and CDR H3, NG (Asn-Gly). These sites were rationally mutated to according to the following substitutions: NG -> EG (Glu-Gly) or NA (Asn-Ala) and NS -> ES (Glu-Ser) or NA. The two sites were combined in a combinatorial matrix and the variant IgG were produced and characterized. Comparison of ADI-21952 (parent) and ADI-23634 and ADI-23637 showed that both rational mutations of the CDR H3 NG site significantly impacted affinity whereas mutations of the FR3 NS site as observed for ADI-23633 and ADI-23636 did not significantly impact properties (Figure 31).

[0347] *Optimization Cycle 5; CDR H3 mutagenesis to resolve the NG motif.* ADI-23633 was selected for diversification by site-saturation (NNK) mutagenesis targeting the degradation motif NG in CDR H3. A single round of affinity pressure using the CD3 ϵ N13 at 10 nM

condition was performed. Selected progeny were produced and characterized, yielding at least two variants with comparable or improved affinity with respect to parent (Figure 32).

[0348] *Optimization Cycle 6; Affinity modulation by rational combination.* ADI-21952 was rationally variegated by a matrix of CDR H1, CDR H2, and CDR H3 sequences known to affect affinity with CDR L3 sequences known to affect affinity to yield a panel of 42 combinations (Figure 33A). The resulting sequence-confirmed antibodies were produced in yeast and characterized for recombinant antigen (Figure 33B) and cell binding (Figure 33C). Monovalent Fab binding affinity spanned a range of nM- μ M and correlated with cell binding median MFI at 100 nM IgG test concentration (Figures 33B and 33C).

[0349] *scFv conversion of ADI-21952.* VH and VL were amplified and reassembled by overlap extension PCR to compose a matrix of scFv fused to IgG1 Fc. The design matrix was identical to that utilized for ADI-21978 conversion. Recombinant CD3 and cell binding analysis revealed a <2-fold reduction in affinity compared to the IgG for scFv that do not contain DS1 or DS2, but a significant decrease in affinity for disulfide-containing scFv (~8-fold) (Figure 34A). Many of the scFv-Fc designs exhibited a monomeric non-aggregated peak of 85-90%, a few designs showed >90% monomer content (Figure 34B). Thermal stability analysis by DSF showed that ADI-21952 scFv-Fc were metastable, showing T_m in the range of 59-66°C (Figure 34C). The inclusion of DS1 and DS2 yielded scFv-Fc with parent-like HIC retention time, whereas scFv-Fc without DS1/2 had a broad peak profile and delayed retention time (Figure 34D).

[0350] *HEK production panel of broad affinity for developability profiling.* A focused panel of variants representing a broad affinity range was selected for production in HEK. IgG and Fab were characterized for binding affinity to recombinant Hu and Cy CD3 ϵ δ Fc and human and cyno cell lines (Figure 35A). Developability assays included PSR, baculovirus particle assays, HIC, SEC, AC-SINS (self-interaction), Fab T_m by DSF, transient HEK titer. Chemical integrity was assessed by inspection of the intact HC peak breadth and symmetry (see Figure 35B). A literature control antibody, CTL-19672 (GNE 38E4 as disclosed in, e.g., US patent application publication number US 2015/0166661), and the novel lineage binder with unresolved potential degradation sites, ADI-22523, demonstrated succinimide intermediate formation under non-stress conditions (Figure 35B). ADI-26906, which has all predicted liability sites resolved,

does not show peak broadening, supporting the beneficial role of these modifications for chemical stability of the antibody.

[0351] *HEK production of CD3 x TAA bispecifics.* Literature tumor associated antigen (TAA) binders targeting CD33 (Lintuzumab) and HER2 (Trastuzumab) were selected for assembly of bispecific molecules for functional validation, along with a negative control HEL binding antibody, ADI-03847 (Figure 36A). As a first step, antibodies were reformatted to scFv-Fc having the IgG4 isotype and stabilizing hinge mutation Ser228Phe, produced in HEK293ADI1, and purified by CaptureSelect FcXL (GE Healthcare LifeSciences). All scFv-Fc bound only the expected target antigen (see, e.g., Figure 36A, *bottom* panel). Bispecific CD3 x TAA antibodies were produced by co-transfection of HEK293ADI1 with both HC and the CD3 LC plasmids. Purification of heterodimer was achieved by pH gradient elution from POROS MabCapture A column, which was generally effective for resolving the heterodimer from the CD3 monospecific antibody (Figure 36B). CD3/HER2 bispecifics and TAA control were tested for their ability to activate T cells in the presence and absence of HER2 expressing cells SK-BR-3 as determined by percentage CD25+ CD69+ T (CD8) cells upon incubation with increasing amounts of the tested antibodies (Figure 36C). T cell activation was not observed in the absence of a HER2 binding arm except for a low level of activation observed with HuOKT3 (ADI-10390) as the CD3 arm. In the presence of target cells the ADI-21978/Trastuzumab and ADI-10390/Trastuzumab both activated T cells, but neither CD3 binder activated cells when paired with the HEL control arm.

[0352] *Analysis of T-cell activation and target cell killing.* Next, CD3/HER2 and CD3/HEL bispecifics were tested in a redirected T cell cytotoxicity assay (RTCC). ADI-21952 (ADI-24780) and ADI-21978 (ADI-24781) elicited dose-dependent target cell killing by incubated T cell effector cells at a potency (EC50) that was approximate to or better than positive controls. In particular, ADI-21978/Trastuzumab bispecific elicited target cell killing potency in the picomolar (pM) range (See, e.g., Figure 37).

[0353] A schematic representation of the selection, humanization, and optimization procedures and clone lineages generated thereby as described in Examples 1 and 2 are provided in Figure 38A and Figure 38B, respectively.

Variants

[0354] Applicant has found that introducing certain variations into CDR sequences in CD3 antibodies or antigen-binding polypeptides may confer beneficial properties, such as increased target binding affinity, resistance to degradation (e.g., by proteases), and improved developability (e.g., a reduction in polyspecificity). For example, it has been found herein that introducing a “T” at position one of CDRH3 can lead to increased target binding affinity. In some embodiments, CD3 antibodies or antigen-binding polypeptides are provided in which a “T” is introduced at position 1 of CDRH3 and are characterized by increased binding affinity to CD3 antigens.

[0355] Also, Applicant has found herein that avoiding certain consecutive amino acid sequences in CDRH2 (e.g., “NG”) and/or CDRH3 (e.g., “DG”) can increase resistance to degradation. In some embodiments, CD3 antibodies or antigen-binding polypeptides are provided in which particular amino acids are avoided at certain positions (e.g., avoiding a “G”, “N”, or “D”) in CDRH2 and/or CDRH3 and are characterized by resistance to degradation.

[0356] Additionally, Applicant has found herein that introduction of certain amino acids (e.g., “L” or “I”) in CDRL3 can improve developability (e.g., as measured by AC-SINS, HIC Retention Time, or binding to Polyspecificity Reagents). In some embodiments, CD3 antibodies or antigen-binding polypeptide are provided that have “L” or “I” substituted and are characterized by improved developability scores.

[0357] MATERIALS AND METHODS

[0358] In addition to the description provided above, the following Materials and Methods were employed in the Examples.

[0359] *Hu and Cy CD3εδFc heterodimer antigen production.* Recombinant heterodimeric CD3 Fc fusion antigens were produced in HEK 293 cells by co-transfection of plasmids encoding Hu CD3ε Fc (ectodomain, ECD, residues 22-126) and CD3δ Fc-HIS (ECD residues 22-100) or Cy CD3ε Fc (ECD residues 22-117) and CD3δ Fc-HIS (ECD residues 22-100) utilizing a heterologous signal peptide sequence. Chromatographic separations were performed on a computer controlled ÄKTA Avant 150 preparative chromatography system (GE Healthcare Life Sciences) equipped with an integrated conductivity sensor, enabling in-line salt concentration monitoring during the run. Clarified culture supernatants were purified by Ni

Sepharose 6 Fast Flow (GE Healthcare Life Sciences), which removes the CD3 $\epsilon\epsilon$ Fc-HIS homodimer. CD3 $\epsilon\delta$ Fc-HIS heterodimer was resolved from CD3 $\delta\delta$ Fc-HIS homodimer by Mono Q 10/100 GL by a linear Tris-buffered KCl gradient at pH 8.5.

[0360] *Peptides.* C-terminally biotinylated CD3 ϵ N-terminal peptides were obtained from New England Peptide. All peptides were delivered with a purity of $\geq 95\%$. Peptides were designed based on the primary sequence of Hu CD3 ϵ and the crystal structure of Hu CD3 $\epsilon\delta$ bound to OKT3 (Kjer-Nielsen L. *et al.* PNAS 2004). The CD3 ϵ N27 peptide has the sequence H2N-QDGNEEMGSITQTPYQVSISGTTVILT[K/SCBiot(dPEG4)]-amide and the CD3 ϵ N13 peptide has the sequence H2N-QDGNEEMGGITQT[K/SCBiot(dPEG4)]-amide.

[0361] *Antigen biotinylation.* CD3 antigens were biotinylated using the EZ-Link Sulfo-NHS-Biotinylation Kit from Pierce. Goat anti-human F(ab')₂ kappa-FITC (LC-FITC), Extravidin-PE (EA-PE) and streptavidin-633 (SA-633) were obtained from Southern Biotech, Sigma and Molecular Probes, respectively. Streptavidin MicroBeads and MACS LC separation columns were purchased from Miltenyi Biotec.

[0362] *Cell line propagation and cell labeling assays.* Human Jurkat CD3⁺ cells (ATCC TIB-152) and Jurkat CD3⁻ cells (ATCC TIB-153) were obtained from ATCC. Cyno HSC-F cells were obtained from the NIH Non-human Primate Reagent Resource. All cell lines were cultured in RPMI 1640 GlutaMax media supplemented with 10% fetal bovine serum (FBS).

[0363] Cell labeling was conducted by aliquoting 100,000-200,000 cells per well in a 96-well assay plate. Cells were centrifugated at 500 x g for 5 min at 4°C, then resuspended in 100 μ l of 100 nM IgG and incubated at room temperature for 20 min. Cells were then washed in buffer (phosphate-buffered saline (PBS)/0.1% bovine serum albumin (BSA) three times and resuspended in secondary reagent, typically goat anti-human R-PE (Southern Biotech). The plate was assayed on a FACSCanto (BD Biosciences) using an HTS sample injector. Flow cytometry data was analyzed for median fluorescence intensity in the R-PE channel.

[0364] *Human PBMC sourcing and expansion.* Frozen human peripheral blood mononuclear cells (PBMC) were purchased from AllCells Inc. (Alameda, CA). Fresh peripheral blood mononuclear cells were purified from human whole blood from Scripps blood bank by Ficoll-Hypaque density gradient centrifugation.

[0365] PBMC were cultured in RPMI-10% FBS consisted of RPMI-1640 serum-free medium supplemented with 10% fetal bovine serum (Hyclone FBS; catalog number SH30071.03IR, GE Healthcare, Logan, Utah), L-glutamine (catalog number 11875-093, ThermoFisher, Waltham, MA), 1% penicillin/streptomycin (catalog number 15070-063, ThermoFisher), 1 mM sodium pyruvate (catalog number 11360-070, ThermoFisher), 10 mM 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES; catalog number 15630080, ThermoFisher), and 1X non-essential amino acid (catalog number 11140-50, ThermoFisher).

[0366] Previously frozen PBMC were quick thawed in 37°C water bath and added to pre-warmed RPMI-10% FBS media. Cells were pelleted at 300xg, re-suspended in pre-warmed media and counted before use.

[0367] *Peripheral blood mononuclear cells (PBMC) activation by CD3 antibodies.* CD3 IgG and Fab were diluted in RPMI-10% FBS media to 2x final concentration (10 nM and 0.3 nM). Fifty microliters of 2x final concentration antibodies and 50 µL of donor PBMC at 2×10^5 cells/well were added to each well. Unstimulated control has RPMI-10% FBS media only, and positive control clone ADI-22523 and negative control ADI-03847 were also included in separate wells. Plates were incubated at 37°C for 48 hours supernatant was harvested for cytokine analysis.

[0368] *Measurement of T cell activation by supernatant cytokine.* After 48 hours of incubation, supernatant was collected for cytokine analysis by MesoScale discovery interferon-gamma tissue culture kit according to manufacturer's instruction. Supernatant was analyzed without dilution. Standard curve using recombinant cytokine was included in each plate for calculation of cytokine level in pg/ml.

[0369] Interferon gamma concentration (pg/mL) in supernatant was extrapolated using standard curve generated in MesoScale Discovery WorkBench software. Interferon gamma concentrations are listed as pg/ml. Antibody affinity data (Fab, IgG) to human CD3εδ was provided and are listed as Molar.

[0370] *FACS affinity pressured selection methods.* Briefly, yeast cells (at least $\sim 2 \times 10^7$ cells/labeling condition) were incubated with a volume of biotinylated antigen sufficient to represent a stoichiometric excess with respect to the average IgG presentation number. Antigen

labeling conditions are 100 to 1 nM under equilibrium conditions, typically carried out for 20 min to several hours at room temperature in FACS wash buffer (phosphate-buffered saline (PBS)/0.1% bovine serum albumin (BSA)). After washing three times with wash buffer, yeast were then stained with secondary reagents anti-human light chain FITC conjugate (LC-FITC) diluted 1:100 and either streptavidin-633 (SA-633) diluted 1:500 or extravidin-phycoerythrin (EA-PE) diluted 1:50 for 15 min at 4°C. After washing twice with ice-cold wash buffer, the cell pellets were resuspended in wash buffer in a typical volume of at least 1 mL per 1×10^7 yeast and transferred to strainer-capped sort tubes. Sorting is performed using a FACS ARIA sorter (BD Biosciences) and sort gates were determined to select for binders. After the final round of sorting, yeast were plated and individual colonies picked for characterization.

[0371] *FACS thermal pressured selection methods.* The parent antibody was diversified by error-prone PCR to derive an optimization library in yeast. This yeast library first proceeds through a positive antigen selection round to select for expressing binders, using CD3εN27. This enriched population then proceeded through a series of thermally pressured conditions ranging from ~50°C up to 65°C for 10 min with room temperature as a control. Optimally pressured conditions were gated on LC presentation (anti-human lambda PE) and antigen binding (SA-APC), reflecting the residual folded IgG competent to bind the selection reagents. Sorted cells are pelleted and the plasmids extracted using a commercial yeast plasmid purification kit (Zymo Research) in which the yeast cell walls are disrupted with Zymolase and the DNA is subsequently purified by a DNA mini-column. Plasmid DNA is then transformed into *E. coli* for amplification, followed by mini-prep isolation of the plasmid DNA with an *E. coli* plasmid purification kit (Qiagen). Plasmid DNA is then prepared for transformation into the appropriate yeast strain for subsequent cycles selection or sequencing and IgG production.

[0372] *Error-prone PCR optimization.* Error-prone PCR-based mutagenesis of the heavy chain (VH) and/or light chain (VL) using standard molecular biology techniques introduced stochastic diversity. Briefly, mutagenic nucleotide analogues dPTP and 8-oxo-dGTP were incorporated into the VH and VL amplification process at 1 uM concentration to increase the base mis-incorporation frequency up to approx. 0.01 bp. The mutated PCR product was recombined *in situ* by homologous recombination with a linearized vector containing the HC or LC constant region sequences. This typically results in a library of $1 \times 10^{7-8}$ diversity. Affinity

and expression co-pressures were applied by incubating the antigen antibody yeast complex at decreasing concentrations of antigen (equilibrium pressure) or with parental Fab competition (equilibrium and kinetic pressures) for varying amounts of time to select for the highest affinity antibodies on FACS over successive rounds of selection.

[0373] *Oligonucleotide-based CDR H3 mutagenesis.* Discovered or previously optimized antibodies can progress through additional optimization by diversification of the CDR H3 sequence. To do so, the light chain variable region of the starting antibody is PCR amplified, and then, using yeast homologous recombination, is inserted into a yeast strain containing the light chain empty vector. This constitutes the parental light chain yeast strain. The heavy chain of the starting antibody is used as PCR input in combination with germline specific primers that generate a PCR product that contains from framework 1 through framework three of the heavy chain. This amplification is performed using the mutagenic nucleotide 8-oxo-dGTP to provide additional low levels of mutagenesis in the amplified heavy chain region. In order to create designed diversity in the CDR H3 region of the starting antibody, a library of CDR H3 oligos is generated/ordered (i.e. from IDT). The oligo pool is amplified with primers containing 5' tails that allow for germline specific recombination with the amplified FW1-FW3 region and the empty. A universal 3' primer is used for FW4. Alternatively, mutagenic PCR can be performed that incorporates 8-oxo-dGTP into a PCR reaction using germline specific 5' primers, the universal 3' primer and VH DNA. Once the LC strain, HC FW1-FW3 and diversified CDR H3-FW4 inputs have been generated, a three piece transformation is performed by introducing the two HC components along with a HC empty vector into the LC strain. Subsequently, the cells are grown out under selective pressure to ensure HC and LC components are present.

[0374] *Antibody yeast production and purification.* Yeast clones were grown to saturation and then induced for 48 h at 30°C with shaking. After induction, yeast cells were pelleted and the supernatants were harvested for purification. IgGs were purified using a Protein A column and eluted with acetic acid, pH 2.0. Fab fragments were generated by papain digestion and purified over KappaSelect or CaptureSelect IgG-CH1 (GE Healthcare LifeSciences).

[0375] *Antibody HEK production and purification.* Mammalian expression of IgG was done by sub-cloning antibodies into a new expression vector followed by transient transfection and expression in HEK293AD11, a monoclonal cell line derived from HEK293 (DSMZ) selected

for clump-free growth, growth rate, and transfectability. Briefly, expression vectors containing the antibody of interest were transfected by complexing with a transfection reagent followed by exposure to HEK cells for one hour followed by dilution of culture media to a final density of 4 million cells per mL. The cells were then cultured for 7 days with fresh feed media every 48 hours. After 7 days, the supernatant was collected following centrifugation and purification was performed using protein A. If necessary, a CHT column purification was added to reach > 95 % monomer.

[0376] *Bispecific antibody HEK production and purification.* IgG4 scFv-Fc molecules carrying the ProA non-binding His435->Arg, Tyr436->Phe ("RF") mutations were purified by CaptureSelect™ FcXL (GE HealthCare) and eluted with acetic acid pH 3.5.

[0377] Bispecific antibodies were expressed in HEK293ADI1 cells grown in shake flasks. To obtain clearance of the ProA non-binding RF homodimer, primary capture was performed using a Mab Select SuRE column, eluted with acetic acid, pH 3.5 and neutralized with 2M HEPES pH 8.0. Heterodimer was then isolated by a secondary purification on a POROS MabCapture A column, and linear gradient elution of 40 mM acetic acid, 500 mM NaCl from pH 6.0 to pH 3.0. Fractions were neutralized with 2M HEPES pH 8.0, pooled to avoid inclusion of aggregates appearing at the tail of the heterodimer peak, and analyzed by LCMS to ensure heterodimer purity.

[0378] *ForteBio KD measurements (Biolayer interferometry; BLI).* ForteBio affinity measurements were performed generally as previously described (Estep, P., *et al.*, High throughput solution-based measurement of antibody-antigen affinity and epitope binning. MABs, 2013. 5(2): p. 270-8.). Briefly, ForteBio affinity measurements were performed by loading IgGs online onto AHQ sensors. Sensors were equilibrated off-line in assay buffer for 30 min and then monitored on-line for 60 seconds for baseline establishment. Sensors with loaded IgGs were exposed to 100 nM antigen for 5 min, afterwards they were transferred to assay buffer for 5 min for off-rate measurement. Kinetics was analyzed using the 1:1 binding model.

[0379] *BiaCore KD measurements (Surface plasmon resonance; SPR).* Biosensor analysis was conducted at 25 °C in a HBS-EP buffer system (10 mM HEPES pH 7.3, 150 mM NaCl, 3 mM EDTA, 0.05% Surfactant P20) using a Biacore 8K optical biosensor docked with a CM5 sensor chip (GE Healthcare, Marlboro, MA). The sample hotel was maintained at

10°C. Goat anti-human IgG capture antibody (Jackson ImmunoResearch Laboratories, Inc., West Grove, PA; 109-005-098) was immobilized (11700 +/- 400 RU) to both flow cells of the sensor chip using standard amine coupling chemistry. This surface type provided a format for reproducibly capturing fresh analysis antigen after each regeneration step. Flow cell 2 was used to analyze captured antigen (35.7 +/-0.8 RU) while flow cell 1 was used as a reference flow cell. Fab concentrations ranging from 100 to 0.412 nM (3-fold dilutions) were prepared in running buffer. Each of the Fab sample concentrations were run as a single replicate. Two blank (buffer) injections also were run and used to assess and subtract system artifacts. The association and dissociation phases for all Fab concentrations were monitored for 180 s each, at a flow rate of 30 µL/min. The surface was regenerated with 10 mM glycine, pH 1.5 for 30 s, at a flow rate of 30 µL/min. The data was aligned, double referenced, and fit using Biacore 8K Evaluation Software, version 1.0.

[0380] *Octet Red384 Epitope Binning/ligand blocking.* Epitope binning/ligand blocking was performed using a standard sandwich format cross-blocking assay. Control anti-target IgG was loaded onto AHQ sensors and unoccupied Fc-binding sites on the sensor were blocked with an irrelevant human IgG1 antibody. The sensors were then exposed to 100 nM target antigen followed by a second anti-target antibody or ligand. Data was processed using ForteBio's Data Analysis Software 7.0. Additional binding by the second antibody or ligand after antigen association indicates an unoccupied epitope (non-competitor), while no binding indicates epitope blocking (competitor or ligand blocking).

[0381] *Size Exclusion Chromatography.* A TSKgel SuperSW mAb HTP column (22855) was used for fast SEC analysis of yeast and mammalian produced mAbs at 0.4 mL/min with a cycle time of 6 min/run. 200 mM Sodium Phosphate and 250 mM Sodium Chloride was used as the mobile phase.

[0382] *Dynamic Scanning Fluorimetry (DSF).* 10 µL of 20x Sypro Orange is added to 20 µL of 0.2-1mg/mL mAb or Fab solution. A RT-PCR instrument (BioRad CFX96 RT PCR) is used to ramp the sample plate temperature from 40 to 95°C at 0.5°C increments, with 2 min equilibrate at each temperature. The negative of first derivative for the raw data is used to extract T_m.

[0383] *PSR Preparation.* Polyspecific reactivity reagent (PSR) was prepared as described in, e.g., WO 2014/179363 and Xu et al., *mAbs*, 2013. In brief, 2.5 liters CHO-S cells were used as starting material. The cells were pelleted at 2,400 x g for 5 min in 500 mL centrifuge bottles filled to 400 mL. Cell pellets were combined and then resuspended in 25 ml Buffer B and pelleted at 2,400 x g for 3 min. The buffer was decanted and the wash repeated one time. Cell pellets were resuspend in 3x the pellet volume of Buffer B containing 1 x protease inhibitors (Roche, Complete, EDTA-free) using a polytron homogenizer with the cells maintained on ice. The homogenate was then centrifuged at 2,400 x g for 5 min and the supernatant retained and pelleted one additional time (2,400 x g/5min) to ensure the removal of unbroken cells, cell debris and nuclei; the resultant supernatant is the total protein preparation. The supernatant was then transferred into two Nalgene Oak Ridge 45 mL centrifuge tubes and pelleted at 40,000 x g for 40 min at 4°C. The supernatants containing the Separated Cytosolic Proteins (SCPs) were then transferred into clean Oak Ridge tubes, and centrifuged at 40,000 x g one more time. In parallel, the pellets containing the membrane fraction (EMF) were retained and centrifuged at 40,000 for 20 min to remove residual supernatant. The EMF pellets were then rinsed with Buffer B. 8 mL Buffer B was then added to the membrane pellets to dislodge the pellets and transfer into a Dounce Homogenizer. After the pellets were homogenized, they were transferred to a 50 mL conical tube and represented the final EMF preparation.

[0384] One billion mammalian cells (e.g. CHO, HEK293, Sf9) at $\sim 10^6 - 10^7$ cells/mL were transferred from tissue culture environment into 4x 250 mL conical tubes and pelleted at 550 x g for 3 min. All subsequent steps were performed at 4°C or on ice with ice-cold buffers. Cells were washed with 100 mL of PBSF (1x PBS + 1 mg/mL BSA) and combined into one conical tube. After removing the supernatant, the cell pellet was then re-suspended in 30 mL Buffer B (50 mM HEPES, 0.15 M NaCl, 2 mM CaCl₂, 5 mM KCl, 5 mM MgCl₂, 10 % Glycerol, pH 7.2) and pelleted at 550 x g for 3 min. Buffer B supernatant was decanted and cells re-suspended in 3x pellet volume of Buffer B plus 2.5x protease inhibitor (Roche, cOmplete, EDTA-free). Protease inhibitors in Buffer B were included from here on forward. Cells were homogenized four times for 30 sec pulses (Polyton homogenizer, PT1200E) and the membrane fraction was pelleted at 40,000 x g for 1 hour at 4°C. The pellet is rinsed with 1 mL Buffer B; the supernatant is retained and represents the s. The pellet is transferred into a Dounce homogenizer with 3 mL of Buffer B and re-suspended by moving the pestle slowly up and down

for 30-35 strokes. The enriched membrane fraction (EMF) is moved into a new collection tube, rinsing the pestle to collect all potential protein. Determine the protein concentration of the purified EMF using the Dc-protein assay kit (BioRad). To solubilize the EMF, transfer into Solubilization Buffer (50 mM HEPES, 0.15 M NaCl, 2 mM CaCl₂, 5 mM KCl, 5 mM MgCl₂, 1 % n-Dodecyl-b-D-Maltopyranoside (DDM), 1x protease inhibitor, pH 7.2) to a final concentration of 1 mg/mL. Rotate the mixture overnight at 4°C rotating followed by centrifugation in a 50 mL Oak Ridge tube (Fisher Scientific, 050529-ID) at 40,000 x g for 1 hour. Collect the supernatant which represents the soluble membrane proteins (SMPs) and quantify the protein yield as described above.

[0385] For biotinylation, prepare the NHS-LC-Biotin stock solution according to manufacturer's protocol (Pierce, Thermo Fisher). In brief, 20 µl of biotin reagent is added for every 1 mg of EMF sample and incubated at 4°C for 3 hours with gentle agitation. Adjust the volume to 25 mL with Buffer B and transfer to an Oak Ridge centrifuge tube. Pellet the biotinylated EMF (b-EMF) at 40,000 x g for 1 hour, and rinse two times with 3 mL of Buffer C (Buffer B minus the glycerol) without disturbing the pellet. Remove the residual solution. Re-suspended the pellet with a Dounce homogenizer in 3 mL of Buffer C as described previously. The re-suspended pellet now represents biotinylated EMF (b-EMF). Solubilized as described above to prepare b-SMPs.

[0386] *PSR Binding Analyses.* Assays were performed generally as described in, e.g., Xu et al. To characterize the PSR profile of monoclonal antibodies presented on yeast, two million IgG-presenting yeast were transferred into a 96-well assay plate and pellet at 3000 x g for 3 min to remove supernatant. Re-suspend the pellet in 50 µl of freshly prepared 1:10 dilution of stock b-PSRs and incubate on ice for 20 minutes. Wash the cells twice with 200 µl of cold PBSF and pellet re-suspended in 50 µl of secondary labeling mix (Extravidin-R-PE, anti-human LC-FITC, and propidium iodide). Incubate the mix on ice for 20 minutes followed by two washes with 200 µl ice-cold PBSF. Re-suspend the cells in 100 µl of ice-cold PBSF and run the plate on a FACSCanto (BD Biosciences) using HTS sample injector. Flow cytometry data was analyzed for mean fluorescence intensity in the R-PE channel and normalized to proper controls in order to assess non-specific binding. Numerous methods for presentation or display of antibodies or antibody fragments on the surface of yeast have been described previously, all of which are

consistent with this protocol (Blaise et al., 2004, Boder and Wittrup, 1997, Kuroda and Ueda, 2011, Orcutt and Wittrup, 2010, Rakestraw et al., 2011, Sazinsky et al., 2008, Tasumi et al., 2009, Vasquez et al., 2009).

[0387] *Baculovirus particle assay (BVP)*. BVPs (BlueSky Biotech) were incubated on ELISA plates by adding 50 μ l of 1:1 BVP stock: 50 mM sodium carbonate (pH 9.6) per well and placed at 4°C for 16–24 h. The next day, unbound BVPs were aspirated from the wells. All remaining steps were performed at room temperature (22°C). One hundred microliters of blocking buffer (PBS with 0.5% BSA) was added and let incubate for 1 h prior to three washes with 100 μ l of PBS. Next, 50 μ l of 1 μ M primary antibodies (i.e. test antibodies) in blocking buffer was added to the wells and incubated for 1 h followed by six washes with 100 μ l of PBS. Fifty microliters of anti-Human-IgG-HRP (Promega W4038, prepared in PBS) was added to the wells and incubated for 1 h followed by six washes as before. Finally, 50 μ l of TMB substrate (Fisher Scientific, 34021) was added to each well and incubated for 10–15 min. The reactions were stopped by adding 50 μ l of 2 M sulfuric acid to each well. The absorbance was read at 450 nm and BVP score determined by normalizing absorbance by control wells with no test antibody.

[0388] *FortBio Kinetics*. FortBio Octet HTX instruments were used in 12 channel mode (8 sensors per channel, 96 sensors per experiment) with either AHC, SA, or AHQ sensors. Instrumentation was driven by manufacturer supplied software (versions 8.2 and 9.0). Sample names and concentrations were input into the plate data page, and sensor associated proteins were identified in the “information” column on the sensor data page. Kinetic experiments are collected with either a 90 or 180 s baseline, 180 s association phase, and 180 s dissociation phase. Binning experiments were collected in 5 steps: 90 s of baseline1, 90 s of a sensor binding check with the secondary binder, 90 s of baseline2, 180 s of association, and 180 s of dissociation in the well containing the secondary mAb. All files were saved into a shared network drive with a naming convention that identifies the format of the experiment.

[0389] *HIC*. IgG1 samples were buffer exchanged into 1 M ammonium sulfate and 0.1 M sodium phosphate at pH 6.5 using a Zeba 40 kDa 0.5 mL spin column (Thermo Pierce, cat # 87766). A salt gradient was established on a Dionex ProPac HIC-10 column from 1.8 M ammonium sulfate, 0.1 M sodium phosphate at pH 6.5 to the same condition without ammonium sulfate. The gradient ran for 17 min at a flow rate of 0.75 ml/min. An acetonitrile wash step was

added at the end of the run to remove any remaining protein and the column was re-equilibrated over 7 column volumes before the next injection cycle. Peak retention times were monitored at A280 absorbance and concentrations of ammonium sulfate at elution were calculated based on gradient and flow rate.

[0390] *LCMS.* mAb samples were reduced by DTT, followed by middle down LCMS analysis on a Bruker maXis4G mass spectrometer coupled with an Agilent 1100 HPLC (Agilent). A POROS R2 10 μm (2.1 x 30 mm) reversed phase column was used to remove salt in the samples. A fast LC flow at 2 mL/min allows the separation between sample and salt and elution of samples and regeneration of column to finish within a 2.1 min cycle. A T-junction is used to deliver only 0.15 mL/min sample flow into the mass spectrometer for sample analysis. The Bruker maXis 4G mass spectrometer was run in positive ion mode with detection in the range of 750 to 2500 m/z. The remaining source parameters were set as follows; the capillary was set at 5500V, the Nebulizer at 4.0 Bar, dry gas at 4.0 l/min, and dry temp set at 200°C.

[0391] The MS spectra were analyzed using Bruker Data Analysis version 4.1 and the deconvolution was accomplished using maximum entropy deconvolution with a mass range of 20 to 30 kDa.

[0392] *IL2 Secretion.* Coat a flat-bottom 96-well culture plate (Thermo Scientific, 446612) with 200 μl per well of anti-CD3 antibody at 10 $\mu\text{g}/\text{mL}$ concentration in sterile DPBS; cover with lid and incubate overnight at 4°C. Just before adding cells the following day, wash the 96-well culture plate 3 times with 200 μl of ice-cold sterile DPBS. In parallel, prepare the cells. Measure the cell density, and calculate the total number of CD3+ and CD3- cells to achieve 1×10^6 cells/well. Aliquot the required amount of cells into a 50 mL conical tube, and then wash cells 3X in 50 mL of warm (37°C) RPMI 1640 GlutaMAX (Gibco, 61870-127). Resuspend the cells in warm culture media containing soluble anti-CD28 antibody (BioLegend) at a concentration of 2 $\mu\text{g}/\text{mL}$, for a cell density of 1×10^7 cells/mL. Dispense 100 μl , containing 1.0×10^6 cells, per well onto anti-CD3-coated cell culture plate. Cover the plate with the hard plastic plate lid and incubate in stationary incubator at 37°C for 14-16 h. The next day, harvest the contents of each well by carefully pipetting, and then transfer the cells and supernatants to a 96-well plate (Thermo Scientific, 264623). Centrifuge the plate at 500 x g for 3 min to pellet the cells. Without disturbing the pellet, carefully transfer the supernatant to a new Eppendorf tube or

Canto plate. Gather and prepare all reagents to be used in the MSD kit (Meso Scale Discovery IL-2 V-Plex Kit, K151QQD-2). Serially dilute the IL-2 calibrator with Diluent 2 to generate a set of 7 points for a standard curve, in addition to a zero sample containing only Diluent 2. Transfer 50 µl of each standard to each well in one column of an MSD plate, ensuring the entire bottom of the well is coated. Transfer 50 µl of sample from each well to the MSD plate. Ensure the liquid completely coats the entire bottom of each well, including both electrodes. Cover the MSD plate with clear film, and incubate it on a plate shaker for 2 h at 700 rpm at room temperature (22-25°C). After 2 h, flick and blot the plate on a paper towel, and wash three times with 150 µl wash buffer, flicking to get rid of buffer between washes. After the final wash, blot the plate on a paper towel to remove any remaining buffer. Add 25 µl of IL-2 detection antibody solution to the bottom of each well. Cover the MSD plate with clear film, and incubate it on a plate shaker for 1-2 h at 700 rpm at room temperature. After 2 h, flick and blot the plate on a paper towel, and then wash three times with 150 µl wash buffer. Add 150 µl of 2X read buffer with surfactant to each well, and analyze the plate (or selected wells of the plate) on the MSD instrument.

[0393] An informal sequence listing is provided in Table 2, below. The informal sequence listing provides the following sixteen (16) sequence elements contained in each of 405 antibodies, identified as described above and designated as Antibody Numbers (Ab #) 1 through 405, in the following order:

- Heavy chain variable region ("HC") nucleic acid sequence
- Heavy chain variable region ("HC") amino acid sequence
- Heavy chain variable region CDR H1 ("H1") amino acid sequence
- Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
- Heavy chain variable region CDR H2 ("H2") amino acid sequence
- Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
- Heavy chain variable region CDR H3 ("H3") amino acid sequence
- Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
- Light chain variable region("LC") nucleic acid sequence
- Light chain variable region ("LC") amino acid sequence
- Light chain variable region CDR L1 ("L1") amino acid sequence
- Light chain variable region CDR L1 ("L1") nucleic acid sequence

- Light chain variable region CDR L2 ("L2") amino acid sequence
- Light chain variable region CDR L2 ("L2") nucleic acid sequence
- Light chain variable region CDR L3 ("L3") amino acid sequence
- Light chain variable region CDR L3 ("L3") nucleic acid sequence

Table 2: Antibody sequences

Antibody No.	SEQ ID NO:	Sequence	Clone # (ADI)	Descriptors
Ab 1	1	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTAACACATATGCCATGAATGGGTCGGCC AGGCTCAGGGAGGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTAAGGATCGGTTACCATCTCCAGAGACGATT CAAGAGCAGCTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTTATGTATCCTGGTTGCTTATTGG GGCCAAGGAACCTGGTCACCCGTCCTCA	ADI-16606 LAD2189_P03_F02	Heavy chain variable region ("HC") nucleic acid sequence
Ab 1	2	EVQLLESGGGLVQPGGSLRLSCAASGFTFNTYAMNWWVRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMNSLRAEDTAVYCYVRHGFNGFSVSWFAYWGQG TLVTVSS	ADI-16606 LAD2189_P03_F02	Heavy chain variable region ("HC") amino acid sequence
Ab 1	3	FTFNTYAMN	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 1	4	TTCACCTTTAACACATATGCCATGAAT	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 1	5	RIRSKYNNYATYYADSVKD	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 1	6	AGGATTAGATCCAAGTATAACAAATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 1	7	VRHGFNGFSVSWFAY	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 1	8	GTCAGGCACGGTAACTTCGGGAACAGTTATGTATCCTG GTTTGCTTAT	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 1	9	CAGACTGGTGTGACCCAGGAGCCATCGTTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTAGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCACGCGGACTCATCGGCG GCACAAACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAATCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGGGGAGG GACCAAGCTGACCGTCCTA	ADI-16606 LAD2189_P03_F02	Light chain variable region ("LC") nucleic acid sequence
Ab 1	10	QTVVTQEPSFSVSPGGTVTLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTRKRAPGVDRFSGSLGDKAALTTIG AQADDESYYCALWYSNLWVFGGGTKLTVL	ADI-16606 LAD2189_P03_F02	Light chain variable region ("LC") amino acid sequence
Ab 1	11	RSSTGAVTTSNYAN	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 1	12	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 1	13	GTNKRAP	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 1	14	GGCACAACAAGCGGCTCCT	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 1	15	ALWYSNLWV	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 1	16	GCGTGTGTACAGTAACCTTTGGGTG	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 2	17	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-20587 SAD5519_P01_B02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 2	18	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-20587 SAD5519_P01_B02	Heavy chain variable region ("HC") amino acid sequence
Ab 2	19	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGFNGYVSWFAHWGQ GTLVTVSS	ADI-20587 SAD5519_P01_B02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 2	20	FTFDYAMN	ADI-20587 SAD5519_P01_B02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 2	21	TTCACCTTTGACACATATGCCATGAAT	ADI-20587 SAD5519_P01_B02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 2	22	RIRSKYNNYATYYADSVKD	ADI-20587 SAD5519_P01_B02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 2	23	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-20587 SAD5519_P01_B02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 2	24	VRHGFNGYVSWFAH	ADI-20587 SAD5519_P01_B02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 2	25	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-20587 SAD5519_P01_B02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 2	25	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCGGTGTC CCCTGGAGGGACAGTCACACTCAGTGTAGATCAAGCAC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCCGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGGATGAATCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-20587 SAD5519_P01_B02	Light chain variable region ("LC") nucleic acid sequence
Ab 2	26	QTVVTQEPSLSVSPGTVTLTRSSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG AQAEDESDYYCALWYSNLWVFGGGTKLTVL	ADI-20587 SAD5519_P01_B02	Light chain variable region ("LC") amino acid sequence
Ab 2	27	RSSTGAVTTSNYAN	ADI-20587 SAD5519_P01_B02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 2	28	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20587 SAD5519_P01_B02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 2	29	GTDKRAP	ADI-20587 SAD5519_P01_B02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 2	30	GGCACAGACAAGCGCGCTCCC	ADI-20587 SAD5519_P01_B02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 2	31	ALWYSNLWV	ADI-20587 SAD5519_P01_B02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 2	32	GCGCTGTGGTACAGTAAACCTTTGGGTG	ADI-20587 SAD5519_P01_B02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 3	33	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTCGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCCGAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-20588 SAD5520_P01_E08	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 3	34	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-20588 SAD5520_P01_E08	Heavy chain variable region ("HC") amino acid sequence	
Ab 3	35	FTFDYAMN	ADI-20588 SAD5520_P01_E08	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 3	36	TTCACCTTTGACACATATGCCATGAAT	ADI-20588 SAD5520_P01_E08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 3	37	RIRSKYNNYATYYADSVKD	ADI-20588 SAD5520_P01_E08	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 3	38	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-20588 SAD5520_P01_E08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 3	39	VRHGNFNGYVSWFAH	ADI-20588 SAD5520_P01_E08	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 3	40	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-20588 SAD5520_P01_E08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 3	41	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTAGATCAAGCACT GGCGCAGTCACTACTAGTAAGTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAAACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTAATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-20588 SAD5520_P01_E08	Light chain variable region ("LC") nucleic acid sequence
Ab 3	42	QTVVTQEPSLSVSPGTVLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTTNKRAPGVDRFSGLLGDKAALTTIG AQADDEADYCALWYSNLWVFGGGTKLTVL	ADI-20588 SAD5520_P01_E08	Light chain variable region ("LC") amino acid sequence
Ab 3	43	RSSTGAVTTSNYAN	ADI-20588 SAD5520_P01_E08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 3	44	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20588 SAD5520_P01_E08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 3	45	GTNKRAP	ADI-20588 SAD5520_P01_E08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 3	46	GGCACAACAAGCGGCTCCT	ADI-20588 SAD5520_P01_E08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 3	47	ALWYSNLWV	ADI-20588 SAD5520_P01_E08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 3	48	GCGTGTGGTACAGTAACCTTTGGGTG	ADI-20588 SAD5520_P01_E08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 4	49	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGGCTCTCCTGTGCAGCCTCT GGATCACCTTTAACACATATGCCATGAATGGGTCCGC CAGGCTCCAGGGAAGGGCTGGAGTGGGTGCGAAGGA TTAGGTCCAAGTATAACAATACGCTACATACTACGCAG ACTCCGTGAAGGATCGGTTCCACCATCTCCAGAGACGATT CCAAGAGCACGCTGTATCTGCAAATGAACAGCCTGAGA GCCGAGGACACGGGGTGTACTACTGCGTCAGGCACAG TAACTTCGGGAACGGTTATGTATCCTCGTTGCTTACTG	ADI-20589 SAD5519_P02_D03	Heavy chain variable region ("HC") nucleic acid sequence

		GGGCAAGGAACCCTGGTCACCGTCTCCTCA			
Ab 4	50	EVQLLESGGLVQPGGSLRLSCAASGFTFNTYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNGVSWFAYWGQG TLVTYSS	ADI-20589 SAD5519_P02_D03	Heavy chain variable region ("HC") amino acid sequence	
Ab 4	51	FTFNTYAMN	ADI-20589 SAD5519_P02_D03	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 4	52	TTCACCTTTAACACACATATGCCATGAAT	ADI-20589 SAD5519_P02_D03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 4	53	RIRSKYNNYATYYADSVKD	ADI-20589 SAD5519_P02_D03	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 4	54	AGGATTAGGTCCAAGTATAACAATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-20589 SAD5519_P02_D03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 4	55	VRHSNFGNGVSWFAY	ADI-20589 SAD5519_P02_D03	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 4	56	GTCAGGCACAGTAACTTCGGGAACGGTTATGTATCCTG GTTTGCTTAC	ADI-20589 SAD5519_P02_D03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 4	57	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCGGTGTC CCCTGGAGGGACAGTACACTCAGTGTAGATCAAGCAC TGGCGAGTCACTACTAGTAACACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCCGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGAGGATGAATCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-20589 SAD5519_P02_D03	Light chain variable region ("LC") nucleic acid sequence
Ab 4	58	QTVVTQEPSLSVSPGTVTLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG AQAEDESYYCALWYSNLWVFGGGTKLTVL	ADI-20589 SAD5519_P02_D03	Light chain variable region ("LC") amino acid sequence
Ab 4	59	RSSTGAVTTSNYAN	ADI-20589 SAD5519_P02_D03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 4	60	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20589 SAD5519_P02_D03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 4	61	GTDKRAP	ADI-20589 SAD5519_P02_D03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 4	62	GGCACAGACAAGCGCGCTCCC	ADI-20589 SAD5519_P02_D03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 4	63	ALWYSNLWV	ADI-20589 SAD5519_P02_D03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 4	64	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-20589 SAD5519_P02_D03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 5	65	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-20590 SAD5519_P05_C08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 5	66	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-20590 SAD5519_P05_C08	Heavy chain variable region ("HC") amino acid sequence
Ab 5	67	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYYCVRHGNFGNSYVSWFAHWGQG TLVTYSS	ADI-20590 SAD5519_P05_C08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 5	68	FTFDYAMN	ADI-20590 SAD5519_P05_C08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 5	69	TTCACCTTTGACACATATGCCATGAAT	ADI-20590 SAD5519_P05_C08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 5	70	RIRSKYNNYATYYADSVKG	ADI-20590 SAD5519_P05_C08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 5	71	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-20590 SAD5519_P05_C08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 5	72	VRHGNFGNSWSWFAH	ADI-20590 SAD5519_P05_C08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 5	73	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-20590 SAD5519_P05_C08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 5	73	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCGGTGTC CCCTGGAGGGACAGTCACACTCAGTGTAGATCAAGCAC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCCGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCCGGAGGAGGATGAATCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-20590 SAD5519_P05_C08	Light chain variable region ("LC") nucleic acid sequence
Ab 5	74	QTVVTQEPSLSVSPGTVTLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG AQAEDESDYYCALWYSNLWVFGGGTKLTVL	ADI-20590 SAD5519_P05_C08	Light chain variable region ("LC") amino acid sequence
Ab 5	75	RSSTGAVTTSNYAN	ADI-20590 SAD5519_P05_C08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 5	76	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20590 SAD5519_P05_C08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 5	77	GTDKRAP	ADI-20590 SAD5519_P05_C08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 5	78	GGCACAGACAAGCGCGCTCCC	ADI-20590 SAD5519_P05_C08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 5	79	ALWYSNLWV	ADI-20590 SAD5519_P05_C08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 5	80	GCGCTGTGTACAGTAACTTTGGGTG	ADI-20590 SAD5519_P05_C08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 6	81	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCCGAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGTATCTGCAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-20594 SAD5523_P02_D07	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 6	82	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFGNSVSWFAHWGQG TLVTYSS	ADI-20594 SAD5523_P02_D07	Heavy chain variable region ("HC") amino acid sequence	
Ab 6	83	FTFDYAMN	ADI-20594 SAD5523_P02_D07	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 6	84	TTCACCTTTGACACATATGCCATGAAT	ADI-20594 SAD5523_P02_D07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 6	85	RIRSKYNNYATYYADSVKD	ADI-20594 SAD5523_P02_D07	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 6	86	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-20594 SAD5523_P02_D07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 6	87	VRHGNFGNSVSWFAH	ADI-20594 SAD5523_P02_D07	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 6	88	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-20594 SAD5523_P02_D07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 6	89	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTAGATCAAGCACT GGCGCAGTACTACTAGTAACTACGCCAACTGGATCCAG CAGACCCAGGCCAGGCCCGCGCGGACTCATCGGCGG CACAAACAAGCGCTCCTCGGGTCCCTGATCGCCTCTC TGGCTCCCTGCTTGGGACAAAAGCTGCCCTCACCATCAC GGGGCCCGCAGCAGATGATGAAGCTGATTACTGTG CGCTGTGGTACAGTAACCTTTGGGTTCGGCGGAGGG ACCAAGCTGACCGTCCTA	ADI-20594 SAD5523_P02_D07	Light chain variable region ("LC") nucleic acid sequence
Ab 6	90	QTVVTQEPSLSVSPGTVTLTCRSSTGAVTTSNYANWIIQQ TPGQAPRGLIGGTNKRAPGVDPRLSGSLGDKAALITIGA QADDEADYYCALWYSNLWVFGGGTKLTVL	ADI-20594 SAD5523_P02_D07	Light chain variable region ("LC") amino acid sequence
Ab 6	91	RSSTGAVTTSNYAN	ADI-20594 SAD5523_P02_D07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 6	92	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20594 SAD5523_P02_D07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 6	93	GTNKRAP	ADI-20594 SAD5523_P02_D07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 6	94	GGCACAACAAGCGCGCTCCT	ADI-20594 SAD5523_P02_D07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 6	95	ALWYSNLWV	ADI-20594 SAD5523_P02_D07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 6	96	GCGCTGTGGTACAGTAAACCTTTGGGTG	ADI-20594 SAD5523_P02_D07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 7	97	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCGGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACGTACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGTACTGCAAAATAAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTACGGCAGGACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-20596 SAD5519_P03_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 7	98	GGCCAAGGAGCCCTGGTCACCGTCTCCTCA	ADI-20596 SAD5519_P03_E05	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APKGLWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQINSLRAEDTAVYVCVRHGNFGNSVSWFAHWGQGA LVTYSS		
Ab 7	99	FTFDYAMN	ADI-20596 SAD5519_P03_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 7	100	TTCACCTTTGACACATATGCCATGAAT	ADI-20596 SAD5519_P03_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 7	101	RIRSKYNNYATYYADSVKD	ADI-20596 SAD5519_P03_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 7	102	AGGATTAGATCCAAAGTATAACAATTACGCTACGTACTAC GCAGACTCCGTGAAGGAT	ADI-20596 SAD5519_P03_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 7	103	VRHGNFGNSVSWFAH	ADI-20596 SAD5519_P03_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 7	104	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-20596 SAD5519_P03_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 7	105	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCGGTGTC CCCTGGAGGGACAGTACACTCAGTGTAGATCAAGCAC TGGCGAGTCACTACTAGTAACACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCCGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAATCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-20596 SAD5519_P03_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 7	106	QTVVTQEPSLSVSPGTVTLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDESYYCALWYSNLWVFGGKLTVL	ADI-20596 SAD5519_P03_E05	Light chain variable region ("LC") amino acid sequence
Ab 7	107	RSSTGAVTTSNYAN	ADI-20596 SAD5519_P03_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 7	108	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20596 SAD5519_P03_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 7	109	GTDKRAP	ADI-20596 SAD5519_P03_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 7	110	GGCACAGACAAGCGCGCTCCC	ADI-20596 SAD5519_P03_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 7	111	ALWYSNLWV	ADI-20596 SAD5519_P03_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 7	112	GCGTGTGTACAGTAACCTTTGGGTG	ADI-20596 SAD5519_P03_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 8	113	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGTCCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-20599 SAD5522_P03_C02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 8	114	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-20599 SAD5522_P03_C02	Heavy chain variable region ("HC") amino acid sequence
Ab 8	115	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFGNSVSWFAHWGQG TLVTYSS	ADI-20599 SAD5522_P03_C02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 8	116	FTFDYAMN	ADI-20599 SAD5522_P03_C02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 8	117	TTCACCTTTGACACATATGCCATGAAT	ADI-20599 SAD5522_P03_C02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 8	118	RIRSKYNNYATYYADSVKD	ADI-20599 SAD5522_P03_C02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 8	118	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-20599 SAD5522_P03_C02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 8	119	VRHGNFGNSVSWFAH	ADI-20599 SAD5522_P03_C02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 8	120	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-20599 SAD5522_P03_C02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 8	121	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCGGTGTC CCCTGGAGGGACAGTCACACTCAGTGTAGATCAAGCAC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCCGGGTCCCTGAGCGCTTC TCTGGCTCCCTGCTTGGGACAAAAGCTGCCCTCACCATC ACGGGGCCCCAGGAGAGGATGAATCTGATTATTACTG TGTGCTGTGGTACAGTAACCTTTGGGTTCGGCGGAG GGACCAAAGCTGACCGTCCTA	ADI-20599 SAD5522_P03_C02	Light chain variable region ("LC") nucleic acid sequence
Ab 8	122	QTVVTQEPSLSVSPGTVTLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPERFSGSLGDKAALITGA QAEDESDYYCVLWYSNLWVFGGGTKLTVL	ADI-20599 SAD5522_P03_C02	Light chain variable region ("LC") amino acid sequence
Ab 8	123	RSSTGAVTTSNYAN	ADI-20599 SAD5522_P03_C02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 8	124	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20599 SAD5522_P03_C02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 8	125	GTDKRAP	ADI-20599 SAD5522_P03_C02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 8	126	GGCACAGACAAGCGCGCTCCC	ADI-20599 SAD5522_P03_C02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 8	127	VLWYSNLWV	ADI-20599 SAD5522_P03_C02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 8	128	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-20599 SAD5522_P03_C02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 9	129	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-20605 SAD5522_P01_E11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 9	130	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-20605 SAD5522_P01_E11	Heavy chain variable region ("HC") amino acid sequence
Ab 9	131	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFGNSVSWFAHWGQG TLVTVSS	ADI-20605 SAD5522_P01_E11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 9	132	FTFDYAMN	ADI-20605 SAD5522_P01_E11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 9	133	TTCACCTTTGACACATATGCCATGAAT	ADI-20605 SAD5522_P01_E11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 9	133	RIRSKYNNYATYYADSVKD	ADI-20605 SAD5522_P01_E11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 9	134	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-20605 SAD5522_P01_E11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 9	135	VRHGNFGNSVSWFAH	ADI-20605 SAD5522_P01_E11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 9	136	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-20605 SAD5522_P01_E11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 9	137	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCGGTGTC CCCTGGAGGGACAGTACACTCAGTGTAGATCAAGCAC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCCGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTCGGGACAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGGATGAATCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-20605 SAD5522_P01_E11	Light chain variable region ("LC") nucleic acid sequence
Ab 9	138	QTVVTQEPSLSVSPGTVTLTRSSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG AQAEDESDYYCALWYSNHWVFGGGTKLTVL	ADI-20605 SAD5522_P01_E11	Light chain variable region ("LC") amino acid sequence
Ab 9	139	RSSTGAVTTSNYAN	ADI-20605 SAD5522_P01_E11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 9	140	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20605 SAD5522_P01_E11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 9	141	GTDKRAP	ADI-20605 SAD5522_P01_E11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 9	142	GGCACAGACAAGCGCGCTCCC	ADI-20605 SAD5522_P01_E11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 9	143	ALWYSNHWV	ADI-20605 SAD5522_P01_E11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 9	144	GCGTGTGTACAGTAACCAATTGGGTG	ADI-20605 SAD5522_P01_E11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 10	145	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTCGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCCGAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-20607 SAD5520_P02_C11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 10	146	GGCCAAGGAACCCTGGTGACCCTCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTYSS	ADI-20607 SAD5520_P02_C11	Heavy chain variable region ("HC") amino acid sequence
Ab 10	147	FTFDYAMN		ADI-20607 SAD5520_P02_C11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 10	148	TTCACCTTTGACACATATGCCATGAAT		ADI-20607 SAD5520_P02_C11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 10	149	RIRSKYNNYATYYADSVKD		ADI-20607 SAD5520_P02_C11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 10	150	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-20607 SAD5520_P02_C11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 10	151	VRHSNFGNSYVSWFAH		ADI-20607 SAD5520_P02_C11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 10	152	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-20607 SAD5520_P02_C11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 10	153	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACTCACTTGTAGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAAACAAGCGGCTCTGGGGTCCCTGATCGCTTCTCTGGCTCCCTGTTGGGACAAAGCTGCCCTCACCATCA CCGGGCCCCAGGCAGATGATGAAAGCTGATTA TACTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-20607 SAD5520_P02_C11	Light chain variable region ("LC") nucleic acid sequence
Ab 10	154	QTVVTQEPSLSVSPGTVLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTTNKRAPGVDFRFSGLLGDKAALITIG AQADDEADYYCALWYSNLWVFGGGLTLTVL	ADI-20607 SAD5520_P02_C11	Light chain variable region ("LC") amino acid sequence
Ab 10	155	RSSTGAVTTSNYAN	ADI-20607 SAD5520_P02_C11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 10	156	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20607 SAD5520_P02_C11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 10	157	GTNKRAP	ADI-20607 SAD5520_P02_C11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 10	158	GGCACAACAAGCGGCTCCT	ADI-20607 SAD5520_P02_C11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 10	159	ALWYSNLWV	ADI-20607 SAD5520_P02_C11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 10	160	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-20607 SAD5520_P02_C11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 11	161	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTCTGCCACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCTGGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACCTCGGGAACAGTCACGTATCCTGGTTGCTCATTGG	ADI-20608 SAD5520_P06_G02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 11	162	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTSATYAMNWWVRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGNSHVSFWFAHWGQ GTLVTVSS	ADI-20608 SAD5520_P06_G02	Heavy chain variable region ("HC") amino acid sequence
Ab 11	163	FTSATYAMN		ADI-20608 SAD5520_P06_G02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 11	164	TTCACCTCTGCCACATATGCCATGAAT		ADI-20608 SAD5520_P06_G02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 11	165	RIRSKYNNYATYYADSVKD		ADI-20608 SAD5520_P06_G02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 11	166	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-20608 SAD5520_P06_G02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 11	167	VRHGNFNGNSHVSFWFAH		ADI-20608 SAD5520_P06_G02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 11	168	GTCAGGCACGGTAACTTCGGGAACAGTCACGTATCCTG GTTTGCTCAT		ADI-20608 SAD5520_P06_G02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 11	169	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTAGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAAACAAGCGGCTCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-20608 SAD5520_P06_G02	Light chain variable region ("LC") nucleic acid sequence
Ab 11	170	QTVVTQEPSLSVSPGTVLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTTNKRAPGVDRFSGLLGDKAALTTIG AQADDEADYYCALWYSNLWVFGGGTKLTVL	ADI-20608 SAD5520_P06_G02	Light chain variable region ("LC") amino acid sequence
Ab 11	171	RSSTGAVTTSNYAN	ADI-20608 SAD5520_P06_G02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 11	172	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20608 SAD5520_P06_G02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 11	173	GTNKRAP	ADI-20608 SAD5520_P06_G02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 11	174	GGCACAACAAGCGCGCTCCT	ADI-20608 SAD5520_P06_G02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 11	175	ALWYSNLWV	ADI-20608 SAD5520_P06_G02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 11	176	GCGTGTGTACAGTAACCTTTGGGTG	ADI-20608 SAD5520_P06_G02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 12	177	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTAACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAACACGCTGTATCTGCAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTATGATATCTCTGTTGCTTCTTGG	ADI-20609 SAD5521_P01_E04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 12	178	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-20609 SAD5521_P01_E04	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFNTYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKN TLYLQMNSLRAEDTAVYCVRHRGNFGNSVSWFASWGQ GTLVTVSS		
Ab 12	179	FTFNTYAMN	ADI-20609 SAD5521_P01_E04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 12	180	TTCACCTTTAACACACATATGCCATGAAT	ADI-20609 SAD5521_P01_E04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 12	181	RIRSKYNNYATYYADSVKD	ADI-20609 SAD5521_P01_E04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 12	182	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-20609 SAD5521_P01_E04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 12	183	VRHGNFGNSVSWFAS	ADI-20609 SAD5521_P01_E04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 12	184	GTCAGGCACGGTAACTTCGGGAACAGTTATGTATCCTG GTTTGCTTCT	ADI-20609 SAD5521_P01_E04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 12	185	CAGACTGGTGTGACCCAGGAGCCATCGTTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGCTCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAATCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-20609 SAD5521_P01_E04	Light chain variable region ("LC") nucleic acid sequence
Ab 12	186	QTVVTQEPSFSVSPGGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDES DYCALWYSNLWVFGGGTKLTVL	ADI-20609 SAD5521_P01_E04	Light chain variable region ("LC") amino acid sequence
Ab 12	187	GSSTGAVTTSNYAN	ADI-20609 SAD5521_P01_E04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 12	188	GGCTCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-20609 SAD5521_P01_E04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 12	189	GTDKRAP	ADI-20609 SAD5521_P01_E04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 12	190	GGCACAGACAAGCGCGCTCCT	ADI-20609 SAD5521_P01_E04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 12	191	ALWYSNLWV	ADI-20609 SAD5521_P01_E04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 12	192	GCGTGTGTACAGTAACCTTTGGGTG	ADI-20609 SAD5521_P01_E04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 13	193	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-21943 LAD4204_P01_E02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 13	194	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-21943 LAD4204_P01_E02	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGVYVSWFAHWGQ GTLVTVSS		
Ab 13	195	FTFDYAMN	ADI-21943 LAD4204_P01_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 13	196	TTCACCTTTGACACATATGCCATGAAT	ADI-21943 LAD4204_P01_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 13	197	RIRSKYNNYATYYADSVKD	ADI-21943 LAD4204_P01_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 13	198	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-21943 LAD4204_P01_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 13	199	VRHGNFNGVYVSWFAH	ADI-21943 LAD4204_P01_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 13	200	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-21943 LAD4204_P01_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 13	201	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21943 LAD4204_P01_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 13	202	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRFSGLLGDKAALIITGA QADDEADYCALWYSNHWVFGGGTKLTVL	ADI-21943 LAD4204_P01_E02	Light chain variable region ("LC") amino acid sequence
Ab 13	203	GSSTGAVTTSNYAN	ADI-21943 LAD4204_P01_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 13	204	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-21943 LAD4204_P01_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 13	205	GTDKRAP	ADI-21943 LAD4204_P01_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 13	206	GGCACAGACAAGCGCGCTCCT	ADI-21943 LAD4204_P01_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 13	207	ALWYSNHWV	ADI-21943 LAD4204_P01_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 13	208	GCGTGTGTACAGTAACCAATTGGGTG	ADI-21943 LAD4204_P01_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 14	209	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-21944 LAD4204_P01_E05	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTCACCGTCTCCTCA			
Ab 14	210	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-21944 LAD4204_P01_E05	Heavy chain variable region ("HC") amino acid sequence	
Ab 14	211	FTFDYAMN	ADI-21944 LAD4204_P01_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 14	212	TTCACCTTTGACACATATGCCATGAAT	ADI-21944 LAD4204_P01_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 14	213	RIRSKYNNYATYYADSVKD	ADI-21944 LAD4204_P01_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 14	214	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-21944 LAD4204_P01_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 14	215	VRHGNFNGYVSWFAH	ADI-21944 LAD4204_P01_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 14	216	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-21944 LAD4204_P01_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 14	217	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21944 LAD4204_P01_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 14	218	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG VQADDEADYYCALWYSNHWVFGGGTKLTVL	ADI-21944 LAD4204_P01_E05	Light chain variable region ("LC") amino acid sequence
Ab 14	219	GSSTGAVTTSNYAN	ADI-21944 LAD4204_P01_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 14	220	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-21944 LAD4204_P01_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 14	221	GTDKRAP	ADI-21944 LAD4204_P01_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 14	222	GGCACAGACAAGCGCGCTCCT	ADI-21944 LAD4204_P01_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 14	223	ALWYSNHWV	ADI-21944 LAD4204_P01_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 14	224	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-21944 LAD4204_P01_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 15	225	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-21945 LAD4204_P01_D06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 15	226	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-21945 LAD4204_P01_D06	Heavy chain variable region ("HC") amino acid sequence
Ab 15	227	FTFDYAMN		ADI-21945 LAD4204_P01_D06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 15	228	TTCACCTTTGACACATATGCCATGAAT		ADI-21945 LAD4204_P01_D06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 15	229	RIRSKYNNYATYYADSVKD		ADI-21945 LAD4204_P01_D06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 15	230	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21945 LAD4204_P01_D06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 15	231	VRHGNFNGYVSWFAH		ADI-21945 LAD4204_P01_D06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 15	232	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-21945 LAD4204_P01_D06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 15	233	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21945 LAD4204_P01_D06	Light chain variable region ("LC") nucleic acid sequence
Ab 15	234	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQADDEADYCVLWYSNLWVFGGKLTVL	ADI-21945 LAD4204_P01_D06	Light chain variable region ("LC") amino acid sequence
Ab 15	235	GSSAGAVTTSNYAN	ADI-21945 LAD4204_P01_D06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 15	236	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21945 LAD4204_P01_D06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 15	237	GTDKRAP	ADI-21945 LAD4204_P01_D06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 15	238	GGCACAGACAAGCGCGCTCCT	ADI-21945 LAD4204_P01_D06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 15	239	VLWYSNLWV	ADI-21945 LAD4204_P01_D06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 15	240	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-21945 LAD4204_P01_D06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 16	241	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-21946 LAD4204_P01_F06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 16	242	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS	ADI-21946 LAD4204_P01_F06	Heavy chain variable region ("HC") amino acid sequence
Ab 16	243	FTFDYAMN		ADI-21946 LAD4204_P01_F06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 16	244	TTCACCTTTGACACATATGCCATGAAT		ADI-21946 LAD4204_P01_F06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 16	245	RIRSKYNNYATYYADSVKD		ADI-21946 LAD4204_P01_F06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 16	246	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21946 LAD4204_P01_F06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 16	247	VRHGNFNGYVSWFAH		ADI-21946 LAD4204_P01_F06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 16	248	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-21946 LAD4204_P01_F06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 16	249	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21946 LAD4204_P01_F06	Light chain variable region ("LC") nucleic acid sequence
Ab 16	250	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQADDEADYYCALWYSNHWVFGGKLTVL	ADI-21946 LAD4204_P01_F06	Light chain variable region ("LC") amino acid sequence
Ab 16	251	GSSAGAVTTSNYAN	ADI-21946 LAD4204_P01_F06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 16	252	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21946 LAD4204_P01_F06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 16	253	GTDKRAP	ADI-21946 LAD4204_P01_F06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 16	254	GGCACAGACAAGCGCGCTCCT	ADI-21946 LAD4204_P01_F06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 16	255	ALWYSNHWV	ADI-21946 LAD4204_P01_F06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 16	256	GCGTGTGTACAGTAACCAATTGGGTG	ADI-21946 LAD4204_P01_F06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 17	257	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-21947 LAD4204_P01_H07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 17	258	GGCCAAGGAACCCTGGTCACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-21947 LAD4204_P01_H07	Heavy chain variable region ("HC") amino acid sequence
Ab 17	259	FTFDYAMN		ADI-21947 LAD4204_P01_H07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 17	260	TTCACCTTTGACACATATGCCATGAAT		ADI-21947 LAD4204_P01_H07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 17	261	RIRSKYNNYATYYADSVKD		ADI-21947 LAD4204_P01_H07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 17	262	AGGATTAGATCCAAGTATAACAATTACCGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21947 LAD4204_P01_H07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 17	263	VRHGNFNGYVSWFAH		ADI-21947 LAD4204_P01_H07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 17	264	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-21947 LAD4204_P01_H07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 17	265	CAGACTGGTGGTACCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAATAACCAATTGGGTGTTGCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21947 LAD4204_P01_H07	Light chain variable region ("LC") nucleic acid sequence
Ab 17	266	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQADDEADYYCALWYNNHWVFGGGTKLTVL	ADI-21947 LAD4204_P01_H07	Light chain variable region ("LC") amino acid sequence
Ab 17	267	GSSTGAVTTSNYAN	ADI-21947 LAD4204_P01_H07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 17	268	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-21947 LAD4204_P01_H07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 17	269	GTDKRAP	ADI-21947 LAD4204_P01_H07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 17	270	GGCACAGACAAGCGCGCTCCT	ADI-21947 LAD4204_P01_H07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 17	271	ALWYNNHWV	ADI-21947 LAD4204_P01_H07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 17	272	GCGCTGTGTACAATAACCAATTGGGTG	ADI-21947 LAD4204_P01_H07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 18	273	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-21948 LAD4206_P01_D10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 18	274	GGCCAAGGAACCCTGGTACCCTGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-21948 LAD4206_P01_D10	Heavy chain variable region ("HC") amino acid sequence
Ab 18	275	FTFDYAMN		ADI-21948 LAD4206_P01_D10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 18	276	TTCACCTTTGACACATATGCCATGAAT		ADI-21948 LAD4206_P01_D10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 18	277	RIRSKYNNYATYYADSVKD		ADI-21948 LAD4206_P01_D10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 18	278	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21948 LAD4206_P01_D10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 18	279	VRHSNFGNSYVSWFAH		ADI-21948 LAD4206_P01_D10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 18	280	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-21948 LAD4206_P01_D10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 18	281	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAAGCTGATTA TACTGT GTGCTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21948 LAD4206_P01_D10	Light chain variable region ("LC") nucleic acid sequence
Ab 18	282	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYCVLWYSNLWVFGGTKLTVL	ADI-21948 LAD4206_P01_D10	Light chain variable region ("LC") amino acid sequence
Ab 18	283	GSSAGAVTTSNYAN	ADI-21948 LAD4206_P01_D10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 18	284	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21948 LAD4206_P01_D10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 18	285	GTDKRAP	ADI-21948 LAD4206_P01_D10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 18	286	GGCAGACAAGCGCGCTCCT	ADI-21948 LAD4206_P01_D10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 18	287	VLWYSNLWV	ADI-21948 LAD4206_P01_D10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 18	288	GTGCTGTGTACAGTAAACCTTTGGGTG	ADI-21948 LAD4206_P01_D10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 19	289	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-21949 LAD4206_P01_F10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 19	290	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-21949 LAD4206_P01_F10	Heavy chain variable region ("HC") amino acid sequence
Ab 19	291	FTFDYAMN		ADI-21949 LAD4206_P01_F10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 19	292	TTCACCTTTGACACATATGCCATGAAT		ADI-21949 LAD4206_P01_F10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 19	293	RIRSKYNNYATYYADSVKD		ADI-21949 LAD4206_P01_F10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 19	294	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21949 LAD4206_P01_F10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 19	295	VRHSNFGNSYVSWFAH		ADI-21949 LAD4206_P01_F10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 19	296	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-21949 LAD4206_P01_F10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 19	297	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21949 LAD4206_P01_F10	Light chain variable region ("LC") nucleic acid sequence
Ab 19	298	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQADDEADYYCALWYSNHWVFGGKLTVL	ADI-21949 LAD4206_P01_F10	Light chain variable region ("LC") amino acid sequence
Ab 19	299	GSSAGAVTTSNYAN	ADI-21949 LAD4206_P01_F10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 19	300	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21949 LAD4206_P01_F10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 19	301	GTDKRAP	ADI-21949 LAD4206_P01_F10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 19	302	GGCAGACAAGCGCGCTCCT	ADI-21949 LAD4206_P01_F10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 19	303	ALWYSNHWV	ADI-21949 LAD4206_P01_F10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 19	304	GCGTGTGTACAGTAACCAATTGGGTG	ADI-21949 LAD4206_P01_F10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 20	305	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTCGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-21950 LAD4206_P01_D11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 20	306	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-21950 LAD4206_P01_D11	Heavy chain variable region ("HC") amino acid sequence
Ab 20	307	FTFDYAMN		ADI-21950 LAD4206_P01_D11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 20	308	TTCACCTTTGACACATATGCCATGAAT		ADI-21950 LAD4206_P01_D11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 20	309	RIRSKYNNYATYYADSVKD		ADI-21950 LAD4206_P01_D11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 20	310	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21950 LAD4206_P01_D11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 20	311	VRHSNFGNSYVSWFAH		ADI-21950 LAD4206_P01_D11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 20	312	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-21950 LAD4206_P01_D11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 20	313	CAGACTGGTGGTACCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAATAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21950 LAD4206_P01_D11	Light chain variable region ("LC") nucleic acid sequence
Ab 20	314	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYNNHWVFGGKLTVL	ADI-21950 LAD4206_P01_D11	Light chain variable region ("LC") amino acid sequence
Ab 20	315	GSSTGAVTTSNYAN	ADI-21950 LAD4206_P01_D11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 20	316	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-21950 LAD4206_P01_D11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 20	317	GTDKRAP	ADI-21950 LAD4206_P01_D11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 20	318	GGCACAGACAAGCGCGCTCCT	ADI-21950 LAD4206_P01_D11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 20	319	ALWYNNHWV	ADI-21950 LAD4206_P01_D11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 20	320	GCGCTGTGTACAATAACCAATTGGGTG	ADI-21950 LAD4206_P01_D11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 21	321	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCTGGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACCTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-21951 LAD4204_P02_F04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 21	322	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-21951 LAD4204_P02_F04	Heavy chain variable region ("HC") amino acid sequence
Ab 21	323	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYCVRHGNGVYVSWFAHWGQ GTLVTVSS	ADI-21951 LAD4204_P02_F04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 21	324	FTFDYAMN	ADI-21951 LAD4204_P02_F04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 21	325	TTCACCTTTGACACATATGCCATGAAT	ADI-21951 LAD4204_P02_F04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 21	325	RIRSKYNNYATYYADSVKD	ADI-21951 LAD4204_P02_F04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 21	326	AGGATTAGATCCAAGTATAACAATTACCGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-21951 LAD4204_P02_F04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 21	327	VRHGNFNGVYVSWFAH	ADI-21951 LAD4204_P02_F04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 21	328	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-21951 LAD4204_P02_F04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 21	329	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-21951 LAD4204_P02_F04	Light chain variable region ("LC") nucleic acid sequence
Ab 21	330	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTTG AQAEDEADYYCVLWYSNLWVFGGGTKLTVL	ADI-21951 LAD4204_P02_F04	Light chain variable region ("LC") amino acid sequence
Ab 21	331	GSSTGAVTTSNYAN	ADI-21951 LAD4204_P02_F04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 21	332	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-21951 LAD4204_P02_F04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 21	333	GTDKRAP	ADI-21951 LAD4204_P02_F04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 21	334	GGCAGACAAGCGCGCTCCT	ADI-21951 LAD4204_P02_F04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 21	335	VLWYSNLWV	ADI-21951 LAD4204_P02_F04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 21	336	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-21951 LAD4204_P02_F04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 22	337	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-21952 LAD4204_P02_B05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 22	338	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-21952 LAD4204_P02_B05	Heavy chain variable region ("HC") amino acid sequence
Ab 22	339	FTFDYAMN		ADI-21952 LAD4204_P02_B05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 22	340	TTCACCTTTGACACATATGCCATGAAT		ADI-21952 LAD4204_P02_B05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 22	341	RIRSKYNNYATYYADSVKD		ADI-21952 LAD4204_P02_B05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 22	342	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21952 LAD4204_P02_B05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 22	343	VRHGNFNGYVSWFAH		ADI-21952 LAD4204_P02_B05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 22	344	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-21952 LAD4204_P02_B05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 22	345	CAGACTGGTGTGACCCAGGAGGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21952 LAD4204_P02_B05	Light chain variable region ("LC") nucleic acid sequence
Ab 22	346	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-21952 LAD4204_P02_B05	Light chain variable region ("LC") amino acid sequence
Ab 22	347	GSSTGAVTTSNYAN	ADI-21952 LAD4204_P02_B05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 22	348	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-21952 LAD4204_P02_B05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 22	349	GTDKRAP	ADI-21952 LAD4204_P02_B05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 22	350	GGCACAGACAAGCGCGCTCCT	ADI-21952 LAD4204_P02_B05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 22	351	ALWYSNHWV	ADI-21952 LAD4204_P02_B05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 22	352	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-21952 LAD4204_P02_B05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 23	353	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-21953 LAD4204_P02_F01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 23	354	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-21953 LAD4204_P02_F01	Heavy chain variable region ("HC") amino acid sequence
Ab 23	355	FTFDYAMN		ADI-21953 LAD4204_P02_F01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 23	356	TTCACCTTTGACACATATGCCATGAAT		ADI-21953 LAD4204_P02_F01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 23	357	RIRSKYNNYATYYADSVKD		ADI-21953 LAD4204_P02_F01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 23	358	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21953 LAD4204_P02_F01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 23	359	VRHGNFNGYVSWFAH		ADI-21953 LAD4204_P02_F01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 23	360	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-21953 LAD4204_P02_F01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 23	361	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-21953 LAD4204_P02_F01	Light chain variable region ("LC") nucleic acid sequence
Ab 23	362	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRFSGLLGDKAALITGA QADDEADYCALWYSNLWVFGGKLTVL	ADI-21953 LAD4204_P02_F01	Light chain variable region ("LC") amino acid sequence
Ab 23	363	GSSAGAVTTSNYAN	ADI-21953 LAD4204_P02_F01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 23	364	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21953 LAD4204_P02_F01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 23	365	GTDKRAP	ADI-21953 LAD4204_P02_F01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 23	366	GGCACAGACAAGCGCGCTCCT	ADI-21953 LAD4204_P02_F01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 23	367	ALWYSNLWV	ADI-21953 LAD4204_P02_F01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 23	368	GCGCTGTGTACAGTAACTTTGGGTG	ADI-21953 LAD4204_P02_F01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 24	369	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-21954 LAD4204_P02_D03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 24	370	GGCCAAGGAACCCTGGTACCCTCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-21954 LAD4204_P02_D03	Heavy chain variable region ("HC") amino acid sequence
Ab 24	371	FTFDYAMN		ADI-21954 LAD4204_P02_D03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 24	372	TTCACCTTTGACACATATGCCATGAAT		ADI-21954 LAD4204_P02_D03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 24	373	RIRSKYNNYATYYADSVKD		ADI-21954 LAD4204_P02_D03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 24	374	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21954 LAD4204_P02_D03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 24	375	VRHGNFNGYVSWFAH		ADI-21954 LAD4204_P02_D03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 24	376	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-21954 LAD4204_P02_D03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 24	377	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAAGCTGATTA TACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-21954 LAD4204_P02_D03	Light chain variable region ("LC") nucleic acid sequence
Ab 24	378	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-21954 LAD4204_P02_D03	Light chain variable region ("LC") amino acid sequence
Ab 24	379	GSSAGAVTTSNYAN	ADI-21954 LAD4204_P02_D03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 24	380	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21954 LAD4204_P02_D03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 24	381	GTDKRAP	ADI-21954 LAD4204_P02_D03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 24	382	GGCACAGACAAGCGCGCTCCT	ADI-21954 LAD4204_P02_D03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 24	383	ALWYNNLWV	ADI-21954 LAD4204_P02_D03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 24	384	GCGCTGTGTACAATAACCTTTGGGGTG	ADI-21954 LAD4204_P02_D03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 25	385	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-21955 LAD4206_P02_G01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 25	386	GGCCAAGGAACCCTGGTGACCCTGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTYSS	ADI-21955 LAD4206_P02_G01	Heavy chain variable region ("HC") amino acid sequence
Ab 25	387	FTFDYAMN		ADI-21955 LAD4206_P02_G01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 25	388	TTCACCTTTGACACATATGCCATGAAT		ADI-21955 LAD4206_P02_G01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 25	389	RIRSKYNNYATYYADSVKD		ADI-21955 LAD4206_P02_G01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 25	390	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21955 LAD4206_P02_G01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 25	391	VRHSNFGNSYVSWFAH		ADI-21955 LAD4206_P02_G01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 25	392	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-21955 LAD4206_P02_G01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 25	393	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-21955 LAD4206_P02_G01	Light chain variable region ("LC") nucleic acid sequence
Ab 25	394	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRFSGLLGDKAALITGA QADDEADYCALWYSNLWVFGGGTKLTVL	ADI-21955 LAD4206_P02_G01	Light chain variable region ("LC") amino acid sequence
Ab 25	395	GSSAGAVTTSNYAN	ADI-21955 LAD4206_P02_G01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 25	396	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21955 LAD4206_P02_G01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 25	397	GTDKRAP	ADI-21955 LAD4206_P02_G01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 25	398	GGCACAGACAAGCGCGCTCCT	ADI-21955 LAD4206_P02_G01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 25	399	ALWYSNLWV	ADI-21955 LAD4206_P02_G01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 25	400	GCGCTGTGTACAGTAAACCTTTGGGTG	ADI-21955 LAD4206_P02_G01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 26	401	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-21956 LAD4206_P02_D03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 26	402	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-21956 LAD4206_P02_D03	Heavy chain variable region ("HC") amino acid sequence
Ab 26	403	FTFDYAMN		ADI-21956 LAD4206_P02_D03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 26	404	TTCACCTTTGACACATATGCCATGAAT		ADI-21956 LAD4206_P02_D03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 26	405	RIRSKYNNYATYYADSVKD		ADI-21956 LAD4206_P02_D03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 26	406	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-21956 LAD4206_P02_D03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 26	407	VRHSNFGNSYVSWFAH		ADI-21956 LAD4206_P02_D03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 26	408	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-21956 LAD4206_P02_D03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 26	409	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-21956 LAD4206_P02_D03	Light chain variable region ("LC") nucleic acid sequence
Ab 26	410	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-21956 LAD4206_P02_D03	Light chain variable region ("LC") amino acid sequence
Ab 26	411	GSSAGAVTTSNYAN	ADI-21956 LAD4206_P02_D03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 26	412	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-21956 LAD4206_P02_D03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 26	413	GTDKRAP	ADI-21956 LAD4206_P02_D03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 26	414	GGCACAGACAAGCGCGCTCCT	ADI-21956 LAD4206_P02_D03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 26	415	ALWYNNLWV	ADI-21956 LAD4206_P02_D03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 26	416	GCGTGTGTACAATAACCTTTGGGGTG	ADI-21956 LAD4206_P02_D03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 27	417	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAATTGGGTTGCCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGTCCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-23629 LAD4692_P01_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 27	418	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWWVRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGVYVSWFAHWGQ GTLVTVSS	ADI-23629 LAD4692_P01_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 27	419	FTFDAYAMIN		ADI-23629 LAD4692_P01_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 27	420	TTCACCTTTGACGCTTATGCCATGAAT		ADI-23629 LAD4692_P01_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 27	421	RIRSKYNDYATYYADSVKD		ADI-23629 LAD4692_P01_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 27	422	AGGATTAGATCCAAGTATAACGATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-23629 LAD4692_P01_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 27	423	VRHGNFNGVYVSWFAH		ADI-23629 LAD4692_P01_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 27	424	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-23629 LAD4692_P01_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 27	425	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGCTGTGTACAGTATCTGTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-23629 LAD4692_P01_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 27	426	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-23629 LAD4692_P01_A06	Light chain variable region ("LC") amino acid sequence
Ab 27	427	GSSTGAVTTSNYAN	ADI-23629 LAD4692_P01_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 27	428	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23629 LAD4692_P01_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 27	429	GTDKRAP	ADI-23629 LAD4692_P01_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 27	430	GGCACAGACAAGCGCGCTCCT	ADI-23629 LAD4692_P01_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 27	431	ALWYSDLWV	ADI-23629 LAD4692_P01_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 27	432	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-23629 LAD4692_P01_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 28	433	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTGTTGCTCATTGG	ADI-23632 LAD4695_P01_E09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 28	434	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-23632 LAD4695_P01_E09	Heavy chain variable region ("HC") amino acid sequence
Ab 28	435	FTFDYAMN		ADI-23632 LAD4695_P01_E09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 28	436	TTCACCTTTGACACATATGCCATGAAT		ADI-23632 LAD4695_P01_E09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 28	437	RIRSKYNNYATYYADSVKD		ADI-23632 LAD4695_P01_E09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 28	438	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-23632 LAD4695_P01_E09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 28	439	VRHGNFNGYVSWFAH		ADI-23632 LAD4695_P01_E09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 28	440	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-23632 LAD4695_P01_E09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 28	441	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTATCTGTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-23632 LAD4695_P01_E09	Light chain variable region ("LC") nucleic acid sequence
Ab 28	442	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-23632 LAD4695_P01_E09	Light chain variable region ("LC") amino acid sequence
Ab 28	443	GSSTGAVTTSNYAN	ADI-23632 LAD4695_P01_E09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 28	444	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23632 LAD4695_P01_E09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 28	445	GTDKRAP	ADI-23632 LAD4695_P01_E09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 28	446	GGCACAGACAAGCGCGCTCCT	ADI-23632 LAD4695_P01_E09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 28	447	ALWYSDLWV	ADI-23632 LAD4695_P01_E09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 28	448	GCGCTGGTACAGTGATCTGTGGGTG	ADI-23632 LAD4695_P01_E09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 29	449	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACCTCGGGAACGGTTACGTATCTGTTGCTCATTGG	ADI-23633 LAD4773_P02_A05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 29	450	GGCCAAGGAACCCTGGTCACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGNGYVSWFAHWGQG TLVTVSS	ADI-23633 LAD4773_P02_A05	Heavy chain variable region ("HC") amino acid sequence
Ab 29	451	FTFDYAMN		ADI-23633 LAD4773_P02_A05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 29	452	TTCACCTTTGACACATATGCCATGAAT		ADI-23633 LAD4773_P02_A05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 29	453	RIRSKYNNYATYYADSVKD		ADI-23633 LAD4773_P02_A05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 29	454	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-23633 LAD4773_P02_A05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 29	455	VRHGNFGNGYVSWFAH		ADI-23633 LAD4773_P02_A05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 29	456	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-23633 LAD4773_P02_A05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 29	457	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-23633 LAD4773_P02_A05	Light chain variable region ("LC") nucleic acid sequence
Ab 29	458	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALITIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-23633 LAD4773_P02_A05	Light chain variable region ("LC") amino acid sequence
Ab 29	459	GSSTGAVTTSNYAN	ADI-23633 LAD4773_P02_A05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 29	460	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23633 LAD4773_P02_A05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 29	461	GTDKRAP	ADI-23633 LAD4773_P02_A05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 29	462	GGCACAGACAAGCGCGCTCCT	ADI-23633 LAD4773_P02_A05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 29	463	ALWYSNHWV	ADI-23633 LAD4773_P02_A05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 29	464	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-23633 LAD4773_P02_A05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 30	465	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGAAGGTTACGTATCCTGTTGCTCAITGG	ADI-23634 LAD4774_P02_C06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 30	466	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-23634 LAD4774_P02_C06	Heavy chain variable region ("HC") amino acid sequence
Ab 30	467	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFGEVSWFAHWGQG TLVTVSS	ADI-23634 LAD4774_P02_C06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 30	468	FTFDYAMN	ADI-23634 LAD4774_P02_C06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 30	469	TTCACCTTTGACACATATGCCATGAAT	ADI-23634 LAD4774_P02_C06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 30	470	RIRSKYNNYATYYADSVKD	ADI-23634 LAD4774_P02_C06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 30	471	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-23634 LAD4774_P02_C06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 30	472	VRHGNFGEVSWFAH	ADI-23634 LAD4774_P02_C06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 30	473	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT	ADI-23634 LAD4774_P02_C06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 30	473	CAGACTGGTGTGACCCAGGAGGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-23634 LAD4774_P02_C06	Light chain variable region ("LC") nucleic acid sequence
Ab 30	474	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-23634 LAD4774_P02_C06	Light chain variable region ("LC") amino acid sequence
Ab 30	475	GSSTGAVTTSNYAN	ADI-23634 LAD4774_P02_C06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 30	476	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23634 LAD4774_P02_C06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 30	477	GTDKRAP	ADI-23634 LAD4774_P02_C06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 30	478	GGCACAGACAAGCGCGCTCCT	ADI-23634 LAD4774_P02_C06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 30	479	ALWYSNHWV	ADI-23634 LAD4774_P02_C06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 30	480	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-23634 LAD4774_P02_C06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 31	481	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTACGGCACCGGT AACTTCGGGGAAGGTTACGTATCCTGTTGCTCAITGG	ADI-23635 LAD4775_P02_F07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 31	482	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGEYVSWFAHWGQG TLVTYSS	ADI-23635 LAD4775_P02_F07	Heavy chain variable region ("HC") amino acid sequence
Ab 31	483	FTFDYAMN		ADI-23635 LAD4775_P02_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 31	484	TTCACCTTTGACACATATGCCATGAAT		ADI-23635 LAD4775_P02_F07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 31	485	RIRSKYNNYATYYADSVKD		ADI-23635 LAD4775_P02_F07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 31	486	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-23635 LAD4775_P02_F07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 31	487	VRHGNFGEYVSWFAH		ADI-23635 LAD4775_P02_F07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 31	488	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT		ADI-23635 LAD4775_P02_F07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 31	489	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-23635 LAD4775_P02_F07	Light chain variable region ("LC") nucleic acid sequence
Ab 31	490	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALITIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-23635 LAD4775_P02_F07	Light chain variable region ("LC") amino acid sequence
Ab 31	491	GSSTGAVTTSNYAN	ADI-23635 LAD4775_P02_F07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 31	492	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23635 LAD4775_P02_F07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 31	493	GTDKRAP	ADI-23635 LAD4775_P02_F07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 31	494	GGCACAGACAAGCGCGCTCCT	ADI-23635 LAD4775_P02_F07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 31	495	ALWYSNHWV	ADI-23635 LAD4775_P02_F07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 31	496	GCGCTGGTACAGTAACCAATTGGGTG	ADI-23635 LAD4775_P02_F07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 32	497	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACGCTCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACCTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-23636 LAD4776_P01_C01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 32	498	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-23636 LAD4776_P01_C01	Heavy chain variable region ("HC") amino acid sequence
Ab 32	499	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINALRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-23636 LAD4776_P01_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 32	500	FTFDYAMN	ADI-23636 LAD4776_P01_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 32	501	TTCACCTTTGACACATATGCCATGAAT	ADI-23636 LAD4776_P01_C01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 32	501	RIRSKYNNYATYYADSVKD	ADI-23636 LAD4776_P01_C01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 32	502	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-23636 LAD4776_P01_C01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 32	503	VRHGNFNGYVSWFAH	ADI-23636 LAD4776_P01_C01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 32	504	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-23636 LAD4776_P01_C01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 32	505	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-23636 LAD4776_P01_C01	Light chain variable region ("LC") nucleic acid sequence
Ab 32	506	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-23636 LAD4776_P01_C01	Light chain variable region ("LC") amino acid sequence
Ab 32	507	GSSTGAVTTSNYAN	ADI-23636 LAD4776_P01_C01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 32	508	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23636 LAD4776_P01_C01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 32	509	GTDKRAP	ADI-23636 LAD4776_P01_C01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 32	510	GGCAGACAAGCGCGCTCCT	ADI-23636 LAD4776_P01_C01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 32	511	ALWYSNHWV	ADI-23636 LAD4776_P01_C01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 32	512	GCGTGTGTACAGTAACCAATTGGGTG	ADI-23636 LAD4776_P01_C01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 33	513	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGCTTACGTATCTCTGGTTGCTCATTGG	ADI-23637 LAD4777_P01_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 33	514	GGCCAAGGAACCCTGGTCACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGFNGFNAYVSWFAHWGQ GTLTVSS	ADI-23637 LAD4777_P01_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 33	515	FTFDYAMN		ADI-23637 LAD4777_P01_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 33	516	TTCACCTTTGACACATATGCCATGAAT		ADI-23637 LAD4777_P01_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 33	517	RIRSKYNNYATYYADSVKD		ADI-23637 LAD4777_P01_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 33	518	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-23637 LAD4777_P01_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 33	519	VRHGFNGFNAYVSWFAH		ADI-23637 LAD4777_P01_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 33	520	GTCAGGCACGGTAACTTCGGGAACGCTTACGTATCCTG GTTTGCTCAT		ADI-23637 LAD4777_P01_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 33	521	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-23637 LAD4777_P01_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 33	522	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-23637 LAD4777_P01_A02	Light chain variable region ("LC") amino acid sequence
Ab 33	523	GSSTGAVTTSNYAN	ADI-23637 LAD4777_P01_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 33	524	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23637 LAD4777_P01_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 33	525	GTDKRAP	ADI-23637 LAD4777_P01_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 33	526	GGCACAGACAAGCGCGCTCCT	ADI-23637 LAD4777_P01_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 33	527	ALWYSNHWV	ADI-23637 LAD4777_P01_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 33	528	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-23637 LAD4777_P01_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 34	529	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACGCTCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGCTTACGTATCCTGCTTGTCTCATTGG	ADI-23638 LAD4778_P01_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 34	530	GGCCAAGGAACCCTGGTGACCCTGCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINALRAEDTAVYYCVRHGNFGNAVYVSWFAHWGQ GTLVTVSS	ADI-23638 LAD4778_P01_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 34	531	FTFDYAMN		ADI-23638 LAD4778_P01_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 34	532	TTCACCTTTGACACATATGCCATGAAT		ADI-23638 LAD4778_P01_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 34	533	RIRSKYNNYATYYADSVKD		ADI-23638 LAD4778_P01_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 34	534	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-23638 LAD4778_P01_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 34	535	VRHGNFGNAVYVSWFAH		ADI-23638 LAD4778_P01_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 34	536	GTCAGGCACGGTAACTTCGGGAACGCTTACGTATCCTG GTTTGCTCAT		ADI-23638 LAD4778_P01_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 34	537	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-23638 LAD4778_P01_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 34	538	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALITIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-23638 LAD4778_P01_A03	Light chain variable region ("LC") amino acid sequence
Ab 34	539	GSSTGAVTTSNYAN	ADI-23638 LAD4778_P01_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 34	540	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-23638 LAD4778_P01_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 34	541	GTDKRAP	ADI-23638 LAD4778_P01_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 34	542	GGCAGACAAGCGCGCTCCT	ADI-23638 LAD4778_P01_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 34	543	ALWYSNHWV	ADI-23638 LAD4778_P01_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 34	544	GCGTGTGTACAGTAACCAATTGGGTG	ADI-23638 LAD4778_P01_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 35	545	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24388 BAD24629_C01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 35	546	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24388 BAD24629_C01	Heavy chain variable region ("HC") amino acid sequence
Ab 35	547	FTFDYAMN		ADI-24388 BAD24629_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 35	548	TTCACCTTTGACACATATGCCATGAAT		ADI-24388 BAD24629_C01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 35	549	RIRSKYNNYATYYADSVKD		ADI-24388 BAD24629_C01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 35	550	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24388 BAD24629_C01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 35	551	VRHGNFNGYVSWFAH		ADI-24388 BAD24629_C01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 35	552	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24388 BAD24629_C01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 35	553	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24388 BAD24629_C01	Light chain variable region ("LC") nucleic acid sequence
Ab 35	554	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24388 BAD24629_C01	Light chain variable region ("LC") amino acid sequence
Ab 35	555	GSSTGAVTTSNYAN	ADI-24388 BAD24629_C01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 35	556	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24388 BAD24629_C01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 35	557	GTDKRAP	ADI-24388 BAD24629_C01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 35	558	GGCACAGACAAGCGCGCTCCT	ADI-24388 BAD24629_C01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 35	559	ALWYSNHWV	ADI-24388 BAD24629_C01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 35	560	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24388 BAD24629_C01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 36	561	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTGCCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24389 BAD24629_G01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 36	562	GGCCAAGGAACCCTGGTGACCCTCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24389 BAD24629_G01	Heavy chain variable region ("HC") amino acid sequence
Ab 36	563	FTFDYAMN		ADI-24389 BAD24629_G01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 36	564	TTCACCTTTGACACATATGCCATGAAT		ADI-24389 BAD24629_G01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 36	565	RIRSKYNNYATYYADSVKD		ADI-24389 BAD24629_G01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 36	566	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24389 BAD24629_G01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 36	567	VRHGNFNGYVSWFAH		ADI-24389 BAD24629_G01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 36	568	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24389 BAD24629_G01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 36	569	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24389 BAD24629_G01	Light chain variable region ("LC") nucleic acid sequence
Ab 36	570	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24389 BAD24629_G01	Light chain variable region ("LC") amino acid sequence
Ab 36	571	GSSTGAVTTSNYAN	ADI-24389 BAD24629_G01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 36	572	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24389 BAD24629_G01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 36	573	GTDKRAP	ADI-24389 BAD24629_G01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 36	574	GGCACAGACAAGCGCGCTCCT	ADI-24389 BAD24629_G01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 36	575	ALWYSNHWV	ADI-24389 BAD24629_G01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 36	576	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24389 BAD24629_G01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 37	577	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTGCCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24390 BAD24629_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 37	578	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24390 BAD24629_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 37	579	FTFDYAMN		ADI-24390 BAD24629_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 37	580	TTCACCTTTGACACATATGCCATGAAT		ADI-24390 BAD24629_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 37	581	RIRSKYNNYATYYADSVKD		ADI-24390 BAD24629_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 37	582	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24390 BAD24629_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 37	583	VRHGNFNGYVSWFAH		ADI-24390 BAD24629_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 37	584	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24390 BAD24629_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 37	585	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24390 BAD24629_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 37	586	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24390 BAD24629_A02	Light chain variable region ("LC") amino acid sequence
Ab 37	587	GSSTGAVTTSNYAN	ADI-24390 BAD24629_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 37	588	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24390 BAD24629_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 37	589	GTDKRAP	ADI-24390 BAD24629_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 37	590	GGCACAGACAAGCGCGCTCCT	ADI-24390 BAD24629_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 37	591	ALWYSNHWV	ADI-24390 BAD24629_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 37	592	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24390 BAD24629_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 38	593	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24391 BAD24629_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 38	594	GGCCAAGGAACCCTGGTGACCCTGCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24391 BAD24629_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 38	595	FTFDYAMN		ADI-24391 BAD24629_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 38	596	TTCACCTTTGACACATATGCCATGAAT		ADI-24391 BAD24629_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 38	597	RIRSKYNNYATYYADSVKD		ADI-24391 BAD24629_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 38	598	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24391 BAD24629_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 38	599	VRHGNFNGYVSWFAH		ADI-24391 BAD24629_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 38	600	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24391 BAD24629_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 38	601	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24391 BAD24629_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 38	602	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24391 BAD24629_A03	Light chain variable region ("LC") amino acid sequence
Ab 38	603	GSSTGAVTTSNYAN	ADI-24391 BAD24629_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 38	604	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24391 BAD24629_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 38	605	GTDKRAP	ADI-24391 BAD24629_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 38	606	GGCACAGACAAGCGCGCTCCT	ADI-24391 BAD24629_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 38	607	ALWYSNHWV	ADI-24391 BAD24629_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 38	608	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-24391 BAD24629_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 39	609	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24392 BAD24629_H03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 39	610	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS	ADI-24392 BAD24629_H03	Heavy chain variable region ("HC") amino acid sequence
Ab 39	611	FTFDYAMN		ADI-24392 BAD24629_H03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 39	612	TTCACCTTTGACACATATGCCATGAAT		ADI-24392 BAD24629_H03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 39	613	RIRSKYNNYATYYADSVKD		ADI-24392 BAD24629_H03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 39	614	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24392 BAD24629_H03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 39	615	VRHGNFNGYVSWFAH		ADI-24392 BAD24629_H03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 39	616	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24392 BAD24629_H03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 39	617	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24392 BAD24629_H03	Light chain variable region ("LC") nucleic acid sequence
Ab 39	618	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24392 BAD24629_H03	Light chain variable region ("LC") amino acid sequence
Ab 39	619	GSSTGAVTTSNYAN	ADI-24392 BAD24629_H03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 39	620	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24392 BAD24629_H03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 39	621	GTDKRAP	ADI-24392 BAD24629_H03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 39	622	GGCAGACAAGCGCGCTCCT	ADI-24392 BAD24629_H03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 39	623	ALWYSNHWV	ADI-24392 BAD24629_H03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 39	624	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24392 BAD24629_H03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 40	625	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24393 BAD24629_A04	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA		
Ab 40	626	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLTVSS	ADI-24393 BAD24629_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 40	627	FTFDYAMN	ADI-24393 BAD24629_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 40	628	TTCACCTTTGACACATATGCCATGAAT	ADI-24393 BAD24629_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 40	629	RIRSKYNNYATYYADSVKD	ADI-24393 BAD24629_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 40	630	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-24393 BAD24629_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 40	631	VRHGNFNGYVSWFAH	ADI-24393 BAD24629_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 40	632	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-24393 BAD24629_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 40	633	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24393 BAD24629_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 40	634	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24393 BAD24629_A04	Light chain variable region ("LC") amino acid sequence
Ab 40	635	GSSTGAVTTSNYAN	ADI-24393 BAD24629_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 40	636	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24393 BAD24629_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 40	637	GTDKRAP	ADI-24393 BAD24629_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 40	638	GGCACAGACAAGCGCGCTCCT	ADI-24393 BAD24629_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 40	639	ALWYSNHWV	ADI-24393 BAD24629_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 40	640	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24393 BAD24629_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 41	641	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTCGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACTATAC TCCGTGAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGCGGTGTACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTCGTTTGCTCATTGGG	ADI-24394 BAD24702_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 41	642	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWWVRQ APGKLEWVARIRSKYNNYATYYSYVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24394 BAD24702_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 41	643	FTFDYAMN		ADI-24394 BAD24702_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 41	644	TTCACCTTTGACACATATGCCATGAAT		ADI-24394 BAD24702_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 41	645	RIRSKYNNYATYYSYVKD		ADI-24394 BAD24702_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 41	646	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC TCATACTCCGTGAAGGAT		ADI-24394 BAD24702_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 41	647	VRHGNFNGYVSWFAH		ADI-24394 BAD24702_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 41	648	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24394 BAD24702_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 41	649	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATTAAGT GCGCTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24394 BAD24702_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 41	650	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24394 BAD24702_A01	Light chain variable region ("LC") amino acid sequence
Ab 41	651	GSSTGAVTTSNYAN	ADI-24394 BAD24702_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 41	652	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24394 BAD24702_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 41	653	GTDKRAP	ADI-24394 BAD24702_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 41	654	GGCAGACAAGCGCGCTCCT	ADI-24394 BAD24702_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 41	655	ALWYSNHWV	ADI-24394 BAD24702_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 41	656	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24394 BAD24702_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 42	657	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24395 BAD24629_B05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 42	658	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24395 BAD24629_B05	Heavy chain variable region ("HC") amino acid sequence
Ab 42	659	FTFDYAMN		ADI-24395 BAD24629_B05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 42	660	TTCACCTTTGACACATATGCCATGAAT		ADI-24395 BAD24629_B05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 42	661	RIRSKYNNYATYYADSVKD		ADI-24395 BAD24629_B05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 42	662	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24395 BAD24629_B05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 42	663	VRHGNFNGYVSWFAH		ADI-24395 BAD24629_B05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 42	664	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24395 BAD24629_B05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 42	665	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24395 BAD24629_B05	Light chain variable region ("LC") nucleic acid sequence
Ab 42	666	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24395 BAD24629_B05	Light chain variable region ("LC") amino acid sequence
Ab 42	667	GSSTGAVTTSNYAN	ADI-24395 BAD24629_B05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 42	668	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24395 BAD24629_B05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 42	669	GTDKRAP	ADI-24395 BAD24629_B05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 42	670	GGCACAGACAAGCGCGCTCCT	ADI-24395 BAD24629_B05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 42	671	ALWYSNHWV	ADI-24395 BAD24629_B05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 42	672	GCGTGTGTACAGTAACCAATTGGGTG	ADI-24395 BAD24629_B05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 43	673	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTGCCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24396 BAD24629_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 43	674	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24396 BAD24629_E05	Heavy chain variable region ("HC") amino acid sequence
Ab 43	675	FTFDYAMN		ADI-24396 BAD24629_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 43	676	TTCACCTTTGACACATATGCCATGAAT		ADI-24396 BAD24629_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 43	677	RIRSKYNNYATYYADSVKD		ADI-24396 BAD24629_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 43	678	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24396 BAD24629_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 43	679	VRHGNFNGYVSWFAH		ADI-24396 BAD24629_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 43	680	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24396 BAD24629_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 43	681	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATTAATGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24396 BAD24629_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 43	682	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24396 BAD24629_E05	Light chain variable region ("LC") amino acid sequence
Ab 43	683	GSSTGAVTTSNYAN	ADI-24396 BAD24629_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 43	684	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24396 BAD24629_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 43	685	GTDKRAP	ADI-24396 BAD24629_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 43	686	GGCAGACAAGCGCGCTCCT	ADI-24396 BAD24629_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 43	687	ALWYSNHWV	ADI-24396 BAD24629_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 43	688	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24396 BAD24629_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 44	689	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTGCCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24397 BAD24629_B06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 44	690	GGCCAAGGAACCCTGGTGACCCTGCTCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24397 BAD24629_B06	Heavy chain variable region ("HC") amino acid sequence
Ab 44	691	FTFDYAMN		ADI-24397 BAD24629_B06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 44	692	TTCACCTTTGACACATATGCCATGAAT		ADI-24397 BAD24629_B06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 44	693	RIRSKYNNYATYYADSVKD		ADI-24397 BAD24629_B06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 44	694	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24397 BAD24629_B06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 44	695	VRHGNFNGYVSWFAH		ADI-24397 BAD24629_B06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 44	696	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24397 BAD24629_B06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 44	697	CAGACTGGTGGTACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24397 BAD24629_B06	Light chain variable region ("LC") nucleic acid sequence
Ab 44	698	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24397 BAD24629_B06	Light chain variable region ("LC") amino acid sequence
Ab 44	699	GSSTGAVTTSNYAN	ADI-24397 BAD24629_B06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 44	700	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24397 BAD24629_B06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 44	701	GTDKRAP	ADI-24397 BAD24629_B06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 44	702	GGCACAGACAAGCGCGCTCCT	ADI-24397 BAD24629_B06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 44	703	ALWYSNHWV	ADI-24397 BAD24629_B06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 44	704	GCGCTGTGGTACAGTAACCAATTGGGTG	ADI-24397 BAD24629_B06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 45	705	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24398 BAD24734_D01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 45	706	GGCCAAGGAACCCTGGTGACCCTGCTCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYCYVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24398 BAD24734_D01	Heavy chain variable region ("HC") amino acid sequence
Ab 45	707	FTFDYAMN		ADI-24398 BAD24734_D01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 45	708	TTCACCTTTGACACATATGCCATGAAT		ADI-24398 BAD24734_D01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 45	709	RIRSKYNNYATYYADSVKD		ADI-24398 BAD24734_D01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 45	710	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24398 BAD24734_D01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 45	711	VRHGNFNGYVSWFAH		ADI-24398 BAD24734_D01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 45	712	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24398 BAD24734_D01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 45	713	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCCGCGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24398 BAD24734_D01	Light chain variable region ("LC") nucleic acid sequence
Ab 45	714	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24398 BAD24734_D01	Light chain variable region ("LC") amino acid sequence
Ab 45	715	GSSTGAVTTSNYAN	ADI-24398 BAD24734_D01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 45	716	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24398 BAD24734_D01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 45	717	GTDKRAP	ADI-24398 BAD24734_D01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 45	718	GGCACAGACAAGCGCGCTCCT	ADI-24398 BAD24734_D01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 45	719	ALWYSNHWV	ADI-24398 BAD24734_D01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 45	720	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24398 BAD24734_D01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 46	721	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24399 BAD24702_F02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 46	722	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24399 BAD24702_F02	Heavy chain variable region ("HC") amino acid sequence
Ab 46	723	FTFDYAMN		ADI-24399 BAD24702_F02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 46	724	TTCACCTTTGACACATATGCCATGAAT		ADI-24399 BAD24702_F02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 46	725	RIRSKYNNYATYYADSVKD		ADI-24399 BAD24702_F02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 46	726	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24399 BAD24702_F02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 46	727	VRHGNFNGYVSWFAH		ADI-24399 BAD24702_F02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 46	728	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24399 BAD24702_F02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 46	729	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24399 BAD24702_F02	Light chain variable region ("LC") nucleic acid sequence
Ab 46	730	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24399 BAD24702_F02	Light chain variable region ("LC") amino acid sequence
Ab 46	731	GSSTGAVTTSNYAN	ADI-24399 BAD24702_F02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 46	732	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24399 BAD24702_F02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 46	733	GTDKRAP	ADI-24399 BAD24702_F02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 46	734	GGCAGACAAGCGCGCTCCT	ADI-24399 BAD24702_F02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 46	735	ALWYSNHWV	ADI-24399 BAD24702_F02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 46	736	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24399 BAD24702_F02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 47	737	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24400 BAD24629_G07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 47	738	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24400 BAD24629_G07	Heavy chain variable region ("HC") amino acid sequence
Ab 47	739	FTFDYAMN		ADI-24400 BAD24629_G07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 47	740	TTCACCTTTGACACATATGCCATGAAT		ADI-24400 BAD24629_G07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 47	741	RIRSKYNNYATYYADSVKD		ADI-24400 BAD24629_G07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 47	742	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24400 BAD24629_G07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 47	743	VRHGNFNGYVSWFAH		ADI-24400 BAD24629_G07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 47	744	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24400 BAD24629_G07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 47	745	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGTTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24400 BAD24629_G07	Light chain variable region ("LC") nucleic acid sequence
Ab 47	746	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24400 BAD24629_G07	Light chain variable region ("LC") amino acid sequence
Ab 47	747	GSSTGAVTTSNYAN	ADI-24400 BAD24629_G07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 47	748	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24400 BAD24629_G07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 47	749	GTDKRAP	ADI-24400 BAD24629_G07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 47	750	GGCAGACAAGCGCGCTCCT	ADI-24400 BAD24629_G07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 47	751	ALWYSNHWV	ADI-24400 BAD24629_G07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 47	752	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24400 BAD24629_G07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 48	753	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24401 BAD24629_A08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 48	754	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24401 BAD24629_A08	Heavy chain variable region ("HC") amino acid sequence
Ab 48	755	FTFDYAMN		ADI-24401 BAD24629_A08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 48	756	TTCACCTTTGACACATATGCCATGAAT		ADI-24401 BAD24629_A08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 48	757	RIRSKYNNYATYYADSVKD		ADI-24401 BAD24629_A08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 48	758	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24401 BAD24629_A08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 48	759	VRHGNFNGYVSWFAH		ADI-24401 BAD24629_A08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 48	760	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24401 BAD24629_A08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 48	761	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATTAATGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24401 BAD24629_A08	Light chain variable region ("LC") nucleic acid sequence
Ab 48	762	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24401 BAD24629_A08	Light chain variable region ("LC") amino acid sequence
Ab 48	763	GSSTGAVTTSNYAN	ADI-24401 BAD24629_A08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 48	764	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24401 BAD24629_A08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 48	765	GTDKRAP	ADI-24401 BAD24629_A08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 48	766	GGCACAGACAAGCGCGCTCCT	ADI-24401 BAD24629_A08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 48	767	ALWYSNHWV	ADI-24401 BAD24629_A08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 48	768	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-24401 BAD24629_A08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 49	769	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-24402 BAD24629_E08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 49	770	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYCYCRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24402 BAD24629_E08	Heavy chain variable region ("HC") amino acid sequence
Ab 49	771	FTFDYAMN		ADI-24402 BAD24629_E08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 49	772	TTCACCTTTGACACATATGCCATGAAT		ADI-24402 BAD24629_E08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 49	773	RIRSKYNNYATYYADSVKD		ADI-24402 BAD24629_E08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 49	774	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24402 BAD24629_E08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 49	775	VRHGNFNGYVSWFAH		ADI-24402 BAD24629_E08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 49	776	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24402 BAD24629_E08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 49	777	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-24402 BAD24629_E08	Light chain variable region ("LC") nucleic acid sequence
Ab 49	778	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-24402 BAD24629_E08	Light chain variable region ("LC") amino acid sequence
Ab 49	779	GSSTGAVTTSNYAN	ADI-24402 BAD24629_E08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 49	780	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24402 BAD24629_E08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 49	781	GTDKRAP	ADI-24402 BAD24629_E08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 49	782	GGCAGACAAGCGCGCTCCT	ADI-24402 BAD24629_E08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 49	783	ALWYSNHWV	ADI-24402 BAD24629_E08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 49	784	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24402 BAD24629_E08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 50	785	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTGTTTGGTTCATTGGG	ADI-24419 BAD24630_D05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 50	786	GCCAAGGAACCCCTGGTCACCCGTCCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24419 BAD24630_D05	Heavy chain variable region ("HC") amino acid sequence
Ab 50	787	FTFDYAMN		ADI-24419 BAD24630_D05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 50	788	TTCACCTTTGACACATATGCCATGAAT		ADI-24419 BAD24630_D05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 50	789	RIRSKYNNYATYYADSVKD		ADI-24419 BAD24630_D05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 50	790	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24419 BAD24630_D05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 50	791	VRHGNFNGYVSWFAH		ADI-24419 BAD24630_D05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 50	792	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24419 BAD24630_D05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 50	793	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24419 BAD24630_D05	Light chain variable region ("LC") nucleic acid sequence
Ab 50	794	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24419 BAD24630_D05	Light chain variable region ("LC") amino acid sequence
Ab 50	795	GSSTGAVTTSNYAN	ADI-24419 BAD24630_D05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 50	796	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24419 BAD24630_D05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 50	797	GTDKRAP	ADI-24419 BAD24630_D05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 50	798	GGCAGACAAGCGCGCTCCT	ADI-24419 BAD24630_D05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 50	799	ALWYSNHWV	ADI-24419 BAD24630_D05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 50	800	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24419 BAD24630_D05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 51	801	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTACCACTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGTACTACTCGGTACGGCACCGGTA ACTTCGGGAACGGTTACGTATCCTCGTTTGCTCATTGGG	ADI-24420 BAD24630_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 51	802	GCCAAGGAACCCCTGGTCACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGVYVSWFAHWGQ GTLVTVSS	ADI-24420 BAD24630_E05	Heavy chain variable region ("HC") amino acid sequence
Ab 51	803	FTFDYAMN		ADI-24420 BAD24630_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 51	804	TTCACCTTTGACACATATGCCATGAAT		ADI-24420 BAD24630_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 51	805	RIRSKYNNYATYYADSVKD		ADI-24420 BAD24630_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 51	806	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24420 BAD24630_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 51	807	VRHGNFNGVYVSWFAH		ADI-24420 BAD24630_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 51	808	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24420 BAD24630_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 51	809	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24420 BAD24630_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 51	810	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24420 BAD24630_E05	Light chain variable region ("LC") amino acid sequence
Ab 51	811	GSSTGAVTTSNYAN	ADI-24420 BAD24630_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 51	812	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24420 BAD24630_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 51	813	GTDKRAP	ADI-24420 BAD24630_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 51	814	GGCAGACAAGCGCGCTCCT	ADI-24420 BAD24630_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 51	815	ALWYSNHWV	ADI-24420 BAD24630_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 51	816	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24420 BAD24630_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 52	817	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTGTTTGGCTCATTGGG	ADI-24421 BAD24630_D06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 52	818	GCCAAGGAACCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24421 BAD24630_D06	Heavy chain variable region ("HC") amino acid sequence
Ab 52	819	FTFDYAMN		ADI-24421 BAD24630_D06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 52	820	TTCACCTTTGACACATATGCCATGAAT		ADI-24421 BAD24630_D06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 52	821	RIRSKYNNYATYYADSVKD		ADI-24421 BAD24630_D06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 52	822	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24421 BAD24630_D06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 52	823	VRHGNFNGYVSWFAH		ADI-24421 BAD24630_D06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 52	824	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24421 BAD24630_D06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 52	825	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24421 BAD24630_D06	Light chain variable region ("LC") nucleic acid sequence
Ab 52	826	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24421 BAD24630_D06	Light chain variable region ("LC") amino acid sequence
Ab 52	827	GSSTGAVTTSNYAN	ADI-24421 BAD24630_D06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 52	828	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24421 BAD24630_D06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 52	829	GTDKRAP	ADI-24421 BAD24630_D06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 52	830	GGCAGACAAGCGCGCTCCT	ADI-24421 BAD24630_D06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 52	831	ALWYSNHWV	ADI-24421 BAD24630_D06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 52	832	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24421 BAD24630_D06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 53	833	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTCGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTACCACTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTGTTTGGCTCATTGGG	ADI-24422 BAD24702_D07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 53	834	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24422 BAD24702_D07	Heavy chain variable region ("HC") amino acid sequence
Ab 53	835	FTFDYAMN		ADI-24422 BAD24702_D07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 53	836	TTCACCTTTGACACATATGCCATGAAT		ADI-24422 BAD24702_D07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 53	837	RIRSKYNNYATYYADSVKD		ADI-24422 BAD24702_D07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 53	838	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24422 BAD24702_D07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 53	839	VRHGNFNGYVSWFAH		ADI-24422 BAD24702_D07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 53	840	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24422 BAD24702_D07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 53	841	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24422 BAD24702_D07	Light chain variable region ("LC") nucleic acid sequence
Ab 53	842	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24422 BAD24702_D07	Light chain variable region ("LC") amino acid sequence
Ab 53	843	GSSTGAVTTSNYAN	ADI-24422 BAD24702_D07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 53	844	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24422 BAD24702_D07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 53	845	GTDKRAP	ADI-24422 BAD24702_D07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 53	846	GGCAGACAAGCGCGCTCCT	ADI-24422 BAD24702_D07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 53	847	ALWYSNHWV	ADI-24422 BAD24702_D07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 53	848	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24422 BAD24702_D07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 54	849	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTCTGGTTTGCTCATTGGG	ADI-24423 BAD24702_C08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 54	850	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24423 BAD24702_C08	Heavy chain variable region ("HC") amino acid sequence
Ab 54	851	FTFDYAMN		ADI-24423 BAD24702_C08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 54	852	TTCACCTTTGACACATATGCCATGAAT		ADI-24423 BAD24702_C08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 54	853	RIRSKYNNYATYYADSVKD		ADI-24423 BAD24702_C08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 54	854	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24423 BAD24702_C08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 54	855	VRHGNFNGYVSWFAH		ADI-24423 BAD24702_C08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 54	856	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24423 BAD24702_C08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 54	857	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24423 BAD24702_C08	Light chain variable region ("LC") nucleic acid sequence
Ab 54	858	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24423 BAD24702_C08	Light chain variable region ("LC") amino acid sequence
Ab 54	859	GSSTGAVTTSNYAN	ADI-24423 BAD24702_C08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 54	860	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24423 BAD24702_C08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 54	861	GTDKRAP	ADI-24423 BAD24702_C08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 54	862	GGCACAGACAAGCGCGCTCCT	ADI-24423 BAD24702_C08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 54	863	ALWYSNHWV	ADI-24423 BAD24702_C08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 54	864	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24423 BAD24702_C08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 55	865	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTACCACTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTACTACTCGGTACGGCACCGGTA ACTTCGGGAACGGTTACGTATCCTCTGGTTGCTCATTGGG	ADI-24424 BAD24630_E07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 55	866	GCCAAGGAACCCCTGGTCACCCGTCCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWWVRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSLRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24424 BAD24630_E07	Heavy chain variable region ("HC") amino acid sequence
Ab 55	867	FTFDYAMN		ADI-24424 BAD24630_E07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 55	868	TTCACCTTTGACACATATGCCATGAAT		ADI-24424 BAD24630_E07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 55	869	RIRSKYNNYATYYADSVKD		ADI-24424 BAD24630_E07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 55	870	AGGATTAGATCCAAGTATAACAATTACCGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24424 BAD24630_E07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 55	871	VRHGNFNGYVSWFAH		ADI-24424 BAD24630_E07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 55	872	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24424 BAD24630_E07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 55	873	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATGCT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24424 BAD24630_E07	Light chain variable region ("LC") nucleic acid sequence
Ab 55	874	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24424 BAD24630_E07	Light chain variable region ("LC") amino acid sequence
Ab 55	875	GSSTGAVTTSNYAN	ADI-24424 BAD24630_E07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 55	876	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24424 BAD24630_E07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 55	877	GTDKRAP	ADI-24424 BAD24630_E07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 55	878	GGCAGACAAGCGCGCTCCT	ADI-24424 BAD24630_E07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 55	879	ALWYSNHWV	ADI-24424 BAD24630_E07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 55	880	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24424 BAD24630_E07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 56	881	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTACCACTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTGAGGCACCGGTA ACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGGG	ADI-24425 BAD24630_C08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 56	882	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24425 BAD24630_C08	Heavy chain variable region ("HC") amino acid sequence
Ab 56	883	FTFDYAMN		ADI-24425 BAD24630_C08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 56	884	TTCACCTTTGACACATATGCCATGAAT		ADI-24425 BAD24630_C08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 56	885	RIRSKYNNYATYYADSVKD		ADI-24425 BAD24630_C08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 56	886	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24425 BAD24630_C08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 56	887	VRHGNFNGYVSWFAH		ADI-24425 BAD24630_C08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 56	888	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24425 BAD24630_C08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 56	889	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24425 BAD24630_C08	Light chain variable region ("LC") nucleic acid sequence
Ab 56	890	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24425 BAD24630_C08	Light chain variable region ("LC") amino acid sequence
Ab 56	891	GSSTGAVTTSNYAN	ADI-24425 BAD24630_C08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 56	892	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24425 BAD24630_C08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 56	893	GTDKRAP	ADI-24425 BAD24630_C08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 56	894	GGCAGACAAGCGCGCTCCT	ADI-24425 BAD24630_C08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 56	895	ALWYSNHWV	ADI-24425 BAD24630_C08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 56	896	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24425 BAD24630_C08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 57	897	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTACCACTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTGAGGACCGGTA ACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGGG	ADI-24426 BAD24702_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 57	898	GCCAAGGAACCCCTGGTCACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24426 BAD24702_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 57	899		FTFDYAMN	ADI-24426 BAD24702_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 57	900		TTCACCTTTGACACATATGCCATGAAT	ADI-24426 BAD24702_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 57	901		RIRSKYNNYATYYADSVKD	ADI-24426 BAD24702_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 57	902		AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-24426 BAD24702_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 57	903		VRHGNFNGYVSWFAH	ADI-24426 BAD24702_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 57	904		GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-24426 BAD24702_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 57	905	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGATCAAGCACT GGCGCAGTCACTACTAGTAAGTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24426 BAD24702_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 57	906	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24426 BAD24702_A09	Light chain variable region ("LC") amino acid sequence
Ab 57	907	GSSTGAVTTSNYAN	ADI-24426 BAD24702_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 57	908	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24426 BAD24702_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 57	909	GTDKRAP	ADI-24426 BAD24702_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 57	910	GGCAGACAAGCGCGCTCCT	ADI-24426 BAD24702_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 57	911	ALWYSNHWV	ADI-24426 BAD24702_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 57	912	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24426 BAD24702_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 58	913	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGGG	ADI-24427 BAD24630_C09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 58	914	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24427 BAD24630_C09	Heavy chain variable region ("HC") amino acid sequence
Ab 58	915	FTFDYAMN		ADI-24427 BAD24630_C09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 58	916	TTCACCTTTGACACATATGCCATGAAT		ADI-24427 BAD24630_C09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 58	917	RIRSKYNNYATYYADSVKD		ADI-24427 BAD24630_C09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 58	918	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24427 BAD24630_C09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 58	919	VRHGNFNGYVSWFAH		ADI-24427 BAD24630_C09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 58	920	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24427 BAD24630_C09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 58	921	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24427 BAD24630_C09	Light chain variable region ("LC") nucleic acid sequence
Ab 58	922	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24427 BAD24630_C09	Light chain variable region ("LC") amino acid sequence
Ab 58	923	GSSTGAVTTSNYAN	ADI-24427 BAD24630_C09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 58	924	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24427 BAD24630_C09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 58	925	GTDKRAP	ADI-24427 BAD24630_C09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 58	926	GGCAGACAAGCGCGCTCCT	ADI-24427 BAD24630_C09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 58	927	ALWYSNHWV	ADI-24427 BAD24630_C09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 58	928	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24427 BAD24630_C09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 59	929	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTACCACTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTCTGGTTGCTCATTGGG	ADI-24428 BAD24630_F09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 59	930	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWWVRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24428 BAD24630_F09	Heavy chain variable region ("HC") amino acid sequence
Ab 59	931	FTFDYAMN		ADI-24428 BAD24630_F09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 59	932	TTCACCTTTGACACATATGCCATGAAT		ADI-24428 BAD24630_F09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 59	933	RIRSKYNNYATYYADSVKD		ADI-24428 BAD24630_F09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 59	934	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24428 BAD24630_F09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 59	935	VRHGNFNGYVSWFAH		ADI-24428 BAD24630_F09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 59	936	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24428 BAD24630_F09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 59	937	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24428 BAD24630_F09	Light chain variable region ("LC") nucleic acid sequence
Ab 59	938	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24428 BAD24630_F09	Light chain variable region ("LC") amino acid sequence
Ab 59	939	GSSTGAVTTSNYAN	ADI-24428 BAD24630_F09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 59	940	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24428 BAD24630_F09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 59	941	GTDKRAP	ADI-24428 BAD24630_F09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 59	942	GGCAGACAAGCGCGCTCCT	ADI-24428 BAD24630_F09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 59	943	ALWYSNHWV	ADI-24428 BAD24630_F09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 59	944	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24428 BAD24630_F09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 60	945	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTACCACTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTCTGGTTGCTCATTGGG	ADI-24429 BAD24630_C10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 60	946	GCCAAGGAACCCCTGGTCACCCGTCCTCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24429 BAD24630_C10	Heavy chain variable region ("HC") amino acid sequence
Ab 60	947	FTFDYAMN		ADI-24429 BAD24630_C10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 60	948	TTCACCTTTGACACATATGCCATGAAT		ADI-24429 BAD24630_C10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 60	949	RIRSKYNNYATYYADSVKD		ADI-24429 BAD24630_C10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 60	950	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24429 BAD24630_C10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 60	951	VRHGNFNGYVSWFAH		ADI-24429 BAD24630_C10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 60	952	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24429 BAD24630_C10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 60	953	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCTCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24429 BAD24630_C10	Light chain variable region ("LC") nucleic acid sequence
Ab 60	954	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFLSGLLGDKAALITGA QAEDEADYICALWYSNHWVFGCGTKLTVL	ADI-24429 BAD24630_C10	Light chain variable region ("LC") amino acid sequence
Ab 60	955	GSSTGAVTTSNYAN	ADI-24429 BAD24630_C10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 60	956	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24429 BAD24630_C10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 60	957	GTDKRAP	ADI-24429 BAD24630_C10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 60	958	GGCAGACAAGCGCGCTCCT	ADI-24429 BAD24630_C10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 60	959	ALWYSNHWV	ADI-24429 BAD24630_C10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 60	960	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24429 BAD24630_C10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 61	961	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTGAGGACCGGTA ACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGGG	ADI-24430 BAD24702_D09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 61	962	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24430 BAD24702_D09	Heavy chain variable region ("HC") amino acid sequence
Ab 61	963	FTFDYAMN		ADI-24430 BAD24702_D09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 61	964	TTCACCTTTGACACATATGCCATGAAT		ADI-24430 BAD24702_D09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 61	965	RIRSKYNNYATYYADSVKD		ADI-24430 BAD24702_D09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 61	966	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24430 BAD24702_D09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 61	967	VRHGNFNGYVSWFAH		ADI-24430 BAD24702_D09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 61	968	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24430 BAD24702_D09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 61	969	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATTAATGT GCGCTGTGTACAGTAACCAATTGGGTGTTCCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24430 BAD24702_D09	Light chain variable region ("LC") nucleic acid sequence
Ab 61	970	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24430 BAD24702_D09	Light chain variable region ("LC") amino acid sequence
Ab 61	971	GSSTGAVTTSNYAN	ADI-24430 BAD24702_D09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 61	972	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24430 BAD24702_D09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 61	973	GTDKRAP	ADI-24430 BAD24702_D09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 61	974	GGCACAGACAAGCGCGCTCCT	ADI-24430 BAD24702_D09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 61	975	ALWYSNHWV	ADI-24430 BAD24702_D09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 61	976	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24430 BAD24702_D09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 62	977	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAAATACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTGACTACTCGGTGAGGCACCGGTA ACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGGG	ADI-24431 BAD24702_B11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 62	978	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24431 BAD24702_B11	Heavy chain variable region ("HC") amino acid sequence
Ab 62	979	FTFDYAMN		ADI-24431 BAD24702_B11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 62	980	TTCACCTTTGACACATATGCCATGAAT		ADI-24431 BAD24702_B11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 62	981	RIRSKYNNYATYYADSVKD		ADI-24431 BAD24702_B11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 62	982	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24431 BAD24702_B11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 62	983	VRHGNFNGYVSWFAH		ADI-24431 BAD24702_B11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 62	984	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24431 BAD24702_B11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 62	985	CAGACTGGTGTGACCCAGGAGGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24431 BAD24702_B11	Light chain variable region ("LC") nucleic acid sequence
Ab 62	986	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24431 BAD24702_B11	Light chain variable region ("LC") amino acid sequence
Ab 62	987	GSSTGAVTTSNYAN	ADI-24431 BAD24702_B11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 62	988	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24431 BAD24702_B11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 62	989	GTDKRAP	ADI-24431 BAD24702_B11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 62	990	GGCACAGACAAGCGCGCTCCT	ADI-24431 BAD24702_B11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 62	991	ALWYSNHWV	ADI-24431 BAD24702_B11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 62	992	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24431 BAD24702_B11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 63	993	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTACTACTCGGTTCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTCTGGTTGCTCATTGGG	ADI-24432 BAD24630_D12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 63	994	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24432 BAD24630_D12	Heavy chain variable region ("HC") amino acid sequence
Ab 63	995	FTFDYAMN		ADI-24432 BAD24630_D12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 63	996	TTCACCTTTGACACATATGCCATGAAT		ADI-24432 BAD24630_D12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 63	997	RIRSKYNNYATYYADSVKD		ADI-24432 BAD24630_D12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 63	998	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24432 BAD24630_D12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 63	999	VRHGNFNGYVSWFAH		ADI-24432 BAD24630_D12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 63	1000	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24432 BAD24630_D12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 63	1001	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24432 BAD24630_D12	Light chain variable region ("LC") nucleic acid sequence
Ab 63	1002	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24432 BAD24630_D12	Light chain variable region ("LC") amino acid sequence
Ab 63	1003	GSSTGAVTTSNYAN	ADI-24432 BAD24630_D12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 63	1004	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24432 BAD24630_D12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 63	1005	GTDKRAP	ADI-24432 BAD24630_D12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 63	1006	GGCACAGACAAGCGCGCTCCT	ADI-24432 BAD24630_D12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 63	1007	ALWYSNHWV	ADI-24432 BAD24630_D12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 63	1008	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24432 BAD24630_D12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 64	1009	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGTGTCTGGAGTGGTCCGCAAGGATT AGATCCAAGTATAACAATTACGCTACATACTACGCAGAC TCCGTGAAAGGATCGGTTCCACCATCTCCAGAGACGATTCC AAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAGC CGAGGACACGGCGGTACTACTCGGTCCAGGCACGGTA ACTTCGGGAACGGTTACGTATCCTCTGGTTGCTCATTGGG	ADI-24433 BAD24702_C12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 64	1010	GCCAAGGAACCCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24433 BAD24702_C12	Heavy chain variable region ("HC") amino acid sequence
Ab 64	1011	FTFDYAMN		ADI-24433 BAD24702_C12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 64	1012	TTCACCTTTGACACATATGCCATGAAT		ADI-24433 BAD24702_C12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 64	1013	RIRSKYNNYATYYADSVKD		ADI-24433 BAD24702_C12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 64	1014	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24433 BAD24702_C12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 64	1015	VRHGNFNGYVSWFAH		ADI-24433 BAD24702_C12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 64	1016	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24433 BAD24702_C12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 64	1017	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24433 BAD24702_C12	Light chain variable region ("LC") nucleic acid sequence
Ab 64	1018	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24433 BAD24702_C12	Light chain variable region ("LC") amino acid sequence
Ab 64	1019	GSSTGAVTTSNYAN	ADI-24433 BAD24702_C12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 64	1020	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24433 BAD24702_C12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 64	1021	GTDKRAP	ADI-24433 BAD24702_C12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 64	1022	GGCAGACAAGCGCGCTCCT	ADI-24433 BAD24702_C12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 64	1023	ALWYSNHWV	ADI-24433 BAD24702_C12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 64	1024	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24433 BAD24702_C12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 65	1025	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGGATGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTACGGCACCGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24447 BAD24734_F09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 65	1026	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGGCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24447 BAD24734_F09	Heavy chain variable region ("HC") amino acid sequence
Ab 65	1027	FTFDYAMN		ADI-24447 BAD24734_F09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 65	1028	TTCACCTTTGACACATATGCCATGAAT		ADI-24447 BAD24734_F09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 65	1029	RIRSKYNNYATYYADSVKD		ADI-24447 BAD24734_F09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 65	1030	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24447 BAD24734_F09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 65	1031	VRHGNFNGYVSWFAH		ADI-24447 BAD24734_F09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 65	1032	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24447 BAD24734_F09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 65	1033	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCTCA	ADI-24447 BAD24734_F09	Light chain variable region ("LC") nucleic acid sequence
Ab 65	1034	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24447 BAD24734_F09	Light chain variable region ("LC") amino acid sequence
Ab 65	1035	GSSTGAVTTSNYAN	ADI-24447 BAD24734_F09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 65	1036	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24447 BAD24734_F09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 65	1037	GTDKRAP	ADI-24447 BAD24734_F09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 65	1038	GGCAGACAAGCGCGCTCCT	ADI-24447 BAD24734_F09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 65	1039	ALWYSNHWV	ADI-24447 BAD24734_F09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 65	1040	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24447 BAD24734_F09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 66	1041	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGGATGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-24448 BAD24734_A10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 66	1042	GGCCAAGGAACCCTGGTACCCTGCTCTCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGGCLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYVCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-24448 BAD24734_A10	Heavy chain variable region ("HC") amino acid sequence
Ab 66	1043	FTFDYAMN		ADI-24448 BAD24734_A10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 66	1044	TTCACCTTTGACACATATGCCATGAAT		ADI-24448 BAD24734_A10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 66	1045	RIRSKYNNYATYYADSVKD		ADI-24448 BAD24734_A10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 66	1046	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-24448 BAD24734_A10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 66	1047	VRHGNFNGYVSWFAH		ADI-24448 BAD24734_A10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 66	1048	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-24448 BAD24734_A10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 66	1049	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAAGTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTTGATCTCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCTGTGG GACCAAGCTGACCGTCCTA	ADI-24448 BAD24734_A10	Light chain variable region ("LC") nucleic acid sequence
Ab 66	1050	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVLDLFGSLGDKAALTTGA QAEDEADYYCALWYSNHWVFGCGTKLTVL	ADI-24448 BAD24734_A10	Light chain variable region ("LC") amino acid sequence
Ab 66	1051	GSSTGAVTTSNYAN	ADI-24448 BAD24734_A10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 66	1052	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-24448 BAD24734_A10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 66	1053	GTDKRAP	ADI-24448 BAD24734_A10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 66	1054	GGCAGACAAGCGCGCTCCT	ADI-24448 BAD24734_A10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 66	1055	ALWYSNHWV	ADI-24448 BAD24734_A10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 66	1056	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-24448 BAD24734_A10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 67	1057	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCCAGGGTGGTACGTATCCTGCTTGTCTCATTGG	ADI-26955 LAD5221_P05_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 67	1058	GGCCAAGGAACCCTGGTACCCTGCTCCTCA	ADI-26955 LAD5221_P05_A01	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFQGGYVSWFAHWGQ GTLVTVSS		
Ab 67	1059	FTFDYAMN	ADI-26955 LAD5221_P05_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 67	1060	TTCACCTTTGACACATATGCCATGAAC	ADI-26955 LAD5221_P05_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 67	1061	RIRSKYNNYATYYADSVKD	ADI-26955 LAD5221_P05_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 67	1062	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26955 LAD5221_P05_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 67	1063	VRHGNFQGGYVSWFAH	ADI-26955 LAD5221_P05_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 67	1064	GTCAGGCACGGTAACTCCAGGGTGGTTACGTATCCTG GTTTGCTCAT	ADI-26955 LAD5221_P05_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 67	1065	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCAGGAGGATGAAGCTGATTAATTAATGTT GCGTGTGTACAGTAACCAATGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26955 LAD5221_P05_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 67	1066	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26955 LAD5221_P05_A01	Light chain variable region ("LC") amino acid sequence
Ab 67	1067	GSSTGAVTTSNYAN	ADI-26955 LAD5221_P05_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 67	1068	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26955 LAD5221_P05_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 67	1069	GTDKRAP	ADI-26955 LAD5221_P05_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 67	1070	GGCACAGACAAGCGCGCTCCT	ADI-26955 LAD5221_P05_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 67	1071	ALWYSNHWV	ADI-26955 LAD5221_P05_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 67	1072	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-26955 LAD5221_P05_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 68	1073	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCTGGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACCTCGGGGGGGTTACGTATCCTCGTTTGGCTTGGTG	ADI-26956 LAD5221_P05_F01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 68	1074	GGGCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26956 LAD5221_P05_F01	Heavy chain variable region ("HC") amino acid sequence
Ab 68	1075	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYVCVRHGNFGGYVSWFAWWGQ GTLVTVSS	ADI-26956 LAD5221_P05_F01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 68	1076	FTFDYAMN	ADI-26956 LAD5221_P05_F01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 68	1076	TTCACCTTTGACACATATGCCATGAAC	ADI-26956 LAD5221_P05_F01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 68	1077	RIRSKYNNYATYYADSVKD	ADI-26956 LAD5221_P05_F01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 68	1078	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26956 LAD5221_P05_F01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 68	1079	VRHGNFGGYVSWFAW	ADI-26956 LAD5221_P05_F01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 68	1080	GTCAGGCACGGTAACTTCGGGGGGGTTACGTATCCTG GTTTGCTTGG	ADI-26956 LAD5221_P05_F01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 68	1081	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26956 LAD5221_P05_F01	Light chain variable region ("LC") nucleic acid sequence
Ab 68	1082	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26956 LAD5221_P05_F01	Light chain variable region ("LC") amino acid sequence
Ab 68	1083	GSSTGAVTTSNYAN	ADI-26956 LAD5221_P05_F01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 68	1084	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26956 LAD5221_P05_F01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 68	1085	GTDKRAP	ADI-26956 LAD5221_P05_F01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 68	1086	GGCACAGACAAGCGCGCTCCT	ADI-26956 LAD5221_P05_F01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 68	1087	ALWYSNHWV	ADI-26956 LAD5221_P05_F01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 68	1088	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-26956 LAD5221_P05_F01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 69	1089	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGTACTACTGCGTCAGGCACGCG AACTTCGGGGCGGTTACGTATCCTGTTGCTCAITGG	ADI-26957 LAD5221_P05_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 69	1090	GGCCAAGGAACCCTGGTGACCCTGCTCCTCA	ADI-26957 LAD5221_P05_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 69	1091	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHANFGAGYVSWFAHWGQG TLVTVSS	ADI-26957 LAD5221_P05_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 69	1092	FTFDYAMN	ADI-26957 LAD5221_P05_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 69	1093	TTCACCTTTGACACATATGCCATGAAC	ADI-26957 LAD5221_P05_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 69	1094	RIRSKYNNYATYYADSVKD	ADI-26957 LAD5221_P05_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 69	1094	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26957 LAD5221_P05_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 69	1095	VRHANFGAGYVSWFAH	ADI-26957 LAD5221_P05_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 69	1096	GTCAGGCACGGAACTTCGGGGGGGTTACGTATCCTG GTTTGCTCAT	ADI-26957 LAD5221_P05_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 69	1097	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26957 LAD5221_P05_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 69	1098	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26957 LAD5221_P05_A02	Light chain variable region ("LC") amino acid sequence
Ab 69	1099	GSSTGAVTTSNYAN	ADI-26957 LAD5221_P05_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 69	1100	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26957 LAD5221_P05_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 69	1101	GTDKRAP	ADI-26957 LAD5221_P05_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 69	1102	GGCAGACAAGCGCGCTCCT	ADI-26957 LAD5221_P05_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 69	1103	ALWYSNHWV	ADI-26957 LAD5221_P05_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 69	1104	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-26957 LAD5221_P05_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 70	1105	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCGGGGAAGGTACGTATCCTGTTGCTCAITGG	ADI-26958 LAD5221_P05_E02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 70	1106	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26958 LAD5221_P05_E02	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGEYVSWFAHWGQG TLVTYSS		
Ab 70	1107	FTFDYAMN	ADI-26958 LAD5221_P05_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 70	1108	TTCACCTTTGACACATATGCCATGAAC	ADI-26958 LAD5221_P05_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 70	1109	RIRSKYNNYATYYADSVKD	ADI-26958 LAD5221_P05_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 70	1110	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26958 LAD5221_P05_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 70	1111	VRHGNFGEYVSWFAH	ADI-26958 LAD5221_P05_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 70	1112	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT	ADI-26958 LAD5221_P05_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 70	1113	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26958 LAD5221_P05_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 70	1114	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26958 LAD5221_P05_E02	Light chain variable region ("LC") amino acid sequence
Ab 70	1115	GSSTGAVTTSNYAN	ADI-26958 LAD5221_P05_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 70	1116	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26958 LAD5221_P05_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 70	1117	GTDKRAP	ADI-26958 LAD5221_P05_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 70	1118	GGCACAGACAAGCGCGCTCCT	ADI-26958 LAD5221_P05_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 70	1119	ALWYSNHWV	ADI-26958 LAD5221_P05_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 70	1120	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-26958 LAD5221_P05_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 71	1121	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAACCTGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGAT AACTTCGGGGCTGGTTACGTATCTCTGGTTGCTCATTGG	ADI-26959 LAD5221_P05_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 71	1122	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-26959 LAD5221_P05_A03	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHDFNGFAGYVSWFAHWGQG TLVTVSS		
Ab 71	1123	FTFDYAMN	ADI-26959 LAD5221_P05_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 71	1124	TTCACCTTTGACACATATGCCATGAAC	ADI-26959 LAD5221_P05_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 71	1125	RIRSKYNNYATYYADSVKD	ADI-26959 LAD5221_P05_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 71	1126	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26959 LAD5221_P05_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 71	1127	VRHDFNGYVSWFAH	ADI-26959 LAD5221_P05_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 71	1128	GTCAGGCACGATAACTTCGGGGCTGGTTACGTATCCTG GTTTGCTCAT	ADI-26959 LAD5221_P05_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 71	1129	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26959 LAD5221_P05_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 71	1130	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26959 LAD5221_P05_A03	Light chain variable region ("LC") amino acid sequence
Ab 71	1131	GSSTGAVTTSNYAN	ADI-26959 LAD5221_P05_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 71	1132	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26959 LAD5221_P05_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 71	1133	GTDKRAP	ADI-26959 LAD5221_P05_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 71	1134	GGCAGACAAGCGCGCTCCT	ADI-26959 LAD5221_P05_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 71	1135	ALWYSNHWV	ADI-26959 LAD5221_P05_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 71	1136	GCGTGTGGTACAGTAACCAATTGGGTG	ADI-26959 LAD5221_P05_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 72	1137	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAACCTGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCGGGGTGGTACGTATCCTGCTTCTCTTGG	ADI-26960 LAD5221_P05_E03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 72	1138	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-26960 LAD5221_P05_E03	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFVGVSWFASWGQG TLVTVSS		
Ab 72	1139	FTFDYAMN	ADI-26960 LAD5221_P05_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 72	1140	TTCACCTTTGACACATATGCCATGAAC	ADI-26960 LAD5221_P05_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 72	1141	RIRSKYNNYATYYADSVKD	ADI-26960 LAD5221_P05_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 72	1142	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26960 LAD5221_P05_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 72	1143	VRHGNFVGVSWFAS	ADI-26960 LAD5221_P05_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 72	1144	GTCAGGCACGGTAACTTCGGGGTTGGTTACGTATCCTG GTTTGCTTCT	ADI-26960 LAD5221_P05_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 72	1145	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26960 LAD5221_P05_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 72	1146	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26960 LAD5221_P05_E03	Light chain variable region ("LC") amino acid sequence
Ab 72	1147	GSSTGAVTTSNYAN	ADI-26960 LAD5221_P05_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 72	1148	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26960 LAD5221_P05_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 72	1149	GTDKRAP	ADI-26960 LAD5221_P05_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 72	1150	GGCACAGACAAGCGCGCTCCT	ADI-26960 LAD5221_P05_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 72	1151	ALWYSNHWV	ADI-26960 LAD5221_P05_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 72	1152	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-26960 LAD5221_P05_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 73	1153	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAACCTGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGAAGGTTACGTATCCTGTTGCTCAITGG	ADI-26962 LAD5221_P05_G04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 73	1154	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26962 LAD5221_P05_G04	Heavy chain variable region ("HC") amino acid sequence
Ab 73	1155	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGEVSWFAHWGQG TLVTYSS	ADI-26962 LAD5221_P05_G04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 73	1156	FTFDYAMN	ADI-26962 LAD5221_P05_G04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 73	1157	TTCACCTTTGACACATATGCCATGAAC	ADI-26962 LAD5221_P05_G04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 73	1157	RIRSKYNDYATYYADSVKD	ADI-26962 LAD5221_P05_G04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 73	1158	AGGATTAGATCCAAGTATAACGATTACGGTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26962 LAD5221_P05_G04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 73	1159	VRHGNFGEVSWFAH	ADI-26962 LAD5221_P05_G04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 73	1160	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT	ADI-26962 LAD5221_P05_G04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 73	1161	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26962 LAD5221_P05_G04	Light chain variable region ("LC") nucleic acid sequence
Ab 73	1162	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26962 LAD5221_P05_G04	Light chain variable region ("LC") amino acid sequence
Ab 73	1163	GSSTGAVTTSNYAN	ADI-26962 LAD5221_P05_G04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 73	1164	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26962 LAD5221_P05_G04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 73	1165	GTDKRAP	ADI-26962 LAD5221_P05_G04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 73	1166	GGCACAGACAAGCGCGCTCCT	ADI-26962 LAD5221_P05_G04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 73	1167	ALWYSNHWV	ADI-26962 LAD5221_P05_G04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 73	1168	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-26962 LAD5221_P05_G04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 74	1169	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTGACACATATGCCATGAACCTGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGAT AACCTCGGGGCTGGTTACGTATCTCTGGTTGCTCATTGG	ADI-26963 LAD5221_P05_B05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 74	1170	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	ADI-26963 LAD5221_P05_B05	Heavy chain variable region ("HC") amino acid sequence
Ab 74	1171	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYVCVRHDFGAGYVSWFAHWGQG TLVTVSS	ADI-26963 LAD5221_P05_B05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 74	1172	FTFDYAMN	ADI-26963 LAD5221_P05_B05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 74	1173	TTCACCTTTGACACATATGCCATGAAC	ADI-26963 LAD5221_P05_B05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 74	1174	RIRSKYNDYATYYADSVKD	ADI-26963 LAD5221_P05_B05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 74	1174	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26963 LAD5221_P05_B05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 74	1175	VRHDFGAGYVSWFAH	ADI-26963 LAD5221_P05_B05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 74	1176	GTCAGGCACGATAACTTCGGGGCTGGTTACGTATCCTG GTTTGCTCAT	ADI-26963 LAD5221_P05_B05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 74	1177	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26963 LAD5221_P05_B05	Light chain variable region ("LC") nucleic acid sequence
Ab 74	1178	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26963 LAD5221_P05_B05	Light chain variable region ("LC") amino acid sequence
Ab 74	1179	GSSTGAVTTSNYAN	ADI-26963 LAD5221_P05_B05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 74	1180	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26963 LAD5221_P05_B05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 74	1181	GTDKRAP	ADI-26963 LAD5221_P05_B05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 74	1182	GGCAGACAAGCGCGCTCCT	ADI-26963 LAD5221_P05_B05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 74	1183	ALWYSNHWV	ADI-26963 LAD5221_P05_B05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 74	1184	GCGTGTGGTACAGTAACCAATTGGGTG	ADI-26963 LAD5221_P05_B05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 75	1185	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAACCTGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCGGGGTGGTACGTATCCTGCTTCTCTTGG	ADI-26964 LAD5221_P05_H05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 75	1186	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-26964 LAD5221_P05_H05	Heavy chain variable region ("HC") amino acid sequence
Ab 75	1187	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFVGVSWFASWGQG TLVTVSS	ADI-26964 LAD5221_P05_H05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 75	1188	FTFDYAMN	ADI-26964 LAD5221_P05_H05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 75	1189	TTCACCTTTGACACATATGCCATGAAC	ADI-26964 LAD5221_P05_H05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 75	1190	RIRSKYNDYATYYADSVKD	ADI-26964 LAD5221_P05_H05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 75	1190	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26964 LAD5221_P05_H05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 75	1191	VRHGNFVGVSWFAS	ADI-26964 LAD5221_P05_H05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 75	1192	GTCAGGCACGGTAACTTCGGGGTTGGTTACGTATCCTG GTTTGCTTCT	ADI-26964 LAD5221_P05_H05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 75	1193	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGAGGATGAAGCTGATTACTGT GCGCTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26964 LAD5221_P05_H05	Light chain variable region ("LC") nucleic acid sequence
Ab 75	1194	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26964 LAD5221_P05_H05	Light chain variable region ("LC") amino acid sequence
Ab 75	1195	GSSTGAVTTSNYAN	ADI-26964 LAD5221_P05_H05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 75	1196	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26964 LAD5221_P05_H05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 75	1197	GTDKRAP	ADI-26964 LAD5221_P05_H05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 75	1198	GGCACAGACAAGCGCGCTCCT	ADI-26964 LAD5221_P05_H05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 75	1199	ALWYSNHWV	ADI-26964 LAD5221_P05_H05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 75	1200	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-26964 LAD5221_P05_H05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 76	1201	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAACCTGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCGGGGGTGCTTACGTATCTCTGGTTGCTCATTGG	ADI-26965 LAD5221_P05_C06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 76	1202	GGCCAAGGAAACCCTGGTCACCGTCTCCTCA	ADI-26965 LAD5221_P05_C06	Heavy chain variable region ("HC") amino acid sequence
Ab 76	1203	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGGAYVSWFAHWGQG TLVTVSS	ADI-26965 LAD5221_P05_C06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 76	1204	FTFDYAMN	ADI-26965 LAD5221_P05_C06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 76	1204	TTCACCTTTGACACATATGCCATGAAC	ADI-26965 LAD5221_P05_C06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 76	1205	RIRSKYNDYATYYADSVKD	ADI-26965 LAD5221_P05_C06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 76	1206	AGGATTAGATCCAAGTATAACGATTACGGTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26965 LAD5221_P05_C06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 76	1207	VRHGNFGGAYVSWFAH	ADI-26965 LAD5221_P05_C06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 76	1208	GTCAGGCACGGTAACTTCGGGGGTGCTTACGTATCCTG GTTTGCTCAT	ADI-26965 LAD5221_P05_C06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 76	1209	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26965 LAD5221_P05_C06	Light chain variable region ("LC") nucleic acid sequence
Ab 76	1210	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26965 LAD5221_P05_C06	Light chain variable region ("LC") amino acid sequence
Ab 76	1211	GSSTGAVTTSNYAN	ADI-26965 LAD5221_P05_C06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 76	1212	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26965 LAD5221_P05_C06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 76	1213	GTDKRAP	ADI-26965 LAD5221_P05_C06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 76	1214	GGCACAGACAAGCGCGCTCCT	ADI-26965 LAD5221_P05_C06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 76	1215	ALWYSNHWV	ADI-26965 LAD5221_P05_C06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 76	1216	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-26965 LAD5221_P05_C06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 77	1217	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAAGTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCGGGGGGGTTACGTATCCTGTTGGGCATTG	ADI-26966 LAD5221_P05_F06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 77	1218	GGGCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWWVRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFNGGGYVSWFGHWGQ GTLTVSS	ADI-26966 LAD5221_P05_F06	Heavy chain variable region ("HC") amino acid sequence
Ab 77	1219	FTFDAYAMIN		ADI-26966 LAD5221_P05_F06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 77	1220	TTCACCTTTGACGCTTATGCCATGAAC		ADI-26966 LAD5221_P05_F06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 77	1221	RIRSKYNDYATYYADSVKD		ADI-26966 LAD5221_P05_F06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 77	1222	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26966 LAD5221_P05_F06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 77	1223	VRHGNFGGYVSWFGH		ADI-26966 LAD5221_P05_F06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 77	1224	GTCAGGCACGGTAACTTCGGGGGGGTTACGTATCCTG GTTTGGGCAT		ADI-26966 LAD5221_P05_F06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 77	1225	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-26966 LAD5221_P05_F06	Light chain variable region ("LC") nucleic acid sequence
Ab 77	1226	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26966 LAD5221_P05_F06	Light chain variable region ("LC") amino acid sequence
Ab 77	1227	GSSTGAVTTSNYAN	ADI-26966 LAD5221_P05_F06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 77	1228	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26966 LAD5221_P05_F06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 77	1229	GTDKRAP	ADI-26966 LAD5221_P05_F06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 77	1230	GGCACAGACAAGCGCGCTCCT	ADI-26966 LAD5221_P05_F06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 77	1231	ALWYSNHWV	ADI-26966 LAD5221_P05_F06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 77	1232	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-26966 LAD5221_P05_F06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 78	1233	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAACCTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACTATGCTGTATCTCTGTTGCTCATTTGG	ADI-26968 LAD5221_P05_F07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 78	1234	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26968 LAD5221_P05_F07	Heavy chain variable region ("HC") amino acid sequence
Ab 78	1235	EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWRQ APGKLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGNYAVSWFAHWGQG TLVTVSS	ADI-26968 LAD5221_P05_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 78	1236	FTFDAYAMIN	ADI-26968 LAD5221_P05_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 78	1237	TTCACCTTTGACGCTTATGCCATGAAC	ADI-26968 LAD5221_P05_F07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 78	1238	RIRSKYNDYATYYADSVKD	ADI-26968 LAD5221_P05_F07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 78	1238	AGGATTAGATCCAAGTATAACGATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26968 LAD5221_P05_F07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 78	1239	VRHGNFGNYAVSWFAH	ADI-26968 LAD5221_P05_F07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 78	1240	GTCAGGCACGGTAACTTCGGGAACTATGCTGTATCCTG GTTTGCTCAT	ADI-26968 LAD5221_P05_F07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 78	1241	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGCCCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26968 LAD5221_P05_F07	Light chain variable region ("LC") nucleic acid sequence
Ab 78	1242	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-26968 LAD5221_P05_F07	Light chain variable region ("LC") amino acid sequence
Ab 78	1243	GSSTGAVTTSNYAN	ADI-26968 LAD5221_P05_F07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 78	1244	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26968 LAD5221_P05_F07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 78	1245	GTDKRAP	ADI-26968 LAD5221_P05_F07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 78	1246	GGCACAGACAAGCGCGCTCCT	ADI-26968 LAD5221_P05_F07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 78	1247	ALWYSNHWV	ADI-26968 LAD5221_P05_F07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 78	1248	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-26968 LAD5221_P05_F07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 79	1249	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACCTCCAGGGTGGTACGTATCTCCTGGTTGCTCATTGG	ADI-26969 LAD5222_P05_A08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 79	1250	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26969 LAD5222_P05_A08	Heavy chain variable region ("HC") amino acid sequence
Ab 79	1251	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFQGGYVSWFAHWGQ GTLVTVSS	ADI-26969 LAD5222_P05_A08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 79	1252	FTFDYAMN	ADI-26969 LAD5222_P05_A08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 79	1253	TTCACCTTTGACACATATGCCATGAAC	ADI-26969 LAD5222_P05_A08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 79	1253	RIRSKYNNYATYYADSVKD	ADI-26969 LAD5222_P05_A08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 79	1254	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26969 LAD5222_P05_A08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 79	1255	VRHGNFQGGYVSWFAH	ADI-26969 LAD5222_P05_A08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 79	1256	GTCAGGCACGGTAACTCCAGGGTGTACGTATCCTG GTTTGCTCAT	ADI-26969 LAD5222_P05_A08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 79	1257	CAGACTGGTGGTACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCTCA	ADI-26969 LAD5222_P05_A08	Light chain variable region ("LC") nucleic acid sequence
Ab 79	1258	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26969 LAD5222_P05_A08	Light chain variable region ("LC") amino acid sequence
Ab 79	1259	GSSTGAVTTSNYAN	ADI-26969 LAD5222_P05_A08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 79	1260	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26969 LAD5222_P05_A08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 79	1261	GTDKRAP	ADI-26969 LAD5222_P05_A08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 79	1262	GGCACAGACAAGCGCGCTCCT	ADI-26969 LAD5222_P05_A08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 79	1263	ALWYSNLWV	ADI-26969 LAD5222_P05_A08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 79	1264	GCGCTGGTACAGTAACCTTTGGGTG	ADI-26969 LAD5222_P05_A08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 80	1265	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGTACTACTGCGTCAGGCACGCG AACTTCGGGGCGGGTTACGTATCCTGTTGCTCAITGG	ADI-26971 LAD5222_P05_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 80	1266	GGCCAAGGAAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHANFGAGYVSWFAHWGQG TLVTYSS	ADI-26971 LAD5222_P05_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 80	1267	FTFDYAMN		ADI-26971 LAD5222_P05_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 80	1268	TTCACCTTTGACACATATGCCATGAAC		ADI-26971 LAD5222_P05_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 80	1269	RIRSKYNNYATYYADSVKD		ADI-26971 LAD5222_P05_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 80	1270	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26971 LAD5222_P05_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 80	1271	VRHANFGAGYVSWFAH		ADI-26971 LAD5222_P05_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 80	1272	GTCAGGCACGCGAACTTCGGGGCGGTTACGTATCCTG GTTTGCTCAT		ADI-26971 LAD5222_P05_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 80	1273	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCCGCGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCCGAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-26971 LAD5222_P05_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 80	1274	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26971 LAD5222_P05_A09	Light chain variable region ("LC") amino acid sequence
Ab 80	1275	GSSTGAVTTSNYAN	ADI-26971 LAD5222_P05_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 80	1276	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26971 LAD5222_P05_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 80	1277	GTDKRAP	ADI-26971 LAD5222_P05_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 80	1278	GGCACAGACAAGCGCGCTCCT	ADI-26971 LAD5222_P05_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 80	1279	ALWYSNLWV	ADI-26971 LAD5222_P05_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 80	1280	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-26971 LAD5222_P05_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 81	1281	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCTGGGGGTCCTCGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACCTCGGGGAAGGTTACGTATCCTGTTGCTCAITGG	ADI-26972 LAD5222_P05_F09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 81	1282	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDTYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGEVYVSWFAHWGQG TLVTYSS	ADI-26972 LAD5222_P05_F09	Heavy chain variable region ("HC") amino acid sequence
Ab 81	1283	FTFDYAMN		ADI-26972 LAD5222_P05_F09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 81	1284	TTCACCTTTGACACATATGCCATGAAC		ADI-26972 LAD5222_P05_F09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 81	1285	RIRSKYNNYATYYADSVKD		ADI-26972 LAD5222_P05_F09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 81	1286	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26972 LAD5222_P05_F09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 81	1287	VRHGNFGEVYVSWFAH		ADI-26972 LAD5222_P05_F09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 81	1288	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT		ADI-26972 LAD5222_P05_F09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 81	1289	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26972 LAD5222_P05_F09	Light chain variable region ("LC") nucleic acid sequence
Ab 81	1290	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26972 LAD5222_P05_F09	Light chain variable region ("LC") amino acid sequence
Ab 81	1291	GSSTGAVTTSNYAN	ADI-26972 LAD5222_P05_F09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 81	1292	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26972 LAD5222_P05_F09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 81	1293	GTDKRAP	ADI-26972 LAD5222_P05_F09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 81	1294	GGCAGACAAGCGCGCTCCT	ADI-26972 LAD5222_P05_F09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 81	1295	ALWYSNLWV	ADI-26972 LAD5222_P05_F09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 81	1296	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-26972 LAD5222_P05_F09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 82	1297	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGAT AACTTCGGGGCTGGTACGTATCTCTGGTTGCTCATTGG	ADI-26973 LAD5222_P05_E10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 82	1298	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHDFNFGAGYVSWFAHWGQG TLVTVSS	ADI-26973 LAD5222_P05_E10	Heavy chain variable region ("HC") amino acid sequence
Ab 82	1299	FTFDYAMN		ADI-26973 LAD5222_P05_E10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 82	1300	TTCACCTTTGACACATATGCCATGAAC		ADI-26973 LAD5222_P05_E10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 82	1301	RIRSKYNNYATYYADSVKD		ADI-26973 LAD5222_P05_E10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 82	1302	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26973 LAD5222_P05_E10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 82	1303	VRHDFNFGAGYVSWFAH		ADI-26973 LAD5222_P05_E10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 82	1304	GTCAGGCACGATAACTTCGGGGCTGGTTACGTATCCTG GTTTGCTCAT		ADI-26973 LAD5222_P05_E10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 82	1305	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26973 LAD5222_P05_E10	Light chain variable region ("LC") nucleic acid sequence
Ab 82	1306	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26973 LAD5222_P05_E10	Light chain variable region ("LC") amino acid sequence
Ab 82	1307	GSSTGAVTTSNYAN	ADI-26973 LAD5222_P05_E10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 82	1308	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26973 LAD5222_P05_E10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 82	1309	GTDKRAP	ADI-26973 LAD5222_P05_E10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 82	1310	GGCACAGACAAGCGCGCTCCT	ADI-26973 LAD5222_P05_E10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 82	1311	ALWYSNLWV	ADI-26973 LAD5222_P05_E10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 82	1312	GCGTGTGTACAGTAACCTTTGGGTG	ADI-26973 LAD5222_P05_E10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 83	1313	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGTCCAGGCACGGT AACTTCGGGGGTGCTTACGTATCTCTGGTTGCTCATTGG	ADI-26974 LAD5222_P05_A11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 83	1314	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26974 LAD5222_P05_A11	Heavy chain variable region ("HC") amino acid sequence
Ab 83	1315	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGGAYVSWFAHWGQG TLVTVSS	ADI-26974 LAD5222_P05_A11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 83	1316	FTFDYAMN	ADI-26974 LAD5222_P05_A11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 83	1317	TTCACCTTTGACACATATGCCATGAAC	ADI-26974 LAD5222_P05_A11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 83	1318	RIRSKYNNYATYYADSVKD	ADI-26974 LAD5222_P05_A11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 83	1318	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26974 LAD5222_P05_A11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 83	1319	VRHGNFGGAYVSWFAH	ADI-26974 LAD5222_P05_A11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 83	1320	GTCAGGCACGGTAACTTCGGGGGTGCTTACGTATCCTG GTTTGCTCAT	ADI-26974 LAD5222_P05_A11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 83	1321	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26974 LAD5222_P05_A11	Light chain variable region ("LC") nucleic acid sequence
Ab 83	1322	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26974 LAD5222_P05_A11	Light chain variable region ("LC") amino acid sequence
Ab 83	1323	GSSTGAVTTSNYAN	ADI-26974 LAD5222_P05_A11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 83	1324	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26974 LAD5222_P05_A11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 83	1325	GTDKRAP	ADI-26974 LAD5222_P05_A11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 83	1326	GGCAGACAAGCGCGCTCCT	ADI-26974 LAD5222_P05_A11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 83	1327	ALWYSNLWV	ADI-26974 LAD5222_P05_A11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 83	1328	GCGTGTGTACAGTAACCTTTGGGTG	ADI-26974 LAD5222_P05_A11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 84	1329	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAACCTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGGAAGGTTACGTATCCTGTTGCTCAITGG	ADI-26975 LAD5222_P05_F11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 84	1330	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDTYAMNWWVRQ APKGLWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGEVSWFAHWGQG TLVTVSS	ADI-26975 LAD5222_P05_F11	Heavy chain variable region ("HC") amino acid sequence
Ab 84	1331	FTFDYAMN		ADI-26975 LAD5222_P05_F11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 84	1332	TTCACCTTTGACACATATGCCATGAAC		ADI-26975 LAD5222_P05_F11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 84	1333	RIRSKYNDYATYYADSVKD		ADI-26975 LAD5222_P05_F11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 84	1334	AGGATTAGATCCAAGTATAACGATTACGGTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26975 LAD5222_P05_F11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 84	1335	VRHGNFGEVSWFAH		ADI-26975 LAD5222_P05_F11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 84	1336	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT		ADI-26975 LAD5222_P05_F11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 84	1337	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCTCA	ADI-26975 LAD5222_P05_F11	Light chain variable region ("LC") nucleic acid sequence
Ab 84	1338	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26975 LAD5222_P05_F11	Light chain variable region ("LC") amino acid sequence
Ab 84	1339	GSSTGAVTTSNYAN	ADI-26975 LAD5222_P05_F11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 84	1340	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26975 LAD5222_P05_F11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 84	1341	GTDKRAP	ADI-26975 LAD5222_P05_F11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 84	1342	GGCAGACAAGCGCGCTCCT	ADI-26975 LAD5222_P05_F11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 84	1343	ALWYSNLWV	ADI-26975 LAD5222_P05_F11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 84	1344	GCGTGTGTACAGTAACCTTTGGGTG	ADI-26975 LAD5222_P05_F11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 85	1345	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTAAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGTCCAGGCACGAT AACTTCGGGGCTGGTACGTATCATGGTTTGCATCTGG	ADI-26976 LAD5222_P05_A12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 85	1346	GGCCAAGGAAACCCTGGTCACCCGTATCCTCA	ADI-26976 LAD5222_P05_A12	Heavy chain variable region ("HC") amino acid sequence
Ab 85	1347	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHDFNGFAGYVSWFAHWGQG TLVTYSS	ADI-26976 LAD5222_P05_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 85	1348	FTFDYAMN	ADI-26976 LAD5222_P05_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 85	1349	TTCACCTTTGACACATATGCCATGAAC	ADI-26976 LAD5222_P05_A12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 85	1350	RIRSKYNDYATYYADSVKD	ADI-26976 LAD5222_P05_A12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 85	1351	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26976 LAD5222_P05_A12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 85	1352	VRHDFNGAGYVSWFAH	ADI-26976 LAD5222_P05_A12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 85	1352	GTCAGGCACGATAACTTCGGGGCTGGTTACGTATCATG GTTTGCTCAT	ADI-26976 LAD5222_P05_A12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 85	1353	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGAGG GACCAAGCTGACCGTCTCA	ADI-26976 LAD5222_P05_A12	Light chain variable region ("LC") nucleic acid sequence
Ab 85	1354	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26976 LAD5222_P05_A12	Light chain variable region ("LC") amino acid sequence
Ab 85	1355	GSSTGAVTTSNYAN	ADI-26976 LAD5222_P05_A12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 85	1356	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26976 LAD5222_P05_A12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 85	1357	GTDKRAP	ADI-26976 LAD5222_P05_A12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 85	1358	GGCACAGACAAGCGCGCTCCT	ADI-26976 LAD5222_P05_A12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 85	1359	ALWYSNLWV	ADI-26976 LAD5222_P05_A12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 85	1360	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-26976 LAD5222_P05_A12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 86	1361	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTAAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGTGGTACGTATCCTGGTTGCTTCTTGG	ADI-26977 LAD5222_P05_F12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 86	1362	GGCCAAGGAAACCCTGGTGACCCGCTCCTCA	ADI-26977 LAD5222_P05_F12	Heavy chain variable region ("HC") amino acid sequence
Ab 86	1363	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFVGYSVWFASWGQG TLVTYSS	ADI-26977 LAD5222_P05_F12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 86	1364	FTFDYAMN	ADI-26977 LAD5222_P05_F12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 86	1364	TTCACCTTTGACACATATGCCATGAAC	ADI-26977 LAD5222_P05_F12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 86	1365	RIRSKYNDYATYYADSVKD	ADI-26977 LAD5222_P05_F12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 86	1366	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26977 LAD5222_P05_F12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 86	1367	VRHGNFVGYSVWFAS	ADI-26977 LAD5222_P05_F12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 86	1368	GTCAGGCACGGTAACTTCGGGGTTGGTTACGTATCCTG GTTTGCTTCT	ADI-26977 LAD5222_P05_F12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 86	1369	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCTCA	ADI-26977 LAD5222_P05_F12	Light chain variable region ("LC") nucleic acid sequence
Ab 86	1370	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTIG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26977 LAD5222_P05_F12	Light chain variable region ("LC") amino acid sequence
Ab 86	1371	GSSTGAVTTSNYAN	ADI-26977 LAD5222_P05_F12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 86	1372	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26977 LAD5222_P05_F12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 86	1373	GTDKRAP	ADI-26977 LAD5222_P05_F12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 86	1374	GGCAGACAAGCGCGCTCCT	ADI-26977 LAD5222_P05_F12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 86	1375	ALWYSNLWV	ADI-26977 LAD5222_P05_F12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 86	1376	GCGTGTGTACAGTAACCTTTGGGTG	ADI-26977 LAD5222_P05_F12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 87	1377	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGGTGCTTACGTATCTCTGGTTGCTCATTGG	ADI-26978 LAD5222_P06_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 87	1378	GGCCAAGGAAACCCTGGTCACCGTCTCCTCA	ADI-26978 LAD5222_P06_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 87	1379	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGGAYVSWFAHWGQG TLVTVSS	ADI-26978 LAD5222_P06_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 87	1380	FTFDYAMN	ADI-26978 LAD5222_P06_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 87	1381	TTCACCTTTGACACATATGCCATGAAC	ADI-26978 LAD5222_P06_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 87	1382	RIRSKYNDYATYYADSVKD	ADI-26978 LAD5222_P06_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 87	1383	AGGATTAGATCCAAGTATAACGATTACGGTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26978 LAD5222_P06_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 87	1384	VRHGNFGGAYVSWFAH	ADI-26978 LAD5222_P06_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 87	1384	GTCAGGCACGGTAACTTCGGGGGTGCTTACGTATCCTG GTTTGCTCAT	ADI-26978 LAD5222_P06_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 87	1385	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-26978 LAD5222_P06_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 87	1386	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26978 LAD5222_P06_A01	Light chain variable region ("LC") amino acid sequence
Ab 87	1387	GSSTGAVTTSNYAN	ADI-26978 LAD5222_P06_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 87	1388	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26978 LAD5222_P06_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 87	1389	GTDKRAP	ADI-26978 LAD5222_P06_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 87	1390	GGCACAGACAAGCGCGCTCCT	ADI-26978 LAD5222_P06_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 87	1391	ALWYSNLWV	ADI-26978 LAD5222_P06_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 87	1392	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-26978 LAD5222_P06_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 88	1393	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAAGTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGTCCGTCAGGCACGGT AACCTCGGGGGGGTTACGTATCCTGTTGGGCATTG	ADI-26979 LAD5222_P06_E01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 88	1394	GGGCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWWVRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTSRDSDKST LYLQMESLRAEDTAVYYCVRHGNFGGGYSVWFGHWGQ GTLTVSS	ADI-26979 LAD5222_P06_E01	Heavy chain variable region ("HC") amino acid sequence
Ab 88	1395	FTFDAYAMIN		ADI-26979 LAD5222_P06_E01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 88	1396	TTCACCTTTGACGCTTATGCCATGAAC		ADI-26979 LAD5222_P06_E01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 88	1397	RIRSKYNDYATYYADSVKD		ADI-26979 LAD5222_P06_E01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 88	1398	AGGATTAGATCCAAGTATAACGATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26979 LAD5222_P06_E01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 88	1399	VRHGNFGGGYSVWFGH		ADI-26979 LAD5222_P06_E01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 88	1400	GTCAGGCACGGTAACTTCGGGGGGGTTACGTATCCTG GTTTGGGCAT		ADI-26979 LAD5222_P06_E01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 88	1401	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-26979 LAD5222_P06_E01	Light chain variable region ("LC") nucleic acid sequence
Ab 88	1402	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26979 LAD5222_P06_E01	Light chain variable region ("LC") amino acid sequence
Ab 88	1403	GSSTGAVTTSNYAN	ADI-26979 LAD5222_P06_E01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 88	1404	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26979 LAD5222_P06_E01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 88	1405	GTDKRAP	ADI-26979 LAD5222_P06_E01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 88	1406	GGCACAGACAAGCGCGCTCCT	ADI-26979 LAD5222_P06_E01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 88	1407	ALWYSNLWV	ADI-26979 LAD5222_P06_E01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 88	1408	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-26979 LAD5222_P06_E01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 89	1409	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAAGTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACGTGGGGGTGTTACGTATCCTGGTTGCTCATTG	ADI-26980 LAD5222_P06_A02	Heavy chain variable region ("HC") nucleic acid sequence

		GGGCAAGGAACCCTGGTCACCGTCTCCTCA		
Ab 89	1410	EVQLLESGGGLVQPGGSLRLSCAASGFTFDAYAMNWWVRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNVGGYVSWFAHWGQ GTLVTVSS	ADI-26980 LAD5222_P06_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 89	1411	FTFDAYAMIN	ADI-26980 LAD5222_P06_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 89	1412	TTCACCTTTGACGCTTATGCCATGAAC	ADI-26980 LAD5222_P06_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 89	1413	RIRSKYNDYATYYADSVKD	ADI-26980 LAD5222_P06_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 89	1414	AGGATTAGATCCAAGTATAACGATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26980 LAD5222_P06_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 89	1415	VRHGNVGGYVSWFAH	ADI-26980 LAD5222_P06_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 89	1416	GTCAGGCACGGTAACGTGGGGGGTGGTTACGTATCCTG GTTTGCTCAT	ADI-26980 LAD5222_P06_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 89	1417	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26980 LAD5222_P06_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 89	1418	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26980 LAD5222_P06_A02	Light chain variable region ("LC") amino acid sequence
Ab 89	1419	GSSTGAVTTSNYAN	ADI-26980 LAD5222_P06_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 89	1420	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26980 LAD5222_P06_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 89	1421	GTDKRAP	ADI-26980 LAD5222_P06_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 89	1422	GGCACAGACAAGCGCGCTCCT	ADI-26980 LAD5222_P06_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 89	1423	ALWYSNLWV	ADI-26980 LAD5222_P06_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 89	1424	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-26980 LAD5222_P06_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 90	1425	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAAGTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGAACTATGCTGTATCTCTGTTGCTCATTGG	ADI-26981 LAD5222_P06_E02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 90	1426	GGCCAAGGAAACCCTGGTCACCCGCTCCTCA	ADI-26981 LAD5222_P06_E02	Heavy chain variable region ("HC") amino acid sequence
Ab 90	1427	EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWWVRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGNYAVSWFAHWGQG TLVTVSS	ADI-26981 LAD5222_P06_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 90	1428	FTFDAYAMIN	ADI-26981 LAD5222_P06_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 90	1429	TTCACCTTTGACGCTTATGCCATGAAC	ADI-26981 LAD5222_P06_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 90	1430	RIRSKYNDYATYYADSVKD	ADI-26981 LAD5222_P06_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 90	1431	AGGATTAGATCCAAGTATAACGATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26981 LAD5222_P06_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 90	1432	VRHGNFGNYAVSWFAH	ADI-26981 LAD5222_P06_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 90	1432	GTCAGGCACGGTAACTTCGGGAACTATGCTGTATCCTG GTTTGCTCAT	ADI-26981 LAD5222_P06_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 90	1433	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATGTT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26981 LAD5222_P06_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 90	1434	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-26981 LAD5222_P06_E02	Light chain variable region ("LC") amino acid sequence
Ab 90	1435	GSSTGAVTTSNYAN	ADI-26981 LAD5222_P06_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 90	1436	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26981 LAD5222_P06_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 90	1437	GTDKRAP	ADI-26981 LAD5222_P06_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 90	1438	GGCACAGACAAGCGCGCTCCT	ADI-26981 LAD5222_P06_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 90	1439	ALWYSNLWV	ADI-26981 LAD5222_P06_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 90	1440	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-26981 LAD5222_P06_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 91	1441	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCTGGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACCTCCAGGGTGGTACGTATCTCCTGTTGCTCATTGG	ADI-26982 LAD5223_P05_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 91	1442	GGCCAAGGAACCCTGGTACCCTGCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDTYAMNWWVRQ APKGLWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFQGGYVSWFAHWGQ GTLVTVSS	ADI-26982 LAD5223_P05_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 91	1443	FTFDYAMN		ADI-26982 LAD5223_P05_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 91	1444	TTCACCTTTGACACATATGCCATGAAC		ADI-26982 LAD5223_P05_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 91	1445	RIRSKYNNYATYYADSVKD		ADI-26982 LAD5223_P05_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 91	1446	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26982 LAD5223_P05_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 91	1447	VRHGNFQGGYVSWFAH		ADI-26982 LAD5223_P05_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 91	1448	GTCAGGCACGGTAACTCCAGGGTGTACGTATCCTG GTTTGCTCAT		ADI-26982 LAD5223_P05_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 91	1449	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTATCTGTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26982 LAD5223_P05_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 91	1450	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26982 LAD5223_P05_A03	Light chain variable region ("LC") amino acid sequence
Ab 91	1451	GSSTGAVTTSNYAN	ADI-26982 LAD5223_P05_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 91	1452	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26982 LAD5223_P05_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 91	1453	GTDKRAP	ADI-26982 LAD5223_P05_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 91	1454	GGCACAGACAAGCGCGCTCCT	ADI-26982 LAD5223_P05_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 91	1455	ALWYSDLWV	ADI-26982 LAD5223_P05_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 91	1456	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26982 LAD5223_P05_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 92	1457	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGGGGTTACGTATCCTCGTTTGGCTTGGTG	ADI-26983 LAD5223_P05_C03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 92	1458	GGGCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYVCVRHGNFGGGYSVFWAWWGQ GTLVTVSS	ADI-26983 LAD5223_P05_C03	Heavy chain variable region ("HC") amino acid sequence
Ab 92	1459	FTFDYAMN		ADI-26983 LAD5223_P05_C03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 92	1460	TTCACCTTTGACACATATGCCATGAAC		ADI-26983 LAD5223_P05_C03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 92	1461	RIRSKYNNYATYYADSVKD		ADI-26983 LAD5223_P05_C03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 92	1462	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26983 LAD5223_P05_C03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 92	1463	VRHGNFGGGYSVFWAW		ADI-26983 LAD5223_P05_C03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 92	1464	GTCAGGCACGGTAACTTCGGGGGGGTTACGTATCCTG GTTTGCTTGG		ADI-26983 LAD5223_P05_C03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 92	1465	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTGTCTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26983 LAD5223_P05_C03	Light chain variable region ("LC") nucleic acid sequence
Ab 92	1466	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26983 LAD5223_P05_C03	Light chain variable region ("LC") amino acid sequence
Ab 92	1467	GSSTGAVTTSNYAN	ADI-26983 LAD5223_P05_C03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 92	1468	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26983 LAD5223_P05_C03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 92	1469	GTDKRAP	ADI-26983 LAD5223_P05_C03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 92	1470	GGCAGACAAGCGCGCTCCT	ADI-26983 LAD5223_P05_C03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 92	1471	ALWYSDLWV	ADI-26983 LAD5223_P05_C03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 92	1472	GCGCTGGGTACAGTGATCTGTGGGTG	ADI-26983 LAD5223_P05_C03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 93	1473	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGCG AACTTCGGGGCGGTTACGTATCCTGTTGCTCAITGG	ADI-26984 LAD5223_P05_A04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 93	1474	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHANFGAGYVSWFAHWGQG TLVTYSS	ADI-26984 LAD5223_P05_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 93	1475	FTFDYAMN		ADI-26984 LAD5223_P05_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 93	1476	TTCACCTTTGACACATATGCCATGAAC		ADI-26984 LAD5223_P05_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 93	1477	RIRSKYNNYATYYADSVKD		ADI-26984 LAD5223_P05_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 93	1478	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26984 LAD5223_P05_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 93	1479	VRHANFGAGYVSWFAH		ADI-26984 LAD5223_P05_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 93	1480	GTCAGGCACGCGAACTTCGGGGCGGTTACGTATCCTG GTTTGCTCAT		ADI-26984 LAD5223_P05_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 93	1481	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATCTGT GCGCTGTGTACAGTGTCTGTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26984 LAD5223_P05_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 93	1482	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTIG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26984 LAD5223_P05_A04	Light chain variable region ("LC") amino acid sequence
Ab 93	1483	GSSTGAVTTSNYAN	ADI-26984 LAD5223_P05_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 93	1484	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26984 LAD5223_P05_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 93	1485	GTDKRAP	ADI-26984 LAD5223_P05_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 93	1486	GGCACAGACAAGCGCGCTCCT	ADI-26984 LAD5223_P05_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 93	1487	ALWYSDLWV	ADI-26984 LAD5223_P05_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 93	1488	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26984 LAD5223_P05_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 94	1489	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGGAAGTTACGTATCTCTGTTGCTCAITGG	ADI-26985 LAD5223_P05_D05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 94	1490	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26985 LAD5223_P05_D05	Heavy chain variable region ("HC") amino acid sequence
Ab 94	1491	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGEYVSWFAHWGQG TLVTYSS	ADI-26985 LAD5223_P05_D05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 94	1492	FTFDYAMN	ADI-26985 LAD5223_P05_D05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 94	1493	TTCACCTTTGACACATATGCCATGAAC	ADI-26985 LAD5223_P05_D05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 94	1494	RIRSKYNNYATYYADSVKD	ADI-26985 LAD5223_P05_D05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 94	1494	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26985 LAD5223_P05_D05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 94	1495	VRHGNFGEYVSWFAH	ADI-26985 LAD5223_P05_D05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 94	1496	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT	ADI-26985 LAD5223_P05_D05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 94	1497	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATTAATGT GCGCTGTGTACAGTGTGTTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26985 LAD5223_P05_D05	Light chain variable region ("LC") nucleic acid sequence
Ab 94	1498	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26985 LAD5223_P05_D05	Light chain variable region ("LC") amino acid sequence
Ab 94	1499	GSSTGAVTTSNYAN	ADI-26985 LAD5223_P05_D05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 94	1500	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26985 LAD5223_P05_D05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 94	1501	GTDKRAP	ADI-26985 LAD5223_P05_D05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 94	1502	GGCACAGACAAGCGCGCTCCT	ADI-26985 LAD5223_P05_D05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 94	1503	ALWYSDLWV	ADI-26985 LAD5223_P05_D05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 94	1504	GCGCTGTGTACAGTGTCTGTGGGTG	ADI-26985 LAD5223_P05_D05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 95	1505	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGAT AACTTCGGGGCTGGTTACGTATCTCTGGTTGCTCATTGG	ADI-26986 LAD5223_P05_E04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 95	1506	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYVCVRHDFNGFAGYVSWFAHWGQG TLVTVSS	ADI-26986 LAD5223_P05_E04	Heavy chain variable region ("HC") amino acid sequence
Ab 95	1507	FTFDYAMN		ADI-26986 LAD5223_P05_E04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 95	1508	TTCACCTTTGACACATATGCCATGAAC		ADI-26986 LAD5223_P05_E04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 95	1509	RIRSKYNNYATYYADSVKD		ADI-26986 LAD5223_P05_E04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 95	1510	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26986 LAD5223_P05_E04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 95	1511	VRHDFNGYVSWFAH		ADI-26986 LAD5223_P05_E04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 95	1512	GTCAGGCACGATAACTTCGGGGCTGGTTACGTATCCTG GTTTGCTCAT		ADI-26986 LAD5223_P05_E04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 95	1513	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTATCTGTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26986 LAD5223_P05_E04	Light chain variable region ("LC") nucleic acid sequence
Ab 95	1514	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26986 LAD5223_P05_E04	Light chain variable region ("LC") amino acid sequence
Ab 95	1515	GSSTGAVTTSNYAN	ADI-26986 LAD5223_P05_E04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 95	1516	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26986 LAD5223_P05_E04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 95	1517	GTDKRAP	ADI-26986 LAD5223_P05_E04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 95	1518	GGCACAGACAAGCGCGCTCCT	ADI-26986 LAD5223_P05_E04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 95	1519	ALWYSDLWV	ADI-26986 LAD5223_P05_E04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 95	1520	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26986 LAD5223_P05_E04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 96	1521	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGTGGTACGTATCCTGGTTGCTTCTTGG	ADI-26987 LAD5223_P05_F05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 96	1522	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFVGYSVWFASWGQG TLVTVSS	ADI-26987 LAD5223_P05_F05	Heavy chain variable region ("HC") amino acid sequence
Ab 96	1523	FTFDYAMN		ADI-26987 LAD5223_P05_F05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 96	1524	TTCACCTTTGACACATATGCCATGAAC		ADI-26987 LAD5223_P05_F05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 96	1525	RIRSKYNNYATYYADSVKD		ADI-26987 LAD5223_P05_F05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 96	1526	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26987 LAD5223_P05_F05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 96	1527	VRHGNFVGYSVWFAS		ADI-26987 LAD5223_P05_F05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 96	1528	GTCAGGCACGGTAACTTCGGGGTTGGTTACGTATCCTG GTTTGCTTCT		ADI-26987 LAD5223_P05_F05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 96	1529	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTGTCTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26987 LAD5223_P05_F05	Light chain variable region ("LC") nucleic acid sequence
Ab 96	1530	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26987 LAD5223_P05_F05	Light chain variable region ("LC") amino acid sequence
Ab 96	1531	GSSTGAVTTSNYAN	ADI-26987 LAD5223_P05_F05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 96	1532	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26987 LAD5223_P05_F05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 96	1533	GTDKRAP	ADI-26987 LAD5223_P05_F05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 96	1534	GGCAGACAAGCGCGCTCCT	ADI-26987 LAD5223_P05_F05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 96	1535	ALWYSDLWV	ADI-26987 LAD5223_P05_F05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 96	1536	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26987 LAD5223_P05_F05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 97	1537	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGTCCAGGCACGGT AACTTCGGGGGTGCTTACGTATCTCTGGTTGCTCATTGG	ADI-26988 LAD5223_P05_B06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 97	1538	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26988 LAD5223_P05_B06	Heavy chain variable region ("HC") amino acid sequence
Ab 97	1539	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGGAYVSWFAHWGQG TLVTVSS	ADI-26988 LAD5223_P05_B06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 97	1540	FTFDYAMN	ADI-26988 LAD5223_P05_B06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 97	1541	TTCACCTTTGACACATATGCCATGAAC	ADI-26988 LAD5223_P05_B06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 97	1542	RIRSKYNNYATYYADSVKD	ADI-26988 LAD5223_P05_B06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 97	1543	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26988 LAD5223_P05_B06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 97	1544	VRHGNFGGAYVSWFAH	ADI-26988 LAD5223_P05_B06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 97	1544	GTCAGGCACGGTAACTTCGGGGGTGCTTACGTATCCTG GTTTGCTCAT	ADI-26988 LAD5223_P05_B06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 97	1545	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTATCTGTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26988 LAD5223_P05_B06	Light chain variable region ("LC") nucleic acid sequence
Ab 97	1546	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26988 LAD5223_P05_B06	Light chain variable region ("LC") amino acid sequence
Ab 97	1547	GSSTGAVTTSNYAN	ADI-26988 LAD5223_P05_B06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 97	1548	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26988 LAD5223_P05_B06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 97	1549	GTDKRAP	ADI-26988 LAD5223_P05_B06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 97	1550	GGCACAGACAAGCGGCTCCT	ADI-26988 LAD5223_P05_B06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 97	1551	ALWYSDLWV	ADI-26988 LAD5223_P05_B06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 97	1552	GCGCTGGGTACAGTGATCTGTGGGTG	ADI-26988 LAD5223_P05_B06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 98	1553	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACCTCGGGGAAGGTACGTATCTGTTGCTCATTTGG	ADI-26989 LAD5223_P05_F06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 98	1554	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGEYVSWFAHWGQG TLVTYSS	ADI-26989 LAD5223_P05_F06	Heavy chain variable region ("HC") amino acid sequence
Ab 98	1555	FTFDYAMN		ADI-26989 LAD5223_P05_F06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 98	1556	TTCACCTTTGACACATATGCCATGAAC		ADI-26989 LAD5223_P05_F06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 98	1557	RIRSKYNDYATYYADSVKD		ADI-26989 LAD5223_P05_F06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 98	1558	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26989 LAD5223_P05_F06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 98	1559	VRHGNFGEYVSWFAH		ADI-26989 LAD5223_P05_F06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 98	1560	GTCAGGCACGGTAACTTCGGGGAAGTTACGTATCCTG GTTTGCTCAT		ADI-26989 LAD5223_P05_F06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 98	1561	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTATCTGTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26989 LAD5223_P05_F06	Light chain variable region ("LC") nucleic acid sequence
Ab 98	1562	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26989 LAD5223_P05_F06	Light chain variable region ("LC") amino acid sequence
Ab 98	1563	GSSTGAVTTSNYAN	ADI-26989 LAD5223_P05_F06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 98	1564	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26989 LAD5223_P05_F06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 98	1565	GTDKRAP	ADI-26989 LAD5223_P05_F06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 98	1566	GGCACAGACAAGCGCGCTCCT	ADI-26989 LAD5223_P05_F06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 98	1567	ALWYSDLWV	ADI-26989 LAD5223_P05_F06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 98	1568	GCGTGTGGTACAGTGATCTGTGGGTG	ADI-26989 LAD5223_P05_F06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 99	1569	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGTCCGTCAGGCACGAT AACCTCGGGGCTGGTACGTATCTCTGGTTGCTCATTGG	ADI-26990 LAD5223_P05_B07	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 99	1570	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYVCVRHDFNGFAGYVSWFAHWGQG TLVTVSS	ADI-26990 LAD5223_P05_B07	Heavy chain variable region ("HC") amino acid sequence	
Ab 99	1571	FTFDYAMN	ADI-26990 LAD5223_P05_B07	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 99	1572	TTCACCTTTGACACATATGCCATGAAC	ADI-26990 LAD5223_P05_B07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 99	1573	RIRSKYNDYATYYADSVKD	ADI-26990 LAD5223_P05_B07	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 99	1574	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26990 LAD5223_P05_B07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 99	1575	VRHDFNGAGYVSWFAH	ADI-26990 LAD5223_P05_B07	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 99	1576	GTCAGGCACGATAACTTCGGGGCTGGTTACGTATCCTG GTTTGCTCAT	ADI-26990 LAD5223_P05_B07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 99	1577	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTGTCTGTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26990 LAD5223_P05_B07	Light chain variable region ("LC") nucleic acid sequence
Ab 99	1578	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26990 LAD5223_P05_B07	Light chain variable region ("LC") amino acid sequence
Ab 99	1579	GSSTGAVTTSNYAN	ADI-26990 LAD5223_P05_B07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 99	1580	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26990 LAD5223_P05_B07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 99	1581	GTDKRAP	ADI-26990 LAD5223_P05_B07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 99	1582	GGCACAGACAAGCGCGCTCCT	ADI-26990 LAD5223_P05_B07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 99	1583	ALWYSDLWV	ADI-26990 LAD5223_P05_B07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 99	1584	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26990 LAD5223_P05_B07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 100	1585	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGGTGGTACGTATCCTGGTTGCTTCTTGG	ADI-26991 LAD5223_P05_E07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 100	1586	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-26991 LAD5223_P05_E07	Heavy chain variable region ("HC") amino acid sequence
Ab 100	1587	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFVGYSVWFASWGQG TLVTYSS	ADI-26991 LAD5223_P05_E07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 100	1588	FTFDYAMN	ADI-26991 LAD5223_P05_E07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 100	1589	TTCACCTTTGACACATATGCCATGAAC	ADI-26991 LAD5223_P05_E07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 100	1590	RIRSKYNDYATYYADSVKD	ADI-26991 LAD5223_P05_E07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 100	1590	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26991 LAD5223_P05_E07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 100	1591	VRHGNFVGYSVWFAS	ADI-26991 LAD5223_P05_E07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 100	1592	GTCAGGCACGGTAACTTCGGGGTTGGTTACGTATCCTG GTTTGCTTCT	ADI-26991 LAD5223_P05_E07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 100	1593	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTGTCTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26991 LAD5223_P05_E07	Light chain variable region ("LC") nucleic acid sequence
Ab 100	1594	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26991 LAD5223_P05_E07	Light chain variable region ("LC") amino acid sequence
Ab 100	1595	GSSTGAVTTSNYAN	ADI-26991 LAD5223_P05_E07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 100	1596	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26991 LAD5223_P05_E07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 100	1597	GTDKRAP	ADI-26991 LAD5223_P05_E07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 100	1598	GGCACAGACAAGCGCGCTCCT	ADI-26991 LAD5223_P05_E07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 100	1599	ALWYSDLWV	ADI-26991 LAD5223_P05_E07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 100	1600	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26991 LAD5223_P05_E07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 101	1601	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAAGTGGTGGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTGGTGGCAAGGAT TAGATCCAAGTATAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTACGGCACCGGT AACTTCGGGGGTGCTTACGTATCTCTGTTGCTCATTGG	ADI-26992 LAD5223_P05_D08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 101	1602	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26992 LAD5223_P05_D08	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGGAYVSWFAHWGQG TLVTVSS		
Ab 101	1603	FTFDYAMN	ADI-26992 LAD5223_P05_D08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 101	1604	TTCACCTTTGACACATATGCCATGAAC	ADI-26992 LAD5223_P05_D08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 101	1605	RIRSKYNDYATYYADSVKD	ADI-26992 LAD5223_P05_D08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 101	1606	AGGATTAGATCCAAGTATAACGATTACGGTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26992 LAD5223_P05_D08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 101	1607	VRHGNFGGAYVSWFAH	ADI-26992 LAD5223_P05_D08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 101	1608	GTCAGGCACGGTAACTTCGGGGGTGCTTACGTATCCTG GTTTGCTCAT	ADI-26992 LAD5223_P05_D08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 101	1609	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTATCTGTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26992 LAD5223_P05_D08	Light chain variable region ("LC") nucleic acid sequence
Ab 101	1610	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26992 LAD5223_P05_D08	Light chain variable region ("LC") amino acid sequence
Ab 101	1611	GSSTGAVTTSNYAN	ADI-26992 LAD5223_P05_D08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 101	1612	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26992 LAD5223_P05_D08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 101	1613	GTDKRAP	ADI-26992 LAD5223_P05_D08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 101	1614	GGCACAGACAAGCGCGCTCCT	ADI-26992 LAD5223_P05_D08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 101	1615	ALWYSDLWV	ADI-26992 LAD5223_P05_D08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 101	1616	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26992 LAD5223_P05_D08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 102	1617	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAAGTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGGGGGTTACGTATCCTGTTGGGCATTG	ADI-26993 LAD5223_P05_F08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 102	1618	GGGCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26993 LAD5223_P05_F08	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWWVRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFNGGGYVSWFGHWGQ GTLTVSS		
Ab 102	1619	FTFDAYAMIN	ADI-26993 LAD5223_P05_F08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 102	1620	TTCACCTTTGACGCTTATGCCATGAAC	ADI-26993 LAD5223_P05_F08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 102	1621	RIRSKYNDYATYYADSVKD	ADI-26993 LAD5223_P05_F08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 102	1622	AGGATTAGATCCAAGTATAACGATTACGGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26993 LAD5223_P05_F08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 102	1623	VRHGNFNGGGYVSWFGH	ADI-26993 LAD5223_P05_F08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 102	1624	GTCAGGCACGGTAACTTCGGGGGGGTTACGTATCCTG GTTTGGGCAT	ADI-26993 LAD5223_P05_F08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 102	1625	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTGTCTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26993 LAD5223_P05_F08	Light chain variable region ("LC") nucleic acid sequence
Ab 102	1626	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26993 LAD5223_P05_F08	Light chain variable region ("LC") amino acid sequence
Ab 102	1627	GSSTGAVTTSNYAN	ADI-26993 LAD5223_P05_F08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 102	1628	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26993 LAD5223_P05_F08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 102	1629	GTDKRAP	ADI-26993 LAD5223_P05_F08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 102	1630	GGCACAGACAAGCGCGCTCCT	ADI-26993 LAD5223_P05_F08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 102	1631	ALWYSDLWV	ADI-26993 LAD5223_P05_F08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 102	1632	GCGCTGTGTACAGTGATCTGTGGGTG	ADI-26993 LAD5223_P05_F08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 103	1633	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAAGTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACGTGGGGGTGTTACGTATCCTCGTTTGCTCATTG	ADI-26994 LAD5223_P05_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 103	1634	GGGCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWRQ APKGLEWVARIRSKYNDYATYYADSVKDRFTSRDSDKST LYLQMESLRAEDTAVYYCVRHGNVGGYVSWFAHWGQ GTLVTVSS	ADI-26994 LAD5223_P05_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 103	1635	FTFDAYAMIN		ADI-26994 LAD5223_P05_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 103	1636	TTCACCTTTGACGCTTATGCCATGAAC		ADI-26994 LAD5223_P05_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 103	1637	RIRSKYNDYATYYADSVKD		ADI-26994 LAD5223_P05_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 103	1638	AGGATTAGATCCAAGTATAACGATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-26994 LAD5223_P05_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 103	1639	VRHGNVGGYVSWFAH		ADI-26994 LAD5223_P05_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 103	1640	GTCAGGCACGGTAACGTGGGGGGTGGTTACGTATCCTG GTTTGCTCAT		ADI-26994 LAD5223_P05_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 103	1641	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTGTCTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26994 LAD5223_P05_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 103	1642	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26994 LAD5223_P05_A09	Light chain variable region ("LC") amino acid sequence
Ab 103	1643	GSSTGAVTTSNYAN	ADI-26994 LAD5223_P05_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 103	1644	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26994 LAD5223_P05_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 103	1645	GTDKRAP	ADI-26994 LAD5223_P05_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 103	1646	GGCACAGACAAGCGCGCTCCT	ADI-26994 LAD5223_P05_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 103	1647	ALWYSDLWV	ADI-26994 LAD5223_P05_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 103	1648	GCGCTGGGTACAGTGATCTGTGGGTG	ADI-26994 LAD5223_P05_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 104	1649	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACGCTTATGCCATGAAGTGGGTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACGATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACTATGCTGTATCTCTGTTGCTCATTGG	ADI-26995 LAD5223_P05_F09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 104	1650	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-26995 LAD5223_P05_F09	Heavy chain variable region ("HC") amino acid sequence
Ab 104	1651	EVQLLESGGLVQPGGSLRLSCAASGFTFDAYAMNWWVRQ APGKLEWVARIRSKYNDYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFGNYAVSWFAHWGQG TLVTVSS	ADI-26995 LAD5223_P05_F09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 104	1652	FTFDAYAMIN	ADI-26995 LAD5223_P05_F09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 104	1653	TTCACCTTTGACGCTTATGCCATGAAC	ADI-26995 LAD5223_P05_F09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 104	1654	RIRSKYNDYATYYADSVKD	ADI-26995 LAD5223_P05_F09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 104	1654	AGGATTAGATCCAAGTATAACGATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-26995 LAD5223_P05_F09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 104	1655	VRHGNFGNYAVSWFAH	ADI-26995 LAD5223_P05_F09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 104	1656	GTCAGGCACGGTAACTTCGGGAACCTATGCTGTATCCTG GTTTGCTCAT	ADI-26995 LAD5223_P05_F09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 104	1657	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGATCAAGCACT GGCGCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGGCGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTGTCTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-26995 LAD5223_P05_F09	Light chain variable region ("LC") nucleic acid sequence
Ab 104	1658	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQAEDEADYYCALWYSDLWVFGGGTKLTVL	ADI-26995 LAD5223_P05_F09	Light chain variable region ("LC") amino acid sequence
Ab 104	1659	GSSTGAVTTSNYAN	ADI-26995 LAD5223_P05_F09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 104	1660	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-26995 LAD5223_P05_F09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 104	1661	GTDKRAP	ADI-26995 LAD5223_P05_F09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 104	1662	GGCAGACAAGCGCGCTCCT	ADI-26995 LAD5223_P05_F09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 104	1663	ALWYSDLWV	ADI-26995 LAD5223_P05_F09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 104	1664	GCGCTGTGTACAGTGTCTGTGGGTG	ADI-26995 LAD5223_P05_F09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 105	1665	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-28708 LAD4204_P01_B01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 105	1666	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28708 LAD4204_P01_B01	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS		
Ab 105	1667	FTFDYAMN	ADI-28708 LAD4204_P01_B01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 105	1668	TTCACCTTTGACACATATGCCATGAAT	ADI-28708 LAD4204_P01_B01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 105	1669	RIRSKYNNYATYYADSVKD	ADI-28708 LAD4204_P01_B01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 105	1670	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28708 LAD4204_P01_B01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 105	1671	VRHGNFNGYVSWFAH	ADI-28708 LAD4204_P01_B01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 105	1672	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28708 LAD4204_P01_B01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 105	1673	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28708 LAD4204_P01_B01	Light chain variable region ("LC") nucleic acid sequence
Ab 105	1674	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALIITGA QADDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28708 LAD4204_P01_B01	Light chain variable region ("LC") amino acid sequence
Ab 105	1675	GSSTGAVTTSNYAN	ADI-28708 LAD4204_P01_B01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 105	1676	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28708 LAD4204_P01_B01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 105	1677	GTDKRAP	ADI-28708 LAD4204_P01_B01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 105	1678	GGCACAGACAAGCGCGCTCCT	ADI-28708 LAD4204_P01_B01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 105	1679	ALWYSNLWV	ADI-28708 LAD4204_P01_B01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 105	1680	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28708 LAD4204_P01_B01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 106	1681	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-28709 LAD4204_P01_E01	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTCACCCGCTCCTCA			
Ab 106	1682	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-28709 LAD4204_P01_E01	Heavy chain variable region ("HC") amino acid sequence	
Ab 106	1683	FTFDYAMN	ADI-28709 LAD4204_P01_E01	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 106	1684	TTCACCTTTGACACATATGCCATGAAT	ADI-28709 LAD4204_P01_E01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 106	1685	RIRSKYNNYATYYADSVKD	ADI-28709 LAD4204_P01_E01	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 106	1686	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28709 LAD4204_P01_E01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 106	1687	VRHGNFNGYVSWFAH	ADI-28709 LAD4204_P01_E01	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 106	1688	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28709 LAD4204_P01_E01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 106	1689	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCGAGAGGATGAAGCTGATTATTACTGT GCGCTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-28709 LAD4204_P01_E01	Light chain variable region ("LC") nucleic acid sequence
Ab 106	1690	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRFSGLLGDKAALIITGA QAEDEADYICALWYSNLWVFGGGTKLTVL	ADI-28709 LAD4204_P01_E01	Light chain variable region ("LC") amino acid sequence
Ab 106	1691	GSSTGAVTTSNYAN	ADI-28709 LAD4204_P01_E01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 106	1692	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28709 LAD4204_P01_E01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 106	1693	GTDKRAP	ADI-28709 LAD4204_P01_E01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 106	1694	GGCAGACAAGCGCGCTCCT	ADI-28709 LAD4204_P01_E01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 106	1695	ALWYSNLWV	ADI-28709 LAD4204_P01_E01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 106	1696	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-28709 LAD4204_P01_E01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 107	1697	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28710 LAD4204_P01_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 107	1698	GGCCAAGGAACCCTGGTCACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS	ADI-28710 LAD4204_P01_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 107	1699	FTFDYAMN		ADI-28710 LAD4204_P01_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 107	1700	TTCACCTTTGACACATATGCCATGAAT		ADI-28710 LAD4204_P01_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 107	1701	RIRSKYNNYATYYADSVKD		ADI-28710 LAD4204_P01_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 107	1702	AGGATTAGATCCAAGTATAACAATTACCGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28710 LAD4204_P01_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 107	1703	VRHGNFNGYVSWFAH		ADI-28710 LAD4204_P01_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 107	1704	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-28710 LAD4204_P01_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 107	1705	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28710 LAD4204_P01_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 107	1706	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRFSGLLGDKAALITGA QADDEADYCVLWYSNLWVFGGGTKLTVL	ADI-28710 LAD4204_P01_A02	Light chain variable region ("LC") amino acid sequence
Ab 107	1707	GSSTGAVTTSNYAN	ADI-28710 LAD4204_P01_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 107	1708	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28710 LAD4204_P01_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 107	1709	GTDKRAP	ADI-28710 LAD4204_P01_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 107	1710	GGCACAGACAAGCGCGCTCCT	ADI-28710 LAD4204_P01_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 107	1711	VLWYSNLWV	ADI-28710 LAD4204_P01_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 107	1712	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28710 LAD4204_P01_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 108	1713	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28711 LAD4204_P01_A03	Heavy chain variable region ("HC") nucleic acid sequence

			GGCCAAGGAACCCTGGTCACCCGCTCCTCA			
Ab 108	1714		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGFNGYVSWFAHWGQ GTLVTVSS	ADI-28711 LAD4204_P01_A03		Heavy chain variable region ("HC") amino acid sequence
Ab 108	1715		FTFDYAMN	ADI-28711 LAD4204_P01_A03		Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 108	1716		TTCACCTTTGACACATATGCCATGAAT	ADI-28711 LAD4204_P01_A03		Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 108	1717		RIRSKYNNYATYYADSVKD	ADI-28711 LAD4204_P01_A03		Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 108	1718		AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28711 LAD4204_P01_A03		Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 108	1719		VRHGFNGYVSWFAH	ADI-28711 LAD4204_P01_A03		Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 108	1720		GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28711 LAD4204_P01_A03		Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 108	1721	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28711 LAD4204_P01_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 108	1722	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28711 LAD4204_P01_A03	Light chain variable region ("LC") amino acid sequence
Ab 108	1723	GSSTGAVTTSNYAN	ADI-28711 LAD4204_P01_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 108	1724	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28711 LAD4204_P01_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 108	1725	GTDKRAP	ADI-28711 LAD4204_P01_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 108	1726	GGCACAGACAAGCGCGCTCCT	ADI-28711 LAD4204_P01_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 108	1727	ALWYSNLWV	ADI-28711 LAD4204_P01_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 108	1728	GCGTGTGGTACAGTAACCTTTGGGTG	ADI-28711 LAD4204_P01_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 109	1729	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28712 LAD4204_P01_E03	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTCACCCGCTCCTCA			
Ab 109	1730	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGVYVSWFAHWGQ GTLVTVSS	ADI-28712 LAD4204_P01_E03	Heavy chain variable region ("HC") amino acid sequence	
Ab 109	1731	FTFDYAMN	ADI-28712 LAD4204_P01_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 109	1732	TTCACCTTTGACACATATGCCATGAAT	ADI-28712 LAD4204_P01_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 109	1733	RIRSKYNNYATYYADSVKD	ADI-28712 LAD4204_P01_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 109	1734	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28712 LAD4204_P01_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 109	1735	VRHGNFNGVYVSWFAH	ADI-28712 LAD4204_P01_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 109	1736	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28712 LAD4204_P01_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 109	1737	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28712 LAD4204_P01_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 109	1738	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYSNLWVFGGKLTVL	ADI-28712 LAD4204_P01_E03	Light chain variable region ("LC") amino acid sequence
Ab 109	1739	GSSAGAVTTSNYAN	ADI-28712 LAD4204_P01_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 109	1740	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28712 LAD4204_P01_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 109	1741	GTDKRAP	ADI-28712 LAD4204_P01_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 109	1742	GGCAGACAAGCGCGCTCCT	ADI-28712 LAD4204_P01_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 109	1743	ALWYSNLWV	ADI-28712 LAD4204_P01_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 109	1744	GCGTGTGTACAGTAACTTTGGGTG	ADI-28712 LAD4204_P01_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 110	1745	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTGCCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-28713 LAD4204_P01_A04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 110	1746	GGCCAAGGAACCCTGGTCACCCGCTCCTCA	ADI-28713 LAD4204_P01_A04	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS		
Ab 110	1747	FTFDYAMN	ADI-28713 LAD4204_P01_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 110	1748	TTCACCTTTGACACATATGCCATGAAT	ADI-28713 LAD4204_P01_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 110	1749	RIRSKYNNYATYYADSVKD	ADI-28713 LAD4204_P01_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 110	1750	AGGATTAGATCCAAGTATAACAATTACCGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28713 LAD4204_P01_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 110	1751	VRHGNFNGYVSWFAH	ADI-28713 LAD4204_P01_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 110	1752	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28713 LAD4204_P01_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 110	1753	CAGACTGGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-28713 LAD4204_P01_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 110	1754	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG VQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28713 LAD4204_P01_A04	Light chain variable region ("LC") amino acid sequence
Ab 110	1755	GSSTGAVTTSNYAN	ADI-28713 LAD4204_P01_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 110	1756	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28713 LAD4204_P01_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 110	1757	GTDKRAP	ADI-28713 LAD4204_P01_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 110	1758	GGCAGACAAGCGCGCTCCT	ADI-28713 LAD4204_P01_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 110	1759	ALWYSNLWV	ADI-28713 LAD4204_P01_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 110	1760	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-28713 LAD4204_P01_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 111	1761	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28714 LAD4204_P01_H04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 111	1762	GGCCAAGGAACCCTGGTCACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-28714 LAD4204_P01_H04	Heavy chain variable region ("HC") amino acid sequence
Ab 111	1763	FTFDYAMN		ADI-28714 LAD4204_P01_H04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 111	1764	TTCACCTTTGACACATATGCCATGAAT		ADI-28714 LAD4204_P01_H04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 111	1765	RIRSKYNNYATYYADSVKD		ADI-28714 LAD4204_P01_H04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 111	1766	AGGATTAGATCCAAGTATAACAATTACCGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28714 LAD4204_P01_H04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 111	1767	VRHGNFNGYVSWFAH		ADI-28714 LAD4204_P01_H04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 111	1768	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-28714 LAD4204_P01_H04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 111	1769	CAGACTGGTGTGACCCAGGAGGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGATGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28714 LAD4204_P01_H04	Light chain variable region ("LC") nucleic acid sequence
Ab 111	1770	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG VQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28714 LAD4204_P01_H04	Light chain variable region ("LC") amino acid sequence
Ab 111	1771	GSSTGAVTTSNYAN	ADI-28714 LAD4204_P01_H04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 111	1772	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28714 LAD4204_P01_H04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 111	1773	GTDKRAP	ADI-28714 LAD4204_P01_H04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 111	1774	GGCACAGACAAGCGCGCTCCT	ADI-28714 LAD4204_P01_H04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 111	1775	ALWYNNLWV	ADI-28714 LAD4204_P01_H04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 111	1776	GCGTGTGTTACAATAACCTTTGGGGTG	ADI-28714 LAD4204_P01_H04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 112	1777	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28715 LAD4204_P01_C05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 112	1778	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28715 LAD4204_P01_C05	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS		
Ab 112	1779	FTFDYAMN	ADI-28715 LAD4204_P01_C05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 112	1780	TTCACCTTTGACACATATGCCATGAAT	ADI-28715 LAD4204_P01_C05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 112	1781	RIRSKYNNYATYYADSVKD	ADI-28715 LAD4204_P01_C05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 112	1782	AGGATTAGATCCAAGTATAACAATTACCGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28715 LAD4204_P01_C05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 112	1783	VRHGNFNGYVSWFAH	ADI-28715 LAD4204_P01_C05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 112	1784	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28715 LAD4204_P01_C05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 112	1785	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28715 LAD4204_P01_C05	Light chain variable region ("LC") nucleic acid sequence
Ab 112	1786	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCVLWYSNLWVFGGGTKLTVL	ADI-28715 LAD4204_P01_C05	Light chain variable region ("LC") amino acid sequence
Ab 112	1787	GSSTGAVTTSNYAN	ADI-28715 LAD4204_P01_C05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 112	1788	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28715 LAD4204_P01_C05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 112	1789	GTDKRAP	ADI-28715 LAD4204_P01_C05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 112	1790	GGCACAGACAAGCGCGCTCCT	ADI-28715 LAD4204_P01_C05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 112	1791	VLWYSNLWV	ADI-28715 LAD4204_P01_C05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 112	1792	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28715 LAD4204_P01_C05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 113	1793	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-28716 LAD4204_P01_G05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 113	1794	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28716 LAD4204_P01_G05	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS		
Ab 113	1795	FTFDYAMN	ADI-28716 LAD4204_P01_G05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 113	1796	TTCACCTTTGACACATATGCCATGAAT	ADI-28716 LAD4204_P01_G05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 113	1797	RIRSKYNNYATYYADSVKD	ADI-28716 LAD4204_P01_G05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 113	1798	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28716 LAD4204_P01_G05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 113	1799	VRHGNFNGYVSWFAH	ADI-28716 LAD4204_P01_G05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 113	1800	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28716 LAD4204_P01_G05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 113	1801	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGAAAGCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28716 LAD4204_P01_G05	Light chain variable region ("LC") nucleic acid sequence
Ab 113	1802	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALITIG AQADDEADYYCALWYSNLWVFGGKLTVL	ADI-28716 LAD4204_P01_G05	Light chain variable region ("LC") amino acid sequence
Ab 113	1803	GSSAGAVTTSNYAN	ADI-28716 LAD4204_P01_G05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 113	1804	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28716 LAD4204_P01_G05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 113	1805	GTDKRAP	ADI-28716 LAD4204_P01_G05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 113	1806	GGCAGACAAGCGCGCTCCT	ADI-28716 LAD4204_P01_G05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 113	1807	ALWYSNLWV	ADI-28716 LAD4204_P01_G05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 113	1808	GCGTGTGTACAGTAACCTTTGGGTG	ADI-28716 LAD4204_P01_G05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 114	1809	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28717 LAD4204_P01_A07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 114	1810	GGCCAAGGAACCCTGGTCACCCGCTCCTCA	ADI-28717 LAD4204_P01_A07	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGFNGYVSWFAHWGQ GTLVTVSS		
Ab 114	1811	FTFDYAMN	ADI-28717 LAD4204_P01_A07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 114	1812	TTCACCTTTGACACATATGCCATGAAT	ADI-28717 LAD4204_P01_A07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 114	1813	RIRSKYNNYATYYADSVKD	ADI-28717 LAD4204_P01_A07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 114	1814	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28717 LAD4204_P01_A07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 114	1815	VRHGFNGYVSWFAH	ADI-28717 LAD4204_P01_A07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 114	1816	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28717 LAD4204_P01_A07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 114	1817	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCCCAGGCAGATGATGAAGCTGATTA TACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28717 LAD4204_P01_A07	Light chain variable region ("LC") nucleic acid sequence
Ab 114	1818	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28717 LAD4204_P01_A07	Light chain variable region ("LC") amino acid sequence
Ab 114	1819	GSSTGAVTTSNYAN	ADI-28717 LAD4204_P01_A07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 114	1820	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28717 LAD4204_P01_A07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 114	1821	GTDKRAP	ADI-28717 LAD4204_P01_A07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 114	1822	GGCAGACAAGCGCGCTCCT	ADI-28717 LAD4204_P01_A07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 114	1823	ALWYNNLWV	ADI-28717 LAD4204_P01_A07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 114	1824	GCGCTGTGTACAATAACCTTTGGGGTG	ADI-28717 LAD4204_P01_A07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 115	1825	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCTGGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACCTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28718 LAD4204_P01_A08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 115	1826	GGCCAAGGAACCCTGGTGACCCTGCTCCTCA	ADI-28718 LAD4204_P01_A08	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS		
Ab 115	1827	FTFDYAMN	ADI-28718 LAD4204_P01_A08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 115	1828	TTCACCTTTGACACATATGCCATGAAT	ADI-28718 LAD4204_P01_A08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 115	1829	RIRSKYNNYATYYADSVKD	ADI-28718 LAD4204_P01_A08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 115	1830	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28718 LAD4204_P01_A08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 115	1831	VRHGNFNGYVSWFAH	ADI-28718 LAD4204_P01_A08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 115	1832	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28718 LAD4204_P01_A08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 115	1833	CAGACTGGTGGTACCAGAGGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTCTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28718 LAD4204_P01_A08	Light chain variable region ("LC") nucleic acid sequence
Ab 115	1834	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCVLWYSNLWVFGGKLTVL	ADI-28718 LAD4204_P01_A08	Light chain variable region ("LC") amino acid sequence
Ab 115	1835	GSSTGAVTTSNYAN	ADI-28718 LAD4204_P01_A08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 115	1836	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28718 LAD4204_P01_A08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 115	1837	GTDKRAP	ADI-28718 LAD4204_P01_A08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 115	1838	GGCACAGACAAGCGCGCTCCT	ADI-28718 LAD4204_P01_A08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 115	1839	VLWYSNLWV	ADI-28718 LAD4204_P01_A08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 115	1840	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28718 LAD4204_P01_A08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 116	1841	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTCCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28719 LAD4205_P01_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 116	1842	GGCCAAGGAACCCTGGTACCCTGCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS	ADI-28719 LAD4205_P01_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 116	1843	FTFDYAMN		ADI-28719 LAD4205_P01_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 116	1844	TTCACCTTTGACACATATGCCATGAAT		ADI-28719 LAD4205_P01_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 116	1845	RIRSKYNNYATYYADSVKG		ADI-28719 LAD4205_P01_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 116	1846	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28719 LAD4205_P01_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 116	1847	VRHGNFGNSVSWFAH		ADI-28719 LAD4205_P01_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 116	1848	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28719 LAD4205_P01_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 116	1849	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGCTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28719 LAD4205_P01_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 116	1850	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALITGA QADDEADYCALWYSNLWVFGGGTKLTVL	ADI-28719 LAD4205_P01_A09	Light chain variable region ("LC") amino acid sequence
Ab 116	1851	GSSTGAVTTSNYAN	ADI-28719 LAD4205_P01_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 116	1852	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28719 LAD4205_P01_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 116	1853	GTDKRAP	ADI-28719 LAD4205_P01_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 116	1854	GGCAGACAAGCGCGCTCCT	ADI-28719 LAD4205_P01_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 116	1855	ALWYSNLWV	ADI-28719 LAD4205_P01_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 116	1856	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-28719 LAD4205_P01_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 117	1857	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28720 LAD4205_P01_G09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 117	1858	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28720 LAD4205_P01_G09	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 117	1859	FTFDYAMN	ADI-28720 LAD4205_P01_G09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 117	1860	TTCACCTTTGACACATATGCCATGAAT	ADI-28720 LAD4205_P01_G09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 117	1861	RIRSKYNNYATYYADSVKG	ADI-28720 LAD4205_P01_G09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 117	1862	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28720 LAD4205_P01_G09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 117	1863	VRHGNFGNSWVSWFAH	ADI-28720 LAD4205_P01_G09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 117	1864	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28720 LAD4205_P01_G09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 117	1865	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-28720 LAD4205_P01_G09	Light chain variable region ("LC") nucleic acid sequence
Ab 117	1866	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALIITGA QAEDEADYICALWYSNLWVFGGGTKLTVL	ADI-28720 LAD4205_P01_G09	Light chain variable region ("LC") amino acid sequence
Ab 117	1867	GSSTGAVTTSNYAN	ADI-28720 LAD4205_P01_G09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 117	1868	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28720 LAD4205_P01_G09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 117	1869	GTDKRAP	ADI-28720 LAD4205_P01_G09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 117	1870	GGCAGACAAGCGCGCTCCT	ADI-28720 LAD4205_P01_G09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 117	1871	ALWYSNLWV	ADI-28720 LAD4205_P01_G09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 117	1872	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-28720 LAD4205_P01_G09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 118	1873	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTCGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCCTGTTGCTCATTGG	ADI-28721 LAD4205_P01_A10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 118	1874	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTYSS	ADI-28721 LAD4205_P01_A10	Heavy chain variable region ("HC") amino acid sequence
Ab 118	1875	FTFDYAMN		ADI-28721 LAD4205_P01_A10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 118	1876	TTCACCTTTGACACATATGCCATGAAT		ADI-28721 LAD4205_P01_A10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 118	1877	RIRSKYNNYATYYADSVKQ		ADI-28721 LAD4205_P01_A10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 118	1878	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28721 LAD4205_P01_A10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 118	1879	VRHGNFGNSVSWFAH		ADI-28721 LAD4205_P01_A10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 118	1880	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28721 LAD4205_P01_A10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 118	1881	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28721 LAD4205_P01_A10	Light chain variable region ("LC") nucleic acid sequence
Ab 118	1882	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALITGA QADDEADYCVLWYSNLWVFGGGTKLTVL	ADI-28721 LAD4205_P01_A10	Light chain variable region ("LC") amino acid sequence
Ab 118	1883	GSSTGAVTTSNYAN	ADI-28721 LAD4205_P01_A10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 118	1884	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28721 LAD4205_P01_A10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 118	1885	GTDKRAP	ADI-28721 LAD4205_P01_A10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 118	1886	GGCACAGACAAGCGCGCTCCT	ADI-28721 LAD4205_P01_A10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 118	1887	VLWYSNLWV	ADI-28721 LAD4205_P01_A10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 118	1888	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28721 LAD4205_P01_A10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 119	1889	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28722 LAD4205_P01_E10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 119	1890	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28722 LAD4205_P01_E10	Heavy chain variable region ("HC") amino acid sequence
	1891	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 119	1891	FTFDYAMN	ADI-28722 LAD4205_P01_E10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 119	1892	TTCACCTTTGACACATATGCCATGAAT	ADI-28722 LAD4205_P01_E10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 119	1893	RIRSKYNNYATYYADSVKG	ADI-28722 LAD4205_P01_E10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 119	1894	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28722 LAD4205_P01_E10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 119	1895	VRHGNFGNSWVSWFAH	ADI-28722 LAD4205_P01_E10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 119	1896	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28722 LAD4205_P01_E10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 119	1897	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTAATTACTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28722 LAD4205_P01_E10	Light chain variable region ("LC") nucleic acid sequence
Ab 119	1898	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALIITGA QADDEADYCALWYSNHWVFGGGTKLTVL	ADI-28722 LAD4205_P01_E10	Light chain variable region ("LC") amino acid sequence
Ab 119	1899	GSSTGAVTTSNYAN	ADI-28722 LAD4205_P01_E10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 119	1900	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28722 LAD4205_P01_E10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 119	1901	GTDKRAP	ADI-28722 LAD4205_P01_E10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 119	1902	GGCAGACAAGCGCGCTCCT	ADI-28722 LAD4205_P01_E10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 119	1903	ALWYSNHWV	ADI-28722 LAD4205_P01_E10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 119	1904	GCGCTGGGTACAGTAACCAATTGGGTG	ADI-28722 LAD4205_P01_E10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 120	1905	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTCGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28723 LAD4205_P01_A11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 120	1906	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	ADI-28723 LAD4205_P01_A11	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 120	1907	FTFDYAMN	ADI-28723 LAD4205_P01_A11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 120	1908	TTCACCTTTGACACATATGCCATGAAT	ADI-28723 LAD4205_P01_A11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 120	1909	RIRSKYNNYATYYADSVKG	ADI-28723 LAD4205_P01_A11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 120	1910	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28723 LAD4205_P01_A11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 120	1911	VRHGNFGNSWVSWFAH	ADI-28723 LAD4205_P01_A11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 120	1912	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28723 LAD4205_P01_A11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 120	1913	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-28723 LAD4205_P01_A11	Light chain variable region ("LC") nucleic acid sequence
Ab 120	1914	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTG VQADDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28723 LAD4205_P01_A11	Light chain variable region ("LC") amino acid sequence
Ab 120	1915	GSSTGAVTTSNYAN	ADI-28723 LAD4205_P01_A11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 120	1916	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28723 LAD4205_P01_A11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 120	1917	GTDKRAP	ADI-28723 LAD4205_P01_A11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 120	1918	GGCACAGACAAGCGCGCTCCT	ADI-28723 LAD4205_P01_A11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 120	1919	ALWYSNLWV	ADI-28723 LAD4205_P01_A11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 120	1920	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28723 LAD4205_P01_A11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 121	1921	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTCCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28724 LAD4205_P01_A12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 121	1922	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	ADI-28724 LAD4205_P01_A12	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 121	1923	FTFDYAMN	ADI-28724 LAD4205_P01_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 121	1924	TTCACCTTTGACACATATGCCATGAAT	ADI-28724 LAD4205_P01_A12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 121	1925	RIRSKYNNYATYYADSVKG	ADI-28724 LAD4205_P01_A12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 121	1926	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28724 LAD4205_P01_A12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 121	1927	VRHGNFGNSWVSWFAH	ADI-28724 LAD4205_P01_A12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 121	1928	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28724 LAD4205_P01_A12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 121	1929	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28724 LAD4205_P01_A12	Light chain variable region ("LC") nucleic acid sequence
Ab 121	1930	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG VQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28724 LAD4205_P01_A12	Light chain variable region ("LC") amino acid sequence
Ab 121	1931	GSSTGAVTTSNYAN	ADI-28724 LAD4205_P01_A12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 121	1932	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28724 LAD4205_P01_A12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 121	1933	GTDKRAP	ADI-28724 LAD4205_P01_A12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 121	1934	GGCACAGACAAGCGCGCTCCT	ADI-28724 LAD4205_P01_A12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 121	1935	ALWYSNLWV	ADI-28724 LAD4205_P01_A12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 121	1936	GCGTGTGTACAGTAACCTTTGGGTG	ADI-28724 LAD4205_P01_A12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 122	1937	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTCCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28725 LAD4205_P01_F12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 122	1938	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	ADI-28725 LAD4205_P01_F12	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 122	1939	FTFDYAMN	ADI-28725 LAD4205_P01_F12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 122	1940	TTCACCTTTGACACATATGCCATGAAT	ADI-28725 LAD4205_P01_F12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 122	1941	RIRSKYNNYATYYADSVKG	ADI-28725 LAD4205_P01_F12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 122	1942	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28725 LAD4205_P01_F12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 122	1943	VRHGNFGNSWVSWFAH	ADI-28725 LAD4205_P01_F12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 122	1944	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28725 LAD4205_P01_F12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 122	1945	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGATGATCAAGCACT GGCGCAGTCACTACTAGTAACACTAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28725 LAD4205_P01_F12	Light chain variable region ("LC") nucleic acid sequence
Ab 122	1946	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28725 LAD4205_P01_F12	Light chain variable region ("LC") amino acid sequence
Ab 122	1947	GSSTGAVTTSNYAN	ADI-28725 LAD4205_P01_F12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 122	1948	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28725 LAD4205_P01_F12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 122	1949	GTDKRAP	ADI-28725 LAD4205_P01_F12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 122	1950	GGCACAGACAAGCGCGCTCCT	ADI-28725 LAD4205_P01_F12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 122	1951	ALWYNNLWV	ADI-28725 LAD4205_P01_F12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 122	1952	GCGTGTGGTACAATAACCTTTGGGGTG	ADI-28725 LAD4205_P01_F12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 123	1953	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28726 LAD4205_P02_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 123	1954	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYYCVRHGNFGNSYVSWFAHWGQG TLVTVSS	ADI-28726 LAD4205_P02_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 123	1955	FTFDYAMN		ADI-28726 LAD4205_P02_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 123	1956	TTCACCTTTGACACATATGCCATGAAT		ADI-28726 LAD4205_P02_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 123	1957	RIRSKYNNYATYYADSVKG		ADI-28726 LAD4205_P02_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 123	1958	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28726 LAD4205_P02_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 123	1959	VRHGNFGNSVSWFAH		ADI-28726 LAD4205_P02_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 123	1960	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28726 LAD4205_P02_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 123	1961	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28726 LAD4205_P02_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 123	1962	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG VQADDEADYYCVLWYSNLWVFGGGTKLTVL	ADI-28726 LAD4205_P02_A01	Light chain variable region ("LC") amino acid sequence
Ab 123	1963	GSSTGAVTTSNYAN	ADI-28726 LAD4205_P02_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 123	1964	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28726 LAD4205_P02_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 123	1965	GTDKRAP	ADI-28726 LAD4205_P02_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 123	1966	GGCACAGACAAGCGCGCTCCT	ADI-28726 LAD4205_P02_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 123	1967	VLWYSNLWV	ADI-28726 LAD4205_P02_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 123	1968	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28726 LAD4205_P02_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 124	1969	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTCCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28727 LAD4205_P02_F01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 124	1970	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28727 LAD4205_P02_F01	Heavy chain variable region ("HC") amino acid sequence
Ab 124	1971	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTYSS	ADI-28727 LAD4205_P02_F01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 124	1972	FTFDYAMN	ADI-28727 LAD4205_P02_F01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 124	1973	TTCACCTTTGACACATATGCCATGAAT	ADI-28727 LAD4205_P02_F01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 124	1974	RIRSKYNNYATYYADSVKQ	ADI-28727 LAD4205_P02_F01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 124	1975	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28727 LAD4205_P02_F01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 124	1976	VRHGNFGNSWVSWFAH	ADI-28727 LAD4205_P02_F01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 124	1976	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28727 LAD4205_P02_F01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 124	1977	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28727 LAD4205_P02_F01	Light chain variable region ("LC") nucleic acid sequence
Ab 124	1978	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYSNHWVFGGKLTVL	ADI-28727 LAD4205_P02_F01	Light chain variable region ("LC") amino acid sequence
Ab 124	1979	GSSTGAVTTSNYAN	ADI-28727 LAD4205_P02_F01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 124	1980	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28727 LAD4205_P02_F01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 124	1981	GTDKRAP	ADI-28727 LAD4205_P02_F01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 124	1982	GGCACAGACAAGCGCGCTCCT	ADI-28727 LAD4205_P02_F01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 124	1983	ALWYSNHWV	ADI-28727 LAD4205_P02_F01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 124	1984	GCGTGTGTACAGTAACCAATTGGGTG	ADI-28727 LAD4205_P02_F01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 125	1985	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTCCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28728 LAD4205_P02_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 125	186	GGCCAAGGAAACCCTGGTACCACCGTCTCCTCA	ADI-28728 LAD4205_P02_A02	Heavy chain variable region ("HC") amino acid sequence
	187	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYVCVRHGFNGFSYVSWFAHWGQG TLVTYSS		
Ab 125	188	FTFDYAMN	ADI-28728 LAD4205_P02_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 125	189	TTCACCTTTGACACATATGCCATGAAT	ADI-28728 LAD4205_P02_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 125	190	RIRSKYNNYATYYADSVKGG	ADI-28728 LAD4205_P02_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 125	191	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28728 LAD4205_P02_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 125	192	VRHGFNGFSWVSWFAH	ADI-28728 LAD4205_P02_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 125	193	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28728 LAD4205_P02_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 125	1993	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAAGCTGATTA TACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-28728 LAD4205_P02_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 125	1994	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYSNLWVFGGGLTLTVL	ADI-28728 LAD4205_P02_A02	Light chain variable region ("LC") amino acid sequence
Ab 125	1995	GSSAGAVTTSNYAN	ADI-28728 LAD4205_P02_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 125	1996	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28728 LAD4205_P02_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 125	1997	GTDKRAP	ADI-28728 LAD4205_P02_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 125	1998	GGCAGACAAGCGCGCTCCT	ADI-28728 LAD4205_P02_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 125	1999	ALWYSNLWV	ADI-28728 LAD4205_P02_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 125	2000	GCGTGTGTACAGTAACTTTGGGTG	ADI-28728 LAD4205_P02_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 126	2001	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28729 LAD4205_P02_E02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 126	2002	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGNGFNFGNSYVSWFAHWGQG TLVTYSS	ADI-28729 LAD4205_P02_E02	Heavy chain variable region ("HC") amino acid sequence
Ab 126	2003	FTFDYAMN		ADI-28729 LAD4205_P02_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 126	2004	TTCACCTTTGACACATATGCCATGAAT		ADI-28729 LAD4205_P02_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 126	2005	RIRSKYNNYATYYADSVKG		ADI-28729 LAD4205_P02_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 126	2006	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28729 LAD4205_P02_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 126	2007	VRHGNFGNSVSWFAH		ADI-28729 LAD4205_P02_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 126	2008	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28729 LAD4205_P02_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 126	2009	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GTGCTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28729 LAD4205_P02_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 126	2010	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYCVLWYSNLWVFGGKLTVL	ADI-28729 LAD4205_P02_E02	Light chain variable region ("LC") amino acid sequence
Ab 126	2011	GSSAGAVTTSNYAN	ADI-28729 LAD4205_P02_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 126	2012	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28729 LAD4205_P02_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 126	2013	GTDKRAP	ADI-28729 LAD4205_P02_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 126	2014	GGCACAGACAAGCGCGCTCCT	ADI-28729 LAD4205_P02_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 126	2015	VLWYSNLWV	ADI-28729 LAD4205_P02_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 126	2016	GTGCTGTGTACAGTAAACCTTTGGGTG	ADI-28729 LAD4205_P02_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 127	2017	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28730 LAD4205_P02_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 127	2018	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYVCVRHGNFGNSYVSWFAHWGQG TLVTVSS	ADI-28730 LAD4205_P02_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 127	2019	FTFDYAMN		ADI-28730 LAD4205_P02_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 127	2020	TTCACCTTTGACACATATGCCATGAAT		ADI-28730 LAD4205_P02_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 127	2021	RIRSKYNNYATYYADSVKG		ADI-28730 LAD4205_P02_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 127	2022	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28730 LAD4205_P02_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 127	2023	VRHGNFGNSVSWFAH		ADI-28730 LAD4205_P02_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 127	2024	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28730 LAD4205_P02_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 127	2025	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28730 LAD4205_P02_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 127	2026	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQADDEADYYCALWYSNHWVFGGKLTIVL	ADI-28730 LAD4205_P02_A03	Light chain variable region ("LC") amino acid sequence
Ab 127	2027	GSSAGAVTTSNYAN	ADI-28730 LAD4205_P02_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 127	2028	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28730 LAD4205_P02_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 127	2029	GTDKRAP	ADI-28730 LAD4205_P02_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 127	2030	GGCACAGACAAGCGCGCTCCT	ADI-28730 LAD4205_P02_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 127	2031	ALWYSNHWV	ADI-28730 LAD4205_P02_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 127	2032	GCGTGTGTACAGTAACCAATTGGGTG	ADI-28730 LAD4205_P02_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 128	2033	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTCCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28731 LAD4205_P02_E03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 128	2034	GGCCAAGGAAACCCTGGTGACCACCGTCTCCTCA	ADI-28731 LAD4205_P02_E03	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 128	2035	FTFDYAMN	ADI-28731 LAD4205_P02_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 128	2036	TTCACCTTTGACACATATGCCATGAAT	ADI-28731 LAD4205_P02_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 128	2037	RIRSKYNNYATYYADSVKG	ADI-28731 LAD4205_P02_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 128	2038	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28731 LAD4205_P02_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 128	2039	VRHGNFGNSVSWFAH	ADI-28731 LAD4205_P02_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 128	2040	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28731 LAD4205_P02_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 128	2041	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCCGCGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCCGCAGGATGATGAAAGCTGATTACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28731 LAD4205_P02_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 128	2042	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28731 LAD4205_P02_E03	Light chain variable region ("LC") amino acid sequence
Ab 128	2043	GSSTGAVTTSNYAN	ADI-28731 LAD4205_P02_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 128	2044	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28731 LAD4205_P02_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 128	2045	GTDKRAP	ADI-28731 LAD4205_P02_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 128	2046	GGCACAGACAAGCGCGCTCCT	ADI-28731 LAD4205_P02_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 128	2047	ALWYNNLWV	ADI-28731 LAD4205_P02_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 128	2048	GCGCTGGGTACAATAACCTTTGGGGTG	ADI-28731 LAD4205_P02_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 129	2049	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCTGGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTGCGTCAGGCACGGT AACCTCGGGAACAGTACGTATCCTGTTGCTCATTGG	ADI-28732 LAD4205_P02_C04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 129	2050	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28732 LAD4205_P02_C04	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 129	2051	FTFDYAMN	ADI-28732 LAD4205_P02_C04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 129	2052	TTCACCTTTGACACATATGCCATGAAT	ADI-28732 LAD4205_P02_C04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 129	2053	RIRSKYNNYATYYADSVKG	ADI-28732 LAD4205_P02_C04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 129	2054	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28732 LAD4205_P02_C04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 129	2055	VRHGNFGNSVSWFAH	ADI-28732 LAD4205_P02_C04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 129	2056	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28732 LAD4205_P02_C04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 129	2057	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28732 LAD4205_P02_C04	Light chain variable region ("LC") nucleic acid sequence
Ab 129	2058	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYCVLWYSNLWVFGGGTKLTVL	ADI-28732 LAD4205_P02_C04	Light chain variable region ("LC") amino acid sequence
Ab 129	2059	GSSTGAVTTSNYAN	ADI-28732 LAD4205_P02_C04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 129	2060	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28732 LAD4205_P02_C04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 129	2061	GTDKRAP	ADI-28732 LAD4205_P02_C04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 129	2062	GGCACAGACAAGCGCGCTCCT	ADI-28732 LAD4205_P02_C04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 129	2063	VLWYSNLWV	ADI-28732 LAD4205_P02_C04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 129	2064	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28732 LAD4205_P02_C04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 130	2065	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28733 LAD4206_P01_D05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 130	2066	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28733 LAD4206_P01_D05	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSLRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS		
Ab 130	2067	FTFDYAMN	ADI-28733 LAD4206_P01_D05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 130	2068	TTCACCTTTGACACATATGCCATGAAT	ADI-28733 LAD4206_P01_D05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 130	2069	RIRSKYNNYATYYADSVKD	ADI-28733 LAD4206_P01_D05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 130	2070	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28733 LAD4206_P01_D05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 130	2071	VRHSNFGNSYVSWFAH	ADI-28733 LAD4206_P01_D05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 130	2072	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28733 LAD4206_P01_D05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 130	2073	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTAATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28733 LAD4206_P01_D05	Light chain variable region ("LC") nucleic acid sequence
Ab 130	2074	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALIITGA QADDEADYCALWYSNLWVFGGKLTVL	ADI-28733 LAD4206_P01_D05	Light chain variable region ("LC") amino acid sequence
Ab 130	2075	GSSTGAVTTSNYAN	ADI-28733 LAD4206_P01_D05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 130	2076	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28733 LAD4206_P01_D05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 130	2077	GTDKRAP	ADI-28733 LAD4206_P01_D05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 130	2078	GGCACAGACAAGCGCGCTCCT	ADI-28733 LAD4206_P01_D05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 130	2079	ALWYSNLWV	ADI-28733 LAD4206_P01_D05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 130	2080	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28733 LAD4206_P01_D05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 131	2081	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28734 LAD4206_P01_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 131	2082	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28734 LAD4206_P01_E05	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS		
Ab 131	2083	FTFDYAMN	ADI-28734 LAD4206_P01_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 131	2084	TTCACCTTTGACACATATGCCATGAAT	ADI-28734 LAD4206_P01_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 131	2085	RIRSKYNNYATYYADSVKD	ADI-28734 LAD4206_P01_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 131	2086	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28734 LAD4206_P01_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 131	2087	VRHSNFGNSYVSWFAH	ADI-28734 LAD4206_P01_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 131	2088	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28734 LAD4206_P01_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 131	2089	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCCGCAGGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-28734 LAD4206_P01_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 131	2090	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALIITGA QAEDEADYICALWYSNLWVFGGGTKLTVL	ADI-28734 LAD4206_P01_E05	Light chain variable region ("LC") amino acid sequence
Ab 131	2091	GSSTGAVTTSNYAN	ADI-28734 LAD4206_P01_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 131	2092	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28734 LAD4206_P01_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 131	2093	GTDKRAP	ADI-28734 LAD4206_P01_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 131	2094	GGCACAGACAAGCGCGCTCCT	ADI-28734 LAD4206_P01_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 131	2095	ALWYSNLWV	ADI-28734 LAD4206_P01_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 131	2096	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28734 LAD4206_P01_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 132	2097	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTCGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28735 LAD4206_P01_D06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 132	2098	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTYSS	ADI-28735 LAD4206_P01_D06	Heavy chain variable region ("HC") amino acid sequence
Ab 132	2099	FTFDYAMN		ADI-28735 LAD4206_P01_D06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 132	2100	TTCACCTTTGACACATATGCCATGAAT		ADI-28735 LAD4206_P01_D06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 132	2101	RIRSKYNNYATYYADSVKD		ADI-28735 LAD4206_P01_D06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 132	2102	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28735 LAD4206_P01_D06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 132	2103	VRHSNFGNSYVSWFAH		ADI-28735 LAD4206_P01_D06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 132	2104	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28735 LAD4206_P01_D06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 132	2105	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28735 LAD4206_P01_D06	Light chain variable region ("LC") nucleic acid sequence
Ab 132	2106	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALITGA QADDEADYCVLWYSNLWVFGGGTKLTVL	ADI-28735 LAD4206_P01_D06	Light chain variable region ("LC") amino acid sequence
Ab 132	2107	GSSTGAVTTSNYAN	ADI-28735 LAD4206_P01_D06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 132	2108	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28735 LAD4206_P01_D06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 132	2109	GTDKRAP	ADI-28735 LAD4206_P01_D06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 132	2110	GGCACAGACAAGCGCGCTCCT	ADI-28735 LAD4206_P01_D06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 132	2111	VLWYSNLWV	ADI-28735 LAD4206_P01_D06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 132	2112	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28735 LAD4206_P01_D06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 133	2113	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28736 LAD4206_P01_E06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 133	2114	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28736 LAD4206_P01_E06	Heavy chain variable region ("HC") amino acid sequence
Ab 133	2115	FTFDYAMN		ADI-28736 LAD4206_P01_E06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 133	2116	TTCACCTTTGACACATATGCCATGAAT		ADI-28736 LAD4206_P01_E06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 133	2117	RIRSKYNNYATYYADSVKD		ADI-28736 LAD4206_P01_E06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 133	2118	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28736 LAD4206_P01_E06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 133	2119	VRHSNFGNSYVSWFAH		ADI-28736 LAD4206_P01_E06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 133	2120	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28736 LAD4206_P01_E06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 133	2121	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTTGGATCAAGCACT GGCGCAGTCACTACTAGTAAGTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28736 LAD4206_P01_E06	Light chain variable region ("LC") nucleic acid sequence
Ab 133	2122	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALIITGA QADDEADYCALWYSNHWVFGGGTKLTVL	ADI-28736 LAD4206_P01_E06	Light chain variable region ("LC") amino acid sequence
Ab 133	2123	GSSTGAVTTSNYAN	ADI-28736 LAD4206_P01_E06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 133	2124	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28736 LAD4206_P01_E06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 133	2125	GTDKRAP	ADI-28736 LAD4206_P01_E06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 133	2126	GGCACAGACAAGCGCGCTCCT	ADI-28736 LAD4206_P01_E06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 133	2127	ALWYSNHWV	ADI-28736 LAD4206_P01_E06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 133	2128	GCGTGTGTACAGTAACCAATTGGGTG	ADI-28736 LAD4206_P01_E06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 134	2129	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTCC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28737 LAD4206_P01_A07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 134	2130	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28737 LAD4206_P01_A07	Heavy chain variable region ("HC") amino acid sequence
Ab 134	2131	FTFDYAMN		ADI-28737 LAD4206_P01_A07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 134	2132	TTCACCTTTGACACATATGCCATGAAT		ADI-28737 LAD4206_P01_A07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 134	2133	RIRSKYNNYATYYADSVKD		ADI-28737 LAD4206_P01_A07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 134	2134	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28737 LAD4206_P01_A07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 134	2135	VRHSNFGNSYVSWFAH		ADI-28737 LAD4206_P01_A07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 134	2136	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28737 LAD4206_P01_A07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 134	2137	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28737 LAD4206_P01_A07	Light chain variable region ("LC") nucleic acid sequence
Ab 134	2138	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28737 LAD4206_P01_A07	Light chain variable region ("LC") amino acid sequence
Ab 134	2139	GSSTGAVTTSNYAN	ADI-28737 LAD4206_P01_A07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 134	2140	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28737 LAD4206_P01_A07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 134	2141	GTDKRAP	ADI-28737 LAD4206_P01_A07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 134	2142	GGCACAGACAAGCGCGCTCCT	ADI-28737 LAD4206_P01_A07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 134	2143	ALWYSNLWV	ADI-28737 LAD4206_P01_A07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 134	2144	GCGTGTGTACAGTAACCTTTGGGTG	ADI-28737 LAD4206_P01_A07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 135	2145	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28738 LAD4206_P01_F07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 135	2146	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTYSS	ADI-28738 LAD4206_P01_F07	Heavy chain variable region ("HC") amino acid sequence
Ab 135	2147	FTFDYAMN		ADI-28738 LAD4206_P01_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 135	2148	TTCACCTTTGACACATATGCCATGAAT		ADI-28738 LAD4206_P01_F07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 135	2149	RIRSKYNNYATYYADSVKD		ADI-28738 LAD4206_P01_F07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 135	2150	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28738 LAD4206_P01_F07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 135	2151	VRHSNFGNSYVSWFAH		ADI-28738 LAD4206_P01_F07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 135	2152	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28738 LAD4206_P01_F07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 135	2153	CAGACTGGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTTGGATCAAGCGC TGGCGAGTCACTACTAGTAACACGCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28738 LAD4206_P01_F07	Light chain variable region ("LC") nucleic acid sequence
Ab 135	2154	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYSNLWVFGGKLTVL	ADI-28738 LAD4206_P01_F07	Light chain variable region ("LC") amino acid sequence
Ab 135	2155	GSSAGAVTTSNYAN	ADI-28738 LAD4206_P01_F07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 135	2156	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28738 LAD4206_P01_F07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 135	2157	GTDKRAP	ADI-28738 LAD4206_P01_F07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 135	2158	GGCACAGACAAGCGCGCTCCT	ADI-28738 LAD4206_P01_F07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 135	2159	ALWYSNLWV	ADI-28738 LAD4206_P01_F07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 135	2160	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-28738 LAD4206_P01_F07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 136	2161	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCCTGCTTGGTTCATTGG	ADI-28739 LAD4206_P01_D08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 136	2162	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	ADI-28739 LAD4206_P01_D08	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSLRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS		
Ab 136	2163	FTFDYAMN	ADI-28739 LAD4206_P01_D08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 136	2164	TTCACCTTTGACACATATGCCATGAAT	ADI-28739 LAD4206_P01_D08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 136	2165	RIRSKYNNYATYYADSVKD	ADI-28739 LAD4206_P01_D08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 136	2166	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28739 LAD4206_P01_D08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 136	2167	VRHSNFGNSYVSWFAH	ADI-28739 LAD4206_P01_D08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 136	2168	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28739 LAD4206_P01_D08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 136	2169	CAGACTGGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28739 LAD4206_P01_D08	Light chain variable region ("LC") nucleic acid sequence
Ab 136	2170	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG VQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28739 LAD4206_P01_D08	Light chain variable region ("LC") amino acid sequence
Ab 136	2171	GSSTGAVTTSNYAN	ADI-28739 LAD4206_P01_D08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 136	2172	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28739 LAD4206_P01_D08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 136	2173	GTDKRAP	ADI-28739 LAD4206_P01_D08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 136	2174	GGCACAGACAAGCGCGCTCCT	ADI-28739 LAD4206_P01_D08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 136	2175	ALWYSNLWV	ADI-28739 LAD4206_P01_D08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 136	2176	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28739 LAD4206_P01_D08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 137	2177	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCTCCAGAGACGATTC CAAGAGCACCGCTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28740 LAD4206_P01_F08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 137	2178	GGCCAAGGAAACCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28740 LAD4206_P01_F08	Heavy chain variable region ("HC") amino acid sequence
Ab 137	2179	FTFDYAMN		ADI-28740 LAD4206_P01_F08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 137	2180	TTCACCTTTGACACATATGCCATGAAT		ADI-28740 LAD4206_P01_F08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 137	2181	RIRSKYNNYATYYADSVKD		ADI-28740 LAD4206_P01_F08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 137	2182	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28740 LAD4206_P01_F08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 137	2183	VRHSNFGNSYVSWFAH		ADI-28740 LAD4206_P01_F08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 137	2184	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28740 LAD4206_P01_F08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 137	2185	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCTCA	ADI-28740 LAD4206_P01_F08	Light chain variable region ("LC") nucleic acid sequence
Ab 137	2186	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28740 LAD4206_P01_F08	Light chain variable region ("LC") amino acid sequence
Ab 137	2187	GSSTGAVTTSNYAN	ADI-28740 LAD4206_P01_F08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 137	2188	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28740 LAD4206_P01_F08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 137	2189	GTDKRAP	ADI-28740 LAD4206_P01_F08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 137	2190	GGCACAGACAAGCGCGCTCCT	ADI-28740 LAD4206_P01_F08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 137	2191	ALWYNNLWV	ADI-28740 LAD4206_P01_F08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 137	2192	GCGTGTGTTACAATAACCTTTGGGGTG	ADI-28740 LAD4206_P01_F08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 138	2193	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGTCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28741 LAD4206_P01_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 138	2194	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28741 LAD4206_P01_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 138	2195	FTFDYAMN		ADI-28741 LAD4206_P01_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 138	2196	TTCACCTTTGACACATATGCCATGAAT		ADI-28741 LAD4206_P01_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 138	2197	RIRSKYNNYATYYADSVKD		ADI-28741 LAD4206_P01_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 138	2198	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28741 LAD4206_P01_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 138	2199	VRHSNFGNSYVSWFAH		ADI-28741 LAD4206_P01_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 138	2200	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28741 LAD4206_P01_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 138	2201	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCTCTGGCTCCCTGTTGGGACAAAGCTGCCCTCACCATCA CCGGGTCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28741 LAD4206_P01_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 138	2202	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCVLWYSNLWVFGGGTKLTVL	ADI-28741 LAD4206_P01_A09	Light chain variable region ("LC") amino acid sequence
Ab 138	2203	GSSTGAVTTSNYAN	ADI-28741 LAD4206_P01_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 138	2204	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28741 LAD4206_P01_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 138	2205	GTDKRAP	ADI-28741 LAD4206_P01_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 138	2206	GGCACAGACAAGCGCGCTCCT	ADI-28741 LAD4206_P01_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 138	2207	VLWYSNLWV	ADI-28741 LAD4206_P01_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 138	2208	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28741 LAD4206_P01_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 139	2209	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCTGGAAGGATCGGTTCCGCTATCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACCTCGGGAACAGTACGTATCCTGCTTGTCTCATTGG	ADI-28742 LAD4206_P01_E09	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 139	2210	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28742 LAD4206_P01_E09	Heavy chain variable region ("HC") amino acid sequence	
Ab 139	2211	FTFDYAMN	ADI-28742 LAD4206_P01_E09	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 139	2212	TTCACCTTTGACACATATGCCATGAAT	ADI-28742 LAD4206_P01_E09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 139	2213	RIRSKYNNYATYYADSVKD	ADI-28742 LAD4206_P01_E09	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 139	2214	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28742 LAD4206_P01_E09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 139	2215	VRHSNFGNSYVSWFAH	ADI-28742 LAD4206_P01_E09	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 139	2216	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28742 LAD4206_P01_E09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 139	2217	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28742 LAD4206_P01_E09	Light chain variable region ("LC") nucleic acid sequence
Ab 139	2218	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG VQADDEADYYCALWYSNHWVFGGGTKLTVL	ADI-28742 LAD4206_P01_E09	Light chain variable region ("LC") amino acid sequence
Ab 139	2219	GSSTGAVTTSNYAN	ADI-28742 LAD4206_P01_E09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 139	2220	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28742 LAD4206_P01_E09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 139	2221	GTDKRAP	ADI-28742 LAD4206_P01_E09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 139	2222	GGCACAGACAAGCGCGCTCCT	ADI-28742 LAD4206_P01_E09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 139	2223	ALWYSNHWV	ADI-28742 LAD4206_P01_E09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 139	2224	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-28742 LAD4206_P01_E09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 140	2225	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCCAGAGACGATTCC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCCTGTTGCTCATTGG	ADI-28743 LAD4206_P01_B10	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 140	2226	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28743 LAD4206_P01_B10	Heavy chain variable region ("HC") amino acid sequence	
Ab 140	2227	FTFDYAMN	ADI-28743 LAD4206_P01_B10	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 140	2228	TTCACCTTTGACACATATGCCATGAAT	ADI-28743 LAD4206_P01_B10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 140	2229	RIRSKYNNYATYYADSVKD	ADI-28743 LAD4206_P01_B10	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 140	2230	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28743 LAD4206_P01_B10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 140	2231	VRHSNFGNSYVSWFAH	ADI-28743 LAD4206_P01_B10	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 140	2232	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28743 LAD4206_P01_B10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 140	2233	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACACGCCAACTGGGTCCA GCAGACCCAGGCGAGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28743 LAD4206_P01_B10	Light chain variable region ("LC") nucleic acid sequence
Ab 140	2234	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYSNLWVFGGGLTLTVL	ADI-28743 LAD4206_P01_B10	Light chain variable region ("LC") amino acid sequence
Ab 140	2235	GSSAGAVTTSNYAN	ADI-28743 LAD4206_P01_B10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 140	2236	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28743 LAD4206_P01_B10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 140	2237	GTDKRAP	ADI-28743 LAD4206_P01_B10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 140	2238	GGCACAGACAAGCGCGCTCCT	ADI-28743 LAD4206_P01_B10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 140	2239	ALWYSNLWV	ADI-28743 LAD4206_P01_B10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 140	2240	GCGCTGTGGTACAGTAACCTTTGGGTG	ADI-28743 LAD4206_P01_B10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 141	2241	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTCGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCCTGCTTGGTTCATTGG	ADI-28744 LAD4206_P01_A11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 141	2242	GGCCAAGGAACCCTGGTCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28744 LAD4206_P01_A11	Heavy chain variable region ("HC") amino acid sequence
Ab 141	2243	FTFDYAMN		ADI-28744 LAD4206_P01_A11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 141	2244	TTCACCTTTGACACATATGCCATGAAT		ADI-28744 LAD4206_P01_A11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 141	2245	RIRSKYNNYATYYADSVKD		ADI-28744 LAD4206_P01_A11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 141	2246	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28744 LAD4206_P01_A11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 141	2247	VRHSNFGNSYVSWFAH		ADI-28744 LAD4206_P01_A11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 141	2248	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28744 LAD4206_P01_A11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 141	2249	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28744 LAD4206_P01_A11	Light chain variable region ("LC") nucleic acid sequence
Ab 141	2250	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28744 LAD4206_P01_A11	Light chain variable region ("LC") amino acid sequence
Ab 141	2251	GSSTGAVTTSNYAN	ADI-28744 LAD4206_P01_A11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 141	2252	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28744 LAD4206_P01_A11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 141	2253	GTDKRAP	ADI-28744 LAD4206_P01_A11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 141	2254	GGCACAGACAAGCGCGCTCCT	ADI-28744 LAD4206_P01_A11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 141	2255	ALWYNNLWV	ADI-28744 LAD4206_P01_A11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 141	2256	GCGCTGTGTACAATAACCTTTGGGGTG	ADI-28744 LAD4206_P01_A11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 142	2257	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28745 LAD4206_P01_A12	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 142	2258	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28745 LAD4206_P01_A12	Heavy chain variable region ("HC") amino acid sequence	
Ab 142	2259	FTFDYAMN	ADI-28745 LAD4206_P01_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 142	2260	TTCACCTTTGACACATATGCCATGAAT	ADI-28745 LAD4206_P01_A12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 142	2261	RIRSKYNNYATYYADSVKD	ADI-28745 LAD4206_P01_A12	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 142	2262	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28745 LAD4206_P01_A12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 142	2263	VRHSNFGNSYVSWFAH	ADI-28745 LAD4206_P01_A12	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 142	2264	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28745 LAD4206_P01_A12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 142	2265	CAGACTGTGGTGACCCAGGAGGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28745 LAD4206_P01_A12	Light chain variable region ("LC") nucleic acid sequence
Ab 142	2266	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYCVLWYSNLWVFGGGTKLTVL	ADI-28745 LAD4206_P01_A12	Light chain variable region ("LC") amino acid sequence
Ab 142	2267	GSSTGAVTTSNYAN	ADI-28745 LAD4206_P01_A12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 142	2268	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28745 LAD4206_P01_A12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 142	2269	GTDKRAP	ADI-28745 LAD4206_P01_A12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 142	2270	GGCACAGACAAGCGCGCTCCT	ADI-28745 LAD4206_P01_A12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 142	2271	VLWYSNLWV	ADI-28745 LAD4206_P01_A12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 142	2272	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28745 LAD4206_P01_A12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 143	2273	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCCTCTGTTGCTCATTGG	ADI-28746 LAD4206_P01_F12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 143	2274	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28746 LAD4206_P01_F12	Heavy chain variable region ("HC") amino acid sequence
Ab 143	2275	FTFDYAMN		ADI-28746 LAD4206_P01_F12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 143	2276	TTCACCTTTGACACATATGCCATGAAT		ADI-28746 LAD4206_P01_F12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 143	2277	RIRSKYNNYATYYADSVKD		ADI-28746 LAD4206_P01_F12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 143	2278	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28746 LAD4206_P01_F12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 143	2279	VRHSNFGNSYVSWFAH		ADI-28746 LAD4206_P01_F12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 143	2280	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28746 LAD4206_P01_F12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 143	2281	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGTTGGATCAAGCACT GGCGCAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-28746 LAD4206_P01_F12	Light chain variable region ("LC") nucleic acid sequence
Ab 143	2282	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYSNHWVFGGKLTIVL	ADI-28746 LAD4206_P01_F12	Light chain variable region ("LC") amino acid sequence
Ab 143	2283	GSSTGAVTTSNYAN	ADI-28746 LAD4206_P01_F12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 143	2284	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28746 LAD4206_P01_F12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 143	2285	GTDKRAP	ADI-28746 LAD4206_P01_F12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 143	2286	GGCACAGACAAGCGCGCTCCT	ADI-28746 LAD4206_P01_F12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 143	2287	ALWYSNHWV	ADI-28746 LAD4206_P01_F12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 143	2288	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-28746 LAD4206_P01_F12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 144	2289	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28747 LAD4204_P02_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 144	2290	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS	ADI-28747 LAD4204_P02_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 144	2291	FTFDYAMN		ADI-28747 LAD4204_P02_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 144	2292	TTCACCTTTGACACATATGCCATGAAT		ADI-28747 LAD4204_P02_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 144	2293	RIRSKYNNYATYYADSVKD		ADI-28747 LAD4204_P02_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 144	2294	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28747 LAD4204_P02_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 144	2295	VRHGNFNGYVSWFAH		ADI-28747 LAD4204_P02_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 144	2296	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-28747 LAD4204_P02_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 144	2297	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGCTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCCTA	ADI-28747 LAD4204_P02_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 144	2298	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALITGV QADDEADYYCALWYSNLWVFGGKLTVL	ADI-28747 LAD4204_P02_A01	Light chain variable region ("LC") amino acid sequence
Ab 144	2299	GSSTGAVTTSNYAN	ADI-28747 LAD4204_P02_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 144	2300	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28747 LAD4204_P02_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 144	2301	GTDKRAP	ADI-28747 LAD4204_P02_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 144	2302	GGCAGACAAGCGCGCTCCT	ADI-28747 LAD4204_P02_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 144	2303	ALWYSNLWV	ADI-28747 LAD4204_P02_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 144	2304	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28747 LAD4204_P02_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 145	2305	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28748 LAD4204_P02_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 145	2306	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS	ADI-28748 LAD4204_P02_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 145	2307	FTFDYAMN		ADI-28748 LAD4204_P02_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 145	2308	TTCACCTTTGACACATATGCCATGAAT		ADI-28748 LAD4204_P02_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 145	2309	RIRSKYNNYATYYADSVKD		ADI-28748 LAD4204_P02_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 145	2310	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28748 LAD4204_P02_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 145	2311	VRHGNFNGYVSWFAH		ADI-28748 LAD4204_P02_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 145	2312	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-28748 LAD4204_P02_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 145	2313	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCAGTCTGATGATCAAGCACT GGCGCAGTCACTACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28748 LAD4204_P02_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 145	2314	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALIITGA QADDEADYCALWYNNLWVFGGKLTIVL	ADI-28748 LAD4204_P02_A02	Light chain variable region ("LC") amino acid sequence
Ab 145	2315	GSSTGAVTTSNYAN	ADI-28748 LAD4204_P02_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 145	2316	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28748 LAD4204_P02_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 145	2317	GTDKRAP	ADI-28748 LAD4204_P02_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 145	2318	GGCACAGACAAGCGCGCTCCT	ADI-28748 LAD4204_P02_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 145	2319	ALWYNNLWV	ADI-28748 LAD4204_P02_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 145	2320	GCGCTGTGTACAATAACCTTTGGGTG	ADI-28748 LAD4204_P02_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 146	2321	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28749 LAD4204_P02_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 146	2322	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28749 LAD4204_P02_E05	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGFNGYVSWFAHWGQ GTLTVSS		
Ab 146	2323	FTFDYAMN	ADI-28749 LAD4204_P02_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 146	2324	TTCACCTTTGACACATATGCCATGAAT	ADI-28749 LAD4204_P02_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 146	2325	RIRSKYNNYATYYADSVKD	ADI-28749 LAD4204_P02_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 146	2326	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28749 LAD4204_P02_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 146	2327	VRHGFNGYVSWFAH	ADI-28749 LAD4204_P02_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 146	2328	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28749 LAD4204_P02_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 146	2329	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28749 LAD4204_P02_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 146	2330	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQADDEADYCVLWYNNLWVFGGGTKLTVL	ADI-28749 LAD4204_P02_E05	Light chain variable region ("LC") amino acid sequence
Ab 146	2331	GSSTGAVTTSNYAN	ADI-28749 LAD4204_P02_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 146	2332	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28749 LAD4204_P02_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 146	2333	GTDKRAP	ADI-28749 LAD4204_P02_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 146	2334	GGCACAGACAAGCGCGCTCCT	ADI-28749 LAD4204_P02_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 146	2335	VLWYNNLWV	ADI-28749 LAD4204_P02_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 146	2336	GTGCTGTGTACAATAACCTTTGGGTG	ADI-28749 LAD4204_P02_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 147	2337	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28750 LAD4205_P03_B07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 147	2338	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28750 LAD4205_P03_B07	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTYSS		
Ab 147	2339	FTFDYAMN	ADI-28750 LAD4205_P03_B07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 147	2340	TTCACCTTTGACACATATGCCATGAAT	ADI-28750 LAD4205_P03_B07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 147	2341	RIRSKYNNYATYYADSVKG	ADI-28750 LAD4205_P03_B07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 147	2342	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28750 LAD4205_P03_B07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 147	2343	VRHGNFGNSVSWFAH	ADI-28750 LAD4205_P03_B07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 147	2344	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28750 LAD4205_P03_B07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 147	2345	AGACATGTGGTGACCCAGGAGCCATCGCTCTCAGTGTC CCCTGGAGGGACAGTCACACTCACCTTGTGGATCAAGCA CTGGCCAGTCACTACTAGTAACACTACGCCAACTGGGTCC AGCAGACCCAGGCCAGGCTCCGCCGGACTCATCGGC GGCCAGACAAGCGGCTCCCTGGGGTCCCTGATCGCTT CTCTGGCTCCCTGCTGGGGACAAAGCTGCCCTCATCAT CACGGGGTCCAGGCAGATGATGAAGCTGATTACT GTGCGCTGTGTACAGTAACCTTTGGGTTCGGCGGA GGACCAAGCTGACCGTCCTA	ADI-28750 LAD4205_P03_B07	Light chain variable region ("LC") nucleic acid sequence
Ab 147	2346	RHVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGPDKRAPGVPDFRFSLLGDKAALITGV QADDEADYCALWYSNLWVFGGGTKLTVL	ADI-28750 LAD4205_P03_B07	Light chain variable region ("LC") amino acid sequence
Ab 147	2347	GSSTGAVTTSNYAN	ADI-28750 LAD4205_P03_B07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 147	2348	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28750 LAD4205_P03_B07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 147	2349	GPKRAP	ADI-28750 LAD4205_P03_B07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 147	2350	GGCCAGACAAGCGCGCTCCT	ADI-28750 LAD4205_P03_B07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 147	2351	ALWYSNLWV	ADI-28750 LAD4205_P03_B07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 147	2352	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28750 LAD4205_P03_B07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 148	2353	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28751 LAD4206_P02_H05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 148	2354	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	ADI-28751 LAD4206_P02_H05	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS		
Ab 148	2355	FTFDYAMN	ADI-28751 LAD4206_P02_H05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 148	2356	TTCACCTTTGACACATATGCCATGAAT	ADI-28751 LAD4206_P02_H05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 148	2357	RIRSKYNNYATYYADSVKD	ADI-28751 LAD4206_P02_H05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 148	2358	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28751 LAD4206_P02_H05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 148	2359	VRHSNFGNSYVSWFAH	ADI-28751 LAD4206_P02_H05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 148	2360	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28751 LAD4206_P02_H05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 148	2361	AGAACTGTGGTGACCCAGGAGCCATCGCTCTCAGTGTC CCCTGGAGGGACAGTACACTCAGTCTGGATCAAGCA CTGGCCAGTCACTACTAGTAAGTACGCCAACTGGGTCC AGCAGACCCAGGCCAGGCTCCGCCGGACTCATCGGC GGCACAGACAAAGCGGCTCCTGGGGTCCCTGATCGCTT CTCTGGCTCCCTGTTGGGACAAAGCTGCCCTCACCAT CACGGGGCCAGGCAGATGATGAAGCTGATTATTACT GTGTGCTGTGTACAATAACCTTTGGGTTCGGCGGA GGACCAAGCTGACCGTCCTA	ADI-28751 LAD4206_P02_H05	Light chain variable region ("LC") nucleic acid sequence
Ab 148	2362	RTVVTQEPSLSVSPGGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCVLWYNNLWVFGGGTKLTVL	ADI-28751 LAD4206_P02_H05	Light chain variable region ("LC") amino acid sequence
Ab 148	2363	GSSTGAVTTSNYAN	ADI-28751 LAD4206_P02_H05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 148	2364	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28751 LAD4206_P02_H05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 148	2365	GTDKRAP	ADI-28751 LAD4206_P02_H05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 148	2366	GGCACAGACAAAGCGCGCTCCT	ADI-28751 LAD4206_P02_H05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 148	2367	VLWYNNLWV	ADI-28751 LAD4206_P02_H05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 148	2368	GTGCTGTGTACAATAACCTTTGGGGTG	ADI-28751 LAD4206_P02_H05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 149	2369	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28752 LAD4204_P02_G02	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 149	2370	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS	ADI-28752 LAD4204_P02_G02	Heavy chain variable region ("HC") amino acid sequence	
Ab 149	2371	FTFDYAMN	ADI-28752 LAD4204_P02_G02	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 149	2372	TTCACCTTTGACACATATGCCATGAAT	ADI-28752 LAD4204_P02_G02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 149	2373	RIRSKYNNYATYYADSVKG	ADI-28752 LAD4204_P02_G02	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 149	2374	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28752 LAD4204_P02_G02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 149	2375	VRHGNFGNSVSWFAH	ADI-28752 LAD4204_P02_G02	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 149	2376	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28752 LAD4204_P02_G02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 149	2377	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28752 LAD4204_P02_G02	Light chain variable region ("LC") nucleic acid sequence
Ab 149	2378	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG VQADDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28752 LAD4204_P02_G02	Light chain variable region ("LC") amino acid sequence
Ab 149	2379	GSSAGAVTTSNYAN	ADI-28752 LAD4204_P02_G02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 149	2380	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28752 LAD4204_P02_G02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 149	2381	GTDKRAP	ADI-28752 LAD4204_P02_G02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 149	2382	GGCACAGACAAGCGCGCTCCT	ADI-28752 LAD4204_P02_G02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 149	2383	ALWYSNLWV	ADI-28752 LAD4204_P02_G02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 149	2384	GCGTGTGTACAGTAAACCTTTGGGTG	ADI-28752 LAD4204_P02_G02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 150	2385	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACGGTTACGTATCTCTGGTTGCTCATTGG	ADI-28753 LAD4204_P02_H03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 150	2386	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28753 LAD4204_P02_H03	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS		
Ab 150	2387	FTFDYAMN	ADI-28753 LAD4204_P02_H03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 150	2388	TTCACCTTTGACACATATGCCATGAAT	ADI-28753 LAD4204_P02_H03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 150	2389	RIRSKYNNYATYYADSVKD	ADI-28753 LAD4204_P02_H03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 150	2390	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28753 LAD4204_P02_H03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 150	2391	VRHGNFNGYVSWFAH	ADI-28753 LAD4204_P02_H03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 150	2392	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28753 LAD4204_P02_H03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 150	2393	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCCGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCAGGAGGATGAAGCTGATTAATTAATGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28753 LAD4204_P02_H03	Light chain variable region ("LC") nucleic acid sequence
Ab 150	2394	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28753 LAD4204_P02_H03	Light chain variable region ("LC") amino acid sequence
Ab 150	2395	GSSTGAVTTSNYAN	ADI-28753 LAD4204_P02_H03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 150	2396	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28753 LAD4204_P02_H03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 150	2397	GTDKRAP	ADI-28753 LAD4204_P02_H03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 150	2398	GGCACAGACAAGCGCGCTCCT	ADI-28753 LAD4204_P02_H03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 150	2399	ALWYSNLWV	ADI-28753 LAD4204_P02_H03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 150	2400	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-28753 LAD4204_P02_H03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 151	2401	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACCTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28754 LAD4204_P02_B04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 151	2402	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLVTVSS	ADI-28754 LAD4204_P02_B04	Heavy chain variable region ("HC") amino acid sequence
Ab 151	2403	FTFDYAMN		ADI-28754 LAD4204_P02_B04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 151	2404	TTCACCTTTGACACATATGCCATGAAT		ADI-28754 LAD4204_P02_B04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 151	2405	RIRSKYNNYATYYADSVKD		ADI-28754 LAD4204_P02_B04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 151	2406	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28754 LAD4204_P02_B04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 151	2407	VRHGNFNGYVSWFAH		ADI-28754 LAD4204_P02_B04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 151	2408	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-28754 LAD4204_P02_B04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 151	2409	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACTCACTCTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28754 LAD4204_P02_B04	Light chain variable region ("LC") nucleic acid sequence
Ab 151	2410	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLGDKAALTTG AQAEDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28754 LAD4204_P02_B04	Light chain variable region ("LC") amino acid sequence
Ab 151	2411	GSSTGAVTTSNYAN	ADI-28754 LAD4204_P02_B04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 151	2412	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28754 LAD4204_P02_B04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 151	2413	GTDKRAP	ADI-28754 LAD4204_P02_B04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 151	2414	GGCACAGACAAGCGGCTCCT	ADI-28754 LAD4204_P02_B04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 151	2415	ALWYNNLWV	ADI-28754 LAD4204_P02_B04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 151	2416	GCGTGTGTACAATAACCTTTGGGGTG	ADI-28754 LAD4204_P02_B04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 152	2417	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCGGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACCTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28755 LAD4204_P02_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 152	2418	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28755 LAD4204_P02_A06	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS		
Ab 152	2419	FTFDYAMN	ADI-28755 LAD4204_P02_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 152	2420	TTCACCTTTGACACATATGCCATGAAT	ADI-28755 LAD4204_P02_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 152	2421	RIRSKYNNYATYYADSVKD	ADI-28755 LAD4204_P02_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 152	2422	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28755 LAD4204_P02_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 152	2423	VRHGNFNGYVSWFAH	ADI-28755 LAD4204_P02_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 152	2424	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT	ADI-28755 LAD4204_P02_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 152	2425	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTACTAGTAACGCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCATGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28755 LAD4204_P02_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 152	2426	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYCVLWYSNHWVFGGKLTIVL	ADI-28755 LAD4204_P02_A06	Light chain variable region ("LC") amino acid sequence
Ab 152	2427	GSSTGAVTTSNYAN	ADI-28755 LAD4204_P02_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 152	2428	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28755 LAD4204_P02_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 152	2429	GTDKRAP	ADI-28755 LAD4204_P02_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 152	2430	GGCACAGACAAGCGCGCTCCT	ADI-28755 LAD4204_P02_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 152	2431	VLWYSNHWV	ADI-28755 LAD4204_P02_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 152	2432	GTGCTGTGTACAGTAACCATGGGTG	ADI-28755 LAD4204_P02_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 153	2433	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTTCCGC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCTGGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACCTCGGGAACGGTTACGTATCCTGTTGCTCATTGG	ADI-28756 LAD4204_P02_F06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 153	2434	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMINSRAEDTAVYYCVRHGNFNGYVSWFAHWGQ GTLTVSS	ADI-28756 LAD4204_P02_F06	Heavy chain variable region ("HC") amino acid sequence
Ab 153	2435	FTFDYAMN		ADI-28756 LAD4204_P02_F06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 153	2436	TTCACCTTTGACACATATGCCATGAAT		ADI-28756 LAD4204_P02_F06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 153	2437	RIRSKYNNYATYYADSVKD		ADI-28756 LAD4204_P02_F06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 153	2438	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28756 LAD4204_P02_F06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 153	2439	VRHGNFNGYVSWFAH		ADI-28756 LAD4204_P02_F06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 153	2440	GTCAGGCACGGTAACTTCGGGAACGGTTACGTATCCTG GTTTGCTCAT		ADI-28756 LAD4204_P02_F06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 153	2441	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28756 LAD4204_P02_F06	Light chain variable region ("LC") nucleic acid sequence
Ab 153	2442	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQADDEADYYCALWYSNHWVFGGKLTIVL	ADI-28756 LAD4204_P02_F06	Light chain variable region ("LC") amino acid sequence
Ab 153	2443	GSSTGAVTTSNYAN	ADI-28756 LAD4204_P02_F06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 153	2444	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28756 LAD4204_P02_F06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 153	2445	GTDKRAP	ADI-28756 LAD4204_P02_F06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 153	2446	GGCACAGACAAGCGCGCTCCT	ADI-28756 LAD4204_P02_F06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 153	2447	ALWYSNHWV	ADI-28756 LAD4204_P02_F06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 153	2448	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-28756 LAD4204_P02_F06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 154	2449	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATT CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCCGACGACGGT AACTTCGGGAACAGTACGTATCCTGTTGCTCATTGG	ADI-28757 LAD4205_P03_C07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 154	2450	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYYCVRHGFNGFSYVSWFAHWGQG TLVTYSS	ADI-28757 LAD4205_P03_C07	Heavy chain variable region ("HC") amino acid sequence
Ab 154	2451	FTFDYAMN		ADI-28757 LAD4205_P03_C07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 154	2452	TTCACCTTTGACACATATGCCATGAAT		ADI-28757 LAD4205_P03_C07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 154	2453	RIRSKYNNYATYYADSVKG		ADI-28757 LAD4205_P03_C07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 154	2454	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28757 LAD4205_P03_C07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 154	2455	VRHGFNGFSWVSWFAH		ADI-28757 LAD4205_P03_C07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 154	2456	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28757 LAD4205_P03_C07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 154	2457	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCGG CACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAATAACCATGGGTGTTGCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28757 LAD4205_P03_C07	Light chain variable region ("LC") nucleic acid sequence
Ab 154	2458	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYYCALWYNNHWVFGGGTKLTVL	ADI-28757 LAD4205_P03_C07	Light chain variable region ("LC") amino acid sequence
Ab 154	2459	GSSTGAVTTSNYAN	ADI-28757 LAD4205_P03_C07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 154	2460	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28757 LAD4205_P03_C07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 154	2461	GTDKRAP	ADI-28757 LAD4205_P03_C07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 154	2462	GGCACAGACAAGCGCGCTCCT	ADI-28757 LAD4205_P03_C07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 154	2463	ALWYNNHWV	ADI-28757 LAD4205_P03_C07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 154	2464	GCGCTGTGTACAATAACCATGGGTG	ADI-28757 LAD4205_P03_C07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 155	2465	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCTGGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACCTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28758 LAD4205_P03_F07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 155	2466	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTYSS	ADI-28758 LAD4205_P03_F07	Heavy chain variable region ("HC") amino acid sequence
Ab 155	2467	FTFDYAMN		ADI-28758 LAD4205_P03_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 155	2468	TTCACCTTTGACACATATGCCATGAAT		ADI-28758 LAD4205_P03_F07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 155	2469	RIRSKYNNYATYYADSVKG		ADI-28758 LAD4205_P03_F07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 155	2470	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28758 LAD4205_P03_F07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 155	2471	VRHGNFGNSWVFAH		ADI-28758 LAD4205_P03_F07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 155	2472	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28758 LAD4205_P03_F07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 155	2473	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28758 LAD4205_P03_F07	Light chain variable region ("LC") nucleic acid sequence
Ab 155	2474	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALIITGA QADDEADYCALWYSNLWVFGGKLTVL	ADI-28758 LAD4205_P03_F07	Light chain variable region ("LC") amino acid sequence
Ab 155	2475	GSSAGAVTTSNYAN	ADI-28758 LAD4205_P03_F07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 155	2476	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28758 LAD4205_P03_F07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 155	2477	GTDKRAP	ADI-28758 LAD4205_P03_F07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 155	2478	GGCACAGACAAGCGCGCTCCT	ADI-28758 LAD4205_P03_F07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 155	2479	ALWYSNLWV	ADI-28758 LAD4205_P03_F07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 155	2480	GCGCTGTGTACAGTAAACCTTTGGGTG	ADI-28758 LAD4205_P03_F07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 156	2481	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCCTGGTTGCTCATTGG	ADI-28759 LAD4205_P03_B08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 156	2482	GGCCAAGGAACCCTGGTGACCCTGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS	ADI-28759 LAD4205_P03_B08	Heavy chain variable region ("HC") amino acid sequence
Ab 156	2483	FTFDYAMN		ADI-28759 LAD4205_P03_B08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 156	2484	TTCACCTTTGACACATATGCCATGAAT		ADI-28759 LAD4205_P03_B08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 156	2485	RIRSKYNNYATYYADSVKG		ADI-28759 LAD4205_P03_B08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 156	2486	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28759 LAD4205_P03_B08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 156	2487	VRHGNFGNSVSWFAH		ADI-28759 LAD4205_P03_B08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 156	2488	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28759 LAD4205_P03_B08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 156	2489	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTA TACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28759 LAD4205_P03_B08	Light chain variable region ("LC") nucleic acid sequence
Ab 156	2490	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRFSGLGDKAALIITGA QADDEADYCALWYNNLWVFGGGTKLTVL	ADI-28759 LAD4205_P03_B08	Light chain variable region ("LC") amino acid sequence
Ab 156	2491	GSSTGAVTTSNYAN	ADI-28759 LAD4205_P03_B08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 156	2492	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28759 LAD4205_P03_B08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 156	2493	GTDKRAP	ADI-28759 LAD4205_P03_B08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 156	2494	GGCACAGACAAGCGCGCTCCT	ADI-28759 LAD4205_P03_B08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 156	2495	ALWYNNLWV	ADI-28759 LAD4205_P03_B08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 156	2496	GCGCTGTGTACAATAACCTTTGGGGTG	ADI-28759 LAD4205_P03_B08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 157	2497	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28760 LAD4205_P03_F08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 157	2498	GGCCAAGGAACCCTGGTGACCCTGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS	ADI-28760 LAD4205_P03_F08	Heavy chain variable region ("HC") amino acid sequence
Ab 157	2499	FTFDYAMN		ADI-28760 LAD4205_P03_F08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 157	2500	TTCACCTTTGACACATATGCCATGAAT		ADI-28760 LAD4205_P03_F08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 157	2501	RIRSKYNNYATYYADSVKG		ADI-28760 LAD4205_P03_F08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 157	2502	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28760 LAD4205_P03_F08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 157	2503	VRHGNFGNSVSWFAH		ADI-28760 LAD4205_P03_F08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 157	2504	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28760 LAD4205_P03_F08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 157	2505	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACTTTGGGTTCGGGGGAGG GACCAAGCTGACCGTCCTA	ADI-28760 LAD4205_P03_F08	Light chain variable region ("LC") nucleic acid sequence
Ab 157	2506	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28760 LAD4205_P03_F08	Light chain variable region ("LC") amino acid sequence
Ab 157	2507	GSSAGAVTTSNYAN	ADI-28760 LAD4205_P03_F08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 157	2508	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28760 LAD4205_P03_F08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 157	2509	GTDKRAP	ADI-28760 LAD4205_P03_F08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 157	2510	GGCACAGACAAGCGCGCTCCT	ADI-28760 LAD4205_P03_F08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 157	2511	ALWYSNLWV	ADI-28760 LAD4205_P03_F08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 157	2512	GCGCTGGGTACAGTAAACCTTTGGGTG	ADI-28760 LAD4205_P03_F08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 158	2513	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28761 LAD4205_P03_A09	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTGACCCGCTCCTCA			
Ab 158	2514	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYYCVRHGFNGFSYVSWFAHWGQG TLVTYSS	ADI-28761 LAD4205_P03_A09	Heavy chain variable region ("HC") amino acid sequence	
Ab 158	2515	FTFDYAMN	ADI-28761 LAD4205_P03_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 158	2516	TTCACCTTTGACACATATGCCATGAAT	ADI-28761 LAD4205_P03_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 158	2517	RIRSKYNNYATYYADSVKGG	ADI-28761 LAD4205_P03_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 158	2518	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28761 LAD4205_P03_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 158	2519	VRHGFNGFSWVSWFAH	ADI-28761 LAD4205_P03_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 158	2520	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28761 LAD4205_P03_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 158	2521	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACACGCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28761 LAD4205_P03_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 158	2522	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGLLGDKAALTTG AQADDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28761 LAD4205_P03_A09	Light chain variable region ("LC") amino acid sequence
Ab 158	2523	GSSAGAVTTSNYAN	ADI-28761 LAD4205_P03_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 158	2524	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28761 LAD4205_P03_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 158	2525	GTDKRAP	ADI-28761 LAD4205_P03_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 158	2526	GGCACAGACAAGCGCGCTCCT	ADI-28761 LAD4205_P03_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 158	2527	ALWYNNLWV	ADI-28761 LAD4205_P03_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 158	2528	GCGTGTGTACAATAACCTTTGGGGTG	ADI-28761 LAD4205_P03_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 159	2529	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28762 LAD4205_P03_E09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 159	2530	GGCCAAGGAAACCCTGGTGACCCGCTCCTCA	ADI-28762 LAD4205_P03_E09	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 159	2531	FTFDYAMN	ADI-28762 LAD4205_P03_E09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 159	2532	TTCACCTTTGACACATATGCCATGAAT	ADI-28762 LAD4205_P03_E09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 159	2533	RIRSKYNNYATYYADSVKG	ADI-28762 LAD4205_P03_E09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 159	2534	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28762 LAD4205_P03_E09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 159	2535	VRHGNFGNSWVSWFAH	ADI-28762 LAD4205_P03_E09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 159	2536	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28762 LAD4205_P03_E09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 159	2537	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28762 LAD4205_P03_E09	Light chain variable region ("LC") nucleic acid sequence
Ab 159	2538	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28762 LAD4205_P03_E09	Light chain variable region ("LC") amino acid sequence
Ab 159	2539	GSSTGAVTTSNYAN	ADI-28762 LAD4205_P03_E09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 159	2540	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28762 LAD4205_P03_E09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 159	2541	GTDKRAP	ADI-28762 LAD4205_P03_E09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 159	2542	GGCACAGACAAGCGCGCTCCT	ADI-28762 LAD4205_P03_E09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 159	2543	ALWYSNLWV	ADI-28762 LAD4205_P03_E09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 159	2544	GCGCTGGGTACAGTAACCTTTGGGTG	ADI-28762 LAD4205_P03_E09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 160	2545	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTACCATCTCCAGAGACGATTCC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28763 LAD4205_P03_E10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 160	2546	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28763 LAD4205_P03_E10	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 160	2547	FTFDYAMN	ADI-28763 LAD4205_P03_E10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 160	2548	TTCACCTTTGACACATATGCCATGAAT	ADI-28763 LAD4205_P03_E10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 160	2549	RIRSKYNNYATYYADSVKG	ADI-28763 LAD4205_P03_E10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 160	2550	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28763 LAD4205_P03_E10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 160	2551	VRHGNFGNSVSWFAH	ADI-28763 LAD4205_P03_E10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 160	2552	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28763 LAD4205_P03_E10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 160	2553	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28763 LAD4205_P03_E10	Light chain variable region ("LC") nucleic acid sequence
Ab 160	2554	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCVLWYSNLWVFGGGTKLTVL	ADI-28763 LAD4205_P03_E10	Light chain variable region ("LC") amino acid sequence
Ab 160	2555	GSSTGAVTTSNYAN	ADI-28763 LAD4205_P03_E10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 160	2556	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28763 LAD4205_P03_E10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 160	2557	GTDKRAP	ADI-28763 LAD4205_P03_E10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 160	2558	GGCACAGACAAGCGCGCTCCT	ADI-28763 LAD4205_P03_E10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 160	2559	VLWYSNLWV	ADI-28763 LAD4205_P03_E10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 160	2560	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28763 LAD4205_P03_E10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 161	2561	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGTTCCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28764 LAD4205_P03_A11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 161	2562	GGCCAAGGAAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYYCVRHGNFGNSYVSWFAHWGQG TLVTYSS	ADI-28764 LAD4205_P03_A11	Heavy chain variable region ("HC") amino acid sequence
Ab 161	2563	FTFDYAMN		ADI-28764 LAD4205_P03_A11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 161	2564	TTCACCTTTGACACATATGCCATGAAT		ADI-28764 LAD4205_P03_A11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 161	2565	RIRSKYNNYATYYADSVKQ		ADI-28764 LAD4205_P03_A11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 161	2566	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28764 LAD4205_P03_A11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 161	2567	VRHGNFGNSVSWFAH		ADI-28764 LAD4205_P03_A11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 161	2568	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28764 LAD4205_P03_A11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 161	2569	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGCTGTGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-28764 LAD4205_P03_A11	Light chain variable region ("LC") nucleic acid sequence
Ab 161	2570	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDPFRFSGLLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-28764 LAD4205_P03_A11	Light chain variable region ("LC") amino acid sequence
Ab 161	2571	GSSTGAVTTSNYAN	ADI-28764 LAD4205_P03_A11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 161	2572	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28764 LAD4205_P03_A11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 161	2573	GTDKRAP	ADI-28764 LAD4205_P03_A11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 161	2574	GGCAGACAAGCGCGCTCCT	ADI-28764 LAD4205_P03_A11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 161	2575	ALWYSNHWV	ADI-28764 LAD4205_P03_A11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 161	2576	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-28764 LAD4205_P03_A11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 162	2577	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28765 LAD4205_P03_F11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 162	2578	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28765 LAD4205_P03_F11	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS		
Ab 162	2579	FTFDYAMN	ADI-28765 LAD4205_P03_F11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 162	2580	TTCACCTTTGACACATATGCCATGAAT	ADI-28765 LAD4205_P03_F11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 162	2581	RIRSKYNNYATYYADSVKG	ADI-28765 LAD4205_P03_F11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 162	2582	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT	ADI-28765 LAD4205_P03_F11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 162	2583	VRHGNFGNSWVSWFAH	ADI-28765 LAD4205_P03_F11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 162	2584	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28765 LAD4205_P03_F11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 162	2585	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCCGCGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAATAACCTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28765 LAD4205_P03_F11	Light chain variable region ("LC") nucleic acid sequence
Ab 162	2586	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYCVLWYNNLWVFGGGTKLTVL	ADI-28765 LAD4205_P03_F11	Light chain variable region ("LC") amino acid sequence
Ab 162	2587	GSSTGAVTTSNYAN	ADI-28765 LAD4205_P03_F11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 162	2588	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28765 LAD4205_P03_F11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 162	2589	GTDKRAP	ADI-28765 LAD4205_P03_F11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 162	2590	GGCACAGACAAGCGCGCTCCT	ADI-28765 LAD4205_P03_F11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 162	2591	VLWYNNLWV	ADI-28765 LAD4205_P03_F11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 162	2592	GTGCTGTGTACAATAACCTTTGGGTG	ADI-28765 LAD4205_P03_F11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 163	2593	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGTACATACTACGCAGA CTCCTGGAAGGGTCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACCTCGGGAACAGTACGTATCCTGTTGCTCATTGG	ADI-28766 LAD4205_P03_A12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 163	2594	GGCCAAGGAACCCTGGTGACCCTGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS	ADI-28766 LAD4205_P03_A12	Heavy chain variable region ("HC") amino acid sequence
Ab 163	2595	FTFDYAMN		ADI-28766 LAD4205_P03_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 163	2596	TTCACCTTTGACACATATGCCATGAAT		ADI-28766 LAD4205_P03_A12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 163	2597	RIRSKYNNYATYYADSVKG		ADI-28766 LAD4205_P03_A12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 163	2598	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28766 LAD4205_P03_A12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 163	2599	VRHGNFGNSVSWFAH		ADI-28766 LAD4205_P03_A12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 163	2600	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28766 LAD4205_P03_A12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 163	2601	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACTGGCCAGTCACTAGTAACAGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCCGGACTCATCGGCGG CACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CCGGGCCCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCATGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28766 LAD4205_P03_A12	Light chain variable region ("LC") nucleic acid sequence
Ab 163	2602	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQADDEADYCVLWYNSNHWVFGGKLTVL	ADI-28766 LAD4205_P03_A12	Light chain variable region ("LC") amino acid sequence
Ab 163	2603	GSSTGAVTTSNYAN	ADI-28766 LAD4205_P03_A12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 163	2604	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28766 LAD4205_P03_A12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 163	2605	GTDKRAP	ADI-28766 LAD4205_P03_A12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 163	2606	GGCACAGACAAGCGCGCTCCT	ADI-28766 LAD4205_P03_A12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 163	2607	VLWYNSNHWV	ADI-28766 LAD4205_P03_A12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 163	2608	GTGCTGTGTACAGTAACCATGGGTG	ADI-28766 LAD4205_P03_A12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 164	2609	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCTGGAAGGGTCCGGTTCACCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAGTGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACGGT AACCTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28767 LAD4205_P03_E12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 164	2610	GGCCAAGGAACCCTGGTGACCCTGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKGRFTISRDDSKST LYLQVNSLRAEDTAVYCVRHGTFGNSYVSWFAHWGQG TLVTVSS	ADI-28767 LAD4205_P03_E12	Heavy chain variable region ("HC") amino acid sequence
Ab 164	2611	FTFDYAMN		ADI-28767 LAD4205_P03_E12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 164	2612	TTCACCTTTGACACATATGCCATGAAT		ADI-28767 LAD4205_P03_E12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 164	2613	RIRSKYNNYATYYADSVKG		ADI-28767 LAD4205_P03_E12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 164	2614	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGGT		ADI-28767 LAD4205_P03_E12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 164	2615	VRHGNFGNSWVSWFAH		ADI-28767 LAD4205_P03_E12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 164	2616	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28767 LAD4205_P03_E12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 164	2617	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGCTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28767 LAD4205_P03_E12	Light chain variable region ("LC") nucleic acid sequence
Ab 164	2618	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQADDEADYYCALWYSNHWVFGGKLTIVL	ADI-28767 LAD4205_P03_E12	Light chain variable region ("LC") amino acid sequence
Ab 164	2619	GSSTGAVTTSNYAN	ADI-28767 LAD4205_P03_E12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 164	2620	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28767 LAD4205_P03_E12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 164	2621	GTDKRAP	ADI-28767 LAD4205_P03_E12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 164	2622	GGCACAGACAAGCGCGCTCCT	ADI-28767 LAD4205_P03_E12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 164	2623	ALWYSNHWV	ADI-28767 LAD4205_P03_E12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 164	2624	GCGCTGGTACAGTAACCAATTGGGTG	ADI-28767 LAD4205_P03_E12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 165	2625	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTCC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28768 LAD4206_P02_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 165	2626	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28768 LAD4206_P02_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 165	2627	FTFDYAMN		ADI-28768 LAD4206_P02_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 165	2628	TTCACCTTTGACACATATGCCATGAAT		ADI-28768 LAD4206_P02_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 165	2629	RIRSKYNNYATYYADSVKD		ADI-28768 LAD4206_P02_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 165	2630	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28768 LAD4206_P02_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 165	2631	VRHSNFGNSYVSWFAH		ADI-28768 LAD4206_P02_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 165	2632	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28768 LAD4206_P02_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 165	2633	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAAGCTGCCCTCATCATCA CGGGGTCCAGGCAGATGATGAAGCTGATTACTGT GCGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28768 LAD4206_P02_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 165	2634	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALITGV QADDEADYCALWYSNLWVFGGKLTVL	ADI-28768 LAD4206_P02_A01	Light chain variable region ("LC") amino acid sequence
Ab 165	2635	GSSTGAVTTSNYAN	ADI-28768 LAD4206_P02_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 165	2636	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28768 LAD4206_P02_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 165	2637	GTDKRAP	ADI-28768 LAD4206_P02_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 165	2638	GGCACAGACAAGCGCGCTCCT	ADI-28768 LAD4206_P02_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 165	2639	ALWYSNLWV	ADI-28768 LAD4206_P02_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 165	2640	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28768 LAD4206_P02_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 166	2641	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28769 LAD4206_P02_H01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 166	2642	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28769 LAD4206_P02_H01	Heavy chain variable region ("HC") amino acid sequence
Ab 166	2643	FTFDYAMN		ADI-28769 LAD4206_P02_H01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 166	2644	TTCACCTTTGACACATATGCCATGAAT		ADI-28769 LAD4206_P02_H01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 166	2645	RIRSKYNNYATYYADSVKD		ADI-28769 LAD4206_P02_H01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 166	2646	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28769 LAD4206_P02_H01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 166	2647	VRHSNFGNSYVSWFAH		ADI-28769 LAD4206_P02_H01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 166	2648	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28769 LAD4206_P02_H01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 166	2649	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTACACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCATCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28769 LAD4206_P02_H01	Light chain variable region ("LC") nucleic acid sequence
Ab 166	2650	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALIITGA QADDEADYCALWYNNLWVFGGGTKLTVL	ADI-28769 LAD4206_P02_H01	Light chain variable region ("LC") amino acid sequence
Ab 166	2651	GSSTGAVTTSNYAN	ADI-28769 LAD4206_P02_H01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 166	2652	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28769 LAD4206_P02_H01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 166	2653	GTDKRAP	ADI-28769 LAD4206_P02_H01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 166	2654	GGCACAGACAAGCGCGCTCCT	ADI-28769 LAD4206_P02_H01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 166	2655	ALWYNNLWV	ADI-28769 LAD4206_P02_H01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 166	2656	GCGCTGTGTACAATAACCTTTGGGGTG	ADI-28769 LAD4206_P02_H01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 167	2657	GAGGTGCAGCTGTTGGAGTCTGGGGGAGGCTTGGTAC AGCTGGGGGTCCTGAGACTCTCCTGTGCGAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28770 LAD4206_P02_F02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 167	2658	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	ADI-28770 LAD4206_P02_F02	Heavy chain variable region ("HC") amino acid sequence
		EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS		
Ab 167	2659	FTFDYAMN	ADI-28770 LAD4206_P02_F02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 167	2660	TTCACCTTTGACACATATGCCATGAAT	ADI-28770 LAD4206_P02_F02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 167	2661	RIRSKYNNYATYYADSVKD	ADI-28770 LAD4206_P02_F02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 167	2662	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28770 LAD4206_P02_F02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 167	2663	VRHSNFGNSYVSWFAH	ADI-28770 LAD4206_P02_F02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 167	2664	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28770 LAD4206_P02_F02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 167	2665	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCGC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCGGCTCCACGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACTTTGGGTTCGGGGGAGG GACCAAGCTGACCGTCTCA	ADI-28770 LAD4206_P02_F02	Light chain variable region ("LC") nucleic acid sequence
Ab 167	2666	QTVVTQEPSLSVSPGTVTLTCGSSAGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28770 LAD4206_P02_F02	Light chain variable region ("LC") amino acid sequence
Ab 167	2667	GSSAGAVTTSNYAN	ADI-28770 LAD4206_P02_F02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 167	2668	GGATCAAGCGCTGGCGCAGTCACTACTAGTAACTACGC CAAC	ADI-28770 LAD4206_P02_F02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 167	2669	GTDKRAP	ADI-28770 LAD4206_P02_F02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 167	2670	GGCAGACAAGCGCGCTCCT	ADI-28770 LAD4206_P02_F02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 167	2671	ALWYSNLWV	ADI-28770 LAD4206_P02_F02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 167	2672	GCGTGTGTACAGTAACTTTGGGTG	ADI-28770 LAD4206_P02_F02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 168	2673	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28771 LAD4206_P02_E03	Heavy chain variable region ("HC") nucleic acid sequence

		GGCCAAGGAACCCTGGTACCACCGTCTCCTCA			
Ab 168	2674	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28771 LAD4206_P02_E03	Heavy chain variable region ("HC") amino acid sequence	
Ab 168	2675	FTFDYAMN	ADI-28771 LAD4206_P02_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 168	2676	TTCACCTTTGACACATATGCCATGAAT	ADI-28771 LAD4206_P02_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 168	2677	RIRSKYNNYATYYADSVKD	ADI-28771 LAD4206_P02_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 168	2678	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28771 LAD4206_P02_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 168	2679	VRHSNFGNSYVSWFAH	ADI-28771 LAD4206_P02_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 168	2680	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28771 LAD4206_P02_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 168	2681	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATCTGT GCGTGTGTACAGTAACCTTTGGGTTCGCGGGGAGG GACCAAGCTGACCGTCTCA	ADI-28771 LAD4206_P02_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 168	2682	QTVVTQEPSLSVSPGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNLWVFGGGTKLTVL	ADI-28771 LAD4206_P02_E03	Light chain variable region ("LC") amino acid sequence
Ab 168	2683	GSSTGAVTTSNYAN	ADI-28771 LAD4206_P02_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 168	2684	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28771 LAD4206_P02_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 168	2685	GTDKRAP	ADI-28771 LAD4206_P02_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 168	2686	GGCACAGACAAGCGCGCTCCT	ADI-28771 LAD4206_P02_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 168	2687	ALWYSNLWV	ADI-28771 LAD4206_P02_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 168	2688	GCGCTGTGTACAGTAACCTTTGGGTG	ADI-28771 LAD4206_P02_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 169	2689	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCATCTCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28772 LAD4206_P02_D04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 169	2690	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	ADI-28772 LAD4206_P02_D04	Heavy chain variable region ("HC") amino acid sequence
Ab 169	2691	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28772 LAD4206_P02_D04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 169	2692	FTFDYAMN	ADI-28772 LAD4206_P02_D04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 169	2693	TTCACCTTTGACACATATGCCATGAAT	ADI-28772 LAD4206_P02_D04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 169	2694	RIRSKYNNYATYYADSVKD	ADI-28772 LAD4206_P02_D04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 169	2695	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28772 LAD4206_P02_D04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 169	2696	VRHSNFGNSYVSWFAH	ADI-28772 LAD4206_P02_D04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 169	2696	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28772 LAD4206_P02_D04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 169	2697	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATGT GCGTGTGTACAATAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28772 LAD4206_P02_D04	Light chain variable region ("LC") nucleic acid sequence
Ab 169	2698	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG AQAEDEADYYCALWYNNLWVFGGGTKLTVL	ADI-28772 LAD4206_P02_D04	Light chain variable region ("LC") amino acid sequence
Ab 169	2699	GSSTGAVTTSNYAN	ADI-28772 LAD4206_P02_D04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 169	2700	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28772 LAD4206_P02_D04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 169	2701	GTDKRAP	ADI-28772 LAD4206_P02_D04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 169	2702	GGCACAGACAAGCGCGCTCCT	ADI-28772 LAD4206_P02_D04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 169	2703	ALWYNNLWV	ADI-28772 LAD4206_P02_D04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 169	2704	GCGTGTGTACAATAACCTTTGGGGTG	ADI-28772 LAD4206_P02_D04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 170	2705	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28773 LAD4206_P02_H04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 170	2706	GGCCAAGGAACCCTGGTGACCCGCTCCTCA	ADI-28773 LAD4206_P02_H04	Heavy chain variable region ("HC") amino acid sequence
Ab 170	2707	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APKGLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSLRAEDTAVYCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28773 LAD4206_P02_H04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 170	2708	FTFDYAMN	ADI-28773 LAD4206_P02_H04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 170	2709	TTCACCTTTGACACATATGCCATGAAT	ADI-28773 LAD4206_P02_H04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 170	2710	RIRSKYNNYATYYADSVKD	ADI-28773 LAD4206_P02_H04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 170	2711	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-28773 LAD4206_P02_H04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 170	2712	VRHSNFGNSYVSWFAH	ADI-28773 LAD4206_P02_H04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 170	2712	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-28773 LAD4206_P02_H04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 170	2713	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GTGCTGTGTACAGTAACCTTTGGGTTCGGCGGGAGG GACCAAGCTGACCGTCCTA	ADI-28773 LAD4206_P02_H04	Light chain variable region ("LC") nucleic acid sequence
Ab 170	2714	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDFRFSGLLGDKAALTTG AQAEDEADYYCVLWYSNLWVFGGGTKLTVL	ADI-28773 LAD4206_P02_H04	Light chain variable region ("LC") amino acid sequence
Ab 170	2715	GSSTGAVTTSNYAN	ADI-28773 LAD4206_P02_H04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 170	2716	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28773 LAD4206_P02_H04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 170	2717	GTDKRAP	ADI-28773 LAD4206_P02_H04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 170	2718	GGCACAGACAAGCGCGCTCCT	ADI-28773 LAD4206_P02_H04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 170	2719	VLWYSNLWV	ADI-28773 LAD4206_P02_H04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 170	2720	GTGCTGTGTACAGTAACCTTTGGGTG	ADI-28773 LAD4206_P02_H04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 171	2721	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCGCTATCCAGAGACGATTC CAAGAGCACCGCTGATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGGTTGCTCATTGG	ADI-28774 LAD4206_P02_A05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 171	2722	GGCCAAGGAACCCTGGTACCACCGTCTCCTCA	EVQLLESGGGLVQPGGSLRLSCAASGFTFDTYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYYCVRHSNFGNSYVSWFAHWGQG TLVTYSS	ADI-28774 LAD4206_P02_A05	Heavy chain variable region ("HC") amino acid sequence
Ab 171	2723	FTFDYAMN		ADI-28774 LAD4206_P02_A05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 171	2724	TTCACCTTTGACACATATGCCATGAAT		ADI-28774 LAD4206_P02_A05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 171	2725	RIRSKYNNYATYYADSVKD		ADI-28774 LAD4206_P02_A05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 171	2726	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28774 LAD4206_P02_A05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 171	2727	VRHSNFGNSYVSWFAH		ADI-28774 LAD4206_P02_A05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 171	2728	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28774 LAD4206_P02_A05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 171	2729	CAGACTGGTGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-28774 LAD4206_P02_A05	Light chain variable region ("LC") nucleic acid sequence
Ab 171	2730	QTVVTQEPSLSVSPGTVTLTCSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-28774 LAD4206_P02_A05	Light chain variable region ("LC") amino acid sequence
Ab 171	2731	GSSTGAVTTSNYAN	ADI-28774 LAD4206_P02_A05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 171	2732	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28774 LAD4206_P02_A05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 171	2733	GTDKRAP	ADI-28774 LAD4206_P02_A05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 171	2734	GGCAGACAAGCGCGCTCCT	ADI-28774 LAD4206_P02_A05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 171	2735	ALWYSNHWV	ADI-28774 LAD4206_P02_A05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 171	2736	GCGTGTGTACAGTAACCAATTGGGTG	ADI-28774 LAD4206_P02_A05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 172	2737	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATTGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCCCATCTCCAGAGACGATTC CAAGAGCACCGTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGACTACTCGGTCAGGCACAGT AACTTCGGGAACAGTACGTATCTCTGTTGCTCATTGG	ADI-28775 LAD4206_P02_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 172	2738	GGCCAAGGAACCCTGGTACCCTGCTCCTCA	EVQLLESGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFAISRDDSKST LYLQMINSRAEDTAVYVCVRHSNFGNSYVSWFAHWGQG TLVTVSS	ADI-28775 LAD4206_P02_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 172	2739	FTFDYAMN		ADI-28775 LAD4206_P02_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 172	2740	TTCACCTTTGACACATATGCCATGAAT		ADI-28775 LAD4206_P02_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 172	2741	RIRSKYNNYATYYADSVKD		ADI-28775 LAD4206_P02_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 172	2742	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-28775 LAD4206_P02_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 172	2743	VRHSNFGNSYVSWFAH		ADI-28775 LAD4206_P02_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 172	2744	GTCAGGCACAGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT		ADI-28775 LAD4206_P02_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 172	2745	CAGACTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAGCTGATTACTGT GTGCTGTGTACAGTAACCATGGGTGTTGCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-28775 LAD4206_P02_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 172	2746	QTVVTQEPSLSVSPGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIG AQADDEADYCVLWYSNHWVFGGGTKLTVL	ADI-28775 LAD4206_P02_A06	Light chain variable region ("LC") amino acid sequence
Ab 172	2747	GSSTGAVTTSNYAN	ADI-28775 LAD4206_P02_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 172	2748	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-28775 LAD4206_P02_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 172	2749	GTDKRAP	ADI-28775 LAD4206_P02_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 172	2750	GGCACAGACAAGCGCGCTCCT	ADI-28775 LAD4206_P02_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 172	2751	VLWYSNHWV	ADI-28775 LAD4206_P02_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 172	2752	GTGCTGTGTACAGTAACCAATTGGGTG	ADI-28775 LAD4206_P02_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 173	2753	CAGGTACAGTGCAGCAGTCAGGACCTGAGCTGGTGAA GCCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCTG GCTACACCTTCATAAGTACTATATACACTGGGTGAAGC AGAGGCTGGACAGGACTTGAAGGATGGATGGATT TATCCTGGAAATGTTAATACTAAGTACAATGAGAAAGTTC AAGGCCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGCAGCTCAGCAGTCTGACCTCTGAGGA CTCTGCGGTCTATTTCTGTGCAAGAGATGATAACTACTC CTTTGCTTACTGGGGCCCAAGGCAACCAACCGGTACCCGTCT	ADI-15505 SAD4961_P03_F02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 173	2754	QVQLQQSGPELVKPGASVRIISCKASGYTFISYIHVHWVKQRP GQGLEWIGWIYPGNVNTKYNEKFKAKATLTADKSSSTAY MQLSSLTSEDSAVYFCARDDDNYSFAYWGQGNHGHRL	ADI-15505 SAD4961_P03_F02	Heavy chain variable region ("HC") amino acid sequence
Ab 173	2755	YTFISYIH	ADI-15505 SAD4961_P03_F02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 173	2756	TACACCTTCATAAGCTACTATATACAC	ADI-15505 SAD4961_P03_F02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 173	2757	WIYPGNVNTKYNEKFKA	ADI-15505 SAD4961_P03_F02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 173	2758	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGCC	ADI-15505 SAD4961_P03_F02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 173	2759	ARDDNYSFAY	ADI-15505 SAD4961_P03_F02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 173	2760	GCAAGAGATGATAACTACTCCTTTGCTTAC	ADI-15505 SAD4961_P03_F02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 173	2761	GACATCGTGATGATCCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGTCACTATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAATAAAA	ADI-15505 SAD4961_P03_F02	Light chain variable region ("LC") nucleic acid sequence
Ab 173	2762	DIVMIQSPSSLAVSAGEKVTMSCKSSQSLNLRTRKNYLA WYQQKPGQSPKLLIYWASTRESGVPDRFTGSGGTDFTLT ISSVQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-15505 SAD4961_P03_F02	Light chain variable region ("LC") amino acid sequence
Ab 173	2763	KSSQSLNLRTRKNYLA	ADI-15505 SAD4961_P03_F02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 173	2764	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15505 SAD4961_P03_F02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 173	2765	WASTRES	ADI-15505 SAD4961_P03_F02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 173	2766	TGGGCATCCACTAGGGAATCT	ADI-15505 SAD4961_P03_F02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 173	2767	KQSYNLR	ADI-15505 SAD4961_P03_F02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 173	2768	AAGCAATCTTATAATCTTCGGACG	ADI-15505 SAD4961_P03_F02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 174	2769	GAAGTACAGCTGCAGCAGTCTGGACCTGACCTGGTGAA GCCTGGGGCTTCAGTGAAGATGTCCTGCAAGGCTTCTG GCTACGCCCTCACAAGTACTATATACACTGGGTGAAGC AGAGCCTGGACAGGGACTTGAAGTGGATGGATT TATCTTGGAGATGGTAGTACTAACTACAATGAGAAGTTC AAGGGCAAGACCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGTTGCTCAGCAGCCTGACCTCTGAGGA CTCTGGACCTATTTCTGTGCAAGGGATGATTCGTACTA CTTTGACTACTGGGGCCAAAGGACCAACGGTCAACCGTCTC	ADI-15506 SAD4961_P03_B03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 174	2770	EVQLQQSGPDLVLPKPGASVKMSCKASGYAFTSYIHVVKQ RPGQGLEWIGWYLGDSGSTNYNEKFKGKTTLTADKSSSTA YMILLSLTSEDSATYFCARDDSYFDYWGQGTITVTVSS	ADI-15506 SAD4961_P03_B03	Heavy chain variable region ("HC") amino acid sequence
Ab 174	2771	YAFTSYIH	ADI-15506 SAD4961_P03_B03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 174	2772	TACGCCTTCACAAGCTACTATATACAC	ADI-15506 SAD4961_P03_B03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 174	2773	WYLGDSGSTNYNEKFKG	ADI-15506 SAD4961_P03_B03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 174	2774	TGGATTTATCTTGGAGATGGTAGTACTAACAATGAG AAGTTCAAGGGC	ADI-15506 SAD4961_P03_B03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 174	2775	ARDDSYFDY	ADI-15506 SAD4961_P03_B03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 174	2776	GCAAGGGATGATTCTGACTACTTTGACTAC	ADI-15506 SAD4961_P03_B03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 174	2777	GACATTCAGCTCACTCAGTCTCCATCCTCCCTGGCTGTGT CAGCAGGAGAGAAGGTCACATGAGCTGCAAAATCCAGT CAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAACAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAGTCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAATCAAA	ADI-15506 SAD4961_P03_B03	Light chain variable region ("LC") nucleic acid sequence
Ab 174	2778	DIQLTQSPSSLAVSAGEKVTMSCKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGSGTDFLTIS SVQAEDLAVYYCKQSYSLRTFGGGTKLEIK	ADI-15506 SAD4961_P03_B03	Light chain variable region ("LC") amino acid sequence
Ab 174	2779	KSSQSLNRSRTRKNYLA	ADI-15506 SAD4961_P03_B03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 174	2780	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15506 SAD4961_P03_B03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 174	2781	WASTRES	ADI-15506 SAD4961_P03_B03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 174	2782	TGGGCATCCACTAGGGAATCT	ADI-15506 SAD4961_P03_B03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 174	2783	KQSYSLRT	ADI-15506 SAD4961_P03_B03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 174	2784	AAGCAATCTTATAGTCTTCGGACG	ADI-15506 SAD4961_P03_B03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 175	2785	CAGGTGAAGCTGGAGGAGTCAGGACCTGAGCTGGTGA AGCCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCT GGCTACACCTTACACCGTACTATATACACTGGGTGAAG CAGAGGCTGGACAGGGACTTGAGTGGATTGGATGGA TTTATCCTGAAAATGTTAATACTAAATACAATGAGAAAT TCAAGGGCAAGGCCACACTGTCTGCAGACAAATCCTCCA GCACAGCCTACATGCAGCTCAGCAGCCTGACCTCTGAG GACTCTGGGCTATTCTGTGCAAGAGATGGTGATTAC TACTTTGACTACTGGGGCCAAAGGCCACGAGGTCACCCGTC	ADI-15507 SAD4961_P03_G05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 175	2786	TCCTCA	QVKLEESGPELVKPGASVRISCKASGYTFTRYIHVWVKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLSADKSSSTAY MQLSSLTSEDSAVYFCARDGDYFDYWGQGTITVTVSS	ADI-15507 SAD4961_P03_G05	Heavy chain variable region ("HC") amino acid sequence
Ab 175	2787		YTFTRYIHH	ADI-15507 SAD4961_P03_G05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 175	2788		TACACCTTCACACGCTACTATATACAC	ADI-15507 SAD4961_P03_G05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 175	2789		WIYPGNVNTKYNEKFKG	ADI-15507 SAD4961_P03_G05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 175	2790		TGGATTTATCCTGGAAATGTTAATACTAAATACAATGAG AAGTTCAAGGGC	ADI-15507 SAD4961_P03_G05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 175	2791		ARDGDYFDY	ADI-15507 SAD4961_P03_G05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 175	2792		GCAAGAGATGGTGATTACTACTTTGACTAC	ADI-15507 SAD4961_P03_G05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 175	2793	GACATTCAGCTCACTCAGTCTCCATCCTCCCTGGCTGTGT CAGCAGGAGAGAAGGTCACATGAGCTGCAAAATCCAGT CAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTAATATCTTCGGACGTTTCG GTGGAGGCACCAAGCTGGAAATCAAA	ADI-15507 SAD4961_P03_G05	Light chain variable region ("LC") nucleic acid sequence
Ab 175	2794	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGGDTFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-15507 SAD4961_P03_G05	Light chain variable region ("LC") amino acid sequence
Ab 175	2795	KSSQSLNRSRTRKNYLA	ADI-15507 SAD4961_P03_G05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 175	2796	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15507 SAD4961_P03_G05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 175	2797	WASTRES	ADI-15507 SAD4961_P03_G05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 175	2798	TGGGCATCCACTAGGGAATCT	ADI-15507 SAD4961_P03_G05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 175	2799	KQSYNLR	ADI-15507 SAD4961_P03_G05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 175	2800	AAGCAATCTTATAATCTTCGGACG	ADI-15507 SAD4961_P03_G05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 176	2801	GAGGTGCAGCTGCAGGAGTCTGGACCTGAGCTGGTGA AACCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCT GGCTACACCTTCAACAAGTACTATATACACTGGGTGAAG CAGAGGCTGGACAGGGACTTGAGTGGATTGGATGGA TTTATCTGGAAATGTTAATACTAAGTACAATGAGAAGT TCAAGGGCAAGGCCACACTGACTGCAGACAAATCCTCC AGCACGCCTACATGCAGCTCAGCAGCCTGACCTCTGAG GACTCTGGGCTATTTCTGTGCAAGAGATGGTGATTAC TACTTTGACTACTGGGGCCCAAGGCCACGAGGTCACCCGTC	ADI-15508 SAD4961_P03_H08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 176	2802	EVQLQESGP _{ELV} KPGASV _R ISCKASGY _T FTSY _Y IHW _V KQ _R RP GQGLEWIGW _I YPGNV _N TKYNEK _F GKATL _T ADKSS _T AY MQLSSLTSEDSAV _I FCARDG _D YFDYWGQ _G TTV _T VSS	ADI-15508 SAD4961_P03_H08	Heavy chain variable region ("HC") amino acid sequence
Ab 176	2803	YTFTSY _Y IH	ADI-15508 SAD4961_P03_H08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 176	2804	TACACCTTCACAAGCTACTATATACAC	ADI-15508 SAD4961_P03_H08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 176	2805	WYYPGNV _N TKYNEK _F KG	ADI-15508 SAD4961_P03_H08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 176	2806	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15508 SAD4961_P03_H08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 176	2807	ARDGDYFDY	ADI-15508 SAD4961_P03_H08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 176	2808	GCAAGAGATGGTGATTACTACTTTGACTAC	ADI-15508 SAD4961_P03_H08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 176	2809	GACATTCAGCTGACCCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAGACCCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-15508 SAD4961_P03_H08	Light chain variable region ("LC") nucleic acid sequence
Ab 176	2810	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGSDFTLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-15508 SAD4961_P03_H08	Light chain variable region ("LC") amino acid sequence
Ab 176	2811	KSSQSLNRSRTRKNYLA	ADI-15508 SAD4961_P03_H08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 176	2812	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15508 SAD4961_P03_H08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 176	2813	WASTRES	ADI-15508 SAD4961_P03_H08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 176	2814	TGGGCATCCACTAGGGAATCT	ADI-15508 SAD4961_P03_H08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 176	2815	KQSYNLR	ADI-15508 SAD4961_P03_H08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 176	2816	AAGCAATCTTATAATCTTCGGACG	ADI-15508 SAD4961_P03_H08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 177	2817	GAGGTCAAGCTGGAGGAGTCAGGACCTGAGCTGGCGA AGCCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCT GGTACACCTTCACAAGCTACTATATACACTGGGTGAAG CAGAGCCTGGACAGGGACTTGAGTGGATTGGATGGA TTTATCCTGAAAATGTTAATACTAAGTACAATGAGAAGT TCAAGGGCAAGGCCACACTGACTGCAGACACATCCTCC AGCACGCCTACATGCAGCTCAGCAGCCTGACCTCTGAG GACTCTGGGCTATTTCTGTGCAAGAGATGGTAACTAC TTCTTCGATGTCTGGGGCCCAAGGCCACCACCGGTACCCTC	ADI-15509 SAD4961_P03_D01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 177	2818	EVKLEESGPELAKPGASVRISCKASGYTFTSYIHVWKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLTADTSSSTAY MQLSSLTSEDSAVYFCARDGNVFFDVGQGGTTTVSS	ADI-15509 SAD4961_P03_D01	Heavy chain variable region ("HC") amino acid sequence
Ab 177	2819	YTFTSYIH	ADI-15509 SAD4961_P03_D01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 177	2820	TACACCTTCACAAGCTACTATATACAC	ADI-15509 SAD4961_P03_D01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 177	2821	WIYPGNVNTKYNEKFKG	ADI-15509 SAD4961_P03_D01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 177	2822	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15509 SAD4961_P03_D01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 177	2823	ARDGNYFFDV	ADI-15509 SAD4961_P03_D01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 177	2824	GCAAGAGATGGTAACTACTTCTTCGATGTC	ADI-15509 SAD4961_P03_D01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 177	2825	GACATCCAGTGACTCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACCT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAACCTTCGGACGTTCCG GTGGAGGACCAAGCTGGAGCTGAAA	ADI-15509 SAD4961_P03_D01	Light chain variable region ("LC") nucleic acid sequence
Ab 177	2826	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDRFTGSGGDFLTLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-15509 SAD4961_P03_D01	Light chain variable region ("LC") amino acid sequence
Ab 177	2827	KSSQSLNSRTRKNYLA	ADI-15509 SAD4961_P03_D01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 177	2828	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACCTGGCT	ADI-15509 SAD4961_P03_D01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 177	2829	WASTRES	ADI-15509 SAD4961_P03_D01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 177	2830	TGGGCATCCACTAGGGAATCT	ADI-15509 SAD4961_P03_D01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 177	2831	KQSYNLR	ADI-15509 SAD4961_P03_D01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 177	2832	AAGCAATCTTATAACCTTCGGACG	ADI-15509 SAD4961_P03_D01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 178	2833	GAGGTTCAGCTGGAGGAGTCTGGACCTGAACTGGTGAA GCCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCTG GCTACACCTTCACAAGTACTATATACACTGGGTGAAGC AGAGGCTGGACAGGGACTTGAGTGGATTGGATGGATT TATCCTGGAAATGTTAATACTAAGTACAATGAGAAAGTTC AAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGCAGCTCAGCAGCTGACCTCTGAGGA CTCTGCAATCTATTTCTGTGCAAGAGATGGTAACTACTTC TTCGATGTCTGGGGCCAAAGGCCACCGGTACCCGTCTCC	ADI-15510 SAD4961_P03_H06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 178	2834	EVQLEESGPELVKPGASVRISCKASGYTFTSYIHWWKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLTADKSSSTAY MQLSSLTSEDSAIYFCARDGNYFFDVWGQGTITVTVSS	ADI-15510 SAD4961_P03_H06	Heavy chain variable region ("HC") amino acid sequence
Ab 178	2835	YTFTSYIYH	ADI-15510 SAD4961_P03_H06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 178	2836	TACACCTTCACAAGCTACTATATACAC	ADI-15510 SAD4961_P03_H06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 178	2837	WIYPGNVNTKYNEKFKG	ADI-15510 SAD4961_P03_H06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 178	2838	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15510 SAD4961_P03_H06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 178	2839	ARDGNYFFDV	ADI-15510 SAD4961_P03_H06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 178	2840	GCAAGAGATGGTAACTACTTCTTCGATGTC	ADI-15510 SAD4961_P03_H06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

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Ab 178	2841	GATATCGAGCTGATTGAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAAATCCAG TCAGAACTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCGCAGAAACCCAGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAGACCTGGCA GTATATTACTGCAAGCAATCTTATAATCTTCGGACGTTT GGTGGAGGGACCAAGCTGGAGCTGAAA	ADI-15510 SAD4961_P03_H06	Light chain variable region ("LC") nucleic acid sequence
Ab 178	2842	DIELIQSPSSLAVSAGEKVTMSCKSSQNLNLSRTRKNYLAW YRQKPGQSPKLIYWASTRESGVDRFTGSGGDFLTISS VQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-15510 SAD4961_P03_H06	Light chain variable region ("LC") amino acid sequence
Ab 178	2843	KSSQNLNLSRTRKNYLA	ADI-15510 SAD4961_P03_H06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 178	2844	AAATCCAGTCAGAACTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15510 SAD4961_P03_H06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 178	2845	WASTRES	ADI-15510 SAD4961_P03_H06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 178	2846	TGGGCATCCACTAGGGAATCT	ADI-15510 SAD4961_P03_H06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 178	2847	KQSYNLR	ADI-15510 SAD4961_P03_H06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 178	2848	AAGCAATCTTATAATCTTCGGACG	ADI-15510 SAD4961_P03_H06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 179	2849	CAGGTAAGCTGCAGCAGTCTGGACCTGAGCTGGTGAA GCCTGGGGCTTCAGTGAGGATATCCTGCAAGGCTTCTG GCAACACCTCACAAGCTCCTATATACACTGGGTGAAGC AGAGGCTGGACAGGGACTGAGTGGATTGGATGGATT TATCCTGGAAATGTTAATACTAAGTACAATGAGAAAGTTC AAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGTCTACATGCAGCTCAGCAGCCTGACCTCTGAGGA CTCTGCGGTCTATTTCTGTGCAAGAGACGGTAGCTA CTACTTTGACTACTGGGGCCAAAGGCACACCGGTACCCTG	ADI-15511 SAD4961_P03_D09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 179	2850	QVKLQQSGPELVKPGASVRIKASGNTFTSSYHWWKQR PGQLEWIGWIYPGNVNTKYNEKFKGKATLTADKSSSTVY MQLSSLTSEDSAVYFCARDGSSYFDYWGQGTTVTVSS	ADI-15511 SAD4961_P03_D09	Heavy chain variable region ("HC") amino acid sequence
Ab 179	2851	NTFTSSYIH	ADI-15511 SAD4961_P03_D09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 179	2852	AACACCTTCACAAGCTCCTATATACAC	ADI-15511 SAD4961_P03_D09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 179	2853	WIYPGNVNTKYNEKFKG	ADI-15511 SAD4961_P03_D09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 179	2854	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15511 SAD4961_P03_D09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 179	2855	ARDGSSYFDY	ADI-15511 SAD4961_P03_D09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 179	2856	GCAAGAGACGGTAGTAGCTACTACTTTGACTAC	ADI-15511 SAD4961_P03_D09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 179	2857	GACATCCAGTGACTCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAGACCCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-15511 SAD4961_P03_D09	Light chain variable region ("LC") nucleic acid sequence
Ab 179	2858	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGGDTFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-15511 SAD4961_P03_D09	Light chain variable region ("LC") amino acid sequence
Ab 179	2859	KSSQSLNRSRTRKNYLA	ADI-15511 SAD4961_P03_D09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 179	2860	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15511 SAD4961_P03_D09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 179	2861	WASTRES	ADI-15511 SAD4961_P03_D09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 179	2862	TGGGCATCCACTAGGGAATCT	ADI-15511 SAD4961_P03_D09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 179	2863	KQSYNLR	ADI-15511 SAD4961_P03_D09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 179	2864	AAGCAATCTTATAATCTTCGGACG	ADI-15511 SAD4961_P03_D09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 180	2865	GAAGTGCAGCTGGAGCAGTCAGGACCTGAGCTGGTGA AGCCTGGGCTTCAGTGAAGATGTCCTGCAAGGCTTCT GGTACACCTTCACAAGCTACTATATACACTGGGTGAAG CAGAGCCTGGACAGGGACTTGAGTGGATTGGATGGA TTTATCTGGAGATGGTAGTACTAAGTACAATGAGAAGT TCAAGGGCAAGACCACACTGACTGCAGACAAAATCCTCC AGCACAGCCTACATGTTGCTCAGCAGCCTGACCTTGAG GACTCGGATCTATTTCTGTGCAAGGGATGGTTCGTAC TACTTTGACTACTGGGGCCAAAGGCACGAGGTCACCCGTC	ADI-15512 SAD4961_P03_F09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 180	2866	TCCTCA	EVQLEQSGPELVKPGASVKMSCKASGYTFYSYIHVVVKQR PGQGLEWIGWIYPGDGSKYNEKFKGKTLTADKSSSTAY MILLSLTSEDSAIYFCARDGSYFDYWGGQTTVTVSS	ADI-15512 SAD4961_P03_F09	Heavy chain variable region ("HC") amino acid sequence
Ab 180	2867		YFTSYIHH	ADI-15512 SAD4961_P03_F09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 180	2868		TACACCTTCACAAGCTACTATATACAC	ADI-15512 SAD4961_P03_F09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 180	2869		WIYPGDGSKYNEKFKG	ADI-15512 SAD4961_P03_F09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 180	2870		TGGATTTATCCTGGAGATGGTAGTACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15512 SAD4961_P03_F09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 180	2871		ARDGSYFDY	ADI-15512 SAD4961_P03_F09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 180	2872		GCAAGGGATGGTTCGTACTACTTTGACTAC	ADI-15512 SAD4961_P03_F09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 180	2873		GACATTCAGTCAACCAGTCTCCATCCTCCCTGGCTGTGT CAGCAGGAGAGAAGGTCACCTATGAGCTGCAAAATCCAGT CAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAACAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGAACTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTACCATCAGCAGTGTGCAGGCTGAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAGTCTTCGGACGTTCC GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-15512 SAD4961_P03_F09	Light chain variable region("LC") nucleic acid sequence

Ab 180	2874	DIQLTQSPSSLAVSAGEKVTMSCKSSQSLNLSRTRKKNYLAW YQKPGQSPKLLIYWASTRESGVPDRFTGSGSGDFTLTIS SVQAEDLAVYYCKQSYSLRTFGGGTKLEIK	ADI-15512 SAD4961_P03_F09	Light chain variable region ("LC") amino acid sequence
Ab 180	2875	KSSQSLNLSRTRKKNYLA	ADI-15512 SAD4961_P03_F09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 180	2876	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15512 SAD4961_P03_F09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 180	2877	WASTRES	ADI-15512 SAD4961_P03_F09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 180	2878	TGGGCATCCACTAGGGAATCT	ADI-15512 SAD4961_P03_F09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 180	2879	KQSYSLRT	ADI-15512 SAD4961_P03_F09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 180	2880	AAGCAATCTTATAGTCTTCGGACG	ADI-15512 SAD4961_P03_F09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 181	2881	GAGGTGAAGCTGGAGGAGTCTGGACCTGAGCTGGTGA AGCCTGGGCTTCAGTGAAGATGCTCCTGCAAGGCTTCT GGCTACACCTTCACAAGCTACTATATACACTGGGTGAAG CAGAGGCTGGACAGGGACTTGAGTGGATTGGATGGA TTTATCCTGGAGATGGTAGTACTAAGTACAATGAGAAGT TCAAGGGCAAGACCACACTGACTGCAGACAAATCCTCC AGCACAGCCTACATGTTGCTCAGCAGCTGACCTCTGAG GACTCTGCGATCTATTTCTGTGCAAGGGATGGTTCGTAC TACTTTGACTACTGGGGCCAAAGGCCACCACCGGTACCCGTC TCCTCA	ADI-15513 SAD4961_P03_H11	Heavy chain variable region ("HC") nucleic acid sequence
Ab 181	2882	EVKLEESGPELVKPGASVKMSCKASGYTFTSYIHVWVKQRP GQGLEWIGWIYPGDGSKYNEKFKGKTLTADKSSSTAYM LLSLLTSEDSAIYFCARDGSYFYDYWGQGTTVTVSS	ADI-15513 SAD4961_P03_H11	Heavy chain variable region ("HC") amino acid sequence
Ab 181	2883	YTFTSYIHH	ADI-15513 SAD4961_P03_H11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 181	2884	TACACCTTCACAAGCTACTATATACAC	ADI-15513 SAD4961_P03_H11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 181	2885	WIYPGDGSKYNEKFKG	ADI-15513	Heavy chain variable region CDR H2 ("H2") amino acid sequence

Ab 181	2886	TGGATTTATCCTGGAGATGGTAGTACTAAGTACAATGAG AAGTTCAAGGGC	SAD4961_P03_H11	amino acid sequence
Ab 181	2887	ARDGSYFDY	ADI-15513 SAD4961_P03_H11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 181	2888	GCAAGGGATGGTTCGTACTACTTTGACTAC	ADI-15513 SAD4961_P03_H11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 181	2889	GACATCCAGTGACCCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAGGTCACTATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAACAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTACCATCAGCAGTGTGCAGGCTGAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAGTCTTCGGACGTTCCG GTGGAGGACCAAGCTGGAGTGAAA	ADI-15513 SAD4961_P03_H11	Light chain variable region("LC") nucleic acid sequence
Ab 181	2890	DIQLTQSPSSLAVSAGEKVTMSCKSSQSLNLSRTRKKNYLAW YQKPGQSPKLLIYWASTRESGVPDRFTGSGSGDFTLTIS SVQAEDLAVYYCKQSYSLRTFGGGTKLEIK	ADI-15513 SAD4961_P03_H11	Light chain variable region ("LC") amino acid sequence
Ab 181	2891	KSSQSLNLSRTRKKNYLA	ADI-15513 SAD4961_P03_H11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 181	2892	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15513 SAD4961_P03_H11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 181	2893	WASTRES	ADI-15513 SAD4961_P03_H11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 181	2894	TGGGCATCCACTAGGGAATCT	ADI-15513 SAD4961_P03_H11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 181	2895	KQSYSLRT	ADI-15513 SAD4961_P03_H11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 181	2896	AAGCAATCTTATAGTCTTCGGACG	ADI-15513 SAD4961_P03_H11	Light chain variable region CDR L3 ("L3") nucleic acid sequence

Ab 182	2897	GAAGTCAAGCTGCAGGAGTCTGGACCTGAGCTGGTGAA GCCTGGGGCTTCAGTGAAGATGTCCTGCAAGGCTTCTG GCTACACCTTCACAAGCTACTATATACACTGGGTGAAGC AGAGGCTGGACAGGGACTTGAGTGGATTGGATGGATT TATCCTGGAGATGGTAGTACTAAGTACAATGAGAAGTTC AAGGCAAGACCACACTGACTGCAGACAAATCCTCCAG CACAGCTACATGTTGCTCAGCAGCCTGACCTCTGAGGA CTCTGGATCTATTTCTGTGCAAGGGACTACGGGTACTA CTTGACTACTGGGGCCAAAGGCACCACGGTCAACCGTCTC CTCA	ADI-15514 SAD4961_P03_C02	Heavy chain variable region ("HC") nucleic acid sequence
Ab 182	2898	EVKIQESGPELVKPGASVKMSCKASGYFTFSYIHVVKQR PGQGLEWIGWIYPGDGSKYNEKFKGKTLTADKSSSTAY MILLSLTSEDSAIYFCARDYGYFDYWVGQTTVTVSS	ADI-15514 SAD4961_P03_C02	Heavy chain variable region ("HC") amino acid sequence
Ab 182	2899	YFTFSYIHH	ADI-15514 SAD4961_P03_C02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 182	2900	TACACCTTCACAAGCTACTATATACAC	ADI-15514 SAD4961_P03_C02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 182	2901	WIYPGDGSKYNEKFKG	ADI-15514 SAD4961_P03_C02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 182	2902	TGGATTTATCCTGGAGATGGTAGTACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15514 SAD4961_P03_C02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 182	2903	ARDYGYFDY	ADI-15514 SAD4961_P03_C02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 182	2904	GCAAGGGACTACGGGTACTACTTTGACTAC	ADI-15514 SAD4961_P03_C02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 182	2905	GACATTCAGCTGACCCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGTCACTATGAGCTGCAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-15514 SAD4961_P03_C02	Light chain variable region ("LC") nucleic acid sequence
Ab 182	2906	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGGDTFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-15514 SAD4961_P03_C02	Light chain variable region ("LC") amino acid sequence
Ab 182	2907	KSSQSLNRSRTRKNYLA	ADI-15514 SAD4961_P03_C02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 182	2908	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15514 SAD4961_P03_C02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 182	2909	WASTRES	ADI-15514 SAD4961_P03_C02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 182	2910	TGGGCATCCACTAGGGAATCT	ADI-15514 SAD4961_P03_C02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 182	2911	KQSYNLR	ADI-15514 SAD4961_P03_C02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 182	2912	AAGCAATCTTATAATCTTCGGACG	ADI-15514 SAD4961_P03_C02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 183	2913	GAGGTTAAGCTGGAGGAGTCAGGACCTGAGCTGGTGA AGCTGGGGCTTCAGTGAGGATATCCTGCAAGGCTTCT GGTACACCTTCACAAGCTACTATATACACTGGGTGAAG CAGAGGCTGGACAGGGACTTGAGTGGATTGGATGGA TTTATCTGGAAATGTTAATACTAAGTACAATGAGAAGT TCAAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCC AGCACAGTTTATATGCAGCTCAGCAGCCTGACCTCTGAG GACTCTGGGCTATTTCTGTGCAAGAGACTATGGTTAC TACTTTGACTATTGGGGCCAAAGCCACCACCGGTACCCTGTC	ADI-15515 SAD4961_P03_H03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 183	2914	EVKLEESGPELVKPGASVRISCKASGYTFTSYIHVWKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLTADKSSSTVY MQLSSLTSEDSAVYFCARDYGYFDYWGGQTTVTVSS	ADI-15515 SAD4961_P03_H03	Heavy chain variable region ("HC") amino acid sequence
Ab 183	2915	YTFTSYIH	ADI-15515 SAD4961_P03_H03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 183	2916	TACACCTTCACAAGCTACTATATACAC	ADI-15515 SAD4961_P03_H03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 183	2917	WIYPGNVNTKYNEKFKG	ADI-15515 SAD4961_P03_H03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 183	2918	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15515 SAD4961_P03_H03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 183	2919	ARDYGYFDY	ADI-15515 SAD4961_P03_H03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 183	2920	GCAAGAGACTATGGTTACTACTTTGACTAT	ADI-15515 SAD4961_P03_H03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 183	2921	GACATTGTGTGACCCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGTCCACATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-15515 SAD4961_P03_H03	Light chain variable region ("LC") nucleic acid sequence
Ab 183	2922	DIVLTQSPSSLAVSAGEKVTMSCKSSQSLNSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGSDFTLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-15515 SAD4961_P03_H03	Light chain variable region ("LC") amino acid sequence
Ab 183	2923	KSSQSLNSRTRKNYLA	ADI-15515 SAD4961_P03_H03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 183	2924	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15515 SAD4961_P03_H03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 183	2925	WASTRES	ADI-15515 SAD4961_P03_H03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 183	2926	TGGGCATCCACTAGGGAATCT	ADI-15515 SAD4961_P03_H03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 183	2927	KQSYNLR	ADI-15515 SAD4961_P03_H03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 183	2928	AAGCAATCTTATAATCTTCGGACG	ADI-15515 SAD4961_P03_H03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 184	2929	GAGGTGCAGCTGGAGGAGTCAGGACCTGAGCTGGTGA GGCTGGGGCTTCAGTGAGGATATCCTGCAAGGCTTCT GGCTACACCTTCAACAAGCTCCTATATACACTGGGTGAAG CAGAGGCTGGACAGGGACTTGAGTGGATTGGATGGA TTTATCTGGAAATGTTAATACTAAGTACAATGAGAAGT TCAAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCC AGCACGCCTACATGCACCTCAGCAGCCTGACCTTGAG GACTCTGGGCTATTTCTGTGCAAGAGACTATGGTTAC TACTTTGACTACTGGGGCCAAAGGCCACGAGGTCACCCGTC	ADI-15516 SAD4961_P03_C11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 184	2930	EVQLEESGPELVRPGASVRISCKASGYTFTSSYHWWKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLTADKSSSTAY MHLSSLTSEDSAVYFCARDYGYFDYWGGQTTVTVSS	ADI-15516 SAD4961_P03_C11	Heavy chain variable region ("HC") amino acid sequence
Ab 184	2931	YTFTSSYIH	ADI-15516 SAD4961_P03_C11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 184	2932	TACACCTTCACAAGCTCCTATATACAC	ADI-15516 SAD4961_P03_C11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 184	2933	WIYPGNVNTKYNEKFKG	ADI-15516 SAD4961_P03_C11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 184	2934	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15516 SAD4961_P03_C11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 184	2935	ARDYGYFDY	ADI-15516 SAD4961_P03_C11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 184	2936	GCAAGAGACTATGGTTACTACTTTGACTAC	ADI-15516 SAD4961_P03_C11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 184	2937	GACATTGTGTGACCCAACTCCATCCTCCCTGGCTGTGT CAGCAGGAGAGAAGGTCACTATGAGCTGCAAATCCAGT CAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAAGCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-15516 SAD4961_P03_C11	Light chain variable region ("LC") nucleic acid sequence
Ab 184	2938	DIVLTQSPSSLAVSAGEKVTMSCKSSQSLNSRTRKNYLAW YQQKAGQSPKLLIYWASTRESGVDPDRFTGSGGDFLTLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-15516 SAD4961_P03_C11	Light chain variable region ("LC") amino acid sequence
Ab 184	2939	KSSQSLNSRTRKNYLA	ADI-15516 SAD4961_P03_C11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 184	2940	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15516 SAD4961_P03_C11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 184	2941	WASTRES	ADI-15516 SAD4961_P03_C11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 184	2942	TGGGCATCCACTAGGGAATCT	ADI-15516 SAD4961_P03_C11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 184	2943	KQSYNLR	ADI-15516 SAD4961_P03_C11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 184	2944	AAGCAATCTTATAATCTTCGGACG	ADI-15516 SAD4961_P03_C11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 185	2945	GAGGTTCAGCTGGAGCAGTCAGGACCTGAGCTGGTGAA GCCTGGGCTTCAGTGAGGATATCCTGCAAGTCTTCTGG CTACACCTTCACAAGCTACTATATACACTGGGTGAAGCA GAGGCTGGACAGGGACTTGGTGGATTGGATGGATTT ATCCTGGAAATGTTAATACTAAATAAATGAGAAATTCA AGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAGC ACAGCTACATGCAGCTCAGCAGCCTGACCTCTGAGGAC TCTGCGGTCTATTTCTGTGCAAGAGACTATGGTTACTAC TTTGGCTCCTGGGGCCAAAGGACCAACCGGTACCCGCTCTCC	ADI-15517 SAD4961_P03_H10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 185	2946	EVQLEQSGPELVKPGASVRISCKSSGYTFTSYIHWWVKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLTADKSSSTAY MQLSSLTSEDSAVYFCARDYGYFSGSWGQGTTVTVSS	ADI-15517 SAD4961_P03_H10	Heavy chain variable region ("HC") amino acid sequence
Ab 185	2947	YTFTSYIH	ADI-15517 SAD4961_P03_H10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 185	2948	TACACCTTCACAAGCTACTATATACAC	ADI-15517 SAD4961_P03_H10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 185	2949	WIYPGNVNTKYNEKFKG	ADI-15517 SAD4961_P03_H10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 185	2950	TGGATTTATCCTGGAAATGTTAATACTAAATACAATGAG AAGTTCAAGGGC	ADI-15517 SAD4961_P03_H10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 185	2951	ARDYGYFGS	ADI-15517 SAD4961_P03_H10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 185	2952	GCAAGAGACTATGGTTACTACTTTGGCTCC	ADI-15517 SAD4961_P03_H10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

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Ab 185	2953	GACATCCAGTCAACCAGTCTCCATCCTCCCTGGTGTGT CAGCAGGAGAGAAGGTCACATGAAGCTGCAAAATCCAGT CAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAT TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGTAAAGCAATCTTATAATCTCGGACGTTTCG GTGGAGGCACAAAGCTGGAAATCAAA	ADI-15517 SAD4961_P03_H10	Light chain variable region ("LC") nucleic acid sequence
Ab 185	2954	DIQLTQSPSSLAVSAGEKVTMCKSSQSLNRSRTRKKNYLA WYQQKPGQSPKLLIYWASTRESGVPDRFTGSGGTDFLLT ISSVQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-15517 SAD4961_P03_H10	Light chain variable region ("LC") amino acid sequence
Ab 185	2955	KSSQSLNRSRTRKKNYLA	ADI-15517 SAD4961_P03_H10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 185	2956	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15517 SAD4961_P03_H10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 185	2957	WASTRES	ADI-15517 SAD4961_P03_H10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 185	2958	TGGGCATCCACTAGGGAATCT	ADI-15517 SAD4961_P03_H10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 185	2959	KQSYNLR	ADI-15517 SAD4961_P03_H10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 185	2960	AAGCAATCTTATAATCTTCGGACG	ADI-15517 SAD4961_P03_H10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 186	2961	GAAGTCCAGTGCAGCAGTCTGGACCTGAGCTGGTGAA GCCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCTG GTTACACCTTCACAAGTACTATATACACTGGGTGAAGC AGAGGCTGGACAGGGACTGAGTGGATTGGATGGATT TATCCTGGAAATGTTAATACTAAGTACAATGAGAAAGTTC AAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGTACATGCAGCTCAGCAGCTGACCTTGAGGA CTCTGGGCTATTCTGTGGAAAGAGATTACTACGGCTC GTACTACTTTGACAACTGGGCCAAGGCCACCCAGGTTCA	ADI-15518 SAD4961_P03_C07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 186	2962	EVLQQSGPELVKPGASVRISCKASGYTFTSYIHVWVKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLTADKSSSTVY MQLSSLTSEDSAVYFCGRDYYSYFDNWDGQGTTVTVSS	ADI-15518 SAD4961_P03_C07	Heavy chain variable region ("HC") amino acid sequence
Ab 186	2963	YTFTSYIH	ADI-15518 SAD4961_P03_C07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 186	2964	TACACCTTCACAAGCTACTATATACAC	ADI-15518 SAD4961_P03_C07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 186	2965	WIYPGNVNTKYNEKFKG	ADI-15518 SAD4961_P03_C07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 186	2966	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-15518 SAD4961_P03_C07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 186	2967	GRDYYSYFDN	ADI-15518 SAD4961_P03_C07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 186	2968	GGAAGAGATTACTACGGCTCGTACTACTTTGACAAC	ADI-15518 SAD4961_P03_C07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
		CCGTCTCCTCA		

Ab 186	2969	GACATCCAGTGACTCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGCCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAGGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGCACAAAGTTGGAAATAAAA	ADI-15518 SAD4961_P03_C07	Light chain variable region ("LC") nucleic acid sequence
Ab 186	2970	DIQLTQSPSSLAVSAGEKVTMSCKSSQSLNSRTRKNYLAW YQKPGQPPKLIYWASTRESGVDPDRFTGSGGDFLTLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-15518 SAD4961_P03_C07	Light chain variable region ("LC") amino acid sequence
Ab 186	2971	KSSQSLNSRTRKNYLA	ADI-15518 SAD4961_P03_C07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 186	2972	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-15518 SAD4961_P03_C07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 186	2973	WASTRES	ADI-15518 SAD4961_P03_C07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 186	2974	TGGGCATCCACTAGGGAATCT	ADI-15518 SAD4961_P03_C07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 186	2975	KQSYNLR	ADI-15518 SAD4961_P03_C07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 186	2976	AAGCAATCTTATAATCTTCGGACG	ADI-15518 SAD4961_P03_C07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 187	2977	CAGGTGCAGTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATGGATGGA TCTACCTGGTGTGATGGTAGCACAAAAGTACAAACGAGAAG TTCAAGGGCAGAGTCAACCATGACCCAGGGGACACGTCCAC GAGCACAGTCTACATGGAGCTGAGCAGCCTGAGATCTG AGGACACGGGGTGTACTACTGCGTAGGGATGGCTCC TACTACTTTGACTACTGGGGCCAAAGGAAACCTGGTCACC	ADI-18562 LAD3451_P02_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 187	2978	GTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYIHWWVRQA PGQGLEWMGWYIPGDGSKYNEKFKGRVTMTRDTSTST VYMIELSLRSEDTAVYVCARDGSYFDYWGGQLTVVSS	ADI-18562 LAD3451_P02_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 187	2979	YFTSYIYIH		ADI-18562 LAD3451_P02_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 187	2980	TACACCTTCACCAGCTACTATATACAC		ADI-18562 LAD3451_P02_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 187	2981	WYIPGDGSKYNEKFKG		ADI-18562 LAD3451_P02_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 187	2982	TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC		ADI-18562 LAD3451_P02_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 187	2983	ARDGSYFDY		ADI-18562 LAD3451_P02_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 187	2984	GCTAGGGATGGCTCCTACTACTTTGACTAC		ADI-18562 LAD3451_P02_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 187	2985	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18562 LAD3451_P02_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 187	2986	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18562 LAD3451_P02_A01	Light chain variable region ("LC") amino acid sequence
Ab 187	2987	KSSQSLNLSRTRKNYLA	ADI-18562 LAD3451_P02_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 187	2988	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18562 LAD3451_P02_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 187	2989	WASTRES	ADI-18562 LAD3451_P02_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 187	2990	TGGGCATCTACCCGGGAATCC	ADI-18562 LAD3451_P02_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 187	2991	KQSYSLRT	ADI-18562 LAD3451_P02_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 187	2992	AAGCAATCTTATTCTCTGAGAACT	ADI-18562 LAD3451_P02_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 188	2993	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGTCCCTCAGTGAAGGTTTCTCTGCAAGGCATCTG GATACACCTTACCAGTACTATATACACTGGGTGGCAG AGGCCCTGGACAAAGGCTTGGATGGATGGATGGAT CTACCCTGGTGTAGTACACAAAGTACAAACGAGAAAGT TCAAGGGCAGAGTACCATAACCCGGGCAAGTCCACG AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCGAGGGATGGGAAGC TATTACTTTGACTACTGGGGCCCAAGGAACCCCTGGTCACC	ADI-18563 LAD3451_P02_F01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 188	2994	QVQLVQSGAEVKKPGSSVKVCKASGYTFTSYIHWVVRQA PGQGLEWMGWYYPGDGSKYNEKFKGRVTITADKSTSTA YMEISSLRSEDTAVYICARDGSYFDYWGGGLTVVSS	ADI-18563 LAD3451_P02_F01	Heavy chain variable region ("HC") amino acid sequence
Ab 188	2995	YTFTSYIHW	ADI-18563 LAD3451_P02_F01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 188	2996	TACACCTTCACCAGCTACTATATACAC	ADI-18563 LAD3451_P02_F01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 188	2997	WYYPGDGSKYNEKFKG	ADI-18563 LAD3451_P02_F01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 188	2998	TGGATCTACCCCTGGTGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18563 LAD3451_P02_F01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 188	2999	ARDGSYFDY	ADI-18563 LAD3451_P02_F01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 188	3000	GCGAGGGATGGAAGCTATTACTTTGACTAC	ADI-18563 LAD3451_P02_F01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 188	3001	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18563 LAD3451_P02_F01	Light chain variable region ("LC") nucleic acid sequence
Ab 188	3002	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18563 LAD3451_P02_F01	Light chain variable region ("LC") amino acid sequence
Ab 188	3003	KSSQSLNLSRTRKNYLA	ADI-18563 LAD3451_P02_F01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 188	3004	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18563 LAD3451_P02_F01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 188	3005	WASTRES	ADI-18563 LAD3451_P02_F01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 188	3006	TGGGCATCTACCCGGGAATCC	ADI-18563 LAD3451_P02_F01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 188	3007	KQSYSLRT	ADI-18563 LAD3451_P02_F01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 188	3008	AAGCAATCTTATTCTCTGAGAACT	ADI-18563 LAD3451_P02_F01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 189	3009	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTGTAGTAGCACAAGTACAACGAGAAGT TCAAGGGCAGAGTACCATGACCCGGGACAAGTCCACG AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCCAGGGATGGTTCCT ATTACTTTGACTACTGGGGCCCAAGGAAACCCCTGGTCACCG	ADI-18564 LAD3451_P03_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 189	3010	TCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYIHVVRRQA PGQGLEWIGWIYPGDGSKYNEKFKGRVTMTADKSTSTA YMEISSLRSEDTAVYYCARDGSYFDYWGGGLTVVSS	ADI-18564 LAD3451_P03_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 189	3011		YTFTSYIHH	ADI-18564 LAD3451_P03_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 189	3012		TACACCTTCACCAGCTACTATATACAC	ADI-18564 LAD3451_P03_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 189	3013		WIYPGDGSKYNEKFKG	ADI-18564 LAD3451_P03_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 189	3014		TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18564 LAD3451_P03_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 189	3015		ARDGSYFDY	ADI-18564 LAD3451_P03_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 189	3016		GCCAGGGATGGTTCCTTACTTTGACTAC	ADI-18564 LAD3451_P03_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 189	3017	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18564 LAD3451_P03_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 189	3018	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18564 LAD3451_P03_A01	Light chain variable region ("LC") amino acid sequence
Ab 189	3019	KSSQSLNLSRTRKNYLA	ADI-18564 LAD3451_P03_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 189	3020	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18564 LAD3451_P03_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 189	3021	WASTRES	ADI-18564 LAD3451_P03_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 189	3022	TGGGCATCTACCCGGGAATCC	ADI-18564 LAD3451_P03_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 189	3023	KQSYSLRT	ADI-18564 LAD3451_P03_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 189	3024	AAGCAATCTTATTCTCTGAGAACT	ADI-18564 LAD3451_P03_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 190	3025	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATGGATGGA TCTACCTGGTGTAGTAGCACAAGTACAACGAGAAG TTCAAGGGCAGAGTCAACCATGACCCGGGACAAGTCCAC GAGCACGCTACATGGAGCTGAGCAGCCTGAGATCTG AGGACACGGGGTGTACTACTCGGCTAGAGATGGCTCA TATTACTTTGACTACTGGGGCCAAAGAAACCTGGTCACC	ADI-18565 LAD3451_P03_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 190	3026	GTCTCCTCA	QVQLVQSGAEVKKPGASVKVSKASGYTFTSYIHVVRRQA PGQGLEWMGWYIPGDGSKYNEKFKGRVTMTADKSTST AYMIELSRSEDTAVYVCARDGSYFDYWGGTLLTVSS	ADI-18565 LAD3451_P03_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 190	3027		YTFTSYIHH	ADI-18565 LAD3451_P03_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 190	3028		TACACCTTCACCAGCTACTATATACAC	ADI-18565 LAD3451_P03_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 190	3029		WYIPGDGSKYNEKFKG	ADI-18565 LAD3451_P03_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 190	3030		TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18565 LAD3451_P03_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 190	3031		ARDGSYFDY	ADI-18565 LAD3451_P03_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 190	3032		GCTAGAGATGGCTCATATTACTTTGACTAC	ADI-18565 LAD3451_P03_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 190	3033	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18565 LAD3451_P03_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 190	3034	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18565 LAD3451_P03_A02	Light chain variable region ("LC") amino acid sequence
Ab 190	3035	KSSQSLNLSRTRKNYLA	ADI-18565 LAD3451_P03_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 190	3036	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18565 LAD3451_P03_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 190	3037	WASTRES	ADI-18565 LAD3451_P03_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 190	3038	TGGGCATCTACCCGGGAATCC	ADI-18565 LAD3451_P03_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 190	3039	KQSYSLRT	ADI-18565 LAD3451_P03_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 190	3040	AAGCAATCTTATTCTCTGAGAACT	ADI-18565 LAD3451_P03_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 191	3041	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTGTAGTGCACAAAAGTACAACGAGAAAGT TCAAGGGCAGAAACCACCTGACCCGGGACAAAGTCCACG AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCTAGAGACGGATCTT ATTACTTTGACTACTGGGGCCCAAGGAAACCTTGTCACCG	ADI-18566 LAD3451_P02_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 191	3042	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYIHWWVRQA PGQGLEWIGWIYPGDGSKYNEKFKGRTLLTADKSTSTAY MELSLRSEDVAVYCARDGSYFDYWGGTLLTVSS	ADI-18566 LAD3451_P02_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 191	3043	YTFTSYIHH	ADI-18566 LAD3451_P02_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 191	3044	TACACCTTCACCAGCTACTATATACAC	ADI-18566 LAD3451_P02_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 191	3045	WIYPGDGSKYNEKFKG	ADI-18566 LAD3451_P02_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 191	3046	TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18566 LAD3451_P02_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 191	3047	ARDGSYFDY	ADI-18566 LAD3451_P02_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 191	3048	GCTAGAGACGGGATCTTATTACTTTGACTAC	ADI-18566 LAD3451_P02_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
		TCTCCTCA		

Ab 191	3049	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18566 LAD3451_P02_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 191	3050	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18566 LAD3451_P02_A03	Light chain variable region ("LC") amino acid sequence
Ab 191	3051	KSSQSLNLSRTRKNYLA	ADI-18566 LAD3451_P02_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 191	3052	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18566 LAD3451_P02_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 191	3053	WASTRES	ADI-18566 LAD3451_P02_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 191	3054	TGGGCATCTACCCGGGAATCC	ADI-18566 LAD3451_P02_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 191	3055	KQSYSLRT	ADI-18566 LAD3451_P02_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 191	3056	AAGCAATCTTATTCTCTGAGAACT	ADI-18566 LAD3451_P02_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 192	3057	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGTCCCTCAGTGAAGGTTTCTGCAAGGCATCTG GATACACCTTACCAGCTACTATATACACTGGGTGGCAG AGGCCCTGGACAAAGGGCTTGGTGGATAGGATGGATC TACCCTGGTGTAGTAGCACAAGTACAACGAGAAGTT CAAGGGCAGAACCACCTGACCCGGGACAAGTCCACGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCGGAGAGATGGTAGCTA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGGTCAACCGT	ADI-18567 LAD3451_P02_E03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 192	3058	CTCCTCA	QVQLVQSGAEVKKPGSSVKVCKASGYTFTSYIHVVWRQA PGQGLEWIGWIYPGDGSKYNEKFKGRTLLTADKSTSTAY MELSLRSEDTAVYICARDGGSYFDYWGGGLTVVSS	ADI-18567 LAD3451_P02_E03	Heavy chain variable region ("HC") amino acid sequence
Ab 192	3059		YTFTSYIH	ADI-18567 LAD3451_P02_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 192	3060		TACACCTTCACCAGCTACTATATACAC	ADI-18567 LAD3451_P02_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 192	3061		WIYPGDGSKYNEKFKG	ADI-18567 LAD3451_P02_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 192	3062		TGGATCTACCCTGGTGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18567 LAD3451_P02_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 192	3063		ARDGSYFDY	ADI-18567 LAD3451_P02_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 192	3064		GCGAGAGATGGTAGCTACTACTTTGACTAC	ADI-18567 LAD3451_P02_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 192	3065	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCTTAGAACTTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18567 LAD3451_P02_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 192	3066	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18567 LAD3451_P02_E03	Light chain variable region ("LC") amino acid sequence
Ab 192	3067	KSSQSLNLSRTRKNYLA	ADI-18567 LAD3451_P02_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 192	3068	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18567 LAD3451_P02_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 192	3069	WASTRES	ADI-18567 LAD3451_P02_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 192	3070	TGGGCATCTACCCGGGAATCC	ADI-18567 LAD3451_P02_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 192	3071	KQSYSLRT	ADI-18567 LAD3451_P02_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 192	3072	AAGCAATCTTATTCTTAGAACT	ADI-18567 LAD3451_P02_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 193	3073	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATGGATGGA TCTACCTGGTGTAGTAGCACAAGTACAACGAGAAG TTCAAGGGCAGAGTCAACCATGACCAGGGGACACGTCCAC GAGCACAGTCTACATGGAGCTGAGCAGCCTGAGATCTG AGGACACGGGGTGTACTACTCGGCTAGGGATGGCTCC TACTACTTTGACTACTGGGGCCCAAGGAAACCTGGTCACC	ADI-18568 LAD3451_P02_B04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 193	3074	GTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYIHWWVRQA PGQGLEWMGWYIPGDGSKYNEKFKGRVTMTRDTSTST VYMIELSLRSEDTAVYVCARDGSYFDYWGGQLTVVSS	ADI-18568 LAD3451_P02_B04	Heavy chain variable region ("HC") amino acid sequence
Ab 193	3075		YTFTSYIHH	ADI-18568 LAD3451_P02_B04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 193	3076		TACACCTTCACCAGCTACTATATACAC	ADI-18568 LAD3451_P02_B04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 193	3077		WYIPGDGSKYNEKFKG	ADI-18568 LAD3451_P02_B04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 193	3078		TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18568 LAD3451_P02_B04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 193	3079		ARDGSYFDY	ADI-18568 LAD3451_P02_B04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 193	3080		GCTAGGGATGGCTCCTACTACTTTGACTAC	ADI-18568 LAD3451_P02_B04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 193	3081	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18568 LAD3451_P02_B04	Light chain variable region ("LC") nucleic acid sequence
Ab 193	3082	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLOAEDVAVYYCKQSYNLRFTFGGKVEIK	ADI-18568 LAD3451_P02_B04	Light chain variable region ("LC") amino acid sequence
Ab 193	3083	KSSQSLNLSRTRKNYLA	ADI-18568 LAD3451_P02_B04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 193	3084	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18568 LAD3451_P02_B04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 193	3085	WASTRES	ADI-18568 LAD3451_P02_B04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 193	3086	TGGGCATCTACCCGGGAATCC	ADI-18568 LAD3451_P02_B04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 193	3087	KQSYNLR	ADI-18568 LAD3451_P02_B04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 193	3088	AAGCAGAGTTACAATTTGAGAACT	ADI-18568 LAD3451_P02_B04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 194	3089	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGTCCCTCAGTGAAGGTTTCTGCAAGGCATCTG GATACACCTTACCAGTACTATATACACTGGGTGGCAG AGCCCTGGACAAAGGCTTGGTGGATGGGATGGAT CTACCCTGGTGTAGTACACAAAGTACAACGAGAAAGT TCAAGGGCAGAGTACCATAACCCGGGACAAAGTCCACG AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCGAGGGATGGGAAGC TATTACTTTGACTACTGGGGCCCAAGGAACCCCTGGTCACC	ADI-18569 LAD3451_P02_E04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 194	3090	GTCTCCTCA	QVQLVQSGAEVKKPGSSVKVCKASGYTFTSYIHVVWRQA PGQGLEWMGWYYPGDGSKYNEKFKGRVTITADKSTSTA YMEISSLRSEDTAVYICARDGSYFDYWGGGLTVVSS	ADI-18569 LAD3451_P02_E04	Heavy chain variable region ("HC") amino acid sequence
Ab 194	3091		YTFTSYIHH	ADI-18569 LAD3451_P02_E04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 194	3092		TACACCTTCACCAGCTACTATATACAC	ADI-18569 LAD3451_P02_E04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 194	3093		WYYPGDGSKYNEKFKG	ADI-18569 LAD3451_P02_E04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 194	3094		TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18569 LAD3451_P02_E04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 194	3095		ARDGSYFDY	ADI-18569 LAD3451_P02_E04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 194	3096		GCGAGGGATGGAAGCTATTACTTTGACTAC	ADI-18569 LAD3451_P02_E04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 194	3097	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18569 LAD3451_P02_E04	Light chain variable region ("LC") nucleic acid sequence
Ab 194	3098	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYNLRITFGGKVEIK	ADI-18569 LAD3451_P02_E04	Light chain variable region ("LC") amino acid sequence
Ab 194	3099	KSSQSLNLSRTRKNYLA	ADI-18569 LAD3451_P02_E04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 194	3100	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18569 LAD3451_P02_E04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 194	3101	WASTRES	ADI-18569 LAD3451_P02_E04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 194	3102	TGGGCATCTACCCGGGAATCC	ADI-18569 LAD3451_P02_E04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 194	3103	KQSYNLRIT	ADI-18569 LAD3451_P02_E04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 194	3104	AAGCAGAGTTACAATTTGAGAACT	ADI-18569 LAD3451_P02_E04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 195	3105	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTGTAGTACACAAAGTACAACGAGAAGT TCAAGGGCAGAGTACCATGACCCGGGACAAAGTCCACG AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTCGCCAGGGATGGTCTCT ATTACTTTGACTACTGGGGCCCAAGAAACCTGGTCAACC	ADI-18570 LAD3451_P02_A05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 195	3106	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYIHVVRRQA PGQGLEWIGWIYPGDGSKYNEKFKGRVTMTADKSTSTA YMEISSLRSEDTAVYICARDGSYFDYWGGGLTVVSS	ADI-18570 LAD3451_P02_A05	Heavy chain variable region ("HC") amino acid sequence
Ab 195	3107	YTFTSYIHH	ADI-18570 LAD3451_P02_A05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 195	3108	TACACCTTCACCAGCTACTATATACAC	ADI-18570 LAD3451_P02_A05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 195	3109	WIYPGDGSKYNEKFKG	ADI-18570 LAD3451_P02_A05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 195	3110	TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18570 LAD3451_P02_A05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 195	3111	ARDGSYFDY	ADI-18570 LAD3451_P02_A05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 195	3112	GCCAGGGATGGTTCCTTACTTTGACTAC	ADI-18570 LAD3451_P02_A05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 195	3113	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18570 LAD3451_P02_A05	Light chain variable region ("LC") nucleic acid sequence
Ab 195	3114	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18570 LAD3451_P02_A05	Light chain variable region ("LC") amino acid sequence
Ab 195	3115	KSSQSLNLSRTRKNYLA	ADI-18570 LAD3451_P02_A05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 195	3116	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCAGAAA GAACTACTTAGCT	ADI-18570 LAD3451_P02_A05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 195	3117	WASTRES	ADI-18570 LAD3451_P02_A05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 195	3118	TGGGCATCTACCCGGGAATCC	ADI-18570 LAD3451_P02_A05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 195	3119	KQSYNLRIT	ADI-18570 LAD3451_P02_A05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 195	3120	AAGCAGAGTTACAATTTGAGAACT	ADI-18570 LAD3451_P02_A05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 196	3121	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATGGATGGA TCTACCTGGTGTAGTAGCACAAGTACAACGAGAAG TTCAAGGGCAGAGTCAACCATGACCCGGGACAAGTCCAC GAGCACGCCTACATGGAGCTGAGCAGCCTGAGATCTG AGGACACGGGGTGTACTACTCGGCTAGAGATGGCTCA TATTACTTTGACTACTGGGGCCCAAGGAAACCTGGTCACC	ADI-18571 LAD3451_P02_H05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 196	3122	GTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYIHVVRRQA PGQGLEWMGWYIPGDGSKYNEKFKGRVTMTADKSTST AYMIELSRSEDTAVYVCARDGSYFDYWGGGTLVTVSS	ADI-18571 LAD3451_P02_H05	Heavy chain variable region ("HC") amino acid sequence
Ab 196	3123	YFTSYIYH		ADI-18571 LAD3451_P02_H05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 196	3124	TACACCTTCACCAGCTACTATATACAC		ADI-18571 LAD3451_P02_H05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 196	3125	WYIPGDGSKYNEKFKG		ADI-18571 LAD3451_P02_H05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 196	3126	TGGATCTACCCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC		ADI-18571 LAD3451_P02_H05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 196	3127	ARDGSYFDY		ADI-18571 LAD3451_P02_H05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 196	3128	GCTAGAGATGGCTCATATTACTTTGACTAC		ADI-18571 LAD3451_P02_H05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 196	3129	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18571 LAD3451_P02_H05	Light chain variable region ("LC") nucleic acid sequence
Ab 196	3130	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18571 LAD3451_P02_H05	Light chain variable region ("LC") amino acid sequence
Ab 196	3131	KSSQSLNLSRTRKNYLA	ADI-18571 LAD3451_P02_H05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 196	3132	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18571 LAD3451_P02_H05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 196	3133	WASTRES	ADI-18571 LAD3451_P02_H05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 196	3134	TGGGCATCTACCCGGGAATCC	ADI-18571 LAD3451_P02_H05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 196	3135	KQSYNLRIT	ADI-18571 LAD3451_P02_H05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 196	3136	AAGCAGAGTTACAATTTGAGAACT	ADI-18571 LAD3451_P02_H05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 197	3137	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTGTAGTACACAAAGTACAACGAGAAAGT TCAAGGGCAGAACCAACCCTGACCCGGGACAAAGTCCACG AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCTAGAGACGGATCTT ATTACTTTGACTACTGGGGCCCAAGGAAACCTTGTCACCG	ADI-18572 LAD3451_P02_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 197	3138	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSYIHWWVRQA PGQGLEWIGWIYPGDGSKYNEKFKGRTLLTADKSTSTAY MELSLRSEDTAVYICARDGGSYFDYWGGTLLTVSS	ADI-18572 LAD3451_P02_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 197	3139	YTFTSYIHH	ADI-18572 LAD3451_P02_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 197	3140	TACACCTTCACCAGCTACTATATACAC	ADI-18572 LAD3451_P02_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 197	3141	WIYPGDGSKYNEKFKG	ADI-18572 LAD3451_P02_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 197	3142	TGGATCTACCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18572 LAD3451_P02_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 197	3143	ARDGSYFDY	ADI-18572 LAD3451_P02_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 197	3144	GCTAGAGACGGGATCTTATTACTTTGACTAC	ADI-18572 LAD3451_P02_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 197	3145	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGGGGAGGGACCAAGGTGGAGATCAAA	ADI-18572 LAD3451_P02_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 197	3146	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYNLRFTGGGKVEIK	ADI-18572 LAD3451_P02_A06	Light chain variable region ("LC") amino acid sequence
Ab 197	3147	KSSQSLNLSRTRKNYLA	ADI-18572 LAD3451_P02_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 197	3148	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCAGAAA GAACTACTTAGCT	ADI-18572 LAD3451_P02_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 197	3149	WASTRES	ADI-18572 LAD3451_P02_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 197	3150	TGGGCATCTACCCGGGAATCC	ADI-18572 LAD3451_P02_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 197	3151	KQSYNLR	ADI-18572 LAD3451_P02_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 197	3152	AAGCAGAGTTACAATTTGAGAACT	ADI-18572 LAD3451_P02_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 198	3153	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGTCCCTCAGTGAAGGTTTCTGCAAGGCATCTG GATACACCTTACCAGTACTATATACACTGGGTGGCAG AGGCCCTGGACAAAGGCTTGGTGGATAGGATGGATC TACCCTGGTGTAGTAGCACAAGTACAACGAGAAGTT CAAGGGCAGAACCACCTGACCCGGGACAAGTCCACGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCGGAGAGATGGTAGCTA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGGTACCCTG	ADI-18573 LAD3451_P02_G06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 198	3154	CTCCTCA	QVQLVQSGAEVKKPGSSVKVSKASGYTFSTYYIHWWVRQA PGQGLEWIGWIYPGDGSKYNEKFKGRTLLTADKSTSTAY MELSSLRSEDTAVYFCARDGSYFDYWGQGLTVTVSS	ADI-18573 LAD3451_P02_G06	Heavy chain variable region ("HC") amino acid sequence
Ab 198	3155		YTFTSYIHH	ADI-18573 LAD3451_P02_G06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 198	3156		TACACCTTCACCAGCTACTATATACAC	ADI-18573 LAD3451_P02_G06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 198	3157		WIYPGDGSKYNEKFKG	ADI-18573 LAD3451_P02_G06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 198	3158		TGGATCTACCCCTGGTGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-18573 LAD3451_P02_G06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 198	3159		ARDGSYFDY	ADI-18573 LAD3451_P02_G06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 198	3160		GCGAGAGATGGTAGCTACTACTTTGACTAC	ADI-18573 LAD3451_P02_G06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 198	3161	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGGCGGAGGGACCAAGCTGGAGATCAAA	ADI-18573 LAD3451_P02_G06	Light chain variable region ("LC") nucleic acid sequence
Ab 198	3162	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLOAEDVAVYYCKQSYNLRITFGGGTKLEIK	ADI-18573 LAD3451_P02_G06	Light chain variable region ("LC") amino acid sequence
Ab 198	3163	KSSQSLNLSRTRKNYLA	ADI-18573 LAD3451_P02_G06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 198	3164	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18573 LAD3451_P02_G06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 198	3165	WASTRES	ADI-18573 LAD3451_P02_G06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 198	3166	TGGGCATCTACCCGGGAATCC	ADI-18573 LAD3451_P02_G06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 198	3167	KQSYNLRIT	ADI-18573 LAD3451_P02_G06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 198	3168	AAGCAGAGTTACAATTTGAGAACT	ADI-18573 LAD3451_P02_G06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 199	3169	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAAGGCTTGAGTGGATGGATGGAT CTACCCTGGTAATGTTAACACAAAAGTACAACGAGAAGTT CAAGGGCAGAGTCAACCATACCAGGGGACACGTCCTCCGGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCTAGGGATTATGGCTA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGGTACCCTG	ADI-18574 LAD3452_P02_A07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 199	3170	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQRLEWMGWYIPGNVNTKYNEKFKGRVTITRDTASTA YMEISSLRSEDTAVYVCARDYGYFDYWGGGTLTVSS	ADI-18574 LAD3452_P02_A07	Heavy chain variable region ("HC") amino acid sequence
Ab 199	3171		YTFSSYIH	ADI-18574 LAD3452_P02_A07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 199	3172		TACACCTTCACCAGCTCCTATATACAC	ADI-18574 LAD3452_P02_A07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 199	3173		WYIPGNVNTKYNEKFKG	ADI-18574 LAD3452_P02_A07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 199	3174		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18574 LAD3452_P02_A07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 199	3175		ARDYGYFDY	ADI-18574 LAD3452_P02_A07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 199	3176		GCTAGGGATTATGGCTACTACTTTGACTAC	ADI-18574 LAD3452_P02_A07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 199	3177	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18574 LAD3452_P02_A07	Light chain variable region ("LC") nucleic acid sequence
Ab 199	3178	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18574 LAD3452_P02_A07	Light chain variable region ("LC") amino acid sequence
Ab 199	3179	KSSQSLNLSRTRKNYLA	ADI-18574 LAD3452_P02_A07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 199	3180	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18574 LAD3452_P02_A07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 199	3181	WASTRES	ADI-18574 LAD3452_P02_A07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 199	3182	TGGGCATCTACCCGGGAATCC	ADI-18574 LAD3452_P02_A07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 199	3183	KQSYSLRT	ADI-18574 LAD3452_P02_A07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 199	3184	AAGCAATCTTATTCTCTGAGAACT	ADI-18574 LAD3452_P02_A07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 200	3185	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTAATGTTAACACAAAGTACAAACGAGAAGTT CAAGGGCAGAGCCACCCTGACCCGGGACAAAGTCCGCGA GCACAGCCTACATGCACCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCGGAGAGACTACGGCTA CTACTTTGACTACTGGGGCCAAAGAAACCCTGGTACCCTG	ADI-18575 LAD3452_P02_E07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 200	3186	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWVRQA PGQGLEWIGWIYPGNVNTKYNEKFKGRATLTADKSASTAY MHLSSLRSEDTAVYYCARDYGYFDYWGQGTLVTVSS	ADI-18575 LAD3452_P02_E07	Heavy chain variable region ("HC") amino acid sequence
Ab 200	3187		YFTSSYIH	ADI-18575 LAD3452_P02_E07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 200	3188		TACACCTTCACCAGCTCCTATATACAC	ADI-18575 LAD3452_P02_E07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 200	3189		WIYPGNVNTKYNEKFKG	ADI-18575 LAD3452_P02_E07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 200	3190		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18575 LAD3452_P02_E07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 200	3191		ARDYGYFDY	ADI-18575 LAD3452_P02_E07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 200	3192		GCGAGAGACTACGGCTACTACTTTGACTAC	ADI-18575 LAD3452_P02_E07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 200	3193	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18575 LAD3452_P02_E07	Light chain variable region ("LC") nucleic acid sequence
Ab 200	3194	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18575 LAD3452_P02_E07	Light chain variable region ("LC") amino acid sequence
Ab 200	3195	KSSQSLNLSRTRKNYLA	ADI-18575 LAD3452_P02_E07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 200	3196	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18575 LAD3452_P02_E07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 200	3197	WASTRES	ADI-18575 LAD3452_P02_E07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 200	3198	TGGGCATCTACCCGGGAATCC	ADI-18575 LAD3452_P02_E07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 200	3199	KQSYSLRT	ADI-18575 LAD3452_P02_E07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 200	3200	AAGCAATCTTATTCTCTGAGAACT	ADI-18575 LAD3452_P02_E07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 201	3201	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTAATGTTAACACAAAAGTACAACGAGAAGTT CAAGGGCAGAGTCAACCATAACCCGGGACAAAGTCCCGGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGTACTACTGCGCGGAGGATACGGATA CTACTTTGACTACTGGGGCCAAAGGAAACCCTGTACCCTG	ADI-18576 LAD3452_P02_A08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 201	3202	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQRLEWIGWIYPGNVNTKYNEKFKGRVTITADKSASTAY MELSSLRSEDTAVYVCARDYGYFDYWGGGTLTVSS	ADI-18576 LAD3452_P02_A08	Heavy chain variable region ("HC") amino acid sequence
Ab 201	3203		YFTSSYIH	ADI-18576 LAD3452_P02_A08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 201	3204		TACACCTTCACCAGCTCCTATATACAC	ADI-18576 LAD3452_P02_A08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 201	3205		WIYPGNVNTKYNEKFKG	ADI-18576 LAD3452_P02_A08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 201	3206		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18576 LAD3452_P02_A08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 201	3207		ARDYGYFDY	ADI-18576 LAD3452_P02_A08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 201	3208		GCGAGGGATTACGGATACTACTTTGACTAC	ADI-18576 LAD3452_P02_A08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 201	3209	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18576 LAD3452_P02_A08	Light chain variable region ("LC") nucleic acid sequence
Ab 201	3210	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18576 LAD3452_P02_A08	Light chain variable region ("LC") amino acid sequence
Ab 201	3211	KSSQSLNLSRTRKNYLA	ADI-18576 LAD3452_P02_A08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 201	3212	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18576 LAD3452_P02_A08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 201	3213	WASTRES	ADI-18576 LAD3452_P02_A08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 201	3214	TGGGCATCTACCCGGGAATCC	ADI-18576 LAD3452_P02_A08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 201	3215	KQSYSLRT	ADI-18576 LAD3452_P02_A08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 201	3216	AAGCAATCTTATTCTCTGAGAACT	ADI-18576 LAD3452_P02_A08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 202	3217	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATGGATGGA TCTACCTGGTAAATGTTAACACAAAGTACAAACGAGAAAGT TCAAGGGCAGAGTACCATGACCAGGGGACACGTCACCG AGCACAGTCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCTAGGGACTATGGTT ACTACTTTGACTACTGGGGCCAAAGAAACCCCTGGTCACCG	ADI-18577 LAD3452_P02_G08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 202	3218	TCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQGLEWMGWYIPGNVNTKYNEKFKGRVTMTRDTSTST VYMIELSLRSEDTAVYVCARDYGYFDYWGGQGLTVVSS	ADI-18577 LAD3452_P02_G08	Heavy chain variable region ("HC") amino acid sequence
Ab 202	3219		YFTSSYIH	ADI-18577 LAD3452_P02_G08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 202	3220		TACACCTTCACCAGCTCCTATATACAC	ADI-18577 LAD3452_P02_G08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 202	3221		WYIPGNVNTKYNEKFKG	ADI-18577 LAD3452_P02_G08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 202	3222		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18577 LAD3452_P02_G08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 202	3223		ARDYGYFDY	ADI-18577 LAD3452_P02_G08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 202	3224		GCTAGGGACTATGGTTACTACTTTGACTAC	ADI-18577 LAD3452_P02_G08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 202	3225	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18577 LAD3452_P02_G08	Light chain variable region ("LC") nucleic acid sequence
Ab 202	3226	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18577 LAD3452_P02_G08	Light chain variable region ("LC") amino acid sequence
Ab 202	3227	KSSQSLNLSRTRKNYLA	ADI-18577 LAD3452_P02_G08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 202	3228	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18577 LAD3452_P02_G08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 202	3229	WASTRES	ADI-18577 LAD3452_P02_G08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 202	3230	TGGGCATCTACCCGGGAATCC	ADI-18577 LAD3452_P02_G08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 202	3231	KQSYSLRT	ADI-18577 LAD3452_P02_G08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 202	3232	AAGCAATCTTATTCTGTGAGAACT	ADI-18577 LAD3452_P02_G08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 203	3233	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCTGGTAATGTTAACACAAAGTACAAACGAGAAGTT CAAGGGCAGAGTCAACCATGACCCGGGACAAAGTCCACGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCTAGGGACTACGGTTA TTACTTTGACTACTGGGGCCCAAGGAAACCCTGGTCAACCGT	ADI-18578 LAD3452_P02_C09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 203	3234	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQGLEWIGWIYPGNVNTKYNEKFKGRVTMTADKSTSTA YMEISSLRSEDTAVYVCARDYGYFDYWGGGLTVVSS	ADI-18578 LAD3452_P02_C09	Heavy chain variable region ("HC") amino acid sequence
Ab 203	3235		YFTSSYIH	ADI-18578 LAD3452_P02_C09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 203	3236		TACACCTTCACCAGCTCCTATATACAC	ADI-18578 LAD3452_P02_C09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 203	3237		WIYPGNVNTKYNEKFKG	ADI-18578 LAD3452_P02_C09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 203	3238		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18578 LAD3452_P02_C09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 203	3239		ARDYGYFDY	ADI-18578 LAD3452_P02_C09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 203	3240		GCTAGGGACTACGGTTATTACTTTGACTAC	ADI-18578 LAD3452_P02_C09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 203	3241	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18578 LAD3452_P02_C09	Light chain variable region ("LC") nucleic acid sequence
Ab 203	3242	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18578 LAD3452_P02_C09	Light chain variable region ("LC") amino acid sequence
Ab 203	3243	KSSQSLNLSRTRKNYLA	ADI-18578 LAD3452_P02_C09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 203	3244	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18578 LAD3452_P02_C09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 203	3245	WASTRES	ADI-18578 LAD3452_P02_C09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 203	3246	TGGGCATCTACCCGGGAATCC	ADI-18578 LAD3452_P02_C09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 203	3247	KQSYSLRT	ADI-18578 LAD3452_P02_C09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 203	3248	AAGCAATCTTATTCTCTGAGAACT	ADI-18578 LAD3452_P02_C09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 204	3249	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTAATGTTAACACAAAGTACAACGAGAAGTT CAAGGGCAGAGCCACCCTGACCCGGGACAAAGTCCACGA GCACAGCCTACATGCACCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGTAATACTACTGCGCGGAGGACTATGGCTA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGTACCCTG	ADI-18579 LAD3452_P02_E09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 204	3250	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWVRQA PGQGLEWIGWIYPGNVNTKYNEKFKGRATLTADKSTSTAY MHLSSLRSEDTAVYYCARDYGYFDYWGQGTLVTVSS	ADI-18579 LAD3452_P02_E09	Heavy chain variable region ("HC") amino acid sequence
Ab 204	3251		YFTSSYIH	ADI-18579 LAD3452_P02_E09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 204	3252		TACACCTTCACCAGCTCCTATATACAC	ADI-18579 LAD3452_P02_E09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 204	3253		WIYPGNVNTKYNEKFKG	ADI-18579 LAD3452_P02_E09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 204	3254		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18579 LAD3452_P02_E09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 204	3255		ARDYGYFDY	ADI-18579 LAD3452_P02_E09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 204	3256		GCGAGGGACTATGGCTACTACTTTGACTAC	ADI-18579 LAD3452_P02_E09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 204	3257	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18579 LAD3452_P02_E09	Light chain variable region ("LC") nucleic acid sequence
Ab 204	3258	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18579 LAD3452_P02_E09	Light chain variable region ("LC") amino acid sequence
Ab 204	3259	KSSQSLNLSRTRKNYLA	ADI-18579 LAD3452_P02_E09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 204	3260	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18579 LAD3452_P02_E09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 204	3261	WASTRES	ADI-18579 LAD3452_P02_E09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 204	3262	TGGGCATCTACCCGGGAATCC	ADI-18579 LAD3452_P02_E09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 204	3263	KQSYSLRT	ADI-18579 LAD3452_P02_E09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 204	3264	AAGCAATCTTATTCTCTGAGAACT	ADI-18579 LAD3452_P02_E09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 205	3265	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAAGGCTTGAGTGGATGGATGGAT CTACCTGGTAATGTTAACACAAAAGTACAACGAGAAGTT CAAGGGCAGAGTCAACCATACCAGGGGACACGTCCTCCGGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCTAGGGATTATGGCTA CTACTTTGACTACTGGGGCCAAAGGAAACCCTGGTACCCTG	ADI-18580 LAD3452_P02_B10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 205	3266	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQRLEWMGWYIPGNVNTKYNEKFKGRVTITRDTASTA YMEISSLRSEDTAVYVCARDYGYFDYWGGGTLTVSS	ADI-18580 LAD3452_P02_B10	Heavy chain variable region ("HC") amino acid sequence
Ab 205	3267		YFTSSYIH	ADI-18580 LAD3452_P02_B10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 205	3268		TACACCTTCACCAGCTCCTATATACAC	ADI-18580 LAD3452_P02_B10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 205	3269		WYIPGNVNTKYNEKFKG	ADI-18580 LAD3452_P02_B10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 205	3270		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18580 LAD3452_P02_B10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 205	3271		ARDYGYFDY	ADI-18580 LAD3452_P02_B10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 205	3272		GCTAGGGATTATGGCTACTACTTTGACTAC	ADI-18580 LAD3452_P02_B10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 205	3273	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18580 LAD3452_P02_B10	Light chain variable region ("LC") nucleic acid sequence
Ab 205	3274	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLQAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18580 LAD3452_P02_B10	Light chain variable region ("LC") amino acid sequence
Ab 205	3275	KSSQSLNLSRTRKNYLA	ADI-18580 LAD3452_P02_B10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 205	3276	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18580 LAD3452_P02_B10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 205	3277	WASTRES	ADI-18580 LAD3452_P02_B10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 205	3278	TGGGCATCTACCCGGGAATCC	ADI-18580 LAD3452_P02_B10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 205	3279	KQSYNLRIT	ADI-18580 LAD3452_P02_B10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 205	3280	AAGCAGAGTTACAATTTGAGAACT	ADI-18580 LAD3452_P02_B10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 206	3281	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTAATGTTAACACAAAGTACAACGAGAAGTT CAAGGGCAGAGCCACCCTGACCCGGGACAAAGTCCGCGA GCACAGCCTACATGCACCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGTAATACTACTGCGCGGAGACTACGGCTA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGGTACCCTG	ADI-18581 LAD3452_P02_F10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 206	3282	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWVRQA PGQGLEWIGWIYPGNVNTKYNEKFKGRATLTADKSASTAY MHLSSLRSEDTAVYYCARDYGYFDYWGQGLTVTVSS	ADI-18581 LAD3452_P02_F10	Heavy chain variable region ("HC") amino acid sequence
Ab 206	3283		YFTSSYIH	ADI-18581 LAD3452_P02_F10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 206	3284		TACACCTTCACCAGCTCCTATATACAC	ADI-18581 LAD3452_P02_F10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 206	3285		WIYPGNVNTKYNEKFKG	ADI-18581 LAD3452_P02_F10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 206	3286		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18581 LAD3452_P02_F10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 206	3287		ARDYGYFDY	ADI-18581 LAD3452_P02_F10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 206	3288		GCGAGAGACTACGGCTACTACTTTGACTAC	ADI-18581 LAD3452_P02_F10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 206	3289	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18581 LAD3452_P02_F10	Light chain variable region ("LC") nucleic acid sequence
Ab 206	3290	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18581 LAD3452_P02_F10	Light chain variable region ("LC") amino acid sequence
Ab 206	3291	KSSQSLNLSRTRKNYLA	ADI-18581 LAD3452_P02_F10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 206	3292	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18581 LAD3452_P02_F10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 206	3293	WASTRES	ADI-18581 LAD3452_P02_F10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 206	3294	TGGGCATCTACCCGGGAATCC	ADI-18581 LAD3452_P02_F10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 206	3295	KQSYNLRIT	ADI-18581 LAD3452_P02_F10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 206	3296	AAGCAGAGTTACAATTTGAGAACT	ADI-18581 LAD3452_P02_F10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 207	3297	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAAGGCTTGAGTGGATAGGATGGAT CTACCTGGTAATGTTAACACAAAAGTACAACGAGAAGTT CAAGGGCAGAGTCAACCATACCCGGGACAAAGTCCCGGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCGGAGGATACGGGATA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGTACCCTG	ADI-18582 LAD3452_P02_B11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 207	3298	CTCCTCA	QVQLVQSGAEVKKPGASVKVSKASGYTFTSSYIHWVRQA PGQRLEWIGWIYPGNVNTKYNEKFKGRVTITADKSASTAY MELSSLRSEDTAVYVCARDYGYFDYWGGQGLTVVSS	ADI-18582 LAD3452_P02_B11	Heavy chain variable region ("HC") amino acid sequence
Ab 207	3299		YFTSSYIH	ADI-18582 LAD3452_P02_B11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 207	3300		TACACCTTCACCAGCTCCTATATACAC	ADI-18582 LAD3452_P02_B11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 207	3301		WIYPGNVNTKYNEKFKG	ADI-18582 LAD3452_P02_B11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 207	3302		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18582 LAD3452_P02_B11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 207	3303		ARDYGYFDY	ADI-18582 LAD3452_P02_B11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 207	3304		GCGAGGGATTACGGATACTACTTTGACTAC	ADI-18582 LAD3452_P02_B11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 207	3305	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18582 LAD3452_P02_B11	Light chain variable region ("LC") nucleic acid sequence
Ab 207	3306	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18582 LAD3452_P02_B11	Light chain variable region ("LC") amino acid sequence
Ab 207	3307	KSSQSLNLSRTRKNYLA	ADI-18582 LAD3452_P02_B11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 207	3308	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18582 LAD3452_P02_B11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 207	3309	WASTRES	ADI-18582 LAD3452_P02_B11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 207	3310	TGGGCATCTACCCGGGAATCC	ADI-18582 LAD3452_P02_B11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 207	3311	KQSYNLRIT	ADI-18582 LAD3452_P02_B11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 207	3312	AAGCAGAGTTACAATTTGAGAACT	ADI-18582 LAD3452_P02_B11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 208	3313	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATGGATGGA TCTACCTGGTAAATGTTAACACAAAAGTACAACGAGAAGT TCAAGGGCAGAGTACCATGACCAGGGGACACGTCACCG AGCACAGTCTACATGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCTAGGGACTATGGTT ACTACTTTGACTACTGGGGCCAAAGAAACCTGGTCAACCG	ADI-18583 LAD3452_P02_E11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 208	3314	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQGLEWMGWYIPGNVNTKYNEKFKGRVTMTRDTSTST VYMIELSLRSEDTAVYVCARDYGYFDYWGGGTLVTVSS	ADI-18583 LAD3452_P02_E11	Heavy chain variable region ("HC") amino acid sequence
Ab 208	3315	YFTSSYIH	ADI-18583 LAD3452_P02_E11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 208	3316	TACACCTTCACCAGCTCCTATATACAC	ADI-18583 LAD3452_P02_E11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 208	3317	WYIPGNVNTKYNEKFKG	ADI-18583 LAD3452_P02_E11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 208	3318	TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18583 LAD3452_P02_E11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 208	3319	ARDYGYFDY	ADI-18583 LAD3452_P02_E11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 208	3320	GCTAGGGACTATGGTTACTACTTTGACTAC	ADI-18583 LAD3452_P02_E11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 208	3321	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18583 LAD3452_P02_E11	Light chain variable region ("LC") nucleic acid sequence
Ab 208	3322	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLOAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18583 LAD3452_P02_E11	Light chain variable region ("LC") amino acid sequence
Ab 208	3323	KSSQSLNLSRTRKNYLA	ADI-18583 LAD3452_P02_E11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 208	3324	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18583 LAD3452_P02_E11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 208	3325	WASTRES	ADI-18583 LAD3452_P02_E11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 208	3326	TGGGCATCTACCCGGGAATCC	ADI-18583 LAD3452_P02_E11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 208	3327	KQSYNLRIT	ADI-18583 LAD3452_P02_E11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 208	3328	AAGCAGAGTTACAATTTGAGAACT	ADI-18583 LAD3452_P02_E11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 209	3329	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTAATGTTAACACAAAGTACAACGAGAAGTT CAAGGGCAGAGTCAACCATGACCCGGGACAAAGTCCACGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCTAGGGACTACGGTTA TTACTTTGACTACTGGGGCCCAAGGAACCTGGTCAACCGT	ADI-18584 LAD3452_P02_C12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 209	3330	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQGLEWIGWIYPGNVNTKYNEKFKGRVTMTADKSTSTA YMEISSLRSEDTAVYVCARDYGYFDYWGGGTLTVSS	ADI-18584 LAD3452_P02_C12	Heavy chain variable region ("HC") amino acid sequence
Ab 209	3331		YFTSSYIH	ADI-18584 LAD3452_P02_C12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 209	3332		TACACCTTCACCAGCTCCTATATACAC	ADI-18584 LAD3452_P02_C12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 209	3333		WIYPGNVNTKYNEKFKG	ADI-18584 LAD3452_P02_C12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 209	3334		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18584 LAD3452_P02_C12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 209	3335		ARDYGYFDY	ADI-18584 LAD3452_P02_C12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 209	3336		GCTAGGGACTACGGTTATTACTTTGACTAC	ADI-18584 LAD3452_P02_C12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 209	3337	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTTAGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18584 LAD3452_P02_C12	Light chain variable region ("LC") nucleic acid sequence
Ab 209	3338	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYNLRFTFGGKVEIK	ADI-18584 LAD3452_P02_C12	Light chain variable region ("LC") amino acid sequence
Ab 209	3339	KSSQSLNLSRTRKNYLA	ADI-18584 LAD3452_P02_C12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 209	3340	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18584 LAD3452_P02_C12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 209	3341	WASTRES	ADI-18584 LAD3452_P02_C12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 209	3342	TGGGCATCTACCCGGGAATCC	ADI-18584 LAD3452_P02_C12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 209	3343	KQSYNLR	ADI-18584 LAD3452_P02_C12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 209	3344	AAGCAGAGTTACAATTTGAGAACT	ADI-18584 LAD3452_P02_C12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 210	3345	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCTGGTAATGTTAACACAAAGTACAACGAGAAGTT CAAGGGCAGAGCCACCCTGACCCGGGACAAAGTCCACGA GCACAGCCTACATGCACCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCGGAGGACTATGGCTA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGTACCCTG	ADI-18585 LAD3452_P02_H12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 210	3346	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWVRQA PGQGLEWIGWIYPGNVNTKYNEKFKGRATLTADKSTSTAY MHLSSLRSEDTAVYYCARDYGYFDYWGQGLTVVSS	ADI-18585 LAD3452_P02_H12	Heavy chain variable region ("HC") amino acid sequence
Ab 210	3347		YFTSSYIH	ADI-18585 LAD3452_P02_H12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 210	3348		TACACCTTCACCAGCTCCTATATACAC	ADI-18585 LAD3452_P02_H12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 210	3349		WIYPGNVNTKYNEKFKG	ADI-18585 LAD3452_P02_H12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 210	3350		TGGATCTACCCCTGGTAATGTTAACACAAAAGTACAACGAG AAGTTCAAGGGC	ADI-18585 LAD3452_P02_H12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 210	3351		ARDYGYFDY	ADI-18585 LAD3452_P02_H12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 210	3352		GCGAGGGACTATGGCTACTACTTTGACTAC	ADI-18585 LAD3452_P02_H12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 210	3353	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18585 LAD3452_P02_H12	Light chain variable region ("LC") nucleic acid sequence
Ab 210	3354	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18585 LAD3452_P02_H12	Light chain variable region ("LC") amino acid sequence
Ab 210	3355	KSSQSLNLSRTRKNYLA	ADI-18585 LAD3452_P02_H12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 210	3356	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18585 LAD3452_P02_H12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 210	3357	WASTRES	ADI-18585 LAD3452_P02_H12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 210	3358	TGGGCATCTACCCGGGAATCC	ADI-18585 LAD3452_P02_H12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 210	3359	KQSYNLRIT	ADI-18585 LAD3452_P02_H12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 210	3360	AAGCAGAGTTACAATTTGAGAACT	ADI-18585 LAD3452_P02_H12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 211	3361	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAGGGCTTGAGTGGATGGATGG ATCGACCTGAAAATGGTAACAAATCTACGACCCGAA GTTCCAGGGCAGAGTCAACCATGACCCAGGGACACGTCCA CGAGCACAGTCTACATGGAGCTGAGCAGCCTGAGATCT GAGGACACGGCGGTGTACTACTGCGCTAGAGACGGATA TGCAAGGTATTACTTTGACTACTGGGCCAAGGAACCTT	ADI-18586 LAD3453_P02_D01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 211	3362	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQGLEWMGWIDPENGNTIYDPKFGQGRVTMTRDTST STVYMELSSLRSEDTAVYICARDGYARYYFDYWGGQGLVT VSS	ADI-18586 LAD3453_P02_D01	Heavy chain variable region ("HC") amino acid sequence
Ab 211	3363	FNIKDYMH		ADI-18586 LAD3453_P02_D01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 211	3364	TTCAACATCAAGGACTACTATATGCAC		ADI-18586 LAD3453_P02_D01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 211	3365	WIDPENGNTIYDPKFGQ		ADI-18586 LAD3453_P02_D01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 211	3366	TGGATCGACCCTGAAAATGGTAACACAATCTACGACCCG AAGTTCCAGGGC		ADI-18586 LAD3453_P02_D01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 211	3367	ARDGYARYYFDY		ADI-18586 LAD3453_P02_D01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 211	3368	GCTAGAGACGGATATGCAAGGTATTACTTTGACTAC		ADI-18586 LAD3453_P02_D01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 211	3369	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCTGAGAACTTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18586 LAD3453_P02_D01	Light chain variable region ("LC") nucleic acid sequence
Ab 211	3370	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18586 LAD3453_P02_D01	Light chain variable region ("LC") amino acid sequence
Ab 211	3371	KSSQSLNLSRTRKNYLA	ADI-18586 LAD3453_P02_D01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 211	3372	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18586 LAD3453_P02_D01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 211	3373	WASTRES	ADI-18586 LAD3453_P02_D01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 211	3374	TGGGCATCTACCCGGGAATCC	ADI-18586 LAD3453_P02_D01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 211	3375	KQSYSLRT	ADI-18586 LAD3453_P02_D01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 211	3376	AAGCAATCTTATTCTCTGAGAACT	ADI-18586 LAD3453_P02_D01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 212	3377	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAGGGCTTGAGTGGATAGGATGG ATCGACCTGAAAATGGTAACAAATCTACGACCCGAA GTTCCAGGGCAGAGTCACCATGACCCGGGACACGTCCA CGAGCACGCTACATGGAGCTGAGCAGCCTGAGATCT GAGGACAGCGCGGTGACTACTGCGCGAGGGACGGTT ATGCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCC	ADI-18587 LAD3453_P02_E01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 212	3378	TGGTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQGLEWIGWIDPENGNTIYDPKFKQGRVTMTADTSTS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGGLTVT SS	ADI-18587 LAD3453_P02_E01	Heavy chain variable region ("HC") amino acid sequence
Ab 212	3379	FNIKDYMH		ADI-18587 LAD3453_P02_E01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 212	3380	TTCAACATCAAGGACTACTATATGCAC		ADI-18587 LAD3453_P02_E01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 212	3381	WIDPENGNTIYDPKFKQG		ADI-18587 LAD3453_P02_E01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 212	3382	TGGATCGACCCTGAAAATGGTAACACAATCTACGACCCG AAGTCCAGGGC		ADI-18587 LAD3453_P02_E01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 212	3383	ARDGYARYYFDY		ADI-18587 LAD3453_P02_E01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 212	3384	GCGAGGGACGGTTATGCTAGATATTACTTTGACTAC		ADI-18587 LAD3453_P02_E01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 212	3385	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAGCAATCTTATTCTGAGAACTTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18587 LAD3453_P02_E01	Light chain variable region ("LC") nucleic acid sequence
Ab 212	3386	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18587 LAD3453_P02_E01	Light chain variable region ("LC") amino acid sequence
Ab 212	3387	KSSQSLNLSRTRKNYLA	ADI-18587 LAD3453_P02_E01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 212	3388	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18587 LAD3453_P02_E01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 212	3389	WASTRES	ADI-18587 LAD3453_P02_E01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 212	3390	TGGGCATCTACCCGGGAATCC	ADI-18587 LAD3453_P02_E01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 212	3391	KQSYSLRT	ADI-18587 LAD3453_P02_E01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 212	3392	AAGCAATCTTATTCTGTGAGAACT	ADI-18587 LAD3453_P02_E01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 213	3393	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAGGGCTTGAGTGGATAGGATGG ATCGACCTGAAAATGGTAACAAATCTACGACCCGAA GTTCCAGGGCAGAGCCACCATAACCCGGGACACGTCCA CGAACACAGCCTACATGGAGCTGAGCAGCCTGAGATCT GAGGACACGGCGGTGACTACTGCGCCAGAGATGGTTA TGCCAGATACTATTGACTACTGGGGCCCAAGGAACCTT	ADI-18588 LAD3453_P02_B02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 213	3394	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQGLEWIGWIDPENGNTIYDPKFKGRATITADTSTNT AYMIELSRSEDTAVYCARDGYARYYFDYWGQGLTVTS S	ADI-18588 LAD3453_P02_B02	Heavy chain variable region ("HC") amino acid sequence
Ab 213	3395	FNIKDYMH		ADI-18588 LAD3453_P02_B02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 213	3396	TTCAACATCAAGGACTACTATATGCAC		ADI-18588 LAD3453_P02_B02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 213	3397	WIDPENGNTIYDPKFKQG		ADI-18588 LAD3453_P02_B02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 213	3398	TGGATCGACCCTGAAAATGGTAACACAATCTACGACCCG AAGTCCAGGGC		ADI-18588 LAD3453_P02_B02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 213	3399	ARDGYARYYFDY		ADI-18588 LAD3453_P02_B02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 213	3400	GCCAGAGATGGTTATGCCAGATACTACTTTGACTAC		ADI-18588 LAD3453_P02_B02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 213	3401	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCTGAGAACTTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18588 LAD3453_P02_B02	Light chain variable region ("LC") nucleic acid sequence
Ab 213	3402	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18588 LAD3453_P02_B02	Light chain variable region ("LC") amino acid sequence
Ab 213	3403	KSSQSLNLSRTRKNYLA	ADI-18588 LAD3453_P02_B02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 213	3404	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18588 LAD3453_P02_B02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 213	3405	WASTRES	ADI-18588 LAD3453_P02_B02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 213	3406	TGGGCATCTACCCGGGAATCC	ADI-18588 LAD3453_P02_B02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 213	3407	KQSYSLRT	ADI-18588 LAD3453_P02_B02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 213	3408	AAGCAATCTTATTCTCTGAGAACT	ADI-18588 LAD3453_P02_B02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 214	3409	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTGAAAATGGTAACACAACTATGACCCGAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-18589 LAD3453_P02_E02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 214	3410	3410	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDPENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGGTLVTY SS	ADI-18589 LAD3453_P02_E02	Heavy chain variable region ("HC") amino acid sequence
Ab 214	3411	3411	FNIKDYMH		ADI-18589 LAD3453_P02_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 214	3412	3412	TTCAACATCAAGGACTACTATATGCAC		ADI-18589 LAD3453_P02_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 214	3413	3413	WIDPENGNTIYDPKFKQG		ADI-18589 LAD3453_P02_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 214	3414	3414	TGGATCGACCCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-18589 LAD3453_P02_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 214	3415	3415	ARDGYARYYFDY		ADI-18589 LAD3453_P02_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 214	3416	3416	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC		ADI-18589 LAD3453_P02_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 214	3417	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18589 LAD3453_P02_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 214	3418	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18589 LAD3453_P02_E02	Light chain variable region ("LC") amino acid sequence
Ab 214	3419	KSSQSLNLSRTRKNYLA	ADI-18589 LAD3453_P02_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 214	3420	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18589 LAD3453_P02_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 214	3421	WASTRES	ADI-18589 LAD3453_P02_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 214	3422	TGGGCATCTACCCGGGAATCC	ADI-18589 LAD3453_P02_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 214	3423	KQSYSLRT	ADI-18589 LAD3453_P02_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 214	3424	AAGCAATCTTATTCTCTGAGAACT	ADI-18589 LAD3453_P02_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 215	3425	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGA TCGACCCCTGAAAATGTAACACAACTATGACCCGAAGT TTCAGGGCAGGTCACCAATAACCGCGGACACGTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCTAGAGACGGTTACG CCAGATATTACTTTGACTACTGGGGCCCAAGAAACCTGG	ADI-18590 LAD3453_P02_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 215	3426	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWIGWIDPENGNITIDPKFQGRVTTTADTSAST AYMIELSLRSEDTAVYVCARDGYARYYFDYWGQGLTVTS S	ADI-18590 LAD3453_P02_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 215	3427	FNIKDYMH		ADI-18590 LAD3453_P02_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 215	3428	TTCAACATCAAGGACTACTATATGCAC		ADI-18590 LAD3453_P02_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 215	3429	WIDPENGNITIDPKFQG		ADI-18590 LAD3453_P02_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 215	3430	TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-18590 LAD3453_P02_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 215	3431	ARDGYARYYFDY		ADI-18590 LAD3453_P02_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 215	3432	GCTAGAGACGGTTACGCCAGATATTACTTTGACTAC		ADI-18590 LAD3453_P02_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 215	3433	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18590 LAD3453_P02_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 215	3434	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18590 LAD3453_P02_A03	Light chain variable region ("LC") amino acid sequence
Ab 215	3435	KSSQSLNLSRTRKNYLA	ADI-18590 LAD3453_P02_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 215	3436	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18590 LAD3453_P02_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 215	3437	WASTRES	ADI-18590 LAD3453_P02_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 215	3438	TGGGCATCTACCCGGGAATCC	ADI-18590 LAD3453_P02_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 215	3439	KQSYSLRT	ADI-18590 LAD3453_P02_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 215	3440	AAGCAATCTTATTCTCTGAGAACT	ADI-18590 LAD3453_P02_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 216	3441	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGA TCGACCCCTGAAAATGTAACACAACTATGACCCGAAAGT TTCAGGGCAGGGCCACCATAACCCGGGACACGTCCTCGCC AACACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGACGGATACG CGAGATACTACTTACTACTGCGGGCCAAAGGAACCCCTG	ADI-18591 LAD3453_P02_E03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 216	3442	3442	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWIGWIDPENGNITIDPKFQGRATTTADTSANT AYMIELSSLRSEDTAVYVCARDGYARYYFDYWGQGLTVTS S	ADI-18591 LAD3453_P02_E03	Heavy chain variable region ("HC") amino acid sequence
Ab 216	3443	3443	FNIKDYMH	ADI-18591 LAD3453_P02_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 216	3444	3444	TTCAACATCAAGGACTACTATATGCAC	ADI-18591 LAD3453_P02_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 216	3445	3445	WIDPENGNITIDPKFQG	ADI-18591 LAD3453_P02_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 216	3446	3446	TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-18591 LAD3453_P02_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 216	3447	3447	ARDGYARYYFDY	ADI-18591 LAD3453_P02_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 216	3448	3448	GCGAGAGACGGATACGCGAGATACTACTTTGACTAC	ADI-18591 LAD3453_P02_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
			GTCACCGTCTCCTCA		

Ab 216	3449	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCAAGTGGCAGGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18591 LAD3453_P02_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 216	3450	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-18591 LAD3453_P02_E03	Light chain variable region ("LC") amino acid sequence
Ab 216	3451	KSSQSLNLSRTRKNYLA	ADI-18591 LAD3453_P02_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 216	3452	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18591 LAD3453_P02_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 216	3453	WASTRES	ADI-18591 LAD3453_P02_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 216	3454	TGGGCATCTACCCGGGAATCC	ADI-18591 LAD3453_P02_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 216	3455	KQSYSLRT	ADI-18591 LAD3453_P02_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 216	3456	AAGCAATCTTATTCTCTGAGAACT	ADI-18591 LAD3453_P02_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 217	3457	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAGGGCTTGAGTGGATGGATGG ATCGACCTGAAAATGGAACAAATCTACGACCCGAA GTTCCAGGGCAGAGTCAACCATGACCCAGGGACACGTCCA CGAGCACAGTCTACATGGAGCTGAGCAGCCTGAGATCT GAGGACACGGCGGTGTACTACTGCGCTAGAGACGGATA TGCAAGGTATTACTTTGACTACTGGGCCCAAGGAACCTT	ADI-18592 LAD3453_P02_B04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 217	3458	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQGLEWMGWIDPENGNTIYDPKFKQGRVTMTRDTST STVYMELSSLRSEDTAVYICARDGYARYYFDYWGGQGLVT VSS	ADI-18592 LAD3453_P02_B04	Heavy chain variable region ("HC") amino acid sequence
Ab 217	3459	FNIKDYMH		ADI-18592 LAD3453_P02_B04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 217	3460	TTCAACATCAAGGACTACTATATGCAC		ADI-18592 LAD3453_P02_B04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 217	3461	WIDPENGNTIYDPKFKQG		ADI-18592 LAD3453_P02_B04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 217	3462	TGGATCGACCCTGAAAATGGTAACACAATCTACGACCCG AAGTTCCAGGGC		ADI-18592 LAD3453_P02_B04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 217	3463	ARDGYARYYFDY		ADI-18592 LAD3453_P02_B04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 217	3464	GCTAGAGACGGATATGCAAGGTATTACTTTGACTAC		ADI-18592 LAD3453_P02_B04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 217	3465	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18592 LAD3453_P02_B04	Light chain variable region ("LC") nucleic acid sequence
Ab 217	3466	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18592 LAD3453_P02_B04	Light chain variable region ("LC") amino acid sequence
Ab 217	3467	KSSQSLNLSRTRKNYLA	ADI-18592 LAD3453_P02_B04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 217	3468	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18592 LAD3453_P02_B04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 217	3469	WASTRES	ADI-18592 LAD3453_P02_B04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 217	3470	TGGGCATCTACCCGGGAATCC	ADI-18592 LAD3453_P02_B04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 217	3471	KQSYNLRIT	ADI-18592 LAD3453_P02_B04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 217	3472	AAGCAGAGTTACAATTTGAGAACT	ADI-18592 LAD3453_P02_B04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 218	3473	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTCTGCAAGGCATCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAGGGCTTGAGTGGATAGGATGG ATCGACCTGAAAATGGTAACAAATCTACGACCCGAA GTTCCAGGGCAGAGCCACCATAACCCGGGACACGTCCA CGAACACAGCCTACATGGAGCTGAGCAGCCTGAGATCT GAGGACACGGCGGTGACTACTGCGCCAGAGATGGTTA TGCCAGATACTACTTTGACTACTGGGGCCCAAGGAACCTT	ADI-18593 LAD3453_P02_C05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 218	3474	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQGLEWIGWIDPENGNTIYDPKFKGRATITADTSTNT AYMIELSLRSEDTAVYVCARDGYARYYFDYWGGGTLVTVS S	ADI-18593 LAD3453_P02_C05	Heavy chain variable region ("HC") amino acid sequence
Ab 218	3475	FNIKDYMH		ADI-18593 LAD3453_P02_C05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 218	3476	TTCAACATCAAGGACTACTATATGCAC		ADI-18593 LAD3453_P02_C05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 218	3477	WIDPENGNTIYDPKFKQG		ADI-18593 LAD3453_P02_C05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 218	3478	TGGATCGACCCTGAAAATGGTAACACAATCTACGACCCG AAGTCCAGGGC		ADI-18593 LAD3453_P02_C05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 218	3479	ARDGYARYYFDY		ADI-18593 LAD3453_P02_C05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 218	3480	GCCAGAGATGGTTATGCCAGATACTACTTTGACTAC		ADI-18593 LAD3453_P02_C05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 218	3481	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18593 LAD3453_P02_C05	Light chain variable region ("LC") nucleic acid sequence
Ab 218	3482	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLOAEDVAVYYCKQSYNLRFTFGGKVEIK	ADI-18593 LAD3453_P02_C05	Light chain variable region ("LC") amino acid sequence
Ab 218	3483	KSSQSLNLSRTRKNYLA	ADI-18593 LAD3453_P02_C05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 218	3484	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18593 LAD3453_P02_C05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 218	3485	WASTRES	ADI-18593 LAD3453_P02_C05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 218	3486	TGGGCATCTACCCGGGAATCC	ADI-18593 LAD3453_P02_C05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 218	3487	KQSYNLR	ADI-18593 LAD3453_P02_C05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 218	3488	AAGCAGAGTTACAATTTGAGAACT	ADI-18593 LAD3453_P02_C05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 219	3489	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAAGTGGATGGATGG ATCGACCTGAAAATGGTAACACAACTATGACCCGAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-18594 LAD3453_P02_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 219	3490	<p>GTCACCGTCTCTCA</p> <p>QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGWDPENGNTIYDPKFKQGRVTTRDTSAS TAYMELSSLRSEDVAVYCARDGYARYYFDYWGGGTLVTY SS</p>	<p>ADI-18594 LAD3453_P02_E05</p>	Heavy chain variable region ("HC") amino acid sequence
Ab 219	3491	<p>FNIKDYMH</p>	<p>ADI-18594 LAD3453_P02_E05</p>	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 219	3492	<p>TTCAACATCAAGGACTACTATATGCAC</p>	<p>ADI-18594 LAD3453_P02_E05</p>	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 219	3493	<p>WIDPENGTIYDPKFKQG</p>	<p>ADI-18594 LAD3453_P02_E05</p>	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 219	3494	<p>TGGATCGACCCTGAAAATGGTAAACACAATCTATGACCCG AAGTTTCAGGGC</p>	<p>ADI-18594 LAD3453_P02_E05</p>	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 219	3495	<p>ARDGYARYYFDY</p>	<p>ADI-18594 LAD3453_P02_E05</p>	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 219	3496	<p>GCGAGAGATGGATACGCTAGATATTACTTTGACTAC</p>	<p>ADI-18594 LAD3453_P02_E05</p>	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 219	3497	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGTGGTCTGGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18594 LAD3453_P02_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 219	3498	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18594 LAD3453_P02_E05	Light chain variable region ("LC") amino acid sequence
Ab 219	3499	KSSQSLNLSRTRKNYLA	ADI-18594 LAD3453_P02_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 219	3500	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18594 LAD3453_P02_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 219	3501	WASTRES	ADI-18594 LAD3453_P02_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 219	3502	TGGGCATCTACCCGGGAATCC	ADI-18594 LAD3453_P02_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 219	3503	KQSYNLRIT	ADI-18594 LAD3453_P02_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 219	3504	AAGCAGAGTTACAATTTGAGAACT	ADI-18594 LAD3453_P02_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 220	3505	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGA TCGACCCCTGAAAATGGTAACACAACTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCGGGACACGTCCTCCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGGTGTACTACTGCGCTAGAGACGGTTACG CCAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGG	ADI-18595 LAD3453_P02_D06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 220	3506	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWIGWIDPENGNITIDPKFQGRVTTTADTSAST AYMIELSLRSEDTAVYVCARDGYARYYFDYWGQGLTVTS S	ADI-18595 LAD3453_P02_D06	Heavy chain variable region ("HC") amino acid sequence
Ab 220	3507	FNIKDYMH		ADI-18595 LAD3453_P02_D06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 220	3508	TTCAACATCAAGGACTACTATATGCAC		ADI-18595 LAD3453_P02_D06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 220	3509	WIDPENGNITIDPKFQG		ADI-18595 LAD3453_P02_D06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 220	3510	TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-18595 LAD3453_P02_D06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 220	3511	ARDGYARYYFDY		ADI-18595 LAD3453_P02_D06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 220	3512	GCTAGAGACGGTTACGCCAGATATTACTTTGACTAC		ADI-18595 LAD3453_P02_D06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 220	3513	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18595 LAD3453_P02_D06	Light chain variable region ("LC") nucleic acid sequence
Ab 220	3514	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYNLRFTGGGKVEIK	ADI-18595 LAD3453_P02_D06	Light chain variable region ("LC") amino acid sequence
Ab 220	3515	KSSQSLNLSRTRKNYLA	ADI-18595 LAD3453_P02_D06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 220	3516	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18595 LAD3453_P02_D06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 220	3517	WASTRES	ADI-18595 LAD3453_P02_D06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 220	3518	TGGGCATCTACCCGGGAATCC	ADI-18595 LAD3453_P02_D06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 220	3519	KQSYNLR	ADI-18595 LAD3453_P02_D06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 220	3520	AAGCAGAGTTACAATTTGAGAACT	ADI-18595 LAD3453_P02_D06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 221	3521	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGA TCGACCCCTGAAAATGTTAACACAACTATGACCCGAAGT TTCAGGGCAGGGCCACCATAACCCGGGACACGTCCTCGCC AACACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGACGGATACG CGAGATACTACTTTGACTACTGGGGCCAAAGGAACCCCTG	ADI-18596 LAD3453_P02_F06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 221	3522	3522	<p>GTCACCGTCTCCTCA</p> <p>QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWIGWIDPENGNITIDPKFQGRATTTADTSANT AYMIELSLRSEDTAVVYCARDGYARYYFDYWGQGLTVTS S</p>	ADI-18596 LAD3453_P02_F06	Heavy chain variable region ("HC") amino acid sequence
Ab 221	3523	3523	<p>FNIKDYMH</p>	ADI-18596 LAD3453_P02_F06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 221	3524	3524	<p>TTCAACATCAAGGACTACTATATGCAC</p>	ADI-18596 LAD3453_P02_F06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 221	3525	3525	<p>WIDPENGNITIDPKFQG</p>	ADI-18596 LAD3453_P02_F06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 221	3526	3526	<p>TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC</p>	ADI-18596 LAD3453_P02_F06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 221	3527	3527	<p>ARDGYARYYFDY</p>	ADI-18596 LAD3453_P02_F06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 221	3528	3528	<p>GCGAGAGACGGATACGCGAGATACTACTTTGACTAC</p>	ADI-18596 LAD3453_P02_F06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 221	3529	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18596 LAD3453_P02_F06	Light chain variable region ("LC") nucleic acid sequence
Ab 221	3530	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18596 LAD3453_P02_F06	Light chain variable region ("LC") amino acid sequence
Ab 221	3531	KSSQSLNLSRTRKNYLA	ADI-18596 LAD3453_P02_F06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 221	3532	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18596 LAD3453_P02_F06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 221	3533	WASTRES	ADI-18596 LAD3453_P02_F06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 221	3534	TGGGCATCTACCCGGGAATCC	ADI-18596 LAD3453_P02_F06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 221	3535	KQSYNLRIT	ADI-18596 LAD3453_P02_F06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 221	3536	AAGCAGAGTTACAATTTGAGAACT	ADI-18596 LAD3453_P02_F06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 222	3537	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTCTGCAAGGCATCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAGGGCTTGAGTGGATAGGATGG ATCGACCTGAAAATGGTAACAAATCTACGACCCGAA GTTCCAGGGCAGAGTCAACCATGACCCGGGACACGTCCA CGAGCACGCTACATGGAGCTGAGCAGCCTGAGATCT GAGGACAGCGCGGTGACTACTGCGCGAGGGACGGTT ATGCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCC	ADI-18597 LAD3453_P03_B03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 222	3538	TGGTCAACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQGLEWIGWIDPENGNTIYDPKFKGRVTMTADTSTS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGGLTVT SS	ADI-18597 LAD3453_P03_B03	Heavy chain variable region ("HC") amino acid sequence
Ab 222	3539	FNIKDYMH		ADI-18597 LAD3453_P03_B03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 222	3540	TTCAACATCAAGGACTACTATATGCAC		ADI-18597 LAD3453_P03_B03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 222	3541	WIDPENGNTIYDPKFKQG		ADI-18597 LAD3453_P03_B03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 222	3542	TGGATCGACCCTGAAAATGGTAACACAATCTACGACCCG AAGTCCAGGGC		ADI-18597 LAD3453_P03_B03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 222	3543	ARDGYARYYFDY		ADI-18597 LAD3453_P03_B03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 222	3544	GCGAGGGACGGTTATGCTAGATATTACTTTGACTAC		ADI-18597 LAD3453_P03_B03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 222	3545	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAGAGTTACAATTTGAGAACTTT CGGCGGAGGGACCAAGGTGGAGATCAAA	ADI-18597 LAD3453_P03_B03	Light chain variable region ("LC") nucleic acid sequence
Ab 222	3546	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYNLRITFGGGTKVEIK	ADI-18597 LAD3453_P03_B03	Light chain variable region ("LC") amino acid sequence
Ab 222	3547	KSSQSLNLSRTRKNYLA	ADI-18597 LAD3453_P03_B03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 222	3548	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-18597 LAD3453_P03_B03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 222	3549	WASTRES	ADI-18597 LAD3453_P03_B03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 222	3550	TGGGCATCTACCCGGGAATCC	ADI-18597 LAD3453_P03_B03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 222	3551	KQSYNLRIT	ADI-18597 LAD3453_P03_B03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 222	3552	AAGCAGAGTTACAATTTGAGAACT	ADI-18597 LAD3453_P03_B03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 223	3553	CAGGTCCAGCTGTACAGTCTGGGGCTGAGGTGAAGAA GCCTGGGCTCAGTGAAGATTTCTGCAAGGCTTCGG GATACCCCTTCAGTTCCTATCTATGCAATGGGTGCGCC AGCCCCGGACAAAGGCTTGAGTGGATGGGATGGATC AACGTTGACAAATGAGAACACAAAATATTCATGGAAGTTC CGGGCAGAGTCAACCATTAACAGGGACACATCCGCGGAG CACAGTTTACATGGAGCTGAGCAGTCTGATATCTGAAGA CACGGCTGTATTACTGTGGGAGAGACTGGGACGGG GCGATCCGTGCTTGGACTACTGGGGCCAGGGAAACCTT	ADI-18965 SAD4931_P05_F07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 223	3554	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKISCKASGYPFSSYPMIHWVRQ APQRLEWMGWINDNENTKYSWKFRGRVTITRDTAS TVYMESSLISEDTAVYCYGRDWDGAIKRVLDYWGQGLVT VSS	ADI-18965 SAD4931_P05_F07	Heavy chain variable region ("HC") amino acid sequence
Ab 223	3555	YPFSSYPMH		ADI-18965 SAD4931_P05_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 223	3556	TACCCCTTCAGTTCCTATCCTATGCAT		ADI-18965 SAD4931_P05_F07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 223	3557	WINVDNENTKYSWKFRG		ADI-18965 SAD4931_P05_F07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 223	3558	TGGATCAACGTTGACAATGAGAACACAAAAATATTCATG GAAGTCCGGGGC		ADI-18965 SAD4931_P05_F07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 223	3559	GRDWDGAIKRVLDY		ADI-18965 SAD4931_P05_F07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 223	3560	GGGAGAGACTGGGACGGGGCGGATCCGTGTCTTGGACT AC		ADI-18965 SAD4931_P05_F07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 223	3561	GATATTGTGATGACTCAGACTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCACCTGCAAGTCCAG CCAGAGTGTTTATTTCAGCTCCGACAATAAGAACTACTT AGCTTGGTACCAGCAGAAACCGGGACAGCCTCCTAAAT TGCTCAATTTACTGGGCATCTATCCGGGAATCCGGGGTCC CTGACCGATTCCGTGGCAGCGGGTCTGGACACATTC ACTCTACCATCACCAGCGTGCAGGCTGCAGATGTGGCA GTTTATTACTGTCAGCAATATTATGGTAATTTCCCCACCT TCGGCCAAGGGACACGACTGGAGATTA	ADI-18965 SAD4931_P05_F07	Light chain variable region ("LC") nucleic acid sequence
Ab 223	3562	DIVMTQTPDSLAVSLGERATITCKSSQVLFSSDNKNYLAW YQKPGQPPLIYWASIRESGVDRFGGSGGTHFTLIT SVQAADVAVYCCQYGNFPTFGQGTLEIK	ADI-18965 SAD4931_P05_F07	Light chain variable region ("LC") amino acid sequence
Ab 223	3563	KSSQVLFSSDNKNYLA	ADI-18965 SAD4931_P05_F07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 223	3564	AAGTCCAGCCAGAGTGTTTATTTCAGCTCCGACAAATAAG AACTACTTAGCT	ADI-18965 SAD4931_P05_F07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 223	3565	WASIRES	ADI-18965 SAD4931_P05_F07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 223	3566	TGGGCATCTATCCGGGAATCC	ADI-18965 SAD4931_P05_F07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 223	3567	QQYYGNFPT	ADI-18965 SAD4931_P05_F07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 223	3568	CAGCAATATTATGGTAATTTCCCCACC	ADI-18965 SAD4931_P05_F07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 224	3569	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGGATACG CTAGATATTACTTTGACTACTGGGGCCAAAGGAAACCTGG	ADI-20564 SAD5574_P03_C02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 224	3570	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20564 SAD5574_P03_C02	Heavy chain variable region ("HC") amino acid sequence
Ab 224	3571	FNIKDYMH		ADI-20564 SAD5574_P03_C02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 224	3572	TTCAACATCAAGGACTACTATATGCAC		ADI-20564 SAD5574_P03_C02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 224	3573	WIDLENGNTIYDPKFKQG		ADI-20564 SAD5574_P03_C02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 224	3574	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-20564 SAD5574_P03_C02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 224	3575	ARDGYARYYFDY		ADI-20564 SAD5574_P03_C02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 224	3576	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC		ADI-20564 SAD5574_P03_C02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 224	3577	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTTTCGGAGAGCTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20564 SAD5574_P03_C02	Light chain variable region ("LC") nucleic acid sequence
Ab 224	3578	DIVMTQSPDSLAVSLGERATINCKSSQSLNRSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYFRRAFVGGGKVEIK	ADI-20564 SAD5574_P03_C02	Light chain variable region ("LC") amino acid sequence
Ab 224	3579	KSSQSLNRSRTRKNYLA	ADI-20564 SAD5574_P03_C02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 224	3580	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20564 SAD5574_P03_C02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 224	3581	WASTRES	ADI-20564 SAD5574_P03_C02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 224	3582	TGGGCATCTACCCGGGAATCC	ADI-20564 SAD5574_P03_C02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 224	3583	KQSYFRRA	ADI-20564 SAD5574_P03_C02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 224	3584	AAGCAATCTTATTTTCGGAGAGCT	ADI-20564 SAD5574_P03_C02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 225	3585	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCCGGGCCTCAGTGAAGGCTCTCCTGCAAGGCTTCT GGATTCAACACCAAGACTACTATATGCACTGGGTGCG ACAGGCCCCGGCAAAGGCTTGAAGTGGATGGGATGG ATCGGCCCTGAAAATGGTAAACAATCTATGACCCGAA GTTTCAGGGCAGGGTCAACCAATACCAAGGACACGTCGG CCAGCACAGCCTACATGGAGCTGAGCAGCCTGAGGTCT GAAGACACGGCGGTGACTACTGCGCGGAGGGATGGAT ACGCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCC	ADI-20565 SAD5574_P03_C06	Heavy chain variable region ("HC") nucleic acid sequence

		TGGTCAACCGTCTCCTCA			
Ab 225	3586	QVQLVQSGAEVKKPGASVKVSCKASGFNTKDYMHWVR QAPGQRLEWMGWIGPENGTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGGLTVT SS	ADI-20565 SAD5574_P03_C06	Heavy chain variable region ("HC") amino acid sequence	
Ab 225	3587	FNTKDYMH	ADI-20565 SAD5574_P03_C06	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 225	3588	TTCAACACCAAGGACTACTATATGCAC	ADI-20565 SAD5574_P03_C06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 225	3589	WIGPENGTIYDPKFKQG	ADI-20565 SAD5574_P03_C06	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 225	3590	TGGATCGGCCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-20565 SAD5574_P03_C06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 225	3591	ARDGYARYYFDY	ADI-20565 SAD5574_P03_C06	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 225	3592	GCGAGGGATGGATACGCTAGATATTACTTTGACTAC	ADI-20565 SAD5574_P03_C06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 225	3593	GACATCGTAATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAGGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20565 SAD5574_P03_C06	Light chain variable region ("LC") nucleic acid sequence
Ab 225	3594	DIVMTQSPDSLAVSLGERATINCRSSQSLNRSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20565 SAD5574_P03_C06	Light chain variable region ("LC") amino acid sequence
Ab 225	3595	RSSQSLNRSRTRKNYLA	ADI-20565 SAD5574_P03_C06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 225	3596	AGGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20565 SAD5574_P03_C06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 225	3597	WASTRES	ADI-20565 SAD5574_P03_C06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 225	3598	TGGGCATCTACCCGGGAATCC	ADI-20565 SAD5574_P03_C06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 225	3599	KQSYSRRT	ADI-20565 SAD5574_P03_C06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 225	3600	AAGCAATCTTATTCTCGGAGAACT	ADI-20565 SAD5574_P03_C06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 226	3601	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGAAAATGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCTACATGGAGCTGAGCAGCCTGAGATCCG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTTG	ADI-20566 SAD5574_P03_G09	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 226	3602	QVQLVQSGAEVKKPGASVKVSCKASGKFNKDYMHWR QAPGQRLEWMGIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20566 SAD5574_P03_G09	Heavy chain variable region ("HC") amino acid sequence		
Ab 226	3603	FNIKDYMH	ADI-20566 SAD5574_P03_G09	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 226	3604	TTCAACATCAAGGACTACTATATGCAC	ADI-20566 SAD5574_P03_G09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 226	3605	WIDLENGNTIYDPKFKQ	ADI-20566 SAD5574_P03_G09	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 226	3606	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAATTCAGGGC	ADI-20566 SAD5574_P03_G09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 226	3607	ARDGYARYYFDY	ADI-20566 SAD5574_P03_G09	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 226	3608	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20566 SAD5574_P03_G09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 226	3609	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGACTGGACAGATTTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20566 SAD5574_P03_G09	Light chain variable region ("LC") nucleic acid sequence
Ab 226	3610	DIVMTQSPDSLAVSLGERATINCKSSQSLNLRTRKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGGTGDFLTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-20566 SAD5574_P03_G09	Light chain variable region ("LC") amino acid sequence
Ab 226	3611	KSSQSLNLRTRKNYLA	ADI-20566 SAD5574_P03_G09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 226	3612	AAGTCCAGCCAGAGTCTTTAAACGGCAGAACCAAGAA GAACTACTTAGCT	ADI-20566 SAD5574_P03_G09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 226	3613	WASTRES	ADI-20566 SAD5574_P03_G09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 226	3614	TGGGCATCTACCCGGGAATCC	ADI-20566 SAD5574_P03_G09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 226	3615	KQSYRRRT	ADI-20566 SAD5574_P03_G09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 226	3616	AAGCAATCTTATTCTCGGAGAACT	ADI-20566 SAD5574_P03_G09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 227	3617	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAGGGCTTGAGTGGATGGATGG ATCGACCTTGAAAATGTAACACAATCTATGACCCGAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-20567 SAD5574_P03_F09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 227	3618	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQGLEWMGWIDLENGNTIYDPKFKQGRVTITRDTSAS TAYMELSSLRSEDTAVYFCARDGYARYYFDYWGGGTLTVT SS	ADI-20567 SAD5574_P03_F09	Heavy chain variable region ("HC") amino acid sequence
Ab 227	3619	FNIKDYMH		ADI-20567 SAD5574_P03_F09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 227	3620	TTCAACATCAAGGACTACTATATGCAC		ADI-20567 SAD5574_P03_F09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 227	3621	WIDLENGNTIYDPKFKQG		ADI-20567 SAD5574_P03_F09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 227	3622	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-20567 SAD5574_P03_F09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 227	3623	ARDGYARYYFDY		ADI-20567 SAD5574_P03_F09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 227	3624	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC		ADI-20567 SAD5574_P03_F09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 227	3625	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAGCAATCTTATTTTCGGAGAGCTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20567 SAD5574_P03_F09	Light chain variable region ("LC") nucleic acid sequence
Ab 227	3626	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYFRRAFVGGGKVEIK	ADI-20567 SAD5574_P03_F09	Light chain variable region ("LC") amino acid sequence
Ab 227	3627	KSSQSLNLSRTRKNYLA	ADI-20567 SAD5574_P03_F09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 227	3628	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20567 SAD5574_P03_F09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 227	3629	WASTRES	ADI-20567 SAD5574_P03_F09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 227	3630	TGGGCATCTACCCGGGAATCC	ADI-20567 SAD5574_P03_F09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 227	3631	KQSYFRRA	ADI-20567 SAD5574_P03_F09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 227	3632	AAGCAATCTTATTTTCGGAGAGCT	ADI-20567 SAD5574_P03_F09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 228	3633	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGATGG ATCGACCTTGAAAATGTAACACAATCTATGACCCGAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTTG	ADI-20568 SAD5574_P03_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 228	3634	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20568 SAD5574_P03_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 228	3635	FNIKDYMH	ADI-20568 SAD5574_P03_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 228	3636	TTCAACATCAAGGACTACTATATGCAC	ADI-20568 SAD5574_P03_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 228	3637	WIDLENGNTIYDPKFKQG	ADI-20568 SAD5574_P03_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 228	3638	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-20568 SAD5574_P03_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 228	3639	ARDGYARYYFDY	ADI-20568 SAD5574_P03_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 228	3640	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20568 SAD5574_P03_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 228	3641	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20568 SAD5574_P03_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 228	3642	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20568 SAD5574_P03_A01	Light chain variable region ("LC") amino acid sequence
Ab 228	3643	KSSQSLNLSRTRKNYLA	ADI-20568 SAD5574_P03_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 228	3644	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20568 SAD5574_P03_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 228	3645	WASTRES	ADI-20568 SAD5574_P03_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 228	3646	TGGGCATCTACCCGGGAATCC	ADI-20568 SAD5574_P03_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 228	3647	KQSYSRRT	ADI-20568 SAD5574_P03_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 228	3648	AAGCAATCTTATTCTCGGAGAACT	ADI-20568 SAD5574_P03_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 229	3649	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGAAAATGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTTG	ADI-20569 SAD5574_P03_A05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 229	3650	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYFCARDGYARYYFDYWGQGLTVT SS	ADI-20569 SAD5574_P03_A05	Heavy chain variable region ("HC") amino acid sequence
Ab 229	3651	FNIKDYMH	ADI-20569 SAD5574_P03_A05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 229	3652	TTCAACATCAAGGACTACTATATGCAC	ADI-20569 SAD5574_P03_A05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 229	3653	WIDLENGNTIYDPKFKQG	ADI-20569 SAD5574_P03_A05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 229	3654	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAATTCAGGGC	ADI-20569 SAD5574_P03_A05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 229	3655	ARDGYARYYFDY	ADI-20569 SAD5574_P03_A05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 229	3656	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20569 SAD5574_P03_A05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 229	3657	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-20569 SAD5574_P03_A05	Light chain variable region ("LC") nucleic acid sequence
Ab 229	3658	DIVMTQSPDSLAVSLGGRATINCKSSQLNSRTRKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-20569 SAD5574_P03_A05	Light chain variable region ("LC") amino acid sequence
Ab 229	3659	KSSQSLNSRTRKNYLA	ADI-20569 SAD5574_P03_A05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 229	3660	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20569 SAD5574_P03_A05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 229	3661	WASTRES	ADI-20569 SAD5574_P03_A05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 229	3662	TGGGCATCTACCCGGGAATCC	ADI-20569 SAD5574_P03_A05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 229	3663	KQSYRRRT	ADI-20569 SAD5574_P03_A05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 229	3664	AAGCAATCTTATTCTCGGAGAACT	ADI-20569 SAD5574_P03_A05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 230	3665	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCCGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACACCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCCGGCAAAGGCTTGAAGTGGATGGGATGG ATCGGCCCTGAAATGGTAAACAATCTATGACCCGAA GTTTCAGGGCAGGGTCAACCAATACCAAGGACACGTCGG CCAGCACAGCCTACATGGAGCTGAGCAGCCTGAGGTCT GAAGACACGGCGGTGACTACTGCGCGGAGGGATGGAT ACGCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCC	ADI-20570 SAD5574_P03_G06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 230	3666	TGGTCAACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNTKDYMHWVR QAPGQRLEWMGWIGPENGTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGQGLTVT SS	ADI-20570 SAD5574_P03_G06	Heavy chain variable region ("HC") amino acid sequence
Ab 230	3667	FNTKDYMH		ADI-20570 SAD5574_P03_G06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 230	3668	TTCAACACCAAGGACTACTATATGCAC		ADI-20570 SAD5574_P03_G06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 230	3669	WIGPENGTIYDPKFKQG		ADI-20570 SAD5574_P03_G06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 230	3670	TGGATCGGCCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-20570 SAD5574_P03_G06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 230	3671	ARDGYARYYFDY		ADI-20570 SAD5574_P03_G06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 230	3672	GCGAGGGATGGATACGCTAGATATTACTTTGACTAC		ADI-20570 SAD5574_P03_G06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 230	3673	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG CCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20570 SAD5574_P03_G06	Light chain variable region ("LC") nucleic acid sequence
Ab 230	3674	DIVMTQSPDSLAVPLGERATINCKSSQSLNRSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20570 SAD5574_P03_G06	Light chain variable region ("LC") amino acid sequence
Ab 230	3675	KSSQSLNRSRTRKNYLA	ADI-20570 SAD5574_P03_G06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 230	3676	AAGTCCAGCCAGAGCCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20570 SAD5574_P03_G06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 230	3677	WASTRES	ADI-20570 SAD5574_P03_G06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 230	3678	TGGGCATCTACCCGGGAATCC	ADI-20570 SAD5574_P03_G06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 230	3679	KQSYSRRT	ADI-20570 SAD5574_P03_G06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 230	3680	AAGCAATCTTATTCTCGGAGAACT	ADI-20570 SAD5574_P03_G06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 231	3681	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGAAAATGGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTTG	ADI-20571 SAD5574_P03_B03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 231	3682	3682	<p>GTCACCGTCTCCTCA</p> <p>QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS</p>	<p>ADI-20571 SAD5574_P03_B03</p>	<p>Heavy chain variable region ("HC") amino acid sequence</p>
Ab 231	3683	3683	<p>FNIKDYMH</p>	<p>ADI-20571 SAD5574_P03_B03</p>	<p>Heavy chain variable region CDR H1 ("H1") amino acid sequence</p>
Ab 231	3684	3684	<p>TTCAACATCAAGGACTACTATATGCAC</p>	<p>ADI-20571 SAD5574_P03_B03</p>	<p>Heavy chain variable region CDR H1 ("H1") nucleic acid sequence</p>
Ab 231	3685	3685	<p>WIDLENGNTIYDPKFKQG</p>	<p>ADI-20571 SAD5574_P03_B03</p>	<p>Heavy chain variable region CDR H2 ("H2") amino acid sequence</p>
Ab 231	3686	3686	<p>TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAATTCAGGGC</p>	<p>ADI-20571 SAD5574_P03_B03</p>	<p>Heavy chain variable region CDR H2 ("H2") nucleic acid sequence</p>
Ab 231	3687	3687	<p>ARDGYARYYFDY</p>	<p>ADI-20571 SAD5574_P03_B03</p>	<p>Heavy chain variable region CDR H3 ("H3") amino acid sequence</p>
Ab 231	3688	3688	<p>GCGAGAGATGGATACGCTAGATATTACTTTGACTAC</p>	<p>ADI-20571 SAD5574_P03_B03</p>	<p>Heavy chain variable region CDR H3 ("H3") nucleic acid sequence</p>

Ab 231	3689	GACATCGTAATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAGGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTATCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20571 SAD5574_P03_B03	Light chain variable region ("LC") nucleic acid sequence
Ab 231	3690	DIVMTQSPDSLAVSLGERATINCRSSQSLNRSRTRKNYLAW YQKPGQPPKLLIYWASIRESGVPDFRFGSGGDFLTISS LQAEDVAVYYCKQSYRRTFGGKVEIK	ADI-20571 SAD5574_P03_B03	Light chain variable region ("LC") amino acid sequence
Ab 231	3691	RSSQSLNRSRTRKNYLA	ADI-20571 SAD5574_P03_B03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 231	3692	AGGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20571 SAD5574_P03_B03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 231	3693	WASIRES	ADI-20571 SAD5574_P03_B03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 231	3694	TGGGCATCTATCCGGGAATCC	ADI-20571 SAD5574_P03_B03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 231	3695	KQYSRRT	ADI-20571 SAD5574_P03_B03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 231	3696	AAGCAATCTTATTCTCGGAGAACT	ADI-20571 SAD5574_P03_B03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 232	3697	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAGT TTCAGGGCAGGGTCAACATAACCAAGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTACTTTGACTACTGCGGGCCAAAGGAAACCTGG	ADI-20572 SAD5574_P03_H06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 232	3698	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20572 SAD5574_P03_H06	Heavy chain variable region ("HC") amino acid sequence
Ab 232	3699	FNIKDYMH		ADI-20572 SAD5574_P03_H06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 232	3700	TTCAACATCAAGGACTACTATATGCAC		ADI-20572 SAD5574_P03_H06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 232	3701	WIDLENGNTIYDPKFKQG		ADI-20572 SAD5574_P03_H06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 232	3702	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-20572 SAD5574_P03_H06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 232	3703	ARDGYARYYFDY		ADI-20572 SAD5574_P03_H06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 232	3704	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC		ADI-20572 SAD5574_P03_H06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 232	3705	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTTTCGGAGAGCTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20572 SAD5574_P03_H06	Light chain variable region ("LC") nucleic acid sequence
Ab 232	3706	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYFRRAFVGGGKVEIK	ADI-20572 SAD5574_P03_H06	Light chain variable region ("LC") amino acid sequence
Ab 232	3707	KSSQSLNLSRTRKNYLA	ADI-20572 SAD5574_P03_H06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 232	3708	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20572 SAD5574_P03_H06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 232	3709	WASTRES	ADI-20572 SAD5574_P03_H06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 232	3710	TGGGCATCTACCCGGGAATCC	ADI-20572 SAD5574_P03_H06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 232	3711	KQSYFRRA	ADI-20572 SAD5574_P03_H06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 232	3712	AAGCAATCTTATTTTCGGAGAGCT	ADI-20572 SAD5574_P03_H06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 233	3713	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAAGTGGATGGGATGG ATCGACCTTGAAAATGTTAACACAACTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCAAAGAACCTGTG	ADI-20573 SAD5574_P03_A02	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 233	3714	QVQLVQSGAEVKKPGASVKVSCKASGFKNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGGLTVT SS	ADI-20573 SAD5574_P03_A02	Heavy chain variable region ("HC") amino acid sequence		
Ab 233	3715	FNIKDYMH	ADI-20573 SAD5574_P03_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 233	3716	TTCAACATCAAGGACTACTATATGCAC	ADI-20573 SAD5574_P03_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 233	3717	WIDLENGNTIYDPKFKQG	ADI-20573 SAD5574_P03_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 233	3718	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACCCG AAATTCAGGGC	ADI-20573 SAD5574_P03_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 233	3719	ARDGYARYYFDY	ADI-20573 SAD5574_P03_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 233	3720	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20573 SAD5574_P03_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 233	3721	GACATCGTAATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAGGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20573 SAD5574_P03_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 233	3722	DIVMTQPSDSLAVSLGERATINCRSSQSLNRSRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-20573 SAD5574_P03_A02	Light chain variable region ("LC") amino acid sequence
Ab 233	3723	RSSQSLNRSRKNYLA	ADI-20573 SAD5574_P03_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 233	3724	AGGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20573 SAD5574_P03_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 233	3725	WASTRES	ADI-20573 SAD5574_P03_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 233	3726	TGGGCATCTACCCGGGAATCC	ADI-20573 SAD5574_P03_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 233	3727	KQSYSRRT	ADI-20573 SAD5574_P03_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 233	3728	AAGCAATCTTATTCTCGGAGAACT	ADI-20573 SAD5574_P03_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 234	3729	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGTCACCAATAACCAAGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGGATACG CTAGATATTACTTTGACTACTGCGGGCCAAAGGAAACCTGG	ADI-20574 SAD5574_P03_A08	Heavy chain variable region ("HC") nucleic acid sequence

		TCACCGTCTCCTCA			
Ab 234	3730	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20574 SAD5574_P03_A08	Heavy chain variable region ("HC") amino acid sequence	
Ab 234	3731	FNIKDYMH	ADI-20574 SAD5574_P03_A08	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 234	3732	TTCAACATCAAGGACTACTATATGCAC	ADI-20574 SAD5574_P03_A08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 234	3733	WIDLENGNTIYDPKFKQG	ADI-20574 SAD5574_P03_A08	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 234	3734	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-20574 SAD5574_P03_A08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 234	3735	ARDGYARYYFDY	ADI-20574 SAD5574_P03_A08	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 234	3736	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20574 SAD5574_P03_A08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 234	3737	GGCATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-20574 SAD5574_P03_A08	Light chain variable region ("LC") nucleic acid sequence
Ab 234	3738	GIVMTQSPDSLAVSLGERATINCKSSQSLNRSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20574 SAD5574_P03_A08	Light chain variable region ("LC") amino acid sequence
Ab 234	3739	KSSQSLNRSRTRKNYLA	ADI-20574 SAD5574_P03_A08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 234	3740	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20574 SAD5574_P03_A08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 234	3741	WASTRES	ADI-20574 SAD5574_P03_A08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 234	3742	TGGGCATCTACCCGGGAATCC	ADI-20574 SAD5574_P03_A08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 234	3743	KQSYSRRT	ADI-20574 SAD5574_P03_A08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 234	3744	AAGCAATCTTATTCTCGGAGAACT	ADI-20574 SAD5574_P03_A08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 235	3745	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGAAAATGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCACCATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-20575 SAD5574_P03_H05	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 235	3746	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGQGLTV TSS	ADI-20575 SAD5574_P03_H05	Heavy chain variable region ("HC") amino acid sequence		
Ab 235	3747	FNIKDYMH	ADI-20575 SAD5574_P03_H05	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 235	3748	TTCAACATCAAGGACTACTATATGCAC	ADI-20575 SAD5574_P03_H05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 235	3749	WIDLENGNTIYDPKFKQG	ADI-20575 SAD5574_P03_H05	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 235	3750	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACCCG AAATTCAGGGC	ADI-20575 SAD5574_P03_H05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 235	3751	ARDGYARYYFDY	ADI-20575 SAD5574_P03_H05	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 235	3752	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20575 SAD5574_P03_H05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 235	3753	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20575 SAD5574_P03_H05	Light chain variable region ("LC") nucleic acid sequence
Ab 235	3754	DIVMTQSPDSLAVSLGERATINCKSSQSLNLRTRKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-20575 SAD5574_P03_H05	Light chain variable region ("LC") amino acid sequence
Ab 235	3755	KSSQSLNLRTRKNYLA	ADI-20575 SAD5574_P03_H05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 235	3756	AAGTCCAGCCAGAGCTTTTAAACGGCAGAACCAAGAA GAACTACTTAGCT	ADI-20575 SAD5574_P03_H05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 235	3757	WASTRES	ADI-20575 SAD5574_P03_H05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 235	3758	TGGGCATCTACCCGGGAATCC	ADI-20575 SAD5574_P03_H05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 235	3759	KQSYRRRT	ADI-20575 SAD5574_P03_H05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 235	3760	AAGCAATCTTATTCTCGGAGAACT	ADI-20575 SAD5574_P03_H05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 236	3761	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGACAATGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-20576 SAD5574_P03_A03	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 236	3762	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGVIDLDNGNTIYDPKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGQGL TVT SS	ADI-20576 SAD5574_P03_A03	Heavy chain variable region ("HC") amino acid sequence		
Ab 236	3763	FNIKDYMH	ADI-20576 SAD5574_P03_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 236	3764	TTCAACATCAAGGACTACTATATGCAC	ADI-20576 SAD5574_P03_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 236	3765	WIDLNGNTIYDPKFKQG	ADI-20576 SAD5574_P03_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 236	3766	TGGATCGACCTTGACAATGGTAACACAACTCTATGACCCG AAATTCAGGGC	ADI-20576 SAD5574_P03_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 236	3767	ARDGYARYYFDY	ADI-20576 SAD5574_P03_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 236	3768	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20576 SAD5574_P03_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 236	3769	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG CCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20576 SAD5574_P03_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 236	3770	DIVMTQPSDLAVPLGERATINCKSSQSLNRSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20576 SAD5574_P03_A03	Light chain variable region ("LC") amino acid sequence
Ab 236	3771	KSSQSLNRSRTRKNYLA	ADI-20576 SAD5574_P03_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 236	3772	AAGTCCAGCCAGAGCCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20576 SAD5574_P03_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 236	3773	WASTRES	ADI-20576 SAD5574_P03_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 236	3774	TGGGCATCTACCCGGGAATCC	ADI-20576 SAD5574_P03_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 236	3775	KQSYSRRT	ADI-20576 SAD5574_P03_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 236	3776	AAGCAATCTTATTCTCGGAGAACT	ADI-20576 SAD5574_P03_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 237	3777	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGAAAATGTTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCCG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTTG	ADI-20577 SAD5574_P03_F11	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 237	3778	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20577 SAD5574_P03_F11	Heavy chain variable region ("HC") amino acid sequence		
Ab 237	3779	FNIKDYMH	ADI-20577 SAD5574_P03_F11	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 237	3780	TTCAACATCAAGGACTACTATATGCAC	ADI-20577 SAD5574_P03_F11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 237	3781	WIDLENGNTIYDPKFKQG	ADI-20577 SAD5574_P03_F11	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 237	3782	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAATTCAGGGC	ADI-20577 SAD5574_P03_F11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 237	3783	ARDGYARYYFDY	ADI-20577 SAD5574_P03_F11	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 237	3784	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20577 SAD5574_P03_F11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 237	3785	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGACTGGACAGATTTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20577 SAD5574_P03_F11	Light chain variable region ("LC") nucleic acid sequence
Ab 237	3786	DIVMTQSPDSLAVSLGERATINCKSSQSLNLRTRKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTGTDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-20577 SAD5574_P03_F11	Light chain variable region ("LC") amino acid sequence
Ab 237	3787	KSSQSLNLRTRKNYLA	ADI-20577 SAD5574_P03_F11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 237	3788	AAGTCCAGCCAGAGTCTTTAAACGGCAGAACCAAGAA GAACTACTTAGCT	ADI-20577 SAD5574_P03_F11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 237	3789	WASTRES	ADI-20577 SAD5574_P03_F11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 237	3790	TGGGCATCTACCCGGGAATCC	ADI-20577 SAD5574_P03_F11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 237	3791	KQSYRRRT	ADI-20577 SAD5574_P03_F11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 237	3792	AAGCAATCTTATTCTCGGAGAACT	ADI-20577 SAD5574_P03_F11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 238	3793	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGAAAATGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGAACACGTCCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-20578 SAD5574_P03_B05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 238	3794	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRNTSAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20578 SAD5574_P03_B05	Heavy chain variable region ("HC") amino acid sequence
Ab 238	3795	FNIKDYMH	ADI-20578 SAD5574_P03_B05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 238	3796	TTCAACATCAAGGACTACTATATGCAC	ADI-20578 SAD5574_P03_B05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 238	3797	WIDLENGNTIYDPKFKQG	ADI-20578 SAD5574_P03_B05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 238	3798	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAATTCAGGGC	ADI-20578 SAD5574_P03_B05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 238	3799	ARDGYARYYFDY	ADI-20578 SAD5574_P03_B05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 238	3800	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20578 SAD5574_P03_B05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 238	3801	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCAAGTGGCAGGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20578 SAD5574_P03_B05	Light chain variable region ("LC") nucleic acid sequence
Ab 238	3802	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20578 SAD5574_P03_B05	Light chain variable region ("LC") amino acid sequence
Ab 238	3803	KSSQSLNLSRTRKNYLA	ADI-20578 SAD5574_P03_B05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 238	3804	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20578 SAD5574_P03_B05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 238	3805	WASTRES	ADI-20578 SAD5574_P03_B05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 238	3806	TGGGCATCTACCCGGGAATCC	ADI-20578 SAD5574_P03_B05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 238	3807	KQSYSRRT	ADI-20578 SAD5574_P03_B05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 238	3808	AAGCAATCTTATTCTCGGAGAACT	ADI-20578 SAD5574_P03_B05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 239	3809	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCAAGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTACTTTGACTACTGCGGGCCAAAGGAAACCTGG	ADI-20579 SAD5574_P03_D04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 239	3810	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20579 SAD5574_P03_D04	Heavy chain variable region ("HC") amino acid sequence
Ab 239	3811	FNIKDYMH		ADI-20579 SAD5574_P03_D04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 239	3812	TTCAACATCAAGGACTACTATATGCAC		ADI-20579 SAD5574_P03_D04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 239	3813	WIDLENGNTIYDPKFKQG		ADI-20579 SAD5574_P03_D04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 239	3814	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-20579 SAD5574_P03_D04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 239	3815	ARDGYARYYFDY		ADI-20579 SAD5574_P03_D04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 239	3816	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC		ADI-20579 SAD5574_P03_D04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 239	3817	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG CCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20579 SAD5574_P03_D04	Light chain variable region ("LC") nucleic acid sequence
Ab 239	3818	DIVMTQSPDSLAVPLGERATINCKSSQSLNRSRTRKKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20579 SAD5574_P03_D04	Light chain variable region ("LC") amino acid sequence
Ab 239	3819	KSSQSLNRSRTRKKNYLA	ADI-20579 SAD5574_P03_D04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 239	3820	AAGTCCAGCCAGAGCCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20579 SAD5574_P03_D04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 239	3821	WASTRES	ADI-20579 SAD5574_P03_D04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 239	3822	TGGGCATCTACCCGGGAATCC	ADI-20579 SAD5574_P03_D04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 239	3823	KQSYSRRT	ADI-20579 SAD5574_P03_D04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 239	3824	AAGCAATCTTATTCTCGGAGAACT	ADI-20579 SAD5574_P03_D04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 240	3825	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAGT TTCAGGGCAGGGTCAACATAACCAAGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTACTTTGACTACTGCGGGCCAAAGGAAACCTGG	ADI-20580 SAD5574_P03_A04	Heavy chain variable region ("HC") nucleic acid sequence

		TCACCGTCTCCTCA			
Ab 240	3826	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGTLLTV SS	ADI-20580 SAD5574_P03_A04	Heavy chain variable region ("HC") amino acid sequence	
Ab 240	3827	FNIKDYMH	ADI-20580 SAD5574_P03_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 240	3828	TTCAACATCAAGGACTACTATATGCAC	ADI-20580 SAD5574_P03_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 240	3829	WIDLENGNTIYDPKFKQ	ADI-20580 SAD5574_P03_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 240	3830	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-20580 SAD5574_P03_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 240	3831	ARDGYARYYFDY	ADI-20580 SAD5574_P03_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 240	3832	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20580 SAD5574_P03_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 240	3833	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-20580 SAD5574_P03_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 240	3834	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20580 SAD5574_P03_A04	Light chain variable region ("LC") amino acid sequence
Ab 240	3835	KSSQSLNLSRTRKNYLA	ADI-20580 SAD5574_P03_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 240	3836	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20580 SAD5574_P03_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 240	3837	WASTRES	ADI-20580 SAD5574_P03_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 240	3838	TGGGCATCTACCCGGGAATCC	ADI-20580 SAD5574_P03_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 240	3839	KQSYSRRT	ADI-20580 SAD5574_P03_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 240	3840	AAGCAATCTTATTCTCGGAGAACT	ADI-20580 SAD5574_P03_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 241	3841	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGACTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAAGTGGATGGATGG ATCGGCTCTGAAAATGTTAACACAAATGATGACCCGAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AGGACACGGCGGTGACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTCGACTACTGGGGCCCAAGGAACCTGTG	ADI-20581 SAD5574_P03_B06	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 241	3842	QVQLVQSGAEVKKPGASVKVSCKASGLNIKDYMHWVR QAPGQRLEWMGWIGSENGNTIYDPKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGGTLV TV SS	ADI-20581 SAD5574_P03_B06	Heavy chain variable region ("HC") amino acid sequence		
Ab 241	3843	LNIKDYMH	ADI-20581 SAD5574_P03_B06	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 241	3844	CTCAACATCAAGGACTACTATATGCAC	ADI-20581 SAD5574_P03_B06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 241	3845	WIGSENGNTIYDPKFKQG	ADI-20581 SAD5574_P03_B06	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 241	3846	TGGATCGGCTCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-20581 SAD5574_P03_B06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 241	3847	ARDGYARYYFDY	ADI-20581 SAD5574_P03_B06	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 241	3848	GCGAGAGATGGATACGCTAGATATTACTTCGACTAC	ADI-20581 SAD5574_P03_B06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 241	3849	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG CCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCCTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20581 SAD5574_P03_B06	Light chain variable region ("LC") nucleic acid sequence
Ab 241	3850	DIVMTQPSDSLAVPLGERATINCKSSQSLNRSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-20581 SAD5574_P03_B06	Light chain variable region ("LC") amino acid sequence
Ab 241	3851	KSSQSLNRSRTRKNYLA	ADI-20581 SAD5574_P03_B06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 241	3852	AAGTCCAGCCAGAGCCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20581 SAD5574_P03_B06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 241	3853	WASTRES	ADI-20581 SAD5574_P03_B06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 241	3854	TGGGCATCTACCCGGGAATCC	ADI-20581 SAD5574_P03_B06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 241	3855	KQSYSRRT	ADI-20581 SAD5574_P03_B06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 241	3856	AAGCAATCTTATTCTCGGAGAACT	ADI-20581 SAD5574_P03_B06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 242	3857	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGACTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGACCTTGAAAATGGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACCGTCCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-20582 SAD5574_P03_C08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 242	3865	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-20582 SAD5574_P03_C08	Light chain variable region ("LC") nucleic acid sequence
Ab 242	3866	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-20582 SAD5574_P03_C08	Light chain variable region ("LC") amino acid sequence
Ab 242	3867	KSSQSLNSRTGKNYLA	ADI-20582 SAD5574_P03_C08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 242	3868	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-20582 SAD5574_P03_C08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 242	3869	WASTRES	ADI-20582 SAD5574_P03_C08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 242	3870	TGGGCATCTACCCGGGAATCC	ADI-20582 SAD5574_P03_C08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 242	3871	KQSYSRRT	ADI-20582 SAD5574_P03_C08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 242	3872	AAGCAATCTTATTCTCGGAGAACT	ADI-20582 SAD5574_P03_C08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 243	3873	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCCGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACACCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCCGGCAAAGGCTTGAAGTGGATGGGATGG ATCGGCCCTGAAATGGTAAACAATCTATGACCCGAA GTTTCAGGGCAGGGTCAACCAATACCAAGGACACGTCGG CCAGCACAGCCTACATGGAGCTGAGCAGCCTGAGGTCT GAAGACACGGCGGTGACTACTGCGCGAGGGATGGAT ACGCTAGATATTACTTTGACTACTGGGGCCAAAGGAACCC	ADI-20583 SAD5574_P03_B11	Heavy chain variable region ("HC") nucleic acid sequence

		TGGTCAACCGTCTCCTCA			
Ab 243	3874	QVQLVQSGAEVKKPGASVKVSCKASGFNTKDYIMHWVR QAPGQRLEWMGWIGPENGTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYYFDYWGGGTLTV SS	ADI-20583 SAD5574_P03_B11	Heavy chain variable region ("HC") amino acid sequence	
Ab 243	3875	FNTKDYIMH	ADI-20583 SAD5574_P03_B11	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 243	3876	TTCAACACCAAGGACTACTATATGCAC	ADI-20583 SAD5574_P03_B11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 243	3877	WIGPENGTIYDPKFKQG	ADI-20583 SAD5574_P03_B11	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 243	3878	TGGATCGGCCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-20583 SAD5574_P03_B11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 243	3879	ARDGYARYYFDY	ADI-20583 SAD5574_P03_B11	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 243	3880	GCGAGGGATGGATACGCTAGATATTACTTTGACTAC	ADI-20583 SAD5574_P03_B11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 243	3881	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAACAGAACAGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCAAGTGGCAGGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20583 SAD5574_P03_B11	Light chain variable region ("LC") nucleic acid sequence
Ab 243	3882	DIVMTQSPDSLAVSLGERATINCKSSQSLNLRTRKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-20583 SAD5574_P03_B11	Light chain variable region ("LC") amino acid sequence
Ab 243	3883	KSSQSLNLRTRKNYLA	ADI-20583 SAD5574_P03_B11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 243	3884	AAGTCCAGCCAGAGTCTTTAAACAACAGAACCCAGAAA GAACTACTTAGCT	ADI-20583 SAD5574_P03_B11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 243	3885	WASTRES	ADI-20583 SAD5574_P03_B11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 243	3886	TGGGCATCTACCCGGGAATCC	ADI-20583 SAD5574_P03_B11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 243	3887	KQSYRRRT	ADI-20583 SAD5574_P03_B11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 243	3888	AAGCAATCTTATTCTCGGAGAACT	ADI-20583 SAD5574_P03_B11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 244	3889	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAAGTGGATGGGATGG ATCGACCTTGAAAATGTAACACAATCTATGACCCGAAA TTTCAGGGCAGGGTCAACATAACCAAGGACACCGTCCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATGGATAC GCTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGTG	ADI-20584 SAD5574_P03_D10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 244	3890	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYARYYFDYWGQGL TVTSS	ADI-20584 SAD5574_P03_D10	Heavy chain variable region ("HC") amino acid sequence
Ab 244	3891	FNIKDYMH	ADI-20584 SAD5574_P03_D10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 244	3892	TTCAACATCAAGGACTACTATATGCAC	ADI-20584 SAD5574_P03_D10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 244	3893	WIDLENGNTIYDPKFKQG	ADI-20584 SAD5574_P03_D10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 244	3894	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAATTCAGGGC	ADI-20584 SAD5574_P03_D10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 244	3895	ARDGYARYYFDY	ADI-20584 SAD5574_P03_D10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 244	3896	GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20584 SAD5574_P03_D10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 244	3897	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCAAGTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTTTCGGAGAGCTTTC GGCGGAGGGACCAAGGTTGAGATCAAA	ADI-20584 SAD5574_P03_D10	Light chain variable region ("LC") nucleic acid sequence
Ab 244	3898	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYFRRAFVGGGKVEIK	ADI-20584 SAD5574_P03_D10	Light chain variable region ("LC") amino acid sequence
Ab 244	3899	KSSQSLNLSRTRKNYLA	ADI-20584 SAD5574_P03_D10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 244	3900	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20584 SAD5574_P03_D10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 244	3901	WASTRES	ADI-20584 SAD5574_P03_D10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 244	3902	TGGGCATCTACCCGGGAATCC	ADI-20584 SAD5574_P03_D10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 244	3903	KQSYFRRA	ADI-20584 SAD5574_P03_D10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 244	3904	AAGCAATCTTATTTTCGGAGAGCT	ADI-20584 SAD5574_P03_D10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 245	3905	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCGCCTGCAAGGCTTCT GGATCCAATATCAAGGACTACTATGTGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATGGGATGG ATCGGCCCTGAAAATGGTAAACACAGTCTATGACCCGAA GTTTCAGGGCAGGGTCAACCAATACCAAGGACACGTCGG CCAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCT GAAGACACGGCGGTGACTACTGCGCGGAGAGATGGATA CGCTAGATATTACTTTGACTACTGCGGGCCCAAGGAACCTT	ADI-20585 SAD5402_P01_G02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 245	3906	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVACKASGSKNIKDYVHWVRQ APQRLEWMGWIGPENGNTVYDPKFKQGRVTITRDTAST AYMIELSSLRSEDTAVYVCARDGYARYYFDYWGQGLTVTS S	ADI-20585 SAD5402_P01_G02	Heavy chain variable region ("HC") amino acid sequence
Ab 245	3907		SNIKDYVH	ADI-20585 SAD5402_P01_G02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 245	3908		TCCAATATCAAGGACTACTATGTGCAC	ADI-20585 SAD5402_P01_G02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 245	3909		WIGPENGNTVYDPKFKQG	ADI-20585 SAD5402_P01_G02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 245	3910		TGGATCGGCCCTGAAAATGGTAAACACAGTCTATGACCC GAAGTTTCAGGGC	ADI-20585 SAD5402_P01_G02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 245	3911		ARDGYARYYFDY	ADI-20585 SAD5402_P01_G02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 245	3912		GCGAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-20585 SAD5402_P01_G02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 245	3913	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-20585 SAD5402_P01_G02	Light chain variable region ("LC") nucleic acid sequence
Ab 245	3914	DIVMTQPSDLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-20585 SAD5402_P01_G02	Light chain variable region ("LC") amino acid sequence
Ab 245	3915	KSSQSLNLSRTRKNYLA	ADI-20585 SAD5402_P01_G02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 245	3916	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20585 SAD5402_P01_G02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 245	3917	WASTRES	ADI-20585 SAD5402_P01_G02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 245	3918	TGGGCATCTACCCGGGAATCC	ADI-20585 SAD5402_P01_G02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 245	3919	KQSYSLRT	ADI-20585 SAD5402_P01_G02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 245	3920	AAGCAATCTTATTCTCTGAGAACT	ADI-20585 SAD5402_P01_G02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 246	3921	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCCACTATATACACTGGGTCCGA CAGGCCCTGGACAAAGGCTTGAGTGGATGGATGGA TCTACCTGGTGTAGTAGCACAAGTACAACGAGAAG TTCAAGGGCAGAGTCAACCATGACCCGGGACAAGTCCAC GAGCACGCCTACATGGAGCTGAGCAGCCTGAGATCTG AGGACACGGCGGTGACTACTCGCTAGAGATGGCTCA TATTACTTTGACTACTGGGGCCAAAGGAAACCTGGTCACC	ADI-20818 SAD5399_P01_C01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 246	3922	GTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSHYIHWRQ APQGLEWMGWYYPGDGSKYNEKFKGRVTMTADKSTS TAYMELSSLRSEDTAVYYCARDGSYFDYWGGGTLTVSS	ADI-20818 SAD5399_P01_C01	Heavy chain variable region ("HC") amino acid sequence
Ab 246	3923		YTFTSHYIH	ADI-20818 SAD5399_P01_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 246	3924		TACACCTTCACCAGCCACTATATACAC	ADI-20818 SAD5399_P01_C01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 246	3925		WYYPGDGSKYNEKFKG	ADI-20818 SAD5399_P01_C01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 246	3926		TGGATCTACCCTGGTGATGGTAGCACAAAAGTACAACGA GAAGTCAAGGGC	ADI-20818 SAD5399_P01_C01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 246	3927		ARDGSYFDY	ADI-20818 SAD5399_P01_C01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 246	3928		GCTAGAGATGGCTCATATTACTTTGACTAC	ADI-20818 SAD5399_P01_C01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 246	3929	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-20818 SAD5399_P01_C01	Light chain variable region ("LC") nucleic acid sequence
Ab 246	3930	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-20818 SAD5399_P01_C01	Light chain variable region ("LC") amino acid sequence
Ab 246	3931	KSSQSLNLSRTRKNYLA	ADI-20818 SAD5399_P01_C01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 246	3932	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20818 SAD5399_P01_C01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 246	3933	WASTRES	ADI-20818 SAD5399_P01_C01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 246	3934	TGGGCATCTACCCGGGAATCC	ADI-20818 SAD5399_P01_C01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 246	3935	KQSYSLRT	ADI-20818 SAD5399_P01_C01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 246	3936	AAGCAATCTTATTCTGTGAGAACT	ADI-20818 SAD5399_P01_C01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 247	3937	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCTGCAAGGCATCT GGATACACCTTACCAGCTCCTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGAT CTACCCTGGTAATGTTGACACAAGGTACAACGAGAAGTT CAAGGGCAGAGTCAACCATACCCGGGACAAGTCCCGGA GCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGAG GACACGGCGGTGACTACTGCGCGGAGGATACGGGATA CTACTTTGACTACTGGGGCCCAAGGAAACCCTGTACCCTG	ADI-20820 SAD5400_P01_F07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 247	3938	CTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGYTFTSSYIHWWVRQA PGQGLEWIGWIYPGNVDTRYNEKFKGRVTTTADKSASTAY MELSLRSEDTAVYVCARDYGYFDYWGGGTLTVSS	ADI-20820 SAD5400_P01_F07	Heavy chain variable region ("HC") amino acid sequence
Ab 247	3939		YFTSSYIH	ADI-20820 SAD5400_P01_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 247	3940		TACACCTTCACCAGCTCCTATATACAC	ADI-20820 SAD5400_P01_F07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 247	3941		WIYPGNVDTRYNEKFKG	ADI-20820 SAD5400_P01_F07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 247	3942		TGGATCTACCCCTGGTAATGTTGACACAAGGTACAACGA GAAGTCAAGGGC	ADI-20820 SAD5400_P01_F07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 247	3943		ARDYGYFDY	ADI-20820 SAD5400_P01_F07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 247	3944		GCGAGGGATTACGGATACTACTTTGACTAC	ADI-20820 SAD5400_P01_F07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 247	3945	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATCTCTGAGAACTTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-20820 SAD5400_P01_F07	Light chain variable region ("LC") nucleic acid sequence
Ab 247	3946	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-20820 SAD5400_P01_F07	Light chain variable region ("LC") amino acid sequence
Ab 247	3947	KSSQSLNLSRTRKNYLA	ADI-20820 SAD5400_P01_F07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 247	3948	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-20820 SAD5400_P01_F07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 247	3949	WASTRES	ADI-20820 SAD5400_P01_F07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 247	3950	TGGGCATCTACCCGGGAATCC	ADI-20820 SAD5400_P01_F07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 247	3951	KQSYSLRT	ADI-20820 SAD5400_P01_F07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 247	3952	AAGCAATCTTATTCTCTGAGAACT	ADI-20820 SAD5400_P01_F07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 248	3953	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGGTGGATAGGATGGA TCGACCCCTGAAAATGTTAACACAACTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCGCGGACACGTCCTCCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGGTGTACTACTGCGCTAGAGACGGTTACG CCAGATATTACTTTGACTACTGGGGCCCAAGAAACCTGG	ADI-21097 SAD5574_P03_D07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 248	3954	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWIGWIDPENGNITIDPKFQGRVTTTADTSAST AYMIELSLRSEDTAVYVCARDGYARYYFDYWGQGLTVTS S	ADI-21097 SAD5574_P03_D07	Heavy chain variable region ("HC") amino acid sequence
Ab 248	3955	FNIKDYYMH		ADI-21097 SAD5574_P03_D07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 248	3956	TTCAACATCAAGGACTACTATATGCAC		ADI-21097 SAD5574_P03_D07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 248	3957	WIDPENGNITIDPKFQG		ADI-21097 SAD5574_P03_D07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 248	3958	TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21097 SAD5574_P03_D07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 248	3959	ARDGYARYYFDY		ADI-21097 SAD5574_P03_D07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 248	3960	GCTAGAGACGGTTACGCCAGATATTACTTTGACTAC		ADI-21097 SAD5574_P03_D07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 248	3961	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTGGAGATCAAA	ADI-21097 SAD5574_P03_D07	Light chain variable region ("LC") nucleic acid sequence
Ab 248	3962	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-21097 SAD5574_P03_D07	Light chain variable region ("LC") amino acid sequence
Ab 248	3963	KSSQSLNLSRTRKNYLA	ADI-21097 SAD5574_P03_D07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 248	3964	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	ADI-21097 SAD5574_P03_D07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 248	3965	WASTRES	ADI-21097 SAD5574_P03_D07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 248	3966	TGGGCATCTACCCGGGAATCC	ADI-21097 SAD5574_P03_D07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 248	3967	KQSYSLRT	ADI-21097 SAD5574_P03_D07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 248	3968	AAGCAATCTTATTCTCTGAGAACT	ADI-21097 SAD5574_P03_D07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 249	3969	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAGT TTCAGGGCAGGGTCAACATAACCAAGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTACTTTGACTACTGCGGGCAAGGAACCCCTG	ADI-21959 SAD5837_P01_E02	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 249	3970	QVQLVQSGAEVKKPGASVKVSCKASGKFNKDYMHWR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYFCARDGYGRYFDYWGQGL TVTSS	ADI-21959 SAD5837_P01_E02	Heavy chain variable region ("HC") amino acid sequence		
Ab 249	3971	FNIKDYMH	ADI-21959 SAD5837_P01_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 249	3972	TTCAACATCAAGGACTACTATATGCAC	ADI-21959 SAD5837_P01_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 249	3973	WIDLENGNTIYDPKFKQ	ADI-21959 SAD5837_P01_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 249	3974	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21959 SAD5837_P01_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 249	3975	ARDGYGRYFDY	ADI-21959 SAD5837_P01_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 249	3976	GCGAGAGATGGATACGGGAGATATTACTTTGACTAC	ADI-21959 SAD5837_P01_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 249	3977	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21959 SAD5837_P01_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 249	3978	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21959 SAD5837_P01_E02	Light chain variable region ("LC") amino acid sequence
Ab 249	3979	KSSQSLNSRTGKNYLA	ADI-21959 SAD5837_P01_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 249	3980	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21959 SAD5837_P01_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 249	3981	WASTRES	ADI-21959 SAD5837_P01_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 249	3982	TGGGCATCTACCCGGGAATCC	ADI-21959 SAD5837_P01_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 249	3983	KQSYSRRT	ADI-21959 SAD5837_P01_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 249	3984	AAGCAATCTTATTCTCGGAGAACT	ADI-21959 SAD5837_P01_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 250	3985	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTACTTTGACATTTGGGGCCCAAGGAAACCTTGG	ADI-21963 SAD5837_P01_F07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 250	3986	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFKNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYFCARDGYARYYFDIWGGGTLVTV SS	ADI-21963 SAD5837_P01_F07	Heavy chain variable region ("HC") amino acid sequence
Ab 250	3987	FNIKDYMH		ADI-21963 SAD5837_P01_F07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 250	3988	TTCAACATCAAGGACTACTATATGCAC		ADI-21963 SAD5837_P01_F07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 250	3989	WIDLENGNTIYDPKFKQG		ADI-21963 SAD5837_P01_F07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 250	3990	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21963 SAD5837_P01_F07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 250	3991	ARDGYARYYFDI		ADI-21963 SAD5837_P01_F07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 250	3992	GCGAGAGATGGATACGCTAGATATTACTTTGACATT		ADI-21963 SAD5837_P01_F07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 250	3993	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21963 SAD5837_P01_F07	Light chain variable region ("LC") nucleic acid sequence
Ab 250	3994	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21963 SAD5837_P01_F07	Light chain variable region ("LC") amino acid sequence
Ab 250	3995	KSSQSLNSRTGKNYLA	ADI-21963 SAD5837_P01_F07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 250	3996	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21963 SAD5837_P01_F07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 250	3997	WASTRES	ADI-21963 SAD5837_P01_F07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 250	3998	TGGGCATCTACCCGGGAATCC	ADI-21963 SAD5837_P01_F07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 250	3999	KQSYSRRT	ADI-21963 SAD5837_P01_F07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 250	4000	AAGCAATCTTATTCTCGGAGAACT	ADI-21963 SAD5837_P01_F07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 251	4001	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTACTTTGACGCTTGGGGCCAAAGGAAACCCCTG	ADI-21965 SAD5837_P01_D09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 251	4002	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYYCARDGYGRYFD AWGQGTLVTVSS	ADI-21965 SAD5837_P01_D09	Heavy chain variable region ("HC") amino acid sequence
Ab 251	4003	FNIKDYMH	ADI-21965 SAD5837_P01_D09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 251	4004	TTCAACATCAAGGACTACTATATGCAC	ADI-21965 SAD5837_P01_D09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 251	4005	WIDLENGNTIYDPKFKQG	ADI-21965 SAD5837_P01_D09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 251	4006	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21965 SAD5837_P01_D09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 251	4007	ARDGYGRYFDA	ADI-21965 SAD5837_P01_D09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 251	4008	GCGAGAGATGGATACGGGAGATATTACTTTGACGCT	ADI-21965 SAD5837_P01_D09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 251	4009	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21965 SAD5837_P01_D09	Light chain variable region ("LC") nucleic acid sequence
Ab 251	4010	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21965 SAD5837_P01_D09	Light chain variable region ("LC") amino acid sequence
Ab 251	4011	KSSQSLNSRRTGKNYLA	ADI-21965 SAD5837_P01_D09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 251	4012	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21965 SAD5837_P01_D09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 251	4013	WASTRES	ADI-21965 SAD5837_P01_D09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 251	4014	TGGGCATCTACCCGGGAATCC	ADI-21965 SAD5837_P01_D09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 251	4015	KQSYSRRT	ADI-21965 SAD5837_P01_D09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 251	4016	AAGCAATCTTATTCTCGGAGAACT	ADI-21965 SAD5837_P01_D09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 252	4017	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTTTTTGTACTACTGGGGCCCAAGGAAACCCCTGG	ADI-21967 SAD5837_P01_C11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 252	4018	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYICARDGYARYFFDYWGQGLTVT SS	ADI-21967 SAD5837_P01_C11	Heavy chain variable region ("HC") amino acid sequence
Ab 252	4019	FNIKDYYMH		ADI-21967 SAD5837_P01_C11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 252	4020	TTCAACATCAAGGACTACTATATGCAC		ADI-21967 SAD5837_P01_C11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 252	4021	WIDLENGNTIYDPKFKQG		ADI-21967 SAD5837_P01_C11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 252	4022	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21967 SAD5837_P01_C11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 252	4023	ARDGYARYFFDY		ADI-21967 SAD5837_P01_C11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 252	4024	GCGAGAGATGGATACGCTAGATATTTTTTGGACTAC		ADI-21967 SAD5837_P01_C11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 252	4025	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21967 SAD5837_P01_C11	Light chain variable region ("LC") nucleic acid sequence
Ab 252	4026	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDFLTIIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21967 SAD5837_P01_C11	Light chain variable region ("LC") amino acid sequence
Ab 252	4027	KSSQSLNSRTGKNYLA	ADI-21967 SAD5837_P01_C11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 252	4028	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21967 SAD5837_P01_C11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 252	4029	WASTRES	ADI-21967 SAD5837_P01_C11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 252	4030	TGGGCATCTACCCGGGAATCC	ADI-21967 SAD5837_P01_C11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 252	4031	KQSYSRRT	ADI-21967 SAD5837_P01_C11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 252	4032	AAGCAATCTTATTCTCGGAGAACT	ADI-21967 SAD5837_P01_C11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 253	4033	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTTTGACTACTGCGGGCCCAAGGAACCCCTG	ADI-21970 SAD5837_P02_B02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 253	4034	4034	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYFCARDGYGRYFFDYWGQGL TVTSS	ADI-21970 SAD5837_P02_B02	Heavy chain variable region ("HC") amino acid sequence
Ab 253	4035	4035	FNIKDYMH		ADI-21970 SAD5837_P02_B02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 253	4036	4036	TTCAACATCAAGGACTACTATATGCAC		ADI-21970 SAD5837_P02_B02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 253	4037	4037	WIDLENGNTIYDPKFKQG		ADI-21970 SAD5837_P02_B02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 253	4038	4038	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21970 SAD5837_P02_B02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 253	4039	4039	ARDGYGRYFFDY		ADI-21970 SAD5837_P02_B02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 253	4040	4040	GCGAGAGATGGATACGGGAGATATTTTTTGGACTAC		ADI-21970 SAD5837_P02_B02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 253	4041	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21970 SAD5837_P02_B02	Light chain variable region ("LC") nucleic acid sequence
Ab 253	4042	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21970 SAD5837_P02_B02	Light chain variable region ("LC") amino acid sequence
Ab 253	4043	KSSQSLNSRTGKNYLA	ADI-21970 SAD5837_P02_B02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 253	4044	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTGGCT	ADI-21970 SAD5837_P02_B02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 253	4045	WASTRES	ADI-21970 SAD5837_P02_B02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 253	4046	TGGGCATCTACCCGGGAATCC	ADI-21970 SAD5837_P02_B02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 253	4047	KQSYSRRT	ADI-21970 SAD5837_P02_B02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 253	4048	AAGCAATCTTATTCTCGGAGAACT	ADI-21970 SAD5837_P02_B02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 254	4049	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTACTACGACTACTGGGGCCCAAGGAACCCCTG	ADI-21971 SAD5837_P02_C03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 254	4050	4050	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYICARDGYGRYYDYWGQGLVTV SS	ADI-21971 SAD5837_P02_C03	Heavy chain variable region ("HC") amino acid sequence
Ab 254	4051	4051	FNIKDYMH		ADI-21971 SAD5837_P02_C03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 254	4052	4052	TTCAACATCAAGGACTACTATATGCAC		ADI-21971 SAD5837_P02_C03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 254	4053	4053	WIDLENGNTIYDPKFKQG		ADI-21971 SAD5837_P02_C03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 254	4054	4054	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACCCG AAGTTTCAGGGC		ADI-21971 SAD5837_P02_C03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 254	4055	4055	ARDGYGRYYDY		ADI-21971 SAD5837_P02_C03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 254	4056	4056	GCGAGAGATGGATACGGGAGATATTACTACGACTAC		ADI-21971 SAD5837_P02_C03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 254	4057	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21971 SAD5837_P02_C03	Light chain variable region ("LC") nucleic acid sequence
Ab 254	4058	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDFLTIIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21971 SAD5837_P02_C03	Light chain variable region ("LC") amino acid sequence
Ab 254	4059	KSSQSLNSRTGKNYLA	ADI-21971 SAD5837_P02_C03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 254	4060	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21971 SAD5837_P02_C03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 254	4061	WASTRES	ADI-21971 SAD5837_P02_C03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 254	4062	TGGGCATCTACCCGGGAATCC	ADI-21971 SAD5837_P02_C03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 254	4063	KQSYSRRT	ADI-21971 SAD5837_P02_C03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 254	4064	AAGCAATCTTATTCTCGGAGAACT	ADI-21971 SAD5837_P02_C03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 255	4065	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTACTACGACGTGTGGGGCCAAAGGAAACCTGTG	ADI-21972 SAD5837_P02_A04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 255	4066	4066	4066	4066	ADI-21972 SAD5837_P02_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 255	4067	4067	4067	4067	ADI-21972 SAD5837_P02_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 255	4068	4068	4068	4068	ADI-21972 SAD5837_P02_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 255	4069	4069	4069	4069	ADI-21972 SAD5837_P02_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 255	4070	4070	4070	4070	ADI-21972 SAD5837_P02_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 255	4071	4071	4071	4071	ADI-21972 SAD5837_P02_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 255	4072	4072	4072	4072	ADI-21972 SAD5837_P02_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 255	4073	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21972 SAD5837_P02_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 255	4074	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21972 SAD5837_P02_A04	Light chain variable region ("LC") amino acid sequence
Ab 255	4075	KSSQSLNSRTGKNYLA	ADI-21972 SAD5837_P02_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 255	4076	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21972 SAD5837_P02_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 255	4077	WASTRES	ADI-21972 SAD5837_P02_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 255	4078	TGGGCATCTACCCGGGAATCC	ADI-21972 SAD5837_P02_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 255	4079	KQSYSRRT	ADI-21972 SAD5837_P02_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 255	4080	AAGCAATCTTATTCTCGGAGAACT	ADI-21972 SAD5837_P02_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 256	4081	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACTACTGGGGCCAAAGGAAACCCCTG	ADI-21973 SAD5837_P02_B05	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 256	4082	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDGYGRFYDYWGQGLVTY SS		ADI-21973 SAD5837_P02_B05	Heavy chain variable region ("HC") amino acid sequence	
Ab 256	4083	FNIKDYMH		ADI-21973 SAD5837_P02_B05	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 256	4084	TTCAACATCAAGGACTACTATATGCAC		ADI-21973 SAD5837_P02_B05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 256	4085	WIDLENGNTIYDPKFKQ		ADI-21973 SAD5837_P02_B05	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 256	4086	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21973 SAD5837_P02_B05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 256	4087	ARDGYGRFYDY		ADI-21973 SAD5837_P02_B05	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 256	4088	GCGAGAGATGGATACGGGAGATATTTTACGACTAC		ADI-21973 SAD5837_P02_B05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 256	4089	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21973 SAD5837_P02_B05	Light chain variable region ("LC") nucleic acid sequence
Ab 256	4090	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21973 SAD5837_P02_B05	Light chain variable region ("LC") amino acid sequence
Ab 256	4091	KSSQSLNSRTGKNYLA	ADI-21973 SAD5837_P02_B05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 256	4092	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21973 SAD5837_P02_B05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 256	4093	WASTRES	ADI-21973 SAD5837_P02_B05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 256	4094	TGGGCATCTACCCGGGAATCC	ADI-21973 SAD5837_P02_B05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 256	4095	KQSYSRRT	ADI-21973 SAD5837_P02_B05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 256	4096	AAGCAATCTTATTCTCGGAGAACT	ADI-21973 SAD5837_P02_B05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 257	4097	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTTGACGTGTGGGGCAAGGAACCCCTG	ADI-21974 SAD5837_P02_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 257	4098	4098	4098	4098	ADI-21974 SAD5837_P02_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 257	4099	4099	4099	4099	ADI-21974 SAD5837_P02_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 257	4100	4100	4100	4100	ADI-21974 SAD5837_P02_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 257	4101	4101	4101	4101	ADI-21974 SAD5837_P02_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 257	4102	4102	4102	4102	ADI-21974 SAD5837_P02_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 257	4103	4103	4103	4103	ADI-21974 SAD5837_P02_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 257	4104	4104	4104	4104	ADI-21974 SAD5837_P02_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 257	4105	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21974 SAD5837_P02_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 257	4106	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21974 SAD5837_P02_A06	Light chain variable region ("LC") amino acid sequence
Ab 257	4107	KSSQSLNSRTGKNYLA	ADI-21974 SAD5837_P02_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 257	4108	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21974 SAD5837_P02_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 257	4109	WASTRES	ADI-21974 SAD5837_P02_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 257	4110	TGGGCATCTACCCGGGAATCC	ADI-21974 SAD5837_P02_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 257	4111	KQSYSRRT	ADI-21974 SAD5837_P02_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 257	4112	AAGCAATCTTATTCTCGGAGAACT	ADI-21974 SAD5837_P02_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 258	4113	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTTTTTGACATATGGGGCCCAAGGAAACCCTGG	ADI-21975 SAD5837_P02_F08	Heavy chain variable region ("HC") nucleic acid sequence

		TCACCGTCTCCTCA			
Ab 258	4114	QVQLVQSGAEVKKPGASVKVSCKASGKFNKDYMHVVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYFCARDGYARYFFDIWGQGTLLTVV SS	ADI-21975 SAD5837_P02_F08	Heavy chain variable region ("HC") amino acid sequence	
Ab 258	4115	FNIKDYMH	ADI-21975 SAD5837_P02_F08	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 258	4116	TTCAACATCAAGGACTACTATATGCAC	ADI-21975 SAD5837_P02_F08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 258	4117	WIDLENGNTIYDPKFKQ	ADI-21975 SAD5837_P02_F08	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 258	4118	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21975 SAD5837_P02_F08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 258	4119	ARDGYARYFFDI	ADI-21975 SAD5837_P02_F08	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 258	4120	GCGAGAGATGGATACGCTAGATATTTTTTGACATA	ADI-21975 SAD5837_P02_F08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 258	4121	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21975 SAD5837_P02_F08	Light chain variable region ("LC") nucleic acid sequence
Ab 258	4122	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21975 SAD5837_P02_F08	Light chain variable region ("LC") amino acid sequence
Ab 258	4123	KSSQSLNSRTGKNYLA	ADI-21975 SAD5837_P02_F08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 258	4124	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21975 SAD5837_P02_F08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 258	4125	WASTRES	ADI-21975 SAD5837_P02_F08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 258	4126	TGGGCATCTACCCGGGAATCC	ADI-21975 SAD5837_P02_F08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 258	4127	KQSYSRRT	ADI-21975 SAD5837_P02_F08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 258	4128	AAGCAATCTTATTCTCGGAGAACT	ADI-21975 SAD5837_P02_F08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 259	4129	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTTTTTGACGTGTGGGGCCAAAGAACCTGG	ADI-21976 SAD5837_P02_B09	Heavy chain variable region ("HC") nucleic acid sequence

		TCACCGTCTCCTCA			
Ab 259	4130	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYFFDVWGQGLTVV SS	ADI-21976 SAD5837_P02_B09	Heavy chain variable region ("HC") amino acid sequence	
Ab 259	4131	FNIKDYMH	ADI-21976 SAD5837_P02_B09	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 259	4132	TTCAACATCAAGGACTACTATATGCAC	ADI-21976 SAD5837_P02_B09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 259	4133	WIDLENGNTIYDPKFKQ	ADI-21976 SAD5837_P02_B09	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 259	4134	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21976 SAD5837_P02_B09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 259	4135	ARDGYARYFFDV	ADI-21976 SAD5837_P02_B09	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 259	4136	GCGAGAGATGGATACGCTAGATATTTTTTGGCGTG	ADI-21976 SAD5837_P02_B09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 259	4137	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21976 SAD5837_P02_B09	Light chain variable region ("LC") nucleic acid sequence
Ab 259	4138	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21976 SAD5837_P02_B09	Light chain variable region ("LC") amino acid sequence
Ab 259	4139	KSSQSLNSRTGKNYLA	ADI-21976 SAD5837_P02_B09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 259	4140	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21976 SAD5837_P02_B09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 259	4141	WASTRES	ADI-21976 SAD5837_P02_B09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 259	4142	TGGGCATCTACCCGGGAATCC	ADI-21976 SAD5837_P02_B09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 259	4143	KQSYSRRT	ADI-21976 SAD5837_P02_B09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 259	4144	AAGCAATCTTATTCTCGGAGAACT	ADI-21976 SAD5837_P02_B09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 260	4145	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTTTACGACGCTCTGGGGCCCAAGGAACCCCTGG	ADI-21977 SAD5837_P02_B11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 260	4146	TCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYARYFYDVMWGQGLVTV SS	ADI-21977 SAD5837_P02_B11	Heavy chain variable region ("HC") amino acid sequence
Ab 260	4147	FNIKDYMH		ADI-21977 SAD5837_P02_B11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 260	4148	TTCAACATCAAGGACTACTATATGCAC		ADI-21977 SAD5837_P02_B11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 260	4149	WIDLENGNTIYDPKFKQG		ADI-21977 SAD5837_P02_B11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 260	4150	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21977 SAD5837_P02_B11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 260	4151	ARDGYARYFYDV		ADI-21977 SAD5837_P02_B11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 260	4152	GCGAGAGATGGATACGCTAGATATTTTACGACGTC		ADI-21977 SAD5837_P02_B11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 260	4153	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21977 SAD5837_P02_B11	Light chain variable region ("LC") nucleic acid sequence
Ab 260	4154	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21977 SAD5837_P02_B11	Light chain variable region ("LC") amino acid sequence
Ab 260	4155	KSSQSLNSRTGKNYLA	ADI-21977 SAD5837_P02_B11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 260	4156	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21977 SAD5837_P02_B11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 260	4157	WASTRES	ADI-21977 SAD5837_P02_B11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 260	4158	TGGGCATCTACCCGGGAATCC	ADI-21977 SAD5837_P02_B11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 260	4159	KQSYSRRT	ADI-21977 SAD5837_P02_B11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 260	4160	AAGCAATCTTATTCTCGGAGAACT	ADI-21977 SAD5837_P02_B11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 261	4161	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-21978 SAD5837_P04_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 261	4162	4162	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVT VSS	ADI-21978 SAD5837_P04_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 261	4163	4163	FNIKDYMH		ADI-21978 SAD5837_P04_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 261	4164	4164	TTCAACATCAAGGACTACTATATGCAC		ADI-21978 SAD5837_P04_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 261	4165	4165	WIDLENGNTIYDPKFKQ		ADI-21978 SAD5837_P04_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 261	4166	4166	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21978 SAD5837_P04_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 261	4167	4167	ARDGYGRFYDV		ADI-21978 SAD5837_P04_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 261	4168	4168	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-21978 SAD5837_P04_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 261	4169	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21978 SAD5837_P04_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 261	4170	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21978 SAD5837_P04_A01	Light chain variable region ("LC") amino acid sequence
Ab 261	4171	KSSQSLNSRTGKNYLA	ADI-21978 SAD5837_P04_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 261	4172	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21978 SAD5837_P04_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 261	4173	WASTRES	ADI-21978 SAD5837_P04_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 261	4174	TGGGCATCTACCCGGGAATCC	ADI-21978 SAD5837_P04_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 261	4175	KQSYSRRT	ADI-21978 SAD5837_P04_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 261	4176	AAGCAATCTTATTCTCGGAGAACT	ADI-21978 SAD5837_P04_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 262	4177	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTTTACGACTACTGGGGCCCAAGGAAACCTGG	ADI-21979 SAD5837_P04_A03	Heavy chain variable region ("HC") nucleic acid sequence

		TCACCGTCTCCTCA			
Ab 262	4178	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYVCARDGYARYFYDYWGQGLTVT SS	ADI-21979 SAD5837_P04_A03	Heavy chain variable region ("HC") amino acid sequence	
Ab 262	4179	FNIKDYMH	ADI-21979 SAD5837_P04_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 262	4180	TTCAACATCAAGGACTACTATATGCAC	ADI-21979 SAD5837_P04_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 262	4181	WIDLENGNTIYDPKFKQ	ADI-21979 SAD5837_P04_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 262	4182	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21979 SAD5837_P04_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 262	4183	ARDGYARYFYDY	ADI-21979 SAD5837_P04_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 262	4184	GCGAGAGATGGATACGCTAGATATTTTACGACTAC	ADI-21979 SAD5837_P04_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 262	4185	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21979 SAD5837_P04_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 262	4186	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21979 SAD5837_P04_A03	Light chain variable region ("LC") amino acid sequence
Ab 262	4187	KSSQSLNSRTGKNYLA	ADI-21979 SAD5837_P04_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 262	4188	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21979 SAD5837_P04_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 262	4189	WASTRES	ADI-21979 SAD5837_P04_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 262	4190	TGGGCATCTACCCGGGAATCC	ADI-21979 SAD5837_P04_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 262	4191	KQSYSRRT	ADI-21979 SAD5837_P04_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 262	4192	AAGCAATCTTATTCTCGGAGAACT	ADI-21979 SAD5837_P04_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 263	4193	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-22523 LAD4606_P01_H12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 263	4194	4194	4194	ADI-22523 LAD4606_P01_H12	Heavy chain variable region ("HC") amino acid sequence
Ab 263	4195	4195	4195	ADI-22523 LAD4606_P01_H12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 263	4196	4196	4196	ADI-22523 LAD4606_P01_H12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 263	4197	4197	4197	ADI-22523 LAD4606_P01_H12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 263	4198	4198	4198	ADI-22523 LAD4606_P01_H12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 263	4199	4199	4199	ADI-22523 LAD4606_P01_H12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 263	4200	4200	4200	ADI-22523 LAD4606_P01_H12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 263	4201	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-22523 LAD4606_P01_H12	Light chain variable region ("LC") nucleic acid sequence
Ab 263	4202	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-22523 LAD4606_P01_H12	Light chain variable region ("LC") amino acid sequence
Ab 263	4203	KSSQSLNSRTGKNYLA	ADI-22523 LAD4606_P01_H12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 263	4204	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-22523 LAD4606_P01_H12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 263	4205	WASTRES	ADI-22523 LAD4606_P01_H12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 263	4206	TGGGCATCTACCCGGGAATCC	ADI-22523 LAD4606_P01_H12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 263	4207	KQSYSRRT	ADI-22523 LAD4606_P01_H12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 263	4208	AAGCAATCTTATTCTCGGAGAACT	ADI-22523 LAD4606_P01_H12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 264	4209	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCCCTGAAAATGTAACACAACTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23639 LAD4707_P01_D01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 264	4210	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGWIDPENGNTIYDPKFKQGRVTITRDT TSASTAYMELSSLRSEDTAVYICARDGYGRFYDVWGG GTLVT VSS	ADI-23639 LAD4707_P01_D01	Heavy chain variable region ("HC") amino acid sequence
Ab 264	4211	FNIKDYMH		ADI-23639 LAD4707_P01_D01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 264	4212	TTCAACATCAAGGACTACTATATGCAC		ADI-23639 LAD4707_P01_D01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 264	4213	WIDPENGNTIYDPKFKQG		ADI-23639 LAD4707_P01_D01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 264	4214	TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-23639 LAD4707_P01_D01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 264	4215	ARDGYGRFYDV		ADI-23639 LAD4707_P01_D01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 264	4216	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-23639 LAD4707_P01_D01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 264	4217	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23639 LAD4707_P01_D01	Light chain variable region ("LC") nucleic acid sequence
Ab 264	4218	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23639 LAD4707_P01_D01	Light chain variable region ("LC") amino acid sequence
Ab 264	4219	KSSQSLNSRTGKNYLA	ADI-23639 LAD4707_P01_D01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 264	4220	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23639 LAD4707_P01_D01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 264	4221	WASTRES	ADI-23639 LAD4707_P01_D01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 264	4222	TGGGCATCTACCCGGGAATCC	ADI-23639 LAD4707_P01_D01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 264	4223	KQSYSRRT	ADI-23639 LAD4707_P01_D01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 264	4224	AAGCAATCTTATTCTCGGAGAACT	ADI-23639 LAD4707_P01_D01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 265	4225	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGAGTGGATAGGATGGA TCGACCCCTGAAAATGTAACACAAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCGGGACACGTCCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTACTACTGCGCTAGAGACGGTTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23640 LAD4708_P01_H02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 265	4226	4226	4226	4226	ADI-23640 LAD4708_P01_H02	Heavy chain variable region ("HC") amino acid sequence
Ab 265	4227	4227	4227	4227	ADI-23640 LAD4708_P01_H02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 265	4228	4228	4228	4228	ADI-23640 LAD4708_P01_H02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 265	4229	4229	4229	4229	ADI-23640 LAD4708_P01_H02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 265	4230	4230	4230	4230	ADI-23640 LAD4708_P01_H02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 265	4231	4231	4231	4231	ADI-23640 LAD4708_P01_H02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 265	4232	4232	4232	4232	ADI-23640 LAD4708_P01_H02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 265	4233	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23640 LAD4708_P01_H02	Light chain variable region ("LC") nucleic acid sequence
Ab 265	4234	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDFLTIIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23640 LAD4708_P01_H02	Light chain variable region ("LC") amino acid sequence
Ab 265	4235	KSSQSLNSRRTGKNYLA	ADI-23640 LAD4708_P01_H02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 265	4236	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23640 LAD4708_P01_H02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 265	4237	WASTRES	ADI-23640 LAD4708_P01_H02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 265	4238	TGGGCATCTACCCGGGAATCC	ADI-23640 LAD4708_P01_H02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 265	4239	KQSYSRRT	ADI-23640 LAD4708_P01_H02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 265	4240	AAGCAATCTTATTCTCGGAGAACT	ADI-23640 LAD4708_P01_H02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 266	4241	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-23641 LAD4709_P01_E03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 266	4242	4242	4242	4242	4242	ADI-23641 LAD4709_P01_E03	Heavy chain variable region ("HC") amino acid sequence
Ab 266	4243	4243	4243	4243	4243	ADI-23641 LAD4709_P01_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 266	4244	4244	4244	4244	4244	ADI-23641 LAD4709_P01_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 266	4245	4245	4245	4245	4245	ADI-23641 LAD4709_P01_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 266	4246	4246	4246	4246	4246	ADI-23641 LAD4709_P01_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 266	4247	4247	4247	4247	4247	ADI-23641 LAD4709_P01_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 266	4248	4248	4248	4248	4248	ADI-23641 LAD4709_P01_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 266	4249	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23641 LAD4709_P01_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 266	4250	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-23641 LAD4709_P01_E03	Light chain variable region ("LC") amino acid sequence
Ab 266	4251	KSSQSLNSRTGKNYLA	ADI-23641 LAD4709_P01_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 266	4252	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23641 LAD4709_P01_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 266	4253	WASTRES	ADI-23641 LAD4709_P01_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 266	4254	TGGGCATCTACCCGGGAATCC	ADI-23641 LAD4709_P01_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 266	4255	KQSYSLRT	ADI-23641 LAD4709_P01_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 266	4256	AAGCAATCTTATTCTCTGAGAACT	ADI-23641 LAD4709_P01_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 267	4257	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCCCTGAAAATGTTAACACAACTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-23642 LAD4710_P01_C04	Heavy chain variable region ("HC") nucleic acid sequence

			GTCAACGGTCTCCTCA			
Ab 267	4258	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEW/MGWIDPENGTIYDPKFQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYGRFYDVMWGQGLVT VSS	ADI-23642 LAD4710_P01_C04	Heavy chain variable region ("HC") amino acid sequence		
Ab 267	4259	FNIKDYMH	ADI-23642 LAD4710_P01_C04	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 267	4260	TTCAACATCAAGGACTACTATATGCAC	ADI-23642 LAD4710_P01_C04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 267	4261	WIDPENGTIYDPKFQG	ADI-23642 LAD4710_P01_C04	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 267	4262	TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-23642 LAD4710_P01_C04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 267	4263	ARDGYGRFYDV	ADI-23642 LAD4710_P01_C04	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 267	4264	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-23642 LAD4710_P01_C04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 267	4265	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23642 LAD4710_P01_C04	Light chain variable region ("LC") nucleic acid sequence
Ab 267	4266	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-23642 LAD4710_P01_C04	Light chain variable region ("LC") amino acid sequence
Ab 267	4267	KSSQSLNSRTGKNYLA	ADI-23642 LAD4710_P01_C04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 267	4268	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23642 LAD4710_P01_C04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 267	4269	WASTRES	ADI-23642 LAD4710_P01_C04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 267	4270	TGGGCATCTACCCGGGAATCC	ADI-23642 LAD4710_P01_C04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 267	4271	KQSYSLRT	ADI-23642 LAD4710_P01_C04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 267	4272	AAGCAATCTTATTCTCTGAGAACT	ADI-23642 LAD4710_P01_C04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 268	4273	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCCCTGGACAAAGGCTTGTAGTGGATAGGATGGA TCGACCCCTGAAAATGTAACACAACTATGACCCGAAAGT TTCAGGGCAGGTCACCAATAACCCGGGACACGTCCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTACTACTGCGCTAGAGACGGTTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23643 LAD4711_P01_C05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 268	4274	4274	4274	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWIGWIDPENGNITIDPKFQGRVTTADTSAST AYMIELSLRSEDTAVYVCARDGYGRYFYDVGQGTLLTVV SS	ADI-23643 LAD4711_P01_C05	Heavy chain variable region ("HC") amino acid sequence
Ab 268	4275	4275	4275	FNIKDYMH	ADI-23643 LAD4711_P01_C05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 268	4276	4276	4276	TTCAACATCAAGGACTACTATATGCAC	ADI-23643 LAD4711_P01_C05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 268	4277	4277	4277	WIDPENGNITIDPKFQG	ADI-23643 LAD4711_P01_C05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 268	4278	4278	4278	TGGATCGACCCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-23643 LAD4711_P01_C05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 268	4279	4279	4279	ARDGYGRYFYDV	ADI-23643 LAD4711_P01_C05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 268	4280	4280	4280	GCTAGAGACGGTTACGGGAGATATTTTACGACGTG	ADI-23643 LAD4711_P01_C05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 268	4281	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23643 LAD4711_P01_C05	Light chain variable region ("LC") nucleic acid sequence
Ab 268	4282	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-23643 LAD4711_P01_C05	Light chain variable region ("LC") amino acid sequence
Ab 268	4283	KSSQSLNSRTGKNYLA	ADI-23643 LAD4711_P01_C05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 268	4284	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23643 LAD4711_P01_C05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 268	4285	WASTRES	ADI-23643 LAD4711_P01_C05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 268	4286	TGGGCATCTACCCGGGAATCC	ADI-23643 LAD4711_P01_C05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 268	4287	KQSYSLRT	ADI-23643 LAD4711_P01_C05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 268	4288	AAGCAATCTTATTCTCTGAGAACT	ADI-23643 LAD4711_P01_C05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 269	4289	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-23644 LAD4758_P02_H01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 269	4290	4290	<p>GTACCCGTCCTCTCA</p> <p>QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWLDEEGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDGYGRFYDVGQGLVT VSS</p>	ADI-23644 LAD4758_P02_H01	Heavy chain variable region ("HC") amino acid sequence
Ab 269	4291	4291	FNIKDYMH	ADI-23644 LAD4758_P02_H01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 269	4292	4292	TTCAACATCAAGGACTACTATATGCAC	ADI-23644 LAD4758_P02_H01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 269	4293	4293	WIDLEEGNTIYDPKFKQG	ADI-23644 LAD4758_P02_H01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 269	4294	4294	TGGATCGACCTTGAAGAAAGGTAACACAATCTATGACCC GAAGTTTCAGGGC	ADI-23644 LAD4758_P02_H01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 269	4295	4295	ARDGYGRFYDV	ADI-23644 LAD4758_P02_H01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 269	4296	4296	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-23644 LAD4758_P02_H01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 269	4297	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23644 LAD4758_P02_H01	Light chain variable region ("LC") nucleic acid sequence
Ab 269	4298	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23644 LAD4758_P02_H01	Light chain variable region ("LC") amino acid sequence
Ab 269	4299	KSSQSLESRTGKNYLA	ADI-23644 LAD4758_P02_H01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 269	4300	AAGTCCAGCCAGAGCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23644 LAD4758_P02_H01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 269	4301	WASTRES	ADI-23644 LAD4758_P02_H01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 269	4302	TGGGCATCTACCCGGGAATCC	ADI-23644 LAD4758_P02_H01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 269	4303	KQSYSRRT	ADI-23644 LAD4758_P02_H01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 269	4304	AAGCAATCTTATTCTCGGAGAACT	ADI-23644 LAD4758_P02_H01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 270	4305	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATCAACCCGAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-23645 LAD4759_P02_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 270	4306	QVQLVQSGAEVKKPGASVKVSCKASGFKNIKDYYMHWVR QAPGQRLEW/MGWIDLENGNTIYQPKFQGRVTITRDTAS TAYMELSSLRSED TAVYVCARDGYGRYFYDVWGQGLVT VSS	ADI-23645 LAD4759_P02_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 270	4307	FNIKDYYMH	ADI-23645 LAD4759_P02_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 270	4308	TTCAACATCAAGGACTACTATATGCAC	ADI-23645 LAD4759_P02_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 270	4309	WIDLENGNTIYQPKFQG	ADI-23645 LAD4759_P02_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 270	4310	TGGATCGACCCTTGAAAATGGTAACACAATCTATCAACCG AAGTTTCAGGGC	ADI-23645 LAD4759_P02_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 270	4311	ARDGYGRYFDV	ADI-23645 LAD4759_P02_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 270	4312	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-23645 LAD4759_P02_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

GTACCCGTCTCCTCA

Ab 270	4313	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23645 LAD4759_P02_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 270	4314	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23645 LAD4759_P02_A02	Light chain variable region ("LC") amino acid sequence
Ab 270	4315	KSSQSLLESRTGKNYLA	ADI-23645 LAD4759_P02_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 270	4316	AAGTCCAGCCAGAGTCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23645 LAD4759_P02_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 270	4317	WASTRES	ADI-23645 LAD4759_P02_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 270	4318	TGGGCATCTACCCGGGAATCC	ADI-23645 LAD4759_P02_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 270	4319	KQSYSRRT	ADI-23645 LAD4759_P02_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 270	4320	AAGCAATCTTATTCTCGGAGAACT	ADI-23645 LAD4759_P02_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 271	4321	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCTT	ADI-23646 LAD4760_P02_A03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 271	4322	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYYCAREGYGRYFYDVWV GQGLTVTSS	ADI-23646 LAD4760_P02_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 271	4323	FNIKDYMH		ADI-23646 LAD4760_P02_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 271	4324	TTCAACATCAAGGACTACTATATGCAC		ADI-23646 LAD4760_P02_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 271	4325	WIDLENGNTIYDPKFKQ		ADI-23646 LAD4760_P02_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 271	4326	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-23646 LAD4760_P02_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 271	4327	AREGYGRYFYDV		ADI-23646 LAD4760_P02_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 271	4328	GCGAGAGAAGGATACGGGAGATATTTTACGACGTG		ADI-23646 LAD4760_P02_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 271	4329	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23646 LAD4760_P02_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 271	4330	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTITIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23646 LAD4760_P02_A03	Light chain variable region ("LC") amino acid sequence
Ab 271	4331	KSSQSLLESRTGKNYLA	ADI-23646 LAD4760_P02_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 271	4332	AAGTCCAGCCAGAGTCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23646 LAD4760_P02_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 271	4333	WASTRES	ADI-23646 LAD4760_P02_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 271	4334	TGGGCATCTACCCGGGAATCC	ADI-23646 LAD4760_P02_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 271	4335	KQSYSRRT	ADI-23646 LAD4760_P02_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 271	4336	AAGCAATCTTATTCTCGGAGAACT	ADI-23646 LAD4760_P02_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 272	4337	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAAACAAATCTATCAACCGAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23647 LAD4761_P02_A04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 272	4338	4338	4338	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWWVR QAPQRLEWMGWLDEEGNTIYQPKFQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYGRYFYDVWVGGTTLVT VSS	ADI-23647 LAD4761_P02_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 272	4339	4339	4339	FNIKDYMH	ADI-23647 LAD4761_P02_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 272	4340	4340	4340	TTCAACATCAAGGACTACTATATGCAC	ADI-23647 LAD4761_P02_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 272	4341	4341	4341	WIDLEEGNTIYQPKFQG	ADI-23647 LAD4761_P02_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 272	4342	4342	4342	TGGATCGACCTTGAAGAAGGTAACACAATCTATCAACCG AAGTTTCAGGGC	ADI-23647 LAD4761_P02_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 272	4343	4343	4343	ARDGYGRYFYDV	ADI-23647 LAD4761_P02_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 272	4344	4344	4344	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-23647 LAD4761_P02_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 272	4345	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23647 LAD4761_P02_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 272	4346	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23647 LAD4761_P02_A04	Light chain variable region ("LC") amino acid sequence
Ab 272	4347	KSSQSLLESRTGKNYLA	ADI-23647 LAD4761_P02_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 272	4348	AAGTCCAGCCAGAGTCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23647 LAD4761_P02_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 272	4349	WASTRES	ADI-23647 LAD4761_P02_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 272	4350	TGGGCATCTACCCGGGAATCC	ADI-23647 LAD4761_P02_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 272	4351	KQSYSRRT	ADI-23647 LAD4761_P02_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 272	4352	AAGCAATCTTATTCTCGGAGAACT	ADI-23647 LAD4761_P02_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 273	4353	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATCAACCCGAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCTT	ADI-23648 LAD4762_P02_A05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 273	4354	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYQPKFQGRVTITRDTSAS TAYMELSSLRSEDTAVYYCAREGYGRYFYDVWVGQGLTVT SS	ADI-23648 LAD4762_P02_A05	Heavy chain variable region ("HC") amino acid sequence
Ab 273	4355	FNIKDYMH		ADI-23648 LAD4762_P02_A05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 273	4356	TTCAACATCAAGGACTACTATATGCAC		ADI-23648 LAD4762_P02_A05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 273	4357	WIDLENGNTIYQPKFQG		ADI-23648 LAD4762_P02_A05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 273	4358	TGGATCGACCTTGAAAATGGTAACACAATCTATCAACCG AAGTTTCAGGGC		ADI-23648 LAD4762_P02_A05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 273	4359	AREGYGRYFYDV		ADI-23648 LAD4762_P02_A05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 273	4360	GCGAGAGAAGGATACGGGAGATATTTTACGACGTG		ADI-23648 LAD4762_P02_A05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 273	4361	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTGAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23648 LAD4762_P02_A05	Light chain variable region ("LC") nucleic acid sequence
Ab 273	4362	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23648 LAD4762_P02_A05	Light chain variable region ("LC") amino acid sequence
Ab 273	4363	KSSQSLESRTGKNYLA	ADI-23648 LAD4762_P02_A05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 273	4364	AAGTCCAGCCAGAGCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23648 LAD4762_P02_A05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 273	4365	WASTRES	ADI-23648 LAD4762_P02_A05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 273	4366	TGGGCATCTACCCGGGAATCC	ADI-23648 LAD4762_P02_A05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 273	4367	KQSYSRRT	ADI-23648 LAD4762_P02_A05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 273	4368	AAGCAATCTTATTCTCGGAGAACT	ADI-23648 LAD4762_P02_A05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 274	4369	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-23649 LAD4763_P02_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 274	4370	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLEEGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCAREGYGRYFYDVWGQGLTVT SS	ADI-23649 LAD4763_P02_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 274	4371	FNIKDYMH		ADI-23649 LAD4763_P02_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 274	4372	TTCAACATCAAGGACTACTATATGCAC		ADI-23649 LAD4763_P02_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 274	4373	WIDLEEGNTIYDPKFKQG		ADI-23649 LAD4763_P02_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 274	4374	TGGATCGACCTTGAAGAAGGTAACACAATCTATGACCC GAAGTTTCAGGGC		ADI-23649 LAD4763_P02_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 274	4375	AREGYGRYFYDV		ADI-23649 LAD4763_P02_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 274	4376	GCGAGAGAAGGATACGGGAGATATTTTACGACGTG		ADI-23649 LAD4763_P02_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 274	4377	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTTCAGTGGCAGCGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23649 LAD4763_P02_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 274	4378	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23649 LAD4763_P02_A06	Light chain variable region ("LC") amino acid sequence
Ab 274	4379	KSSQSLLESRTGKNYLA	ADI-23649 LAD4763_P02_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 274	4380	AAGTCCAGCCAGAGCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23649 LAD4763_P02_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 274	4381	WASTRES	ADI-23649 LAD4763_P02_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 274	4382	TGGGCATCTACCCGGGAATCC	ADI-23649 LAD4763_P02_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 274	4383	KQSYSRRT	ADI-23649 LAD4763_P02_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 274	4384	AAGCAATCTTATTCTCGGAGAACT	ADI-23649 LAD4763_P02_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 275	4385	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAAACAAATCTATCAACCGAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCAAAGGAAACCT	ADI-23650 LAD4764_P02_A07	Heavy chain variable region ("HC") nucleic acid sequence

		GGTCACCGTCTCCTCA			
Ab 275	4386	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWLDEEGNTIYQPKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCAREGYGRYFYDVWVGQGLTVT SS	ADI-23650 LAD4764_P02_A07	Heavy chain variable region ("HC") amino acid sequence	
Ab 275	4387	FNIKDYMH	ADI-23650 LAD4764_P02_A07	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 275	4388	TTCAACATCAAGGACTACTATATGCAC	ADI-23650 LAD4764_P02_A07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 275	4389	WIDLEEGNTIYQPKFQG	ADI-23650 LAD4764_P02_A07	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 275	4390	TGGATCGACCTTGAAGAAAGGTAACACAATCTATCAACCG AAGTTTCAGGGC	ADI-23650 LAD4764_P02_A07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 275	4391	AREGYGRYFYDV	ADI-23650 LAD4764_P02_A07	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 275	4392	GCGAGAGAGGATACGGGAGATATTTTACGACGTG	ADI-23650 LAD4764_P02_A07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 275	4393	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23650 LAD4764_P02_A07	Light chain variable region ("LC") nucleic acid sequence
Ab 275	4394	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23650 LAD4764_P02_A07	Light chain variable region ("LC") amino acid sequence
Ab 275	4395	KSSQSLESRTGKNYLA	ADI-23650 LAD4764_P02_A07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 275	4396	AAGTCCAGCCAGAGTCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23650 LAD4764_P02_A07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 275	4397	WASTRES	ADI-23650 LAD4764_P02_A07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 275	4398	TGGGCATCTACCCGGGAATCC	ADI-23650 LAD4764_P02_A07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 275	4399	KQSYSRRT	ADI-23650 LAD4764_P02_A07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 275	4400	AAGCAATCTTATTCTCGGAGAACT	ADI-23650 LAD4764_P02_A07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 276	4401	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-23651 LAD4765_P02_A08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 276	4402	4402	<p>GTCAACGGTCTCCTCA</p> <p>QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDGYGRFYDVMWGQGLVT VSS</p>	<p>ADI-23651 LAD4765_P02_A08</p>	<p>Heavy chain variable region ("HC") amino acid sequence</p>
Ab 276	4403	4403	<p>FNIKDYMH</p>	<p>ADI-23651 LAD4765_P02_A08</p>	<p>Heavy chain variable region CDR H1 ("H1") amino acid sequence</p>
Ab 276	4404	4404	<p>TTCAACATCAAGGACTACTATATGCAC</p>	<p>ADI-23651 LAD4765_P02_A08</p>	<p>Heavy chain variable region CDR H1 ("H1") nucleic acid sequence</p>
Ab 276	4405	4405	<p>WIDLENGNTIYDPKFKQG</p>	<p>ADI-23651 LAD4765_P02_A08</p>	<p>Heavy chain variable region CDR H2 ("H2") amino acid sequence</p>
Ab 276	4406	4406	<p>TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC</p>	<p>ADI-23651 LAD4765_P02_A08</p>	<p>Heavy chain variable region CDR H2 ("H2") nucleic acid sequence</p>
Ab 276	4407	4407	<p>ARDGYGRFYDV</p>	<p>ADI-23651 LAD4765_P02_A08</p>	<p>Heavy chain variable region CDR H3 ("H3") amino acid sequence</p>
Ab 276	4408	4408	<p>GCGAGAGATGGATACGGGAGATATTTTACGACGTG</p>	<p>ADI-23651 LAD4765_P02_A08</p>	<p>Heavy chain variable region CDR H3 ("H3") nucleic acid sequence</p>

Ab 276	4409	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTACTGTAAAGCAATCTTATTCTCGGAGAACTTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-23651 LAD4765_P02_A08	Light chain variable region ("LC") nucleic acid sequence
Ab 276	4410	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23651 LAD4765_P02_A08	Light chain variable region ("LC") amino acid sequence
Ab 276	4411	KSSQSLLESRTGKNYLA	ADI-23651 LAD4765_P02_A08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 276	4412	AAGTCCAGCCAGAGCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-23651 LAD4765_P02_A08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 276	4413	WASTRES	ADI-23651 LAD4765_P02_A08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 276	4414	TGGGCATCTACCCGGGAATCC	ADI-23651 LAD4765_P02_A08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 276	4415	KQSYSRRT	ADI-23651 LAD4765_P02_A08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 276	4416	AAGCAATCTTATTCTCGGAGAACT	ADI-23651 LAD4765_P02_A08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 277	4417	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-23652 LAD4766_P02_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 277	4418	4419	4420	4421	4422	4423	4424	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWR QAPQRLEWMGWLDEEGNTIYDPKFGGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVTVSS	ADI-23652 LAD4766_P02_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 277	4419	4420	4421	4422	4423	4424		FNIKDYMH		ADI-23652 LAD4766_P02_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 277	4420	4421	4422	4423	4424			TTCAACATCAAGGACTACTATATGCAC		ADI-23652 LAD4766_P02_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 277	4421	4422	4423	4424				WIDLEEGNTIYDPKFGG		ADI-23652 LAD4766_P02_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 277	4422	4423	4424					TGGATCGACCTTGAAGAAGGTAACACAATCTATGACCC GAAGTTTCAGGGC		ADI-23652 LAD4766_P02_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 277	4423	4424						ARDGYGRFYDV		ADI-23652 LAD4766_P02_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 277	4424							GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-23652 LAD4766_P02_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 277	4425	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23652 LAD4766_P02_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 277	4426	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23652 LAD4766_P02_A09	Light chain variable region ("LC") amino acid sequence
Ab 277	4427	KSSQSLNSRTGKNYLA	ADI-23652 LAD4766_P02_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 277	4428	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23652 LAD4766_P02_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 277	4429	WASTRES	ADI-23652 LAD4766_P02_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 277	4430	TGGGCATCTACCCGGGAATCC	ADI-23652 LAD4766_P02_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 277	4431	KQSYSRRT	ADI-23652 LAD4766_P02_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 277	4432	AAGCAATCTTATTCTCGGAGAACT	ADI-23652 LAD4766_P02_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 278	4433	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATCAACCCGAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23653 LAD4767_P02_A10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 278	4434	4434	4434	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYQPKFQGRVTTRDTSAS TAYMELSSLRSEDTAVYYCARDGYGRFYDVGQGLVT VSS	ADI-23653 LAD4767_P02_A10	Heavy chain variable region ("HC") amino acid sequence
Ab 278	4435	4435	4435	FNIKDYMH		ADI-23653 LAD4767_P02_A10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 278	4436	4436	4436	TTCAACATCAAGGACTACTATATGCAC		ADI-23653 LAD4767_P02_A10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 278	4437	4437	4437	WIDLENGNTIYQPKFQG		ADI-23653 LAD4767_P02_A10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 278	4438	4438	4438	TGGATCGACCTTGAAAATGGTAACACAATCTATCAACCG AAGTTTCAGGGC		ADI-23653 LAD4767_P02_A10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 278	4439	4439	4439	ARDGYGRFYDV		ADI-23653 LAD4767_P02_A10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 278	4440	4440	4440	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-23653 LAD4767_P02_A10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 278	4441	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23653 LAD4767_P02_A10	Light chain variable region ("LC") nucleic acid sequence
Ab 278	4442	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23653 LAD4767_P02_A10	Light chain variable region ("LC") amino acid sequence
Ab 278	4443	KSSQSLNSRTGKNYLA	ADI-23653 LAD4767_P02_A10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 278	4444	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23653 LAD4767_P02_A10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 278	4445	WASTRES	ADI-23653 LAD4767_P02_A10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 278	4446	TGGGCATCTACCCGGGAATCC	ADI-23653 LAD4767_P02_A10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 278	4447	KQSYSRRT	ADI-23653 LAD4767_P02_A10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 278	4448	AAGCAATCTTATTCTCGGAGAACT	ADI-23653 LAD4767_P02_A10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 279	4449	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTAATACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-23654 LAD4768_P02_F11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 279	4450	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYFCAREGYGRYFYDVWVGQGLTVT SS	ADI-23654 LAD4768_P02_F11	Heavy chain variable region ("HC") amino acid sequence
Ab 279	4451	FNIKDYMH		ADI-23654 LAD4768_P02_F11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 279	4452	TTCAACATCAAGGACTACTATATGCAC		ADI-23654 LAD4768_P02_F11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 279	4453	WIDLENGNTIYDPKFKQG		ADI-23654 LAD4768_P02_F11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 279	4454	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-23654 LAD4768_P02_F11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 279	4455	AREGYGRYFYDV		ADI-23654 LAD4768_P02_F11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 279	4456	GCGAGAGAAGGATACGGGAGATATTTTACGACGTG		ADI-23654 LAD4768_P02_F11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 279	4457	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23654 LAD4768_P02_F11	Light chain variable region ("LC") nucleic acid sequence
Ab 279	4458	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-23654 LAD4768_P02_F11	Light chain variable region ("LC") amino acid sequence
Ab 279	4459	KSSQSLNSRTGKNYLA	ADI-23654 LAD4768_P02_F11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 279	4460	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23654 LAD4768_P02_F11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 279	4461	WASTRES	ADI-23654 LAD4768_P02_F11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 279	4462	TGGGCATCTACCCGGGAATCC	ADI-23654 LAD4768_P02_F11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 279	4463	KQSYSRRT	ADI-23654 LAD4768_P02_F11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 279	4464	AAGCAATCTTATTCTCGGAGAACT	ADI-23654 LAD4768_P02_F11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 280	4465	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAAACAAATCTATCAACCGAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23655 LAD4769_P02_H01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 280	4466	4466	<p>GTCAACCGTCTCCTCA</p> <p>QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWLDEEGNTIYQPKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDGYGRFYDVGQGLVT VSS</p>	ADI-23655 LAD4769_P02_H01	Heavy chain variable region ("HC") amino acid sequence
Ab 280	4467	4467	FNIKDYMH	ADI-23655 LAD4769_P02_H01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 280	4468	4468	TTCAACATCAAGGACTACTATATGCAC	ADI-23655 LAD4769_P02_H01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 280	4469	4469	WIDLEEGNTIYQPKFQG	ADI-23655 LAD4769_P02_H01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 280	4470	4470	TGGATCGACCTTGAAGAAAGGTAACACAATCTATCAACCG AAGTTTCAGGGC	ADI-23655 LAD4769_P02_H01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 280	4471	4471	ARDGYGRFYDV	ADI-23655 LAD4769_P02_H01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 280	4472	4472	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-23655 LAD4769_P02_H01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 280	4473	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23655 LAD4769_P02_H01	Light chain variable region ("LC") nucleic acid sequence
Ab 280	4474	DIVMTQSPDSLAVSLGERATINCKSSQSLLSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23655 LAD4769_P02_H01	Light chain variable region ("LC") amino acid sequence
Ab 280	4475	KSSQSLLSRTGKNYLA	ADI-23655 LAD4769_P02_H01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 280	4476	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23655 LAD4769_P02_H01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 280	4477	WASTRES	ADI-23655 LAD4769_P02_H01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 280	4478	TGGGCATCTACCCGGGAATCC	ADI-23655 LAD4769_P02_H01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 280	4479	KQSYSRRT	ADI-23655 LAD4769_P02_H01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 280	4480	AAGCAATCTTATTCTCGGAGAACT	ADI-23655 LAD4769_P02_H01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 281	4481	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATCAACCCGAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCTT	ADI-23656 LAD4770_P02_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 281	4482	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYQPKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCAREGYGRYFYDVWVGQGLTVT SS	ADI-23656 LAD4770_P02_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 281	4483	FNIKDYMH		ADI-23656 LAD4770_P02_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 281	4484	TTCAACATCAAGGACTACTATATGCAC		ADI-23656 LAD4770_P02_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 281	4485	WIDLENGNTIYQPKFQG		ADI-23656 LAD4770_P02_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 281	4486	TGGATCGACCTTGAAAATGGTAACACAATCTATCAACCG AAGTTTCAGGGC		ADI-23656 LAD4770_P02_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 281	4487	AREGYGRYFYDV		ADI-23656 LAD4770_P02_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 281	4488	GCGAGAGAAGGATACGGGAGATATTTTACGACGTG		ADI-23656 LAD4770_P02_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 281	4489	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23656 LAD4770_P02_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 281	4490	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23656 LAD4770_P02_A02	Light chain variable region ("LC") amino acid sequence
Ab 281	4491	KSSQSLNSRTGKNYLA	ADI-23656 LAD4770_P02_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 281	4492	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23656 LAD4770_P02_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 281	4493	WASTRES	ADI-23656 LAD4770_P02_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 281	4494	TGGGCATCTACCCGGGAATCC	ADI-23656 LAD4770_P02_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 281	4495	KQSYSRRT	ADI-23656 LAD4770_P02_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 281	4496	AAGCAATCTTATTCTCGGAGAACT	ADI-23656 LAD4770_P02_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 282	4497	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTAATACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCTT	ADI-23657 LAD4771_P02_H03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 282	4498	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWDLEEGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYFCAREGYGRYFYDVWVGQGLTVT SS	ADI-23657 LAD4771_P02_H03	Heavy chain variable region ("HC") amino acid sequence
Ab 282	4499	FNIKDYMH		ADI-23657 LAD4771_P02_H03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 282	4500	TTCAACATCAAGGACTACTATATGCAC		ADI-23657 LAD4771_P02_H03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 282	4501	WIDLEEGNTIYDPKFKQG		ADI-23657 LAD4771_P02_H03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 282	4502	TGGATCGACCTTGAAGAAAGGTAACACAATCTATGACCC GAAGTTTCAGGGC		ADI-23657 LAD4771_P02_H03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 282	4503	AREGYGRYFYDV		ADI-23657 LAD4771_P02_H03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 282	4504	GCGAGAGAAAGGATACGGGAGATATTTTACGACGTG		ADI-23657 LAD4771_P02_H03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 282	4505	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23657 LAD4771_P02_H03	Light chain variable region ("LC") nucleic acid sequence
Ab 282	4506	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGTDFTLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23657 LAD4771_P02_H03	Light chain variable region ("LC") amino acid sequence
Ab 282	4507	KSSQSLNSRTGKNYLA	ADI-23657 LAD4771_P02_H03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 282	4508	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23657 LAD4771_P02_H03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 282	4509	WASTRES	ADI-23657 LAD4771_P02_H03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 282	4510	TGGGCATCTACCCGGGAATCC	ADI-23657 LAD4771_P02_H03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 282	4511	KQSYSRRT	ADI-23657 LAD4771_P02_H03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 282	4512	AAGCAATCTTATTCTCGGAGAACT	ADI-23657 LAD4771_P02_H03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 283	4513	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAAGGTAAACAAATCTATCAACCGAAGT TTCAGGGCAGGTCACCATAAACCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGAGGATAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-23658 LAD4772_P02_A04	Heavy chain variable region ("HC") nucleic acid sequence

		GGTCACCGTCTCCTCA			
Ab 283	4514	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWLDEEGNTIYQPKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCAREGYGRYFYDVWVGQGLTVT SS	ADI-23658 LAD4772_P02_A04	Heavy chain variable region ("HC") amino acid sequence	
Ab 283	4515	FNIKDYMH	ADI-23658 LAD4772_P02_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 283	4516	TTCAACATCAAGGACTACTATATGCAC	ADI-23658 LAD4772_P02_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 283	4517	WIDLEEGNTIYQPKFQG	ADI-23658 LAD4772_P02_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 283	4518	TGGATCGACCTTGAAGAAGGTAACACAATCTATCAACCG AAGTTTCAGGGC	ADI-23658 LAD4772_P02_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 283	4519	AREGYGRYFYDV	ADI-23658 LAD4772_P02_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 283	4520	GCGAGAGAAGGATACGGGAGATATTTTACGACGTG	ADI-23658 LAD4772_P02_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 283	4521	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23658 LAD4772_P02_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 283	4522	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-23658 LAD4772_P02_A04	Light chain variable region ("LC") amino acid sequence
Ab 283	4523	KSSQSLNSRTGKNYLA	ADI-23658 LAD4772_P02_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 283	4524	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23658 LAD4772_P02_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 283	4525	WASTRES	ADI-23658 LAD4772_P02_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 283	4526	TGGGCATCTACCCGGGAATCC	ADI-23658 LAD4772_P02_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 283	4527	KQSYSRRT	ADI-23658 LAD4772_P02_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 283	4528	AAGCAATCTTATTCTCGGAGAACT	ADI-23658 LAD4772_P02_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 284	4529	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACCCGAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23659 LAD4779_P01_A04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 284	4530	4530	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFKNIKDYMHVWR QAPGQRLEWMGIDLENANTYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYVCARDGYGRFYDVMWGQGLVT VSS	ADI-23659 LAD4779_P01_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 284	4531	4531	FNIKDYMH		ADI-23659 LAD4779_P01_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 284	4532	4532	TTCAACATCAAGGACTACTATATGCAC		ADI-23659 LAD4779_P01_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 284	4533	4533	WIDLENANTYDPKFKQG		ADI-23659 LAD4779_P01_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 284	4534	4534	TGGATCGACCTTGAAAATGCTAACACAACTATGACCCG AAGTTTCAGGGC		ADI-23659 LAD4779_P01_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 284	4535	4535	ARDGYGRFYDV		ADI-23659 LAD4779_P01_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 284	4536	4536	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-23659 LAD4779_P01_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 284	4537	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23659 LAD4779_P01_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 284	4538	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-23659 LAD4779_P01_A04	Light chain variable region ("LC") amino acid sequence
Ab 284	4539	KSSQSLLNARTGKNYLA	ADI-23659 LAD4779_P01_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 284	4540	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-23659 LAD4779_P01_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 284	4541	WASTRES	ADI-23659 LAD4779_P01_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 284	4542	TGGGCATCTACCCGGGAATCC	ADI-23659 LAD4779_P01_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 284	4543	KQSYRRRT	ADI-23659 LAD4779_P01_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 284	4544	AAGCAATCTTATTCTCGGAGAACT	ADI-23659 LAD4779_P01_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 285	4545	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23660 LAD4780_P01_B05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 285	4553	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23660 LAD4780_P01_B05	Light chain variable region ("LC") nucleic acid sequence
Ab 285	4554	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-23660 LAD4780_P01_B05	Light chain variable region ("LC") amino acid sequence
Ab 285	4555	KSSQSLLNARTGKNYLA	ADI-23660 LAD4780_P01_B05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 285	4556	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-23660 LAD4780_P01_B05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 285	4557	WASTRES	ADI-23660 LAD4780_P01_B05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 285	4558	TGGGCATCTACCCGGGAATCC	ADI-23660 LAD4780_P01_B05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 285	4559	KQSYRRRT	ADI-23660 LAD4780_P01_B05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 285	4560	AAGCAATCTTATTCTCGGAGAACT	ADI-23660 LAD4780_P01_B05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 286	4561	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23661 LAD4781_P01_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 286	4562	4562	Ab 286	ADI-23661 LAD4781_P01_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 286	4563	4563	Ab 286	ADI-23661 LAD4781_P01_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 286	4564	4564	Ab 286	ADI-23661 LAD4781_P01_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 286	4565	4565	Ab 286	ADI-23661 LAD4781_P01_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 286	4566	4566	Ab 286	ADI-23661 LAD4781_P01_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 286	4567	4567	Ab 286	ADI-23661 LAD4781_P01_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 286	4568	4568	Ab 286	ADI-23661 LAD4781_P01_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 286	4569	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23661 LAD4781_P01_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 286	4570	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-23661 LAD4781_P01_A06	Light chain variable region ("LC") amino acid sequence
Ab 286	4571	KSSQSLLNARTGKNYLA	ADI-23661 LAD4781_P01_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 286	4572	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-23661 LAD4781_P01_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 286	4573	WASTRES	ADI-23661 LAD4781_P01_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 286	4574	TGGGCATCTACCCGGGAATCC	ADI-23661 LAD4781_P01_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 286	4575	KQSYRRRT	ADI-23661 LAD4781_P01_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 286	4576	AAGCAATCTTATTCTCGGAGAACT	ADI-23661 LAD4781_P01_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 287	4577	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCATAAACCAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23663 LAD4783_P01_C08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 287	4578	4578	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDAKFKQGRVTITRDT SAS TAYMELSSLRSEDTAVYICARDAYGRYFYDVMWGQGL TVT SS	ADI-23663 LAD4783_P01_C08	Heavy chain variable region ("HC") amino acid sequence
Ab 287	4579	4579	FNIKDYMH		ADI-23663 LAD4783_P01_C08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 287	4580	4580	TTCAACATCAAGGACTACTATATGCAC		ADI-23663 LAD4783_P01_C08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 287	4581	4581	WIDLENGNTIYDAKFKQ		ADI-23663 LAD4783_P01_C08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 287	4582	4582	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACGCT AAGTTTCAGGGC		ADI-23663 LAD4783_P01_C08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 287	4583	4583	ARDAYGRYFDV		ADI-23663 LAD4783_P01_C08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 287	4584	4584	GCGAGAGATGCTTACGGGGAGATATTTTACGACGTG		ADI-23663 LAD4783_P01_C08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 287	4585	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23663 LAD4783_P01_C08	Light chain variable region ("LC") nucleic acid sequence
Ab 287	4586	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-23663 LAD4783_P01_C08	Light chain variable region ("LC") amino acid sequence
Ab 287	4587	KSSQSLLNARTGKNYLA	ADI-23663 LAD4783_P01_C08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 287	4588	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-23663 LAD4783_P01_C08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 287	4589	WASTRES	ADI-23663 LAD4783_P01_C08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 287	4590	TGGGCATCTACCCGGGAATCC	ADI-23663 LAD4783_P01_C08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 287	4591	KQSYRRRT	ADI-23663 LAD4783_P01_C08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 287	4592	AAGCAATCTTATTCTCGGAGAACT	ADI-23663 LAD4783_P01_C08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 288	4593	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACCCGAAGT TTCAGGGCAGGTCACCATAAACCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23664 LAD4784_P01_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 288	4594	4594	4594	ADI-23664 LAD4784_P01_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 288	4595	4595	4595	ADI-23664 LAD4784_P01_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 288	4596	4596	4596	ADI-23664 LAD4784_P01_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 288	4597	4597	4597	ADI-23664 LAD4784_P01_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 288	4598	4598	4598	ADI-23664 LAD4784_P01_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 288	4599	4599	4599	ADI-23664 LAD4784_P01_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 288	4600	4600	4600	ADI-23664 LAD4784_P01_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 288	4601	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23664 LAD4784_P01_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 288	4602	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-23664 LAD4784_P01_A09	Light chain variable region ("LC") amino acid sequence
Ab 288	4603	KSSQSLLNARTGKNYLA	ADI-23664 LAD4784_P01_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 288	4604	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-23664 LAD4784_P01_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 288	4605	WASTRES	ADI-23664 LAD4784_P01_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 288	4606	TGGGCATCTACCCGGGAATCC	ADI-23664 LAD4784_P01_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 288	4607	KQSYRRRT	ADI-23664 LAD4784_P01_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 288	4608	AAGCAATCTTATTCTCGGAGAACT	ADI-23664 LAD4784_P01_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 289	4609	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCCTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23667 LAD4787_P01_A12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 289	4610	<p>GTACCGTCTCCTCA</p> <p>QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWR QAPGQRLEWMGIDLENANTYDPKFKGGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDGYGRFYDVWGQGLVT VSS</p>	ADI-23667 LAD4787_P01_A12	Heavy chain variable region ("HC") amino acid sequence
Ab 289	4611	FNIKDYYMH	ADI-23667 LAD4787_P01_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 289	4612	TTCAACATCAAGGACTACTATATGCAC	ADI-23667 LAD4787_P01_A12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 289	4613	WIDLENANTYDPKFKQG	ADI-23667 LAD4787_P01_A12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 289	4614	TGGATCGACCTTGAAAATGCTAACACAACTATGACCCG AAGTTTCAGGGC	ADI-23667 LAD4787_P01_A12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 289	4615	ARDGYGRFYDV	ADI-23667 LAD4787_P01_A12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 289	4616	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-23667 LAD4787_P01_A12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 289	4617	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23667 LAD4787_P01_A12	Light chain variable region ("LC") nucleic acid sequence
Ab 289	4618	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23667 LAD4787_P01_A12	Light chain variable region ("LC") amino acid sequence
Ab 289	4619	KSSQSLNSRTGKNYLA	ADI-23667 LAD4787_P01_A12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 289	4620	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23667 LAD4787_P01_A12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 289	4621	WASTRES	ADI-23667 LAD4787_P01_A12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 289	4622	TGGGCATCTACCCGGGAATCC	ADI-23667 LAD4787_P01_A12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 289	4623	KQSYSRRT	ADI-23667 LAD4787_P01_A12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 289	4624	AAGCAATCTTATTCTCGGAGAACT	ADI-23667 LAD4787_P01_A12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 290	4625	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23668 LAD4788_P01_C01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 290	4626	4626	4626	4626	ADI-23668 LAD4788_P01_C01	Heavy chain variable region ("HC") amino acid sequence
Ab 290	4627	4627	4627	4627	ADI-23668 LAD4788_P01_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 290	4628	4628	4628	4628	ADI-23668 LAD4788_P01_C01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 290	4629	4629	4629	4629	ADI-23668 LAD4788_P01_C01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 290	4630	4630	4630	4630	ADI-23668 LAD4788_P01_C01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 290	4631	4631	4631	4631	ADI-23668 LAD4788_P01_C01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 290	4632	4632	4632	4632	ADI-23668 LAD4788_P01_C01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 290	4633	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23668 LAD4788_P01_C01	Light chain variable region ("LC") nucleic acid sequence
Ab 290	4634	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23668 LAD4788_P01_C01	Light chain variable region ("LC") amino acid sequence
Ab 290	4635	KSSQSLNSRTGKNYLA	ADI-23668 LAD4788_P01_C01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 290	4636	AAGTCCAGCCAGAGCTTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23668 LAD4788_P01_C01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 290	4637	WASTRES	ADI-23668 LAD4788_P01_C01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 290	4638	TGGGCATCTACCCGGGAATCC	ADI-23668 LAD4788_P01_C01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 290	4639	KQSYSRRT	ADI-23668 LAD4788_P01_C01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 290	4640	AAGCAATCTTATTCTCGGAGAACT	ADI-23668 LAD4788_P01_C01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 291	4641	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-23669 LAD4789_P01_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 291	4649	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23669 LAD4789_P01_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 291	4650	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23669 LAD4789_P01_A02	Light chain variable region ("LC") amino acid sequence
Ab 291	4651	KSSQSLNSRTGKNYLA	ADI-23669 LAD4789_P01_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 291	4652	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23669 LAD4789_P01_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 291	4653	WASTRES	ADI-23669 LAD4789_P01_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 291	4654	TGGGCATCTACCCGGGAATCC	ADI-23669 LAD4789_P01_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 291	4655	KQSYSRRT	ADI-23669 LAD4789_P01_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 291	4656	AAGCAATCTTATTCTCGGAGAACT	ADI-23669 LAD4789_P01_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 292	4657	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23670 LAD4790_P01_H03	Heavy chain variable region ("HC") nucleic acid sequence

		GTACCGTCTCCTCA				
Ab 292	4658	QVQLVQSGAEVKKPGASVKVSCKASGFKNIKDYYMHWVR QAPGQRLEWMGWLIDLENANTYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYGRFYDVGQGLVT VSS	ADI-23670 LAD4790_P01_H03		Heavy chain variable region ("HC") amino acid sequence	
Ab 292	4659	FNIKDYYMH	ADI-23670 LAD4790_P01_H03		Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 292	4660	TTCAACATCAAGGACTACTATATGCAC	ADI-23670 LAD4790_P01_H03		Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 292	4661	WIDLENANTYDAKFQG	ADI-23670 LAD4790_P01_H03		Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 292	4662	TGGATCGACCTTGAAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC	ADI-23670 LAD4790_P01_H03		Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 292	4663	ARDGYGRFYDV	ADI-23670 LAD4790_P01_H03		Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 292	4664	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-23670 LAD4790_P01_H03		Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 292	4665	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23670 LAD4790_P01_H03	Light chain variable region ("LC") nucleic acid sequence
Ab 292	4666	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-23670 LAD4790_P01_H03	Light chain variable region ("LC") amino acid sequence
Ab 292	4667	KSSQSLNSRTGKNYLA	ADI-23670 LAD4790_P01_H03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 292	4668	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23670 LAD4790_P01_H03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 292	4669	WASTRES	ADI-23670 LAD4790_P01_H03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 292	4670	TGGGCATCTACCCGGGAATCC	ADI-23670 LAD4790_P01_H03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 292	4671	KQSYSRRT	ADI-23670 LAD4790_P01_H03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 292	4672	AAGCAATCTTATTCTCGGAGAACT	ADI-23670 LAD4790_P01_H03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 293	4673	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23671 LAD4791_P01_A04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 293	4674	4674	4674	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDAKFKQGRVTITRDTSAS TAYMELSSLRSEDTAVYYCARDAYGRYFYDVMWGQGLVTY SS	ADI-23671 LAD4791_P01_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 293	4675	4675	4675	FNIKDYMH	ADI-23671 LAD4791_P01_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 293	4676	4676	4676	TTCAACATCAAGGACTACTATATGCAC	ADI-23671 LAD4791_P01_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 293	4677	4677	4677	WIDLENGNTIYDAKFKQ	ADI-23671 LAD4791_P01_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 293	4678	4678	4678	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACGCT AAGTTTCAGGGC	ADI-23671 LAD4791_P01_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 293	4679	4679	4679	ARDAYGRYFDV	ADI-23671 LAD4791_P01_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 293	4680	4680	4680	GCGAGAGATGCTTACGGGAGATATTTTACGACGTG	ADI-23671 LAD4791_P01_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 293	4681	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23671 LAD4791_P01_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 293	4682	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23671 LAD4791_P01_A04	Light chain variable region ("LC") amino acid sequence
Ab 293	4683	KSSQSLNSRTGKNYLA	ADI-23671 LAD4791_P01_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 293	4684	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23671 LAD4791_P01_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 293	4685	WASTRES	ADI-23671 LAD4791_P01_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 293	4686	TGGGCATCTACCCGGGAATCC	ADI-23671 LAD4791_P01_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 293	4687	KQSYSRRT	ADI-23671 LAD4791_P01_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 293	4688	AAGCAATCTTATTCTCGGAGAACT	ADI-23671 LAD4791_P01_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 294	4689	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTTACG GGAGATAATTTTACGACGTGTGGGGCCAAAGGAAACCTCG	ADI-23672 LAD4792_P01_A05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 294	4690	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTIYDPKFKQGRVTITRDT TAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLVTV SS	ADI-23672 LAD4792_P01_A05	Heavy chain variable region ("HC") amino acid sequence
Ab 294	4691	FNIKDYYMH	ADI-23672 LAD4792_P01_A05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 294	4692	TTCAACATCAAGGACTACTATATGCAC	ADI-23672 LAD4792_P01_A05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 294	4693	WIDLENANTIYDPKFKQG	ADI-23672 LAD4792_P01_A05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 294	4694	TGGATCGACCTTGAAAATGCTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-23672 LAD4792_P01_A05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 294	4695	ARDAYGRYFDV	ADI-23672 LAD4792_P01_A05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 294	4696	GCGAGAGATGCTTACGGGGAGATATTTTACGACGTG	ADI-23672 LAD4792_P01_A05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
		GTCACCGTCTCCTCA		

Ab 294	4697	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23672 LAD4792_P01_A05	Light chain variable region ("LC") nucleic acid sequence
Ab 294	4698	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-23672 LAD4792_P01_A05	Light chain variable region ("LC") amino acid sequence
Ab 294	4699	KSSQSLNSRTGKNYLA	ADI-23672 LAD4792_P01_A05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 294	4700	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23672 LAD4792_P01_A05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 294	4701	WASTRES	ADI-23672 LAD4792_P01_A05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 294	4702	TGGGCATCTACCCGGGAATCC	ADI-23672 LAD4792_P01_A05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 294	4703	KQSYSRRT	ADI-23672 LAD4792_P01_A05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 294	4704	AAGCAATCTTATTCTCGGAGAACT	ADI-23672 LAD4792_P01_A05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 295	4705	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-23673 LAD4793_P01_D06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 295	4706	4706	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDAYGRFYDVVWGG GTLVTYSS	ADI-23673 LAD4793_P01_D06	Heavy chain variable region ("HC") amino acid sequence
Ab 295	4707	4707	FNIKDYMH		ADI-23673 LAD4793_P01_D06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 295	4708	4708	TTCAACATCAAGGACTACTATATGCAC		ADI-23673 LAD4793_P01_D06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 295	4709	4709	WIDLENANTYDAKFKQ		ADI-23673 LAD4793_P01_D06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 295	4710	4710	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC		ADI-23673 LAD4793_P01_D06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 295	4711	4711	ARDAYGRFYDV		ADI-23673 LAD4793_P01_D06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 295	4712	4712	GCGAGAGATGCTTACGGGAGATATTTTACGACGTG		ADI-23673 LAD4793_P01_D06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 295	4713	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-23673 LAD4793_P01_D06	Light chain variable region ("LC") nucleic acid sequence
Ab 295	4714	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-23673 LAD4793_P01_D06	Light chain variable region ("LC") amino acid sequence
Ab 295	4715	KSSQSLNSRRTGKNYLA	ADI-23673 LAD4793_P01_D06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 295	4716	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-23673 LAD4793_P01_D06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 295	4717	WASTRES	ADI-23673 LAD4793_P01_D06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 295	4718	TGGGCATCTACCCGGGAATCC	ADI-23673 LAD4793_P01_D06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 295	4719	KQSYSRRT	ADI-23673 LAD4793_P01_D06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 295	4720	AAGCAATCTTATTCTCGGAGAACT	ADI-23673 LAD4793_P01_D06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 296	4721	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-24403 BAD24629_D09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 296	4722	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYYCARDGYGRFYD VWVGQGLVTVSS	ADI-24403 BAD24629_D09	Heavy chain variable region ("HC") amino acid sequence
Ab 296	4723	FNIKDYMH	ADI-24403 BAD24629_D09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 296	4724	TTCAACATCAAGGACTACTATATGCAC	ADI-24403 BAD24629_D09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 296	4725	WIDLENGNTIYDPKFKQ	ADI-24403 BAD24629_D09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 296	4726	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24403 BAD24629_D09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 296	4727	ARDGYGRFYDV	ADI-24403 BAD24629_D09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 296	4728	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24403 BAD24629_D09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 296	4729	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24403 BAD24629_D09	Light chain variable region ("LC") nucleic acid sequence
Ab 296	4730	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24403 BAD24629_D09	Light chain variable region ("LC") amino acid sequence
Ab 296	4731	KSSQSLNSRTGKNYLA	ADI-24403 BAD24629_D09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 296	4732	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24403 BAD24629_D09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 296	4733	WASTRES	ADI-24403 BAD24629_D09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 296	4734	TGGGCATCTACCCGGGAATCC	ADI-24403 BAD24629_D09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 296	4735	KQSYSRRT	ADI-24403 BAD24629_D09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 296	4736	AAGCAATCTTATTCTCGGAGAACT	ADI-24403 BAD24629_D09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 297	4737	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24404 BAD24629_H09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 297	4738	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTTTRDTSAS TAYMELSSLRSEDTAVYICARDGYGRFYDVMWGQGLVT VSS	ADI-24404 BAD24629_H09	Heavy chain variable region ("HC") amino acid sequence
Ab 297	4739	FNIKDYMH	ADI-24404 BAD24629_H09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 297	4740	TTCAACATCAAGGACTACTATATGCAC	ADI-24404 BAD24629_H09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 297	4741	WIDLENGNTIYDPKFKQG	ADI-24404 BAD24629_H09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 297	4742	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACCCG AAGTTTCAGGGC	ADI-24404 BAD24629_H09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 297	4743	ARDGYGRFYDV	ADI-24404 BAD24629_H09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 297	4744	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24404 BAD24629_H09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 297	4745	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24404 BAD24629_H09	Light chain variable region ("LC") nucleic acid sequence
Ab 297	4746	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24404 BAD24629_H09	Light chain variable region ("LC") amino acid sequence
Ab 297	4747	KSSQSLNSRTGKNYLA	ADI-24404 BAD24629_H09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 297	4748	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24404 BAD24629_H09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 297	4749	WASTRES	ADI-24404 BAD24629_H09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 297	4750	TGGGCATCTACCCGGGAATCC	ADI-24404 BAD24629_H09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 297	4751	KQSYSRRT	ADI-24404 BAD24629_H09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 297	4752	AAGCAATCTTATTCTCGGAGAACT	ADI-24404 BAD24629_H09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 298	4753	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGTGTACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24405 BAD24629_C10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 298	4754	4754	4754	ADI-24405 BAD24629_C10	Heavy chain variable region ("HC") amino acid sequence
Ab 298	4755	4755	4755	ADI-24405 BAD24629_C10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 298	4756	4756	4756	ADI-24405 BAD24629_C10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 298	4757	4757	4757	ADI-24405 BAD24629_C10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 298	4758	4758	4758	ADI-24405 BAD24629_C10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 298	4759	4759	4759	ADI-24405 BAD24629_C10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 298	4760	4760	4760	ADI-24405 BAD24629_C10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 298	4761	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24405 BAD24629_C10	Light chain variable region ("LC") nucleic acid sequence
Ab 298	4762	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24405 BAD24629_C10	Light chain variable region ("LC") amino acid sequence
Ab 298	4763	KSSQSLNSRTGKNYLA	ADI-24405 BAD24629_C10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 298	4764	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24405 BAD24629_C10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 298	4765	WASTRES	ADI-24405 BAD24629_C10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 298	4766	TGGGCATCTACCCGGGAATCC	ADI-24405 BAD24629_C10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 298	4767	KQSYSRRT	ADI-24405 BAD24629_C10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 298	4768	AAGCAATCTTATTCTCGGAGAACT	ADI-24405 BAD24629_C10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 299	4769	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24407 BAD24629_C11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 299	4770	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVTVSS	ADI-24407 BAD24629_C11	Heavy chain variable region ("HC") amino acid sequence
Ab 299	4771	FNIKDYMH	ADI-24407 BAD24629_C11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 299	4772	TTCAACATCAAGGACTACTATATGCAC	ADI-24407 BAD24629_C11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 299	4773	WIDLENGNTIYDPKFKQG	ADI-24407 BAD24629_C11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 299	4774	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24407 BAD24629_C11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 299	4775	ARDGYGRFYD	ADI-24407 BAD24629_C11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 299	4776	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24407 BAD24629_C11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 299	4777	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24407 BAD24629_C11	Light chain variable region ("LC") nucleic acid sequence
Ab 299	4778	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-24407 BAD24629_C11	Light chain variable region ("LC") amino acid sequence
Ab 299	4779	KSSQSLNSRTGKNYLA	ADI-24407 BAD24629_C11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 299	4780	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24407 BAD24629_C11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 299	4781	WASTRES	ADI-24407 BAD24629_C11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 299	4782	TGGGCATCTACCCGGGAATCC	ADI-24407 BAD24629_C11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 299	4783	KQSYSRRT	ADI-24407 BAD24629_C11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 299	4784	AAGCAATCTTATTCTCGGAGAACT	ADI-24407 BAD24629_C11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 300	4785	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGTGTACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24408 BAD24629_F11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 300	4786	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVTVSS	ADI-24408 BAD24629_F11	Heavy chain variable region ("HC") amino acid sequence
Ab 300	4787	FNIKDYMH	ADI-24408 BAD24629_F11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 300	4788	TTCAACATCAAGGACTACTATATGCAC	ADI-24408 BAD24629_F11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 300	4789	WIDLENGNTIYDPKFKQG	ADI-24408 BAD24629_F11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 300	4790	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24408 BAD24629_F11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 300	4791	ARDGYGRFYD	ADI-24408 BAD24629_F11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 300	4792	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24408 BAD24629_F11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 300	4793	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24408 BAD24629_F11	Light chain variable region ("LC") nucleic acid sequence
Ab 300	4794	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24408 BAD24629_F11	Light chain variable region ("LC") amino acid sequence
Ab 300	4795	KSSQSLNSRTGKNYLA	ADI-24408 BAD24629_F11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 300	4796	AAGTCCAGCCAGAGCTTTTAAACAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-24408 BAD24629_F11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 300	4797	WASTRES	ADI-24408 BAD24629_F11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 300	4798	TGGGCATCTACCCGGGAATCC	ADI-24408 BAD24629_F11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 300	4799	KQSYSRRT	ADI-24408 BAD24629_F11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 300	4800	AAGCAATCTTATTCTCGGAGAACT	ADI-24408 BAD24629_F11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 301	4801	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24409 BAD24629_A12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 301	4802	<p>QVQLVQSGAEVKKPGASVKVSCKASGTFNIKDYMHWR QAPGQRLEWMGWDLENGNTIYDPKFKGRVTITRDTAS TAYMELSSLRSEDTAVYVCARDGYGRFYDVMWGQGLVT VSS</p>	ADI-24409 BAD24629_A12	Heavy chain variable region ("HC") amino acid sequence
Ab 301	4803	FNIKDYMH	ADI-24409 BAD24629_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 301	4804	TTCAACATCAAGGACTACTATATGCAC	ADI-24409 BAD24629_A12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 301	4805	WIDLENGNTIYDPKFKQG	ADI-24409 BAD24629_A12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 301	4806	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24409 BAD24629_A12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 301	4807	ARDGYGRFYDV	ADI-24409 BAD24629_A12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 301	4808	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24409 BAD24629_A12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 301	4809	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24409 BAD24629_A12	Light chain variable region ("LC") nucleic acid sequence
Ab 301	4810	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24409 BAD24629_A12	Light chain variable region ("LC") amino acid sequence
Ab 301	4811	KSSQSLNSRTGKNYLA	ADI-24409 BAD24629_A12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 301	4812	AAGTCCAGCCAGAGTCTTTAAACAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-24409 BAD24629_A12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 301	4813	WASTRES	ADI-24409 BAD24629_A12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 301	4814	TGGGCATCTACCCGGGAATCC	ADI-24409 BAD24629_A12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 301	4815	KQSYSRRT	ADI-24409 BAD24629_A12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 301	4816	AAGCAATCTTATTCTCGGAGAACT	ADI-24409 BAD24629_A12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 302	4817	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24410 BAD24629_F12	Heavy chain variable region ("HC") nucleic acid sequence

		GTACCCGTCTCCTCA			
Ab 302	4818	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHWR QAPQRLEWMGWLIDLENGNTIYDPKFKQGRVITTRDTSAS TAYMELSSLRSEDVAVYYCARDGYGRFYDVMWGQGLVT VSS	ADI-24410 BAD24629_F12	Heavy chain variable region ("HC") amino acid sequence	
Ab 302	4819	FNIKDYMH	ADI-24410 BAD24629_F12	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 302	4820	TTCAACATCAAGGACTACTATATGCAC	ADI-24410 BAD24629_F12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 302	4821	WIDLENGNTIYDPKFKQ	ADI-24410 BAD24629_F12	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 302	4822	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24410 BAD24629_F12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 302	4823	ARDGYGRFYDV	ADI-24410 BAD24629_F12	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 302	4824	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24410 BAD24629_F12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 302	4825	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24410 BAD24629_F12	Light chain variable region ("LC") nucleic acid sequence
Ab 302	4826	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-24410 BAD24629_F12	Light chain variable region ("LC") amino acid sequence
Ab 302	4827	KSSQSLNSRTGKNYLA	ADI-24410 BAD24629_F12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 302	4828	AAGTCCAGCCAGAGCTTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24410 BAD24629_F12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 302	4829	WASTRES	ADI-24410 BAD24629_F12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 302	4830	TGGGCATCTACCCGGGAATCC	ADI-24410 BAD24629_F12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 302	4831	KQSYSRRT	ADI-24410 BAD24629_F12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 302	4832	AAGCAATCTTATTCTCGGAGAACT	ADI-24410 BAD24629_F12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 303	4833	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-24411 BAD24630_C01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 303	4834	4834	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDGYGRFYDVMWGQGLVT VSS	ADI-24411 BAD24630_C01	Heavy chain variable region ("HC") amino acid sequence
Ab 303	4835	4835	FNIKDYMH		ADI-24411 BAD24630_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 303	4836	4836	TTCAACATCAAGGACTACTATATGCAC		ADI-24411 BAD24630_C01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 303	4837	4837	WIDLENGNTIYDPKFKQ		ADI-24411 BAD24630_C01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 303	4838	4838	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-24411 BAD24630_C01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 303	4839	4839	ARDGYGRFYDV		ADI-24411 BAD24630_C01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 303	4840	4840	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-24411 BAD24630_C01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 303	4841	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24411 BAD24630_C01	Light chain variable region ("LC") nucleic acid sequence
Ab 303	4842	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24411 BAD24630_C01	Light chain variable region ("LC") amino acid sequence
Ab 303	4843	KSSQSLNSRTGKNYLA	ADI-24411 BAD24630_C01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 303	4844	AAGTCCAGCCAGAGTCTTTAAACAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-24411 BAD24630_C01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 303	4845	WASTRES	ADI-24411 BAD24630_C01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 303	4846	TGGGCATCTACCCGGGAATCC	ADI-24411 BAD24630_C01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 303	4847	KQSYSRRT	ADI-24411 BAD24630_C01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 303	4848	AAGCAATCTTATTCTCGGAGAACT	ADI-24411 BAD24630_C01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 304	4849	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24412 BAD24630_G01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 304	4850	4850	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYDVVWGQ GTLVT VSS	ADI-24412 BAD24630_G01	Heavy chain variable region ("HC") amino acid sequence
Ab 304	4851	4851	FNIKDYMH		ADI-24412 BAD24630_G01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 304	4852	4852	TTCAACATCAAGGACTACTATATGCAC		ADI-24412 BAD24630_G01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 304	4853	4853	WIDLENGNTIYDPKFKQ		ADI-24412 BAD24630_G01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 304	4854	4854	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACCCG AAGTTTCAGGGC		ADI-24412 BAD24630_G01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 304	4855	4855	ARDGYGRFYDV		ADI-24412 BAD24630_G01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 304	4856	4856	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-24412 BAD24630_G01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 304	4857	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24412 BAD24630_G01	Light chain variable region ("LC") nucleic acid sequence
Ab 304	4858	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-24412 BAD24630_G01	Light chain variable region ("LC") amino acid sequence
Ab 304	4859	KSSQSLNSRTGKNYLA	ADI-24412 BAD24630_G01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 304	4860	AAGTCCAGCCAGAGTCTTTAAACAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-24412 BAD24630_G01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 304	4861	WASTRES	ADI-24412 BAD24630_G01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 304	4862	TGGGCATCTACCCGGGAATCC	ADI-24412 BAD24630_G01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 304	4863	KQSYSRRT	ADI-24412 BAD24630_G01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 304	4864	AAGCAATCTTATTCTCGGAGAACT	ADI-24412 BAD24630_G01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 305	4865	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCAAAGGAAACCCCTG	ADI-24413 BAD24630_D02	Heavy chain variable region ("HC") nucleic acid sequence

			GTACCGTCTCCTCA			
Ab 305	4866	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHWVR QAPGQRLEWMGWDLENNGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVT VSS		ADI-24413 BAD24630_D02	Heavy chain variable region ("HC") amino acid sequence	
Ab 305	4867	FNIKDYYMH		ADI-24413 BAD24630_D02	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 305	4868	TTCAACATCAAGGACTACTATATGCAC		ADI-24413 BAD24630_D02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 305	4869	WIDLENGNTIYDPKFKQ		ADI-24413 BAD24630_D02	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 305	4870	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-24413 BAD24630_D02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 305	4871	ARDGYGRFYDV		ADI-24413 BAD24630_D02	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 305	4872	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-24413 BAD24630_D02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 305	4873	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24413 BAD24630_D02	Light chain variable region ("LC") nucleic acid sequence
Ab 305	4874	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24413 BAD24630_D02	Light chain variable region ("LC") amino acid sequence
Ab 305	4875	KSSQSLNSRTGKNYLA	ADI-24413 BAD24630_D02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 305	4876	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24413 BAD24630_D02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 305	4877	WASTRES	ADI-24413 BAD24630_D02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 305	4878	TGGGCATCTACCCGGGAATCC	ADI-24413 BAD24630_D02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 305	4879	KQSYSRRT	ADI-24413 BAD24630_D02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 305	4880	AAGCAATCTTATTCTCGGAGAACT	ADI-24413 BAD24630_D02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 306	4881	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24414 BAD24734_G01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 306	4889	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24414 BAD24734_G01	Light chain variable region ("LC") nucleic acid sequence
Ab 306	4890	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24414 BAD24734_G01	Light chain variable region ("LC") amino acid sequence
Ab 306	4891	KSSQSLNSRTGKNYLA	ADI-24414 BAD24734_G01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 306	4892	AAGTCCAGCCAGAGCTTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24414 BAD24734_G01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 306	4893	WASTRES	ADI-24414 BAD24734_G01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 306	4894	TGGGCATCTACCCGGGAATCC	ADI-24414 BAD24734_G01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 306	4895	KQSYSRRT	ADI-24414 BAD24734_G01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 306	4896	AAGCAATCTTATTCTCGGAGAACT	ADI-24414 BAD24734_G01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 307	4897	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24415 BAD24702_D04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 307	4898	4898	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTTTRDTSAS TAYMELSSLRSEDTAVYYCARDGYGRFYDVMWGQGLVT VSS	ADI-24415 BAD24702_D04	Heavy chain variable region ("HC") amino acid sequence
Ab 307	4899	4899		FNIKDYMH	ADI-24415 BAD24702_D04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 307	4900	4900		TTCAACATCAAGGACTACTATATGCAC	ADI-24415 BAD24702_D04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 307	4901	4901		WIDLENGNTIYDPKFKQ	ADI-24415 BAD24702_D04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 307	4902	4902		TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24415 BAD24702_D04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 307	4903	4903		ARDGYGRFYDV	ADI-24415 BAD24702_D04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 307	4904	4904		GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24415 BAD24702_D04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 307	4905	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24415 BAD24702_D04	Light chain variable region ("LC") nucleic acid sequence
Ab 307	4906	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-24415 BAD24702_D04	Light chain variable region ("LC") amino acid sequence
Ab 307	4907	KSSQSLNSRTGKNYLA	ADI-24415 BAD24702_D04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 307	4908	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24415 BAD24702_D04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 307	4909	WASTRES	ADI-24415 BAD24702_D04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 307	4910	TGGGCATCTACCCGGGAATCC	ADI-24415 BAD24702_D04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 307	4911	KQSYSRRT	ADI-24415 BAD24702_D04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 307	4912	AAGCAATCTTATTCTCGGAGAACT	ADI-24415 BAD24702_D04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 308	4913	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24416 BAD24702_C05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 308	4914	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVVWR QAPGQRLEWMGWIDLENGNTIYDPKFKGGRVTTTRDTSAS TAYMELSSLRSEDVAVYICARDGYGRFYDVGQGTLVT VSS	ADI-24416 BAD24702_C05	Heavy chain variable region ("HC") amino acid sequence
Ab 308	4915	FNIKDYMH	ADI-24416 BAD24702_C05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 308	4916	TTCAACATCAAGGACTACTATATGCAC	ADI-24416 BAD24702_C05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 308	4917	WIDLENGNTIYDPKFKQG	ADI-24416 BAD24702_C05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 308	4918	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24416 BAD24702_C05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 308	4919	ARDGYGRFYDV	ADI-24416 BAD24702_C05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 308	4920	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24416 BAD24702_C05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 308	4921	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24416 BAD24702_C05	Light chain variable region ("LC") nucleic acid sequence
Ab 308	4922	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24416 BAD24702_C05	Light chain variable region ("LC") amino acid sequence
Ab 308	4923	KSSQSLNSRTGKNYLA	ADI-24416 BAD24702_C05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 308	4924	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24416 BAD24702_C05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 308	4925	WASTRES	ADI-24416 BAD24702_C05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 308	4926	TGGGCATCTACCCGGGAATCC	ADI-24416 BAD24702_C05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 308	4927	KQSYSRRT	ADI-24416 BAD24702_C05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 308	4928	AAGCAATCTTATTCTCGGAGAACT	ADI-24416 BAD24702_C05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 309	4929	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24417 BAD24702_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 309	4930	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVTVSS	ADI-24417 BAD24702_E05	Heavy chain variable region ("HC") amino acid sequence
Ab 309	4931	FNIKDYMH	ADI-24417 BAD24702_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 309	4932	TTCAACATCAAGGACTACTATATGCAC	ADI-24417 BAD24702_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 309	4933	WIDLENGNTIYDPKFKQG	ADI-24417 BAD24702_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 309	4934	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24417 BAD24702_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 309	4935	ARDGYGRFYDV	ADI-24417 BAD24702_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 309	4936	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24417 BAD24702_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 309	4937	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24417 BAD24702_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 309	4938	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-24417 BAD24702_E05	Light chain variable region ("LC") amino acid sequence
Ab 309	4939	KSSQSLNSRTGKNYLA	ADI-24417 BAD24702_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 309	4940	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24417 BAD24702_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 309	4941	WASTRES	ADI-24417 BAD24702_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 309	4942	TGGGCATCTACCCGGGAATCC	ADI-24417 BAD24702_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 309	4943	KQSYSRRT	ADI-24417 BAD24702_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 309	4944	AAGCAATCTTATTCTCGGAGAACT	ADI-24417 BAD24702_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 310	4945	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCAGTGTACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-24418 BAD24734_B02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 310	4946	4946	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVTVSS	ADI-24418 BAD24734_B02	Heavy chain variable region ("HC") amino acid sequence
Ab 310	4947	4947	FNIKDYMH		ADI-24418 BAD24734_B02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 310	4948	4948	TTCAACATCAAGGACTACTATATGCAC		ADI-24418 BAD24734_B02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 310	4949	4949	WIDLENGNTIYDPKFKQ		ADI-24418 BAD24734_B02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 310	4950	4950	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACCCG AAGTTTCAGGGC		ADI-24418 BAD24734_B02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 310	4951	4951	ARDGYGRFYDV		ADI-24418 BAD24734_B02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 310	4952	4952	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-24418 BAD24734_B02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 310	4953	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-24418 BAD24734_B02	Light chain variable region ("LC") nucleic acid sequence
Ab 310	4954	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-24418 BAD24734_B02	Light chain variable region ("LC") amino acid sequence
Ab 310	4955	KSSQSLNSRTGKNYLA	ADI-24418 BAD24734_B02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 310	4956	AAGTCCAGCCAGAGCTTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24418 BAD24734_B02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 310	4957	WASTRES	ADI-24418 BAD24734_B02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 310	4958	TGGGCATCTACCCGGGAATCC	ADI-24418 BAD24734_B02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 310	4959	KQSYSRRT	ADI-24418 BAD24734_B02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 310	4960	AAGCAATCTTATTCTCGGAGAACT	ADI-24418 BAD24734_B02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 311	4961	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTAATACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24434 BAD24631_D01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 311	4962	4962	4962	4962	ADI-24434 BAD24631_D01	Heavy chain variable region ("HC") amino acid sequence
Ab 311	4963	4963	4963	4963	ADI-24434 BAD24631_D01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 311	4964	4964	4964	4964	ADI-24434 BAD24631_D01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 311	4965	4965	4965	4965	ADI-24434 BAD24631_D01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 311	4966	4966	4966	4966	ADI-24434 BAD24631_D01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 311	4967	4967	4967	4967	ADI-24434 BAD24631_D01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 311	4968	4968	4968	4968	ADI-24434 BAD24631_D01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 311	4969	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24434 BAD24631_D01	Light chain variable region ("LC") nucleic acid sequence
Ab 311	4970	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24434 BAD24631_D01	Light chain variable region ("LC") amino acid sequence
Ab 311	4971	KSSQSLNSRTGKNYLA	ADI-24434 BAD24631_D01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 311	4972	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24434 BAD24631_D01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 311	4973	WASTRES	ADI-24434 BAD24631_D01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 311	4974	TGGGCATCTACCCGGGAATCC	ADI-24434 BAD24631_D01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 311	4975	KQSYSRRT	ADI-24434 BAD24631_D01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 311	4976	AAGCAATCTTATTCTCGGAGAACT	ADI-24434 BAD24631_D01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 312	4977	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24435 BAD24631_G01	Heavy chain variable region ("HC") nucleic acid sequence

		GTACCGTCTCCTCA			
Ab 312	4978	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQCLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVTVSS	ADI-24435 BAD24631_G01	Heavy chain variable region ("HC") amino acid sequence	
Ab 312	4979	FNIKDYMH	ADI-24435 BAD24631_G01	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 312	4980	TTCAACATCAAGGACTACTATATGCAC	ADI-24435 BAD24631_G01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 312	4981	WIDLENGNTIYDPKFKQ	ADI-24435 BAD24631_G01	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 312	4982	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24435 BAD24631_G01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 312	4983	ARDGYGRFYDV	ADI-24435 BAD24631_G01	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 312	4984	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24435 BAD24631_G01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 312	4985	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24435 BAD24631_G01	Light chain variable region ("LC") nucleic acid sequence
Ab 312	4986	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24435 BAD24631_G01	Light chain variable region ("LC") amino acid sequence
Ab 312	4987	KSSQSLNSRTGKNYLA	ADI-24435 BAD24631_G01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 312	4988	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24435 BAD24631_G01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 312	4989	WASTRES	ADI-24435 BAD24631_G01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 312	4990	TGGGCATCTACCCGGGAATCC	ADI-24435 BAD24631_G01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 312	4991	KQSYSRRT	ADI-24435 BAD24631_G01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 312	4992	AAGCAATCTTATTCTCGGAGAACT	ADI-24435 BAD24631_G01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 313	4993	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24436 BAD24631_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 313	4994	4994	4994	ADI-24436 BAD24631_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 313	4995	4995	4995	ADI-24436 BAD24631_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 313	4996	4996	4996	ADI-24436 BAD24631_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 313	4997	4997	4997	ADI-24436 BAD24631_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 313	4998	4998	4998	ADI-24436 BAD24631_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 313	4999	4999	4999	ADI-24436 BAD24631_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 313	5000	5000	5000	ADI-24436 BAD24631_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 313	5001	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24436 BAD24631_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 313	5002	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24436 BAD24631_A02	Light chain variable region ("LC") amino acid sequence
Ab 313	5003	KSSQSLNSRTGKNYLA	ADI-24436 BAD24631_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 313	5004	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24436 BAD24631_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 313	5005	WASTRES	ADI-24436 BAD24631_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 313	5006	TGGGCATCTACCCGGGAATCC	ADI-24436 BAD24631_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 313	5007	KQSYSRRT	ADI-24436 BAD24631_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 313	5008	AAGCAATCTTATTCTCGGAGAACT	ADI-24436 BAD24631_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 314	5009	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24437 BAD24631_E02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 314	5010	5010	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQCLEWMGWIDLENGNTIYDPKFKQGRVTTTRDTSAS TAYMELSSLRSEDTAVYYCARDGYGRFYDVMWGQGLVT VSS	ADI-24437 BAD24631_E02	Heavy chain variable region ("HC") amino acid sequence
Ab 314	5011	5011	FNIKDYMH		ADI-24437 BAD24631_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 314	5012	5012	TTCAACATCAAGGACTACTATATGCAC		ADI-24437 BAD24631_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 314	5013	5013	WIDLENGNTIYDPKFKQG		ADI-24437 BAD24631_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 314	5014	5014	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-24437 BAD24631_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 314	5015	5015	ARDGYGRFYDV		ADI-24437 BAD24631_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 314	5016	5016	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-24437 BAD24631_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 314	5017	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24437 BAD24631_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 314	5018	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24437 BAD24631_E02	Light chain variable region ("LC") amino acid sequence
Ab 314	5019	KSSQSLNSRTGKNYLA	ADI-24437 BAD24631_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 314	5020	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24437 BAD24631_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 314	5021	WASTRES	ADI-24437 BAD24631_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 314	5022	TGGGCATCTACCCGGGAATCC	ADI-24437 BAD24631_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 314	5023	KQSYSRRT	ADI-24437 BAD24631_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 314	5024	AAGCAATCTTATTCTCGGAGAACT	ADI-24437 BAD24631_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 315	5025	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-24438 BAD24734_A06	Heavy chain variable region ("HC") nucleic acid sequence

		GTCACCGTCTCCTCA			
Ab 315	5026	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQCLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYYCARDGYGRFYD VWVGQGLVT VSS	ADI-24438 BAD24734_A06	Heavy chain variable region ("HC") amino acid sequence	
Ab 315	5027	FNIKDYMH	ADI-24438 BAD24734_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 315	5028	TTCAACATCAAGGACTACTATATGCAC	ADI-24438 BAD24734_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 315	5029	WIDLENGNTIYDPKFKQ	ADI-24438 BAD24734_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 315	5030	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24438 BAD24734_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 315	5031	ARDGYGRFYDV	ADI-24438 BAD24734_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 315	5032	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24438 BAD24734_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 315	5033	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24438 BAD24734_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 315	5034	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24438 BAD24734_A06	Light chain variable region ("LC") amino acid sequence
Ab 315	5035	KSSQSLNSRTGKNYLA	ADI-24438 BAD24734_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 315	5036	AAGTCCAGCCAGAGCTTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24438 BAD24734_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 315	5037	WASTRES	ADI-24438 BAD24734_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 315	5038	TGGGCATCTACCCGGGAATCC	ADI-24438 BAD24734_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 315	5039	KQSYSRRT	ADI-24438 BAD24734_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 315	5040	AAGCAATCTTATTCTCGGAGAACT	ADI-24438 BAD24734_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 316	5041	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGATGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24439 BAD24631_G04	Heavy chain variable region ("HC") nucleic acid sequence

		GTCACCGTCTCCTCA		
Ab 316	5042	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWR QAPGQCLEWMGWIDLENGNTIYDPMFQGRVTITRDTSA STAYMELSSLRSEDTAVYVCARDGYGRFYDVMVGGQGLVT VSS	ADI-24439 BAD24631_G04	Heavy chain variable region ("HC") amino acid sequence
Ab 316	5043	FNIKDYMH	ADI-24439 BAD24631_G04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 316	5044	TTCAACATCAAGGACTACTATATGCAC	ADI-24439 BAD24631_G04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 316	5045	WIDLENGNTIYDPMFQG	ADI-24439 BAD24631_G04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 316	5046	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG ATGTTTCAGGGC	ADI-24439 BAD24631_G04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 316	5047	ARDGYGRFYDV	ADI-24439 BAD24631_G04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 316	5048	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24439 BAD24631_G04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 316	5049	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24439 BAD24631_G04	Light chain variable region ("LC") nucleic acid sequence
Ab 316	5050	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24439 BAD24631_G04	Light chain variable region ("LC") amino acid sequence
Ab 316	5051	KSSQSLNSRTGKNYLA	ADI-24439 BAD24631_G04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 316	5052	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24439 BAD24631_G04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 316	5053	WASTRES	ADI-24439 BAD24631_G04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 316	5054	TGGGCATCTACCCGGGAATCC	ADI-24439 BAD24631_G04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 316	5055	KQSYSRRT	ADI-24439 BAD24631_G04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 316	5056	AAGCAATCTTATTCTCGGAGAACT	ADI-24439 BAD24631_G04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 317	5057	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGTACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24440 BAD24631_D05	Heavy chain variable region ("HC") nucleic acid sequence

		GTCACCGTCTCCTCA			
Ab 317	5058	QVQLVQSGAEVKKPGASVKVSCKASGKFNKDYMHWR QAPGQCLEWMGWIDLENGNTIYDPKFGQGRVTITRDTAS TAYMELSSLRSEDVAVYICARDGYGRFYDVGQGLVT VSS	ADI-24440 BAD24631_D05	Heavy chain variable region ("HC") amino acid sequence	
Ab 317	5059	FNIKDYMH	ADI-24440 BAD24631_D05	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 317	5060	TTCAACATCAAGGACTACTATATGCAC	ADI-24440 BAD24631_D05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 317	5061	WIDLENGNTIYDPKFGQ	ADI-24440 BAD24631_D05	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 317	5062	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24440 BAD24631_D05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 317	5063	ARDGYGRFYDV	ADI-24440 BAD24631_D05	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 317	5064	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24440 BAD24631_D05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 317	5065	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24440 BAD24631_D05	Light chain variable region ("LC") nucleic acid sequence
Ab 317	5066	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24440 BAD24631_D05	Light chain variable region ("LC") amino acid sequence
Ab 317	5067	KSSQSLNSRTGKNYLA	ADI-24440 BAD24631_D05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 317	5068	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24440 BAD24631_D05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 317	5069	WASTRES	ADI-24440 BAD24631_D05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 317	5070	TGGGCATCTACCCGGGAATCC	ADI-24440 BAD24631_D05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 317	5071	KQSYSRRT	ADI-24440 BAD24631_D05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 317	5072	AAGCAATCTTATTCTCGGAGAACT	ADI-24440 BAD24631_D05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 318	5073	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGTACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCAAAGGAAACCCCTG	ADI-24441 BAD24631_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 318	5074	5074	5074	ADI-24441 BAD24631_E05	Heavy chain variable region ("HC") amino acid sequence
Ab 318	5075	5075	5075	ADI-24441 BAD24631_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 318	5076	5076	5076	ADI-24441 BAD24631_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 318	5077	5077	5077	ADI-24441 BAD24631_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 318	5078	5078	5078	ADI-24441 BAD24631_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 318	5079	5079	5079	ADI-24441 BAD24631_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 318	5080	5080	5080	ADI-24441 BAD24631_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 318	5081	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24441 BAD24631_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 318	5082	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24441 BAD24631_E05	Light chain variable region ("LC") amino acid sequence
Ab 318	5083	KSSQSLNSRTGKNYLA	ADI-24441 BAD24631_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 318	5084	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24441 BAD24631_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 318	5085	WASTRES	ADI-24441 BAD24631_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 318	5086	TGGGCATCTACCCGGGAATCC	ADI-24441 BAD24631_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 318	5087	KQSYSRRT	ADI-24441 BAD24631_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 318	5088	AAGCAATCTTATTCTCGGAGAACT	ADI-24441 BAD24631_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 319	5089	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24442 BAD24734_C07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 319	5090	5090	5090	ADI-24442 BAD24734_C07	Heavy chain variable region ("HC") amino acid sequence
Ab 319	5091	5091	5091	ADI-24442 BAD24734_C07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 319	5092	5092	5092	ADI-24442 BAD24734_C07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 319	5093	5093	5093	ADI-24442 BAD24734_C07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 319	5094	5094	5094	ADI-24442 BAD24734_C07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 319	5095	5095	5095	ADI-24442 BAD24734_C07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 319	5096	5096	5096	ADI-24442 BAD24734_C07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 319	5097	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24442 BAD24734_C07	Light chain variable region ("LC") nucleic acid sequence
Ab 319	5098	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24442 BAD24734_C07	Light chain variable region ("LC") amino acid sequence
Ab 319	5099	KSSQSLNSRTGKNYLA	ADI-24442 BAD24734_C07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 319	5100	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24442 BAD24734_C07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 319	5101	WASTRES	ADI-24442 BAD24734_C07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 319	5102	TGGGCATCTACCCGGGAATCC	ADI-24442 BAD24734_C07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 319	5103	KQSYSRRT	ADI-24442 BAD24734_C07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 319	5104	AAGCAATCTTATTCTCGGAGAACT	ADI-24442 BAD24734_C07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 320	5105	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-24443 BAD24631_F06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 320	5113	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24443 BAD24631_F06	Light chain variable region ("LC") nucleic acid sequence
Ab 320	5114	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24443 BAD24631_F06	Light chain variable region ("LC") amino acid sequence
Ab 320	5115	KSSQSLNSRTGKNYLA	ADI-24443 BAD24631_F06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 320	5116	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24443 BAD24631_F06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 320	5117	WASTRES	ADI-24443 BAD24631_F06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 320	5118	TGGGCATCTACCCGGGAATCC	ADI-24443 BAD24631_F06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 320	5119	KQSYSRRT	ADI-24443 BAD24631_F06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 320	5120	AAGCAATCTTATTCTCGGAGAACT	ADI-24443 BAD24631_F06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 321	5121	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24444 BAD24631_B07	Heavy chain variable region ("HC") nucleic acid sequence

		GTACCGTCTCCTCA			
Ab 321	5122	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHWVR QAPGQCLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYYCARDGYGRFYD VWVGQGLVTVSS	ADI-24444 BAD24631_B07	Heavy chain variable region ("HC") amino acid sequence	
Ab 321	5123	FNIKDYMH	ADI-24444 BAD24631_B07	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 321	5124	TTCAACATCAAGGACTACTATATGCAC	ADI-24444 BAD24631_B07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 321	5125	WIDLENGNTIYDPKFKQ	ADI-24444 BAD24631_B07	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 321	5126	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24444 BAD24631_B07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 321	5127	ARDGYGRFYDV	ADI-24444 BAD24631_B07	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 321	5128	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24444 BAD24631_B07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 321	5129	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24444 BAD24631_B07	Light chain variable region ("LC") nucleic acid sequence
Ab 321	5130	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24444 BAD24631_B07	Light chain variable region ("LC") amino acid sequence
Ab 321	5131	KSSQSLNSRTGKNYLA	ADI-24444 BAD24631_B07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 321	5132	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24444 BAD24631_B07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 321	5133	WASTRES	ADI-24444 BAD24631_B07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 321	5134	TGGGCATCTACCCGGGAATCC	ADI-24444 BAD24631_B07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 321	5135	KQSYSRRT	ADI-24444 BAD24631_B07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 321	5136	AAGCAATCTTATTCTCGGAGAACT	ADI-24444 BAD24631_B07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 322	5137	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24445 BAD24631_H07	Heavy chain variable region ("HC") nucleic acid sequence

			GTACCGTCTCCTCA			
Ab 322	5138	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHHWVR QAPGQCLEWMGWIDLENGNTIYDPKFGGRVTTTRDTSAS TAYMELSSLRSEDTAVYVCARDGYGRFYDVVWGQGLVT VSS	ADI-24445 BAD24631_H07	Heavy chain variable region ("HC") amino acid sequence		
Ab 322	5139	FNIKDYMH	ADI-24445 BAD24631_H07	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 322	5140	TTCAACATCAAGGACTACTATATGCAC	ADI-24445 BAD24631_H07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 322	5141	WIDLENGNTIYDPKFGG	ADI-24445 BAD24631_H07	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 322	5142	TGGATCGACCTTGAAAATGGTAACACAAATCTATGACCCG AAGTTTCAGGGC	ADI-24445 BAD24631_H07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 322	5143	ARDGYGRFYDV	ADI-24445 BAD24631_H07	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 322	5144	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24445 BAD24631_H07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 322	5145	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGGACCAAGGTCGAGATCAAA	ADI-24445 BAD24631_H07	Light chain variable region ("LC") nucleic acid sequence
Ab 322	5146	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24445 BAD24631_H07	Light chain variable region ("LC") amino acid sequence
Ab 322	5147	KSSQSLNSRTGKNYLA	ADI-24445 BAD24631_H07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 322	5148	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24445 BAD24631_H07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 322	5149	WASTRES	ADI-24445 BAD24631_H07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 322	5150	TGGGCATCTACCCGGGAATCC	ADI-24445 BAD24631_H07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 322	5151	KQSYSRRT	ADI-24445 BAD24631_H07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 322	5152	AAGCAATCTTATTCTCGGAGAACT	ADI-24445 BAD24631_H07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 323	5153	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAATGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24446 BAD24631_H08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 323	5154	5154	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGKFNKDYMHVWR QAPGQCLEWMGWIDLENGNTIYDPKFKQGRVTITRDT SASTAYMELSSLRSEDTAVYFCARDGYGRFYD VWVGQGLVTVSS	ADI-24446 BAD24631_H08	Heavy chain variable region ("HC") amino acid sequence
Ab 323	5155	5155	FNIKDYMH		ADI-24446 BAD24631_H08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 323	5156	5156	TTCAACATCAAGGACTACTATATGCAC		ADI-24446 BAD24631_H08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 323	5157	5157	WIDLENGNTIYDPKFKQ		ADI-24446 BAD24631_H08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 323	5158	5158	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-24446 BAD24631_H08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 323	5159	5159	ARDGYGRFYDV		ADI-24446 BAD24631_H08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 323	5160	5160	GCGAGAGATGGATACGGGAGATATTTTACGACGTG		ADI-24446 BAD24631_H08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 323	5161	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24446 BAD24631_H08	Light chain variable region ("LC") nucleic acid sequence
Ab 323	5162	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24446 BAD24631_H08	Light chain variable region ("LC") amino acid sequence
Ab 323	5163	KSSQSLNSRTGKNYLA	ADI-24446 BAD24631_H08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 323	5164	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24446 BAD24631_H08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 323	5165	WASTRES	ADI-24446 BAD24631_H08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 323	5166	TGGGCATCTACCCGGGAATCC	ADI-24446 BAD24631_H08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 323	5167	KQSYSRRT	ADI-24446 BAD24631_H08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 323	5168	AAGCAATCTTATTCTCGGAGAACT	ADI-24446 BAD24631_H08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 324	5169	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGAGGATGCTTGGAGTGGATGGATGGA TCGACCTTGAAAATGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCCCTG	ADI-24449 BAD24631_H12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 324	5170	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGGCLEWMGWIDLENGNTIYDPKFGQGRVTITRDT SASTAYMELSSLRSEDTAVYICARDGYGRFYD VWVGQGLVTVSS	ADI-24449 BAD24631_H12	Heavy chain variable region ("HC") amino acid sequence
Ab 324	5171	FNIKDYMH	ADI-24449 BAD24631_H12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 324	5172	TTCAACATCAAGGACTACTATATGCAC	ADI-24449 BAD24631_H12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 324	5173	WIDLENGNTIYDPKFGQ	ADI-24449 BAD24631_H12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 324	5174	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-24449 BAD24631_H12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 324	5175	ARDGYGRFYDV	ADI-24449 BAD24631_H12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 324	5176	GCGAGAGATGGATACGGGAGATATTTTACGACGTG	ADI-24449 BAD24631_H12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 324	5177	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCTGTGGACCAAGGTCGAGATCAAA	ADI-24449 BAD24631_H12	Light chain variable region ("LC") nucleic acid sequence
Ab 324	5178	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGCGTKVEIK	ADI-24449 BAD24631_H12	Light chain variable region ("LC") amino acid sequence
Ab 324	5179	KSSQSLNSRTGKNYLA	ADI-24449 BAD24631_H12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 324	5180	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-24449 BAD24631_H12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 324	5181	WASTRES	ADI-24449 BAD24631_H12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 324	5182	TGGGCATCTACCCGGGAATCC	ADI-24449 BAD24631_H12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 324	5183	KQSYSRRT	ADI-24449 BAD24631_H12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 324	5184	AAGCAATCTTATTCTCGGAGAACT	ADI-24449 BAD24631_H12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 325	5185	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26906 LAD5224_P03_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 325	5193	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26906 LAD5224_P03_A01	Light chain variable region ("LC") nucleic acid sequence
Ab 325	5194	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26906 LAD5224_P03_A01	Light chain variable region ("LC") amino acid sequence
Ab 325	5195	KSSQSLLNARTGKNYLA	ADI-26906 LAD5224_P03_A01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 325	5196	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26906 LAD5224_P03_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 325	5197	WASTRES	ADI-26906 LAD5224_P03_A01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 325	5198	TGGGCATCTACCCGGGAATCC	ADI-26906 LAD5224_P03_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 325	5199	KQSYRRRT	ADI-26906 LAD5224_P03_A01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 325	5200	AAGCAATCTTATTCTCGGAGAACT	ADI-26906 LAD5224_P03_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 326	5201	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGGTAGAGATGCGTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26907 LAD5224_P03_D02	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 326	5202	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTSAS TAYMELSSLRSEDTAVYCYGRDAYGRFYDYVWGQGLVT VSS	ADI-26907 LAD5224_P03_D02	Heavy chain variable region ("HC") amino acid sequence		
Ab 326	5203	FNIKDYMH	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 326	5204	TTCAACATCAAGGACTACTATATGCAC	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 326	5205	WIDLENANTYDAKFKQ	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 326	5206	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 326	5207	GRDAYGRFYDV	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 326	5208	GGTAGAGATGCGTACGGGAGATATTTTTACGACGTG	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 326	5209	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26907 LAD5224_P03_D02	Light chain variable region ("LC") nucleic acid sequence
Ab 326	5210	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26907 LAD5224_P03_D02	Light chain variable region ("LC") amino acid sequence
Ab 326	5211	KSSQSLLNARTGKNYLA	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 326	5212	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 326	5213	WASTRES	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 326	5214	TGGGCATCTACCCGGGAATCC	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 326	5215	KQSYRRRT	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 326	5216	AAGCAATCTTATTCTCGGAGAACT	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 327	5217	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGCTGACTACTGCTGCGGAGAGATGCTTAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-26908 LAD5224_P03_A03	Heavy chain variable region ("HC") nucleic acid sequence

		GGTCACCGTCTCCTCA			
Ab 327	5218	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGWIDLEEGNTIYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDAYGRFYDVMGGGTLVTY SS	ADI-26908 LAD5224_P03_A03	Heavy chain variable region ("HC") amino acid sequence	
Ab 327	5219	FNIKDYMH	ADI-26908 LAD5224_P03_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 327	5220	TTCAACATCAAGGACTACTATATGCAC	ADI-26908 LAD5224_P03_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 327	5221	WIDLEEGNTIYDAKFQG	ADI-26908 LAD5224_P03_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 327	5222	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC	ADI-26908 LAD5224_P03_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 327	5223	ARDAYGRFYDV	ADI-26908 LAD5224_P03_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 327	5224	GCGAGAGATGCTTACGGGAGATATTTTACGACGTG	ADI-26908 LAD5224_P03_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 327	5225	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26908 LAD5224_P03_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 327	5226	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26908 LAD5224_P03_A03	Light chain variable region ("LC") amino acid sequence
Ab 327	5227	KSSQSLLNARTGKNYLA	ADI-26908 LAD5224_P03_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 327	5228	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26908 LAD5224_P03_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 327	5229	WASTRES	ADI-26908 LAD5224_P03_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 327	5230	TGGGCATCTACCCGGGAATCC	ADI-26908 LAD5224_P03_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 327	5231	KQSYRRRT	ADI-26908 LAD5224_P03_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 327	5232	AAGCAATCTTATTCTCGGAGAACT	ADI-26908 LAD5224_P03_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 328	5233	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGGTAGAGATGCGTAC GGGAGATAATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-26909 LAD5224_P03_E03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 328	5234	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGIDLEEGNTIYDAKFQGRVTITRDTSAS TAYMELSSLRSEDVAVYCGRDAYGRYFYDVGQGLVT VSS	ADI-26909 LAD5224_P03_E03	Heavy chain variable region ("HC") amino acid sequence
Ab 328	5235	FNIKDYYMH		ADI-26909 LAD5224_P03_E03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 328	5236	TTCAACATCAAGGACTACTATATGCAC		ADI-26909 LAD5224_P03_E03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 328	5237	WIDLEEGNTIYDAKFQG		ADI-26909 LAD5224_P03_E03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 328	5238	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC		ADI-26909 LAD5224_P03_E03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 328	5239	GRDAYGRYFYDV		ADI-26909 LAD5224_P03_E03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 328	5240	GGTAGAGATGCGTACGGGAGATATTTTTACGACGTTG		ADI-26909 LAD5224_P03_E03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 328	5241	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26909 LAD5224_P03_E03	Light chain variable region ("LC") nucleic acid sequence
Ab 328	5242	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26909 LAD5224_P03_E03	Light chain variable region ("LC") amino acid sequence
Ab 328	5243	KSSQSLLNARTGKNYLA	ADI-26909 LAD5224_P03_E03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 328	5244	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26909 LAD5224_P03_E03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 328	5245	WASTRES	ADI-26909 LAD5224_P03_E03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 328	5246	TGGGCATCTACCCGGGAATCC	ADI-26909 LAD5224_P03_E03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 328	5247	KQSYRRRT	ADI-26909 LAD5224_P03_E03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 328	5248	AAGCAATCTTATTCTCGGAGAACT	ADI-26909 LAD5224_P03_E03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 329	5249	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATCGTTACG GGGCTTATTTTACGACGTGTGGGGCCAAAGGAACCCCTG	ADI-26910 LAD5224_P03_G04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 329	5250	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTSAS TAYMELSSLRSEDTAVYYCARDRYGAYFYDVMWGQGLVTY SS	ADI-26910 LAD5224_P03_G04	Heavy chain variable region ("HC") amino acid sequence
Ab 329	5251	FNIKDYMH	ADI-26910 LAD5224_P03_G04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 329	5252	TTCAACATCAAGGACTACTATATGCAC	ADI-26910 LAD5224_P03_G04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 329	5253	WIDLENANTYDAKFKQ	ADI-26910 LAD5224_P03_G04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 329	5254	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC	ADI-26910 LAD5224_P03_G04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 329	5255	ARDRYGAYFYDV	ADI-26910 LAD5224_P03_G04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 329	5256	GCGAGAGATCGTTACGGGGCTTATTTTACGACGCTG	ADI-26910 LAD5224_P03_G04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 329	5257	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26910 LAD5224_P03_G04	Light chain variable region ("LC") nucleic acid sequence
Ab 329	5258	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26910 LAD5224_P03_G04	Light chain variable region ("LC") amino acid sequence
Ab 329	5259	KSSQSLLNARTGKNYLA	ADI-26910 LAD5224_P03_G04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 329	5260	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26910 LAD5224_P03_G04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 329	5261	WASTRES	ADI-26910 LAD5224_P03_G04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 329	5262	TGGGCATCTACCCGGGAATCC	ADI-26910 LAD5224_P03_G04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 329	5263	KQSYRRRT	ADI-26910 LAD5224_P03_G04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 329	5264	AAGCAATCTTATTCTCGGAGAACT	ADI-26910 LAD5224_P03_G04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 330	5265	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGGATGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGTTGG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26912 LAD5224_P03_E05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 330	5266	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYVCARDVLRGGRYFYDVWGQGLTVT SS	ADI-26912 LAD5224_P03_E05	Heavy chain variable region ("HC") amino acid sequence
Ab 330	5267	FNIKDYMH	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 330	5268	TTCAACATCAAGGACTACTATATGCAC	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 330	5269	WIDLENANTYDAKFKQ	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 330	5270	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 330	5271	ARDVLRGGRYFYDV	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 330	5272	GCGAGAGATGTGTTGGGGAGATATTTTACGACGTG	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 330	5273	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26912 LAD5224_P03_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 330	5274	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26912 LAD5224_P03_E05	Light chain variable region ("LC") amino acid sequence
Ab 330	5275	KSSQSLLNARTGKNYLA	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 330	5276	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 330	5277	WASTRES	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 330	5278	TGGGCATCTACCCGGGAATCC	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 330	5279	KQSYRRRT	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 330	5280	AAGCAATCTTATTCTCGGAGAACT	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 331	5281	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATCAGTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26913 LAD5224_P03_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 331	5282	5283	5284	5285	5286	5287	5288	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFKNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDQYGRYFYDVGQGLVT VSS	ADI-26913 LAD5224_P03_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 331	5283	5283	5284	5285	5286	5287	5288	FNIKDYMH		ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 331	5284	5284	5284	5285	5286	5287	5288	TTCAACATCAAGGACTACTATATGCAC		ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 331	5285	5285	5285	5286	5287	5288	5289	WIDLENANTYDAKFKQ		ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 331	5286	5286	5286	5287	5288	5289	5290	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC		ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 331	5287	5287	5287	5288	5289	5290	5291	ARDQYGRYFYDV		ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 331	5288	5288	5288	5289	5290	5291	5292	GCGAGAGATCAGTACGGGAGATATTTTACGACGTG		ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 331	5289	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26913 LAD5224_P03_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 331	5290	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26913 LAD5224_P03_A06	Light chain variable region ("LC") amino acid sequence
Ab 331	5291	KSSQSLLNARTGKNYLA	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 331	5292	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 331	5293	WASTRES	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 331	5294	TGGGCATCTACCCGGGAATCC	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 331	5295	KQSYRRRT	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 331	5296	AAGCAATCTTATTCTCGGAGAACT	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 332	5297	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGCTGACTACTGCTGCGGAGAGATGTTG GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-26915 LAD5224_P03_G07	Heavy chain variable region ("HC") nucleic acid sequence

		GGTCACCGTCTCCTCA			
Ab 332	5298	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWLDEEGNTIYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDVLRGGRYFYDVWGQGLTVT SS	ADI-26915 LAD5224_P03_G07	Heavy chain variable region ("HC") amino acid sequence	
Ab 332	5299	FNIKDYMH	ADI-26915 LAD5224_P03_G07	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 332	5300	TTCAACATCAAGGACTACTATATGCAC	ADI-26915 LAD5224_P03_G07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 332	5301	WIDLEEGNTIYDAKFQG	ADI-26915 LAD5224_P03_G07	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 332	5302	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC	ADI-26915 LAD5224_P03_G07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 332	5303	ARDVLRGGRYFYDV	ADI-26915 LAD5224_P03_G07	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 332	5304	GCGAGAGATGTGTTGGGGAGATATTTTTACGACGTG	ADI-26915 LAD5224_P03_G07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 332	5305	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26915 LAD5224_P03_G07	Light chain variable region ("LC") nucleic acid sequence
Ab 332	5306	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26915 LAD5224_P03_G07	Light chain variable region ("LC") amino acid sequence
Ab 332	5307	KSSQSLLNARTGKNYLA	ADI-26915 LAD5224_P03_G07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 332	5308	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26915 LAD5224_P03_G07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 332	5309	WASTRES	ADI-26915 LAD5224_P03_G07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 332	5310	TGGGCATCTACCCGGGAATCC	ADI-26915 LAD5224_P03_G07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 332	5311	KQSYRRRT	ADI-26915 LAD5224_P03_G07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 332	5312	AAGCAATCTTATTCTCGGAGAACT	ADI-26915 LAD5224_P03_G07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 333	5313	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAAGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGTGTACG GGAGATAATTTTACGACCTTTGGGGCCAAAGGAACCCCTG	ADI-26916 LAD5224_P03_F08	Heavy chain variable region ("HC") nucleic acid sequence

		GTCACCGTCTCCTCA			
Ab 333	5314	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFAQGRVTITRDTAS TAYMELSSLRSEDTAVYVCARDVYGRFYDLWGQGTLVTV SS	ADI-26916 LAD5224_P03_F08	Heavy chain variable region ("HC") amino acid sequence	
Ab 333	5315	FNIKDYYMH	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 333	5316	TTCAACATCAAGGACTACTATATGCAC	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 333	5317	WIDLENANTYDAKFQG	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 333	5318	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 333	5319	ARDVYGRFYDL	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 333	5320	GCGAGAGATGTGTACGGGAGATATTTTACGACCTT	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 333	5321	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26916 LAD5224_P03_F08	Light chain variable region ("LC") nucleic acid sequence
Ab 333	5322	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26916 LAD5224_P03_F08	Light chain variable region ("LC") amino acid sequence
Ab 333	5323	KSSQSLLNARTGKNYLA	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 333	5324	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 333	5325	WASTRES	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 333	5326	TGGGCATCTACCCGGGAATCC	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 333	5327	KQSYRRRT	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 333	5328	AAGCAATCTTATTCTCGGAGAACT	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 334	5329	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGCGTACG GGGGGTATTTTACGACGTGTGGGGCCCAAGGAAACCTGTG	ADI-26917 LAD5224_P03_B09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 334	5330	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDAYGGYFYDVGQGLVT VSS	ADI-26917 LAD5224_P03_B09	Heavy chain variable region ("HC") amino acid sequence
Ab 334	5331	FNIKDYMH	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 334	5332	TTCAACATCAAGGACTACTATATGCAC	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 334	5333	WIDLENANTYDAKFKQ	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 334	5334	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 334	5335	ARDAYGGYFYDV	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 334	5336	GCGAGAGATGCGTACGGGGGGTATTTTACGACGTG	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
		GTCACCGTCTCCTCA		

Ab 334	5337	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26917 LAD5224_P03_B09	Light chain variable region ("LC") nucleic acid sequence
Ab 334	5338	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26917 LAD5224_P03_B09	Light chain variable region ("LC") amino acid sequence
Ab 334	5339	KSSQSLLNARTGKNYLA	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 334	5340	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 334	5341	WASTRES	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 334	5342	TGGGCATCTACCCGGGAATCC	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 334	5343	KQSYRRRT	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 334	5344	AAGCAATCTTATTCTCGGAGAACT	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 335	5345	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGGTGTACTACTGCGCGGAGAGATAATACG GGGGGTATTTTACGACGTGTGGGGCCCAAGGAAACCTGTG	ADI-26918 LAD5224_P03_E09	Heavy chain variable region ("HC") nucleic acid sequence

		GTCAACGGTCTCCTCA			
Ab 335	5346	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDNYGGYFYDVGQGLVT VSS	ADI-26918 LAD5224_P03_E09	Heavy chain variable region ("HC") amino acid sequence	
Ab 335	5347	FNIKDYMH	ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 335	5348	TTCAACATCAAGGACTACTATATGCAC	ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 335	5349	WIDLENANTYDAKFKQ	ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 335	5350	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC	ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 335	5351	ARDNYGGYFYDV	ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 335	5352	GCGAGAGATAATTACGGGGGGTATTTTACGACGTG	ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 335	5353	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26918 LAD5224_P03_E09	Light chain variable region ("LC") nucleic acid sequence
Ab 335	5354	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGTDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26918 LAD5224_P03_E09	Light chain variable region ("LC") amino acid sequence
Ab 335	5355	KSSQSLLNARTGKNYLA	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 335	5356	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 335	5357	WASTRES	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 335	5358	TGGGCATCTACCCGGGAATCC	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 335	5359	KQSYRRRT	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 335	5360	AAGCAATCTTATTCTCGGAGAACT	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 336	5361	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGGATGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCTACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26919 LAD5225_P03_D10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 336	5362	5362	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDAYGRYFYDVMWGQGLVTY SS	ADI-26919 LAD5225_P03_D10	Heavy chain variable region ("HC") amino acid sequence
Ab 336	5363	5363	FNIKDYMH		ADI-26919 LAD5225_P03_D10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 336	5364	5364	TTCAACATCAAGGACTACTATATGCAC		ADI-26919 LAD5225_P03_D10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 336	5365	5365	WIDLENANTYDAKFKQ		ADI-26919 LAD5225_P03_D10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 336	5366	5366	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC		ADI-26919 LAD5225_P03_D10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 336	5367	5367	ARDAYGRYFDV		ADI-26919 LAD5225_P03_D10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 336	5368	5368	GCGAGAGATGCTTACGGGAGATATTTTACGACGTG		ADI-26919 LAD5225_P03_D10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 336	5369	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26919 LAD5225_P03_D10	Light chain variable region ("LC") nucleic acid sequence
Ab 336	5370	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26919 LAD5225_P03_D10	Light chain variable region ("LC") amino acid sequence
Ab 336	5371	KSSQSLLNARTGKNYLA	ADI-26919 LAD5225_P03_D10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 336	5372	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26919 LAD5225_P03_D10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 336	5373	WASTRES	ADI-26919 LAD5225_P03_D10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 336	5374	TGGGCATCTACCCGGGAATCC	ADI-26919 LAD5225_P03_D10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 336	5375	KQSYSLRT	ADI-26919 LAD5225_P03_D10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 336	5376	AAGCAATCTTATTCTCTGAGAACT	ADI-26919 LAD5225_P03_D10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 337	5377	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGGTAGAGATGCGTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26920 LAD5225_P03_A11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 337	5378	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTSAS TAYMELSSLRSEDTAVYYCGRDAYGRYFYDVGQGLVT VSS	ADI-26920 LAD5225_P03_A11	Heavy chain variable region ("HC") amino acid sequence
Ab 337	5379	FNIKDYYMH	ADI-26920 LAD5225_P03_A11	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 337	5380	TTCAACATCAAGGACTACTATATGCAC	ADI-26920 LAD5225_P03_A11	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 337	5381	WIDLENANTYDAKFKQ	ADI-26920 LAD5225_P03_A11	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 337	5382	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26920 LAD5225_P03_A11	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 337	5383	GRDAYGRYFYDV	ADI-26920 LAD5225_P03_A11	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 337	5384	GGTAGAGATGCGTACGGGAGATATTTTACGACGTG	ADI-26920 LAD5225_P03_A11	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 337	5385	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26920 LAD5225_P03_A11	Light chain variable region ("LC") nucleic acid sequence
Ab 337	5386	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLTIT ISSLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26920 LAD5225_P03_A11	Light chain variable region ("LC") amino acid sequence
Ab 337	5387	KSSQSLLNARTGKNYLA	ADI-26920 LAD5225_P03_A11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 337	5388	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26920 LAD5225_P03_A11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 337	5389	WASTRES	ADI-26920 LAD5225_P03_A11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 337	5390	TGGGCATCTACCCGGGAATCC	ADI-26920 LAD5225_P03_A11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 337	5391	KQSYSLRT	ADI-26920 LAD5225_P03_A11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 337	5392	AAGCAATCTTATTCTCTGAGAACT	ADI-26920 LAD5225_P03_A11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 338	5393	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGCTGACTACTGCTGCGGAGAGATGCTTAC GGGAGATATTTTACGACGCTGTTGGGGCCAAAGAACCTT	ADI-26921 LAD5225_P03_B12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 338	5394	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLEEGNTIYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDAYGRYFYDVMGGGTLVTY SS	ADI-26921 LAD5225_P03_B12	Heavy chain variable region ("HC") amino acid sequence
Ab 338	5395	FNIKDYMH		ADI-26921 LAD5225_P03_B12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 338	5396	TTCAACATCAAGGACTACTATATGCAC		ADI-26921 LAD5225_P03_B12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 338	5397	WIDLEEGNTIYDAKFQG		ADI-26921 LAD5225_P03_B12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 338	5398	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC		ADI-26921 LAD5225_P03_B12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 338	5399	ARDAYGRYFDV		ADI-26921 LAD5225_P03_B12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 338	5400	GCGAGAGATGCTTACGGGAGATATTTTACGACGTG		ADI-26921 LAD5225_P03_B12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 338	5401	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26921 LAD5225_P03_B12	Light chain variable region ("LC") nucleic acid sequence
Ab 338	5402	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26921 LAD5225_P03_B12	Light chain variable region ("LC") amino acid sequence
Ab 338	5403	KSSQSLLNARTGKNYLA	ADI-26921 LAD5225_P03_B12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 338	5404	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26921 LAD5225_P03_B12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 338	5405	WASTRES	ADI-26921 LAD5225_P03_B12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 338	5406	TGGGCATCTACCCGGGAATCC	ADI-26921 LAD5225_P03_B12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 338	5407	KQSYSLRT	ADI-26921 LAD5225_P03_B12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 338	5408	AAGCAATCTTATTCTCTGAGAACT	ADI-26921 LAD5225_P03_B12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 339	5409	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGGTAGAGATGCGTACG GGCTGATTTTTACGACGTGTGGGGCCAAAGGAACCCCTG	ADI-26924 LAD5225_P04_A02	Heavy chain variable region ("HC") nucleic acid sequence

			GTCACCGTCTCCTCA			
Ab 339	5410	QVQLVQSGAEVKKPGASVKVSCKASGFKNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCGRDAYGLYFYDVMWGGTLVTV SS	ADI-26924 LAD5225_P04_A02		Heavy chain variable region ("HC") amino acid sequence	
Ab 339	5411	FNIKDYMH	ADI-26924 LAD5225_P04_A02		Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 339	5412	TTCAACATCAAGGACTACTATATGCAC	ADI-26924 LAD5225_P04_A02		Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 339	5413	WIDLENANTYDAKFKQ	ADI-26924 LAD5225_P04_A02		Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 339	5414	TGGATCGACCTTGAAAATGCTAACACAACTCTATGACGCT AAGTTTCAGGGC	ADI-26924 LAD5225_P04_A02		Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 339	5415	GRDAYGLYFYDV	ADI-26924 LAD5225_P04_A02		Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 339	5416	GGTAGAGATGCGTACGGGCTGATATTTTACGACGCTG	ADI-26924 LAD5225_P04_A02		Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 339	5417	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26924 LAD5225_P04_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 339	5418	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLTIT ISSLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26924 LAD5225_P04_A02	Light chain variable region ("LC") amino acid sequence
Ab 339	5419	KSSQSLLNARTGKNYLA	ADI-26924 LAD5225_P04_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 339	5420	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26924 LAD5225_P04_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 339	5421	WASTRES	ADI-26924 LAD5225_P04_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 339	5422	TGGGCATCTACCCGGGAATCC	ADI-26924 LAD5225_P04_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 339	5423	KQSYSLRT	ADI-26924 LAD5225_P04_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 339	5424	AAGCAATCTTATTCTCTGAGAACT	ADI-26924 LAD5225_P04_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 340	5425	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGTGTGG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26925 LAD5225_P04_E02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 340	5426	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDVLRGGRYFYDVWGQGLTVT SS	ADI-26925 LAD5225_P04_E02	Heavy chain variable region ("HC") amino acid sequence
Ab 340	5427	FNIKDYMH	ADI-26925 LAD5225_P04_E02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 340	5428	TTCAACATCAAGGACTACTATATGCAC	ADI-26925 LAD5225_P04_E02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 340	5429	WIDLENANTYDAKFKQG	ADI-26925 LAD5225_P04_E02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 340	5430	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC	ADI-26925 LAD5225_P04_E02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 340	5431	ARDVLRGGRYFYDV	ADI-26925 LAD5225_P04_E02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 340	5432	GCGAGAGATGTTGGGGAGATATTTTACGACGCTG	ADI-26925 LAD5225_P04_E02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 340	5433	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26925 LAD5225_P04_E02	Light chain variable region ("LC") nucleic acid sequence
Ab 340	5434	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26925 LAD5225_P04_E02	Light chain variable region ("LC") amino acid sequence
Ab 340	5435	KSSQSLLNARTGKNYLA	ADI-26925 LAD5225_P04_E02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 340	5436	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26925 LAD5225_P04_E02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 340	5437	WASTRES	ADI-26925 LAD5225_P04_E02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 340	5438	TGGGCATCTACCCGGGAATCC	ADI-26925 LAD5225_P04_E02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 340	5439	KQSYSLRT	ADI-26925 LAD5225_P04_E02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 340	5440	AAGCAATCTTATTCTCTGAGAACT	ADI-26925 LAD5225_P04_E02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 341	5441	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGCGGAGAGATCGTTAC GGGGCTATTTTTACGACGTGTGGGGCCCAAGGAAACCTT	ADI-26927 LAD5225_P04_G03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 341	5442	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLEEGNTIYDAKFQGRVTITRDTSAS TAYMELSSLRSEDTAVYICARDRYGAYFYDVMWGQGLVTY SS	ADI-26927 LAD5225_P04_G03	Heavy chain variable region ("HC") amino acid sequence
Ab 341	5443	FNIKDYMH		ADI-26927 LAD5225_P04_G03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 341	5444	TTCAACATCAAGGACTACTATATGCAC		ADI-26927 LAD5225_P04_G03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 341	5445	WIDLEEGNTIYDAKFQG		ADI-26927 LAD5225_P04_G03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 341	5446	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC		ADI-26927 LAD5225_P04_G03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 341	5447	ARDRYGAYFYDV		ADI-26927 LAD5225_P04_G03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 341	5448	GCGAGAGATCGTTACGGGGCTTATTTTACGACGCTG		ADI-26927 LAD5225_P04_G03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 341	5449	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26927 LAD5225_P04_G03	Light chain variable region ("LC") nucleic acid sequence
Ab 341	5450	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYSLRTFGGGTVKVEIK	ADI-26927 LAD5225_P04_G03	Light chain variable region ("LC") amino acid sequence
Ab 341	5451	KSSQSLLNARTGKNYLA	ADI-26927 LAD5225_P04_G03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 341	5452	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26927 LAD5225_P04_G03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 341	5453	WASTRES	ADI-26927 LAD5225_P04_G03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 341	5454	TGGGCATCTACCCGGGAATCC	ADI-26927 LAD5225_P04_G03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 341	5455	KQSYSLRT	ADI-26927 LAD5225_P04_G03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 341	5456	AAGCAATCTTATTCTCTGAGAACT	ADI-26927 LAD5225_P04_G03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 342	5457	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGGTAGAGATGCGTAC GGGCTGATTTTTACGACGCTGTGGGGCCCAAGGAAACCTT	ADI-26928 LAD5225_P04_A04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 342	5458	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWDLEEGNTIYDAKFQGRVTITRDTSAS TAYMELSSLRSEDTAVYYCGRDAYGLYFYDVGQGLTVT SS	ADI-26928 LAD5225_P04_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 342	5459	FNIKDYMH		ADI-26928 LAD5225_P04_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 342	5460	TTCAACATCAAGGACTACTATATGCAC		ADI-26928 LAD5225_P04_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 342	5461	WIDLEEGNTIYDAKFQG		ADI-26928 LAD5225_P04_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 342	5462	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC		ADI-26928 LAD5225_P04_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 342	5463	GRDAYGLYFYDV		ADI-26928 LAD5225_P04_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 342	5464	GGTAGAGATGCGTACGGGCTGATTTTTACGACGCTG		ADI-26928 LAD5225_P04_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 342	5465	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26928 LAD5225_P04_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 342	5466	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYSLRTFGGGTVKVEIK	ADI-26928 LAD5225_P04_A04	Light chain variable region ("LC") amino acid sequence
Ab 342	5467	KSSQSLLNARTGKNYLA	ADI-26928 LAD5225_P04_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 342	5468	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26928 LAD5225_P04_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 342	5469	WASTRES	ADI-26928 LAD5225_P04_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 342	5470	TGGGCATCTACCCGGGAATCC	ADI-26928 LAD5225_P04_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 342	5471	KQSYSLRT	ADI-26928 LAD5225_P04_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 342	5472	AAGCAATCTTATTCTCTGAGAACT	ADI-26928 LAD5225_P04_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 343	5473	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGCTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCACCATAAACAGGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGCTGACTACTGCTGCGGAGAGATGTTG GGGAGATATTTTACGACGCTGTTGGGGCCAAAGAAACCT	ADI-26929 LAD5225_P04_E04	Heavy chain variable region ("HC") nucleic acid sequence

		GGTCACCGTCTCCTCA			
Ab 343	5474	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWLDEEGNTIYDAKFQGRVTITRDTSAS TAYMELSSLRSEDTAVYYCARDVLRGYFYDVWVGQGLTVT SS	ADI-26929 LAD5225_P04_E04	Heavy chain variable region ("HC") amino acid sequence	
Ab 343	5475	FNIKDYMH	ADI-26929 LAD5225_P04_E04	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 343	5476	TTCAACATCAAGGACTACTATATGCAC	ADI-26929 LAD5225_P04_E04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 343	5477	WIDLEEGNTIYDAKFQG	ADI-26929 LAD5225_P04_E04	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 343	5478	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC	ADI-26929 LAD5225_P04_E04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 343	5479	ARDVLRGYFYDV	ADI-26929 LAD5225_P04_E04	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 343	5480	GCGAGAGATGTGTTGGGGAGATATTTTACGACGTG	ADI-26929 LAD5225_P04_E04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 343	5481	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26929 LAD5225_P04_E04	Light chain variable region ("LC") nucleic acid sequence
Ab 343	5482	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26929 LAD5225_P04_E04	Light chain variable region ("LC") amino acid sequence
Ab 343	5483	KSSQSLLNARTGKNYLA	ADI-26929 LAD5225_P04_E04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 343	5484	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26929 LAD5225_P04_E04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 343	5485	WASTRES	ADI-26929 LAD5225_P04_E04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 343	5486	TGGGCATCTACCCGGGAATCC	ADI-26929 LAD5225_P04_E04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 343	5487	KQSYSLRT	ADI-26929 LAD5225_P04_E04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 343	5488	AAGCAATCTTATTCTCTGAGAACT	ADI-26929 LAD5225_P04_E04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 344	5489	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGTGTACG GGAGATAATTTTACGACCTTTGGGGCCAAAGGAACCCCTG	ADI-26930 LAD5225_P04_F05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 344	5490	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFAQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDVYGRFYDLWGQGLVTV SS	ADI-26930 LAD5225_P04_F05	Heavy chain variable region ("HC") amino acid sequence
Ab 344	5491	FNIKDYMH	ADI-26930 LAD5225_P04_F05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 344	5492	TTCAACATCAAGGACTACTATATGCAC	ADI-26930 LAD5225_P04_F05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 344	5493	WIDLENANTYDAKFAQ	ADI-26930 LAD5225_P04_F05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 344	5494	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC	ADI-26930 LAD5225_P04_F05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 344	5495	ARDVYGRFYDL	ADI-26930 LAD5225_P04_F05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 344	5496	GCGAGAGATGTGTACGGGAGATATTTTACGACCTT	ADI-26930 LAD5225_P04_F05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 344	5497	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26930 LAD5225_P04_F05	Light chain variable region ("LC") nucleic acid sequence
Ab 344	5498	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLTIT ISSLQAEDVAVYYCKQSYSLRTFSGGKVEIK	ADI-26930 LAD5225_P04_F05	Light chain variable region ("LC") amino acid sequence
Ab 344	5499	KSSQSLLNARTGKNYLA	ADI-26930 LAD5225_P04_F05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 344	5500	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26930 LAD5225_P04_F05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 344	5501	WASTRES	ADI-26930 LAD5225_P04_F05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 344	5502	TGGGCATCTACCCGGGAATCC	ADI-26930 LAD5225_P04_F05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 344	5503	KQSYSLRT	ADI-26930 LAD5225_P04_F05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 344	5504	AAGCAATCTTATTCTCTGAGAACT	ADI-26930 LAD5225_P04_F05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 345	5505	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGCTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACACAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATAATACG GGGGTATTTTTACGACGTGTGGGGCCCAAGGAAACCTGT	ADI-26932 LAD5225_P04_E06	Heavy chain variable region ("HC") nucleic acid sequence

			GTCAACGGTCTCTCA			
Ab 345	5506	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDTAVYVCARDNYGGYFYDVGQGLVT VSS	ADI-26932 LAD5225_P04_E06	Heavy chain variable region ("HC") amino acid sequence		
Ab 345	5507	FNIKDYMH	ADI-26932 LAD5225_P04_E06	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 345	5508	TTCAACATCAAGGACTACTATATGCAC	ADI-26932 LAD5225_P04_E06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 345	5509	WIDLENANTYDAKFKQ	ADI-26932 LAD5225_P04_E06	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 345	5510	TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC	ADI-26932 LAD5225_P04_E06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 345	5511	ARDNYGGYFYDV	ADI-26932 LAD5225_P04_E06	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 345	5512	GCGAGAGATAATTACGGGGGGTATTTTACGACGTG	ADI-26932 LAD5225_P04_E06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 345	5513	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTCCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26932 LAD5225_P04_E06	Light chain variable region ("LC") nucleic acid sequence
Ab 345	5514	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26932 LAD5225_P04_E06	Light chain variable region ("LC") amino acid sequence
Ab 345	5515	KSSQSLLNARTGKNYLA	ADI-26932 LAD5225_P04_E06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 345	5516	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26932 LAD5225_P04_E06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 345	5517	WASTRES	ADI-26932 LAD5225_P04_E06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 345	5518	TGGGCATCTACCCGGGAATCC	ADI-26932 LAD5225_P04_E06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 345	5519	KQSYSLRT	ADI-26932 LAD5225_P04_E06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 345	5520	AAGCAATCTTATTCTCTGAGAACT	ADI-26932 LAD5225_P04_E06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 346	5521	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGGTGTACTACTGCGCGGAGAGATGCTACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26933 LAD5226_P04_A07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 346	5522	5522	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYFCARDAYGRFYDYVWGQGLTVT SS	ADI-26933 LAD5226_P04_A07	Heavy chain variable region ("HC") amino acid sequence
Ab 346	5523	5523	FNIKDYMH		ADI-26933 LAD5226_P04_A07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 346	5524	5524	TTCAACATCAAGGACTACTATATGCAC		ADI-26933 LAD5226_P04_A07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 346	5525	5525	WIDLENANTYDAKFKQ		ADI-26933 LAD5226_P04_A07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 346	5526	5526	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC		ADI-26933 LAD5226_P04_A07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 346	5527	5527	ARDAYGRFYDV		ADI-26933 LAD5226_P04_A07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 346	5528	5528	GCGAGAGATGCTTACGGGAGATATTTTACGACGTG		ADI-26933 LAD5226_P04_A07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 346	5529	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26933 LAD5226_P04_A07	Light chain variable region ("LC") nucleic acid sequence
Ab 346	5530	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYISIRTFGGGTKVEIK	ADI-26933 LAD5226_P04_A07	Light chain variable region ("LC") amino acid sequence
Ab 346	5531	KSSQSLLNARTGKNYLA	ADI-26933 LAD5226_P04_A07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 346	5532	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26933 LAD5226_P04_A07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 346	5533	WASTRES	ADI-26933 LAD5226_P04_A07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 346	5534	TGGGCATCTACCCGGGAATCC	ADI-26933 LAD5226_P04_A07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 346	5535	KQSYSIRT	ADI-26933 LAD5226_P04_A07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 346	5536	AAGCAATCTTATTCTATCAGAACT	ADI-26933 LAD5226_P04_A07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 347	5537	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGCTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACCAAGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGTGTGG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26938 LAD5226_P04_E11	Heavy chain variable region ("HC") nucleic acid sequence

Ab 347	5538	5539	5540	5541	5542	5543	5544	GTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHWVR QAPGQRLEWMGIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDVLRGGRYFYDVWGQGLTVT SS FNIKDYMH TTCAACATCAAGGACTACTATATGCAC WIDLENANTYDAKFKQ TGGATCGACCTTGAAAATGCTAACACAACTATGACGCT AAGTTTCAGGGC ARDVLRGGRYFYDV GCGAGAGATGTTGGGGAGATATTTTACGACGCTG	ADI-26938 LAD5226_P04_E11	ADI-26938 LAD5226_P04_E11	ADI-26938 LAD5226_P04_E11	ADI-26938 LAD5226_P04_E11	ADI-26938 LAD5226_P04_E11	ADI-26938 LAD5226_P04_E11	ADI-26938 LAD5226_P04_E11	Heavy chain variable region ("HC") amino acid sequence	Heavy chain variable region CDR H1 ("H1") amino acid sequence	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	Heavy chain variable region CDR H2 ("H2") amino acid sequence	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	Heavy chain variable region CDR H3 ("H3") amino acid sequence	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
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Ab 347	5545	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26938 LAD5226_P04_E11	Light chain variable region ("LC") nucleic acid sequence
Ab 347	5546	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYISIRTFGGGTKEIK	ADI-26938 LAD5226_P04_E11	Light chain variable region ("LC") amino acid sequence
Ab 347	5547	KSSQSLLNARTGKNYLA	ADI-26938 LAD5226_P04_E11	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 347	5548	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26938 LAD5226_P04_E11	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 347	5549	WASTRES	ADI-26938 LAD5226_P04_E11	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 347	5550	TGGGCATCTACCCGGGAATCC	ADI-26938 LAD5226_P04_E11	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 347	5551	KQSYSIRT	ADI-26938 LAD5226_P04_E11	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 347	5552	AAGCAATCTTATTCTATCAGAACT	ADI-26938 LAD5226_P04_E11	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 348	5553	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGTAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGTCCTCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATCAGTACG GGAGATAATTTTACGACGTGTGGGGCCCAAGGAACCCCTG	ADI-26939 LAD5226_P04_B12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 348	5554	5554	GTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDQYGRYFYDVGQGLVT VSS	ADI-26939 LAD5226_P04_B12	Heavy chain variable region ("HC") amino acid sequence
Ab 348	5555	5555	FNIKDYYMH		ADI-26939 LAD5226_P04_B12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 348	5556	5556	TTCAACATCAAGGACTACTATATGCAC		ADI-26939 LAD5226_P04_B12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 348	5557	5557	WIDLENANTYDAKFKQ		ADI-26939 LAD5226_P04_B12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 348	5558	5558	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC		ADI-26939 LAD5226_P04_B12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 348	5559	5559	ARDQYGRYFDV		ADI-26939 LAD5226_P04_B12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 348	5560	5560	GCGAGAGATCAGTACGGGAGATATTTTACGACGTG		ADI-26939 LAD5226_P04_B12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 348	5561	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26939 LAD5226_P04_B12	Light chain variable region ("LC") nucleic acid sequence
Ab 348	5562	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYISIRTFGGGTKEIK	ADI-26939 LAD5226_P04_B12	Light chain variable region ("LC") amino acid sequence
Ab 348	5563	KSSQSLLNARTGKNYLA	ADI-26939 LAD5226_P04_B12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 348	5564	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26939 LAD5226_P04_B12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 348	5565	WASTRES	ADI-26939 LAD5226_P04_B12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 348	5566	TGGGCATCTACCCGGGAATCC	ADI-26939 LAD5226_P04_B12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 348	5567	KQSYSIRT	ADI-26939 LAD5226_P04_B12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 348	5568	AAGCAATCTTATTCTATCAGAACT	ADI-26939 LAD5226_P04_B12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 349	5569	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCACCATAAACAGGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGCTGACTACTGCTGCGCGGAGAGATCGTTAC GGGGCTATTTTTACGACGTGTGGGGCCCAAGGAAACCTT	ADI-26940 LAD5226_P04_E12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 349	5570	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHWVR QAPGQRLEWMGWIDLEEGNTIYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYICARDRYGAYFYDVMGGGTLVTY SS	ADI-26940 LAD5226_P04_E12	Heavy chain variable region ("HC") amino acid sequence
Ab 349	5571	FNIKDYMH		ADI-26940 LAD5226_P04_E12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 349	5572	TTCAACATCAAGGACTACTATATGCAC		ADI-26940 LAD5226_P04_E12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 349	5573	WIDLEEGNTIYDAKFQG		ADI-26940 LAD5226_P04_E12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 349	5574	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC		ADI-26940 LAD5226_P04_E12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 349	5575	ARDRYGAYFYDV		ADI-26940 LAD5226_P04_E12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 349	5576	GCGAGAGATCGTTACGGGGCTTATTTTACGACGTG		ADI-26940 LAD5226_P04_E12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 349	5577	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26940 LAD5226_P04_E12	Light chain variable region ("LC") nucleic acid sequence
Ab 349	5578	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYISIRTFGGGTKVEIK	ADI-26940 LAD5226_P04_E12	Light chain variable region ("LC") amino acid sequence
Ab 349	5579	KSSQSLLNARTGKNYLA	ADI-26940 LAD5226_P04_E12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 349	5580	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26940 LAD5226_P04_E12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 349	5581	WASTRES	ADI-26940 LAD5226_P04_E12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 349	5582	TGGGCATCTACCCGGGAATCC	ADI-26940 LAD5226_P04_E12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 349	5583	KQSYSIRT	ADI-26940 LAD5226_P04_E12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 349	5584	AAGCAATCTTATTCTATCAGAACT	ADI-26940 LAD5226_P04_E12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 350	5585	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCCG CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGCTGACTACTGCTGCGCGGAGATCAGTAC GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-26941 LAD5226_P05_A02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 350	5586	GGTCACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLEEGNTIYDAKFQGRVTITRDTSAS TAYMELSSLRSEDTAVYYCARDQYGRYFYDVGQGTLLVT VSS	ADI-26941 LAD5226_P05_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 350	5587	FNIKDYMH		ADI-26941 LAD5226_P05_A02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 350	5588	TTCAACATCAAGGACTACTATATGCAC		ADI-26941 LAD5226_P05_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 350	5589	WIDLEEGNTIYDAKFQG		ADI-26941 LAD5226_P05_A02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 350	5590	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC		ADI-26941 LAD5226_P05_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 350	5591	ARDQYGRYFYDV		ADI-26941 LAD5226_P05_A02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 350	5592	GCGAGAGATCAGTACGGGAGATATTTTTACGACGTG		ADI-26941 LAD5226_P05_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 350	5593	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26941 LAD5226_P05_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 350	5594	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYISRTFGGGTKVEIK	ADI-26941 LAD5226_P05_A02	Light chain variable region ("LC") amino acid sequence
Ab 350	5595	KSSQSLLNARTGKNYLA	ADI-26941 LAD5226_P05_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 350	5596	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26941 LAD5226_P05_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 350	5597	WASTRES	ADI-26941 LAD5226_P05_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 350	5598	TGGGCATCTACCCGGGAATCC	ADI-26941 LAD5226_P05_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 350	5599	KQSYSIRT	ADI-26941 LAD5226_P05_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 350	5600	AAGCAATCTTATTCTATCAGAACT	ADI-26941 LAD5226_P05_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 351	5601	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGTGTACG GGAGATATTTTACGACCTTTGGGGCCAAAGGAACCCCTG	ADI-26942 LAD5226_P05_F02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 351	5602	5602	Ab 351	ADI-26942 LAD5226_P05_F02	Heavy chain variable region ("HC") amino acid sequence
Ab 351	5603	5603	Ab 351	ADI-26942 LAD5226_P05_F02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 351	5604	5604	Ab 351	ADI-26942 LAD5226_P05_F02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 351	5605	5605	Ab 351	ADI-26942 LAD5226_P05_F02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 351	5606	5606	Ab 351	ADI-26942 LAD5226_P05_F02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 351	5607	5607	Ab 351	ADI-26942 LAD5226_P05_F02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 351	5608	5608	Ab 351	ADI-26942 LAD5226_P05_F02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 351	5609	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26942 LAD5226_P05_F02	Light chain variable region ("LC") nucleic acid sequence
Ab 351	5610	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYISIRTFGGGTKEIK	ADI-26942 LAD5226_P05_F02	Light chain variable region ("LC") amino acid sequence
Ab 351	5611	KSSQSLLNARTGKNYLA	ADI-26942 LAD5226_P05_F02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 351	5612	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26942 LAD5226_P05_F02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 351	5613	WASTRES	ADI-26942 LAD5226_P05_F02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 351	5614	TGGGCATCTACCCGGGAATCC	ADI-26942 LAD5226_P05_F02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 351	5615	KQSYSIRT	ADI-26942 LAD5226_P05_F02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 351	5616	AAGCAATCTTATTCTATCAGAACT	ADI-26942 LAD5226_P05_F02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 352	5617	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCGTACG GGGGTATTTTTACGACGTGTGGGGCCCAAGGAAACCTGT	ADI-26943 LAD5226_P05_A03	Heavy chain variable region ("HC") nucleic acid sequence

		GTCACCGTCTCCTCA			
Ab 352	5618	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTIYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDAYGGYFYDVGQGLVT VSS	ADI-26943 LAD5226_P05_A03	Heavy chain variable region ("HC") amino acid sequence	
Ab 352	5619	FNIKDYYMH	ADI-26943 LAD5226_P05_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 352	5620	TTCAACATCAAGGACTACTATATGCAC	ADI-26943 LAD5226_P05_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 352	5621	WIDLENANTIYDAKFKQ	ADI-26943 LAD5226_P05_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 352	5622	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26943 LAD5226_P05_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 352	5623	ARDAYGGYFYDV	ADI-26943 LAD5226_P05_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 352	5624	GCGAGAGATGCGTACGGGGGGTATTTTACGACGTG	ADI-26943 LAD5226_P05_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 352	5625	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26943 LAD5226_P05_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 352	5626	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYSIRTFGGGTKVEIK	ADI-26943 LAD5226_P05_A03	Light chain variable region ("LC") amino acid sequence
Ab 352	5627	KSSQSLLNARTGKNYLA	ADI-26943 LAD5226_P05_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 352	5628	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26943 LAD5226_P05_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 352	5629	WASTRES	ADI-26943 LAD5226_P05_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 352	5630	TGGGCATCTACCCGGGAATCC	ADI-26943 LAD5226_P05_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 352	5631	KQSYSIRT	ADI-26943 LAD5226_P05_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 352	5632	AAGCAATCTTATTCTATCAGAACT	ADI-26943 LAD5226_P05_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 353	5633	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGGATGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAAGGACACGCTCCGCC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATAATACG GGGGTATTTTTACGACGTGTGGGGCCCAAGGAAACCTGTG	ADI-26944 LAD5226_P05_G03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 353	5634	5634	5634	ADI-26944 LAD5226_P05_G03	Heavy chain variable region ("HC") amino acid sequence
Ab 353	5635	5635	5635	ADI-26944 LAD5226_P05_G03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 353	5636	5636	5636	ADI-26944 LAD5226_P05_G03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 353	5637	5637	5637	ADI-26944 LAD5226_P05_G03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 353	5638	5638	5638	ADI-26944 LAD5226_P05_G03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 353	5639	5639	5639	ADI-26944 LAD5226_P05_G03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 353	5640	5640	5640	ADI-26944 LAD5226_P05_G03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 353	5641	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTATCAGAACTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26944 LAD5226_P05_G03	Light chain variable region ("LC") nucleic acid sequence
Ab 353	5642	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYISIRTFGGGTKEIK	ADI-26944 LAD5226_P05_G03	Light chain variable region ("LC") amino acid sequence
Ab 353	5643	KSSQSLLNARTGKNYLA	ADI-26944 LAD5226_P05_G03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 353	5644	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26944 LAD5226_P05_G03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 353	5645	WASTRES	ADI-26944 LAD5226_P05_G03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 353	5646	TGGGCATCTACCCGGGAATCC	ADI-26944 LAD5226_P05_G03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 353	5647	KQSYSIRT	ADI-26944 LAD5226_P05_G03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 353	5648	AAGCAATCTTATTCTATCAGAACT	ADI-26944 LAD5226_P05_G03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 354	5649	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGGTGTACTACTGCGGTAGAGATGCGTAC GGGAGATATTTTACGACGTGTGGGGCCCAAGAAACCTT	ADI-26945 LAD5227_P03_E06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 354	5650	GGTACCGTCTCCTCA	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLEEGNTIYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYCYGRDAYGRYFYDVGQGLVT VSS	ADI-26945 LAD5227_P03_E06	Heavy chain variable region ("HC") amino acid sequence
Ab 354	5651	FNIKDYMH		ADI-26945 LAD5227_P03_E06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 354	5652	TTCAACATCAAGGACTACTATATGCAC		ADI-26945 LAD5227_P03_E06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 354	5653	WIDLEEGNTIYDAKFQG		ADI-26945 LAD5227_P03_E06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 354	5654	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC		ADI-26945 LAD5227_P03_E06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 354	5655	GRDAYGRYFYDV		ADI-26945 LAD5227_P03_E06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 354	5656	GGTAGAGATGCGTACGGGAGATATTTTACGACGTG		ADI-26945 LAD5227_P03_E06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 354	5657	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-26945 LAD5227_P03_E06	Light chain variable region ("LC") nucleic acid sequence
Ab 354	5658	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26945 LAD5227_P03_E06	Light chain variable region ("LC") amino acid sequence
Ab 354	5659	KSSQSLESRTGKNYLA	ADI-26945 LAD5227_P03_E06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 354	5660	AAGTCCAGCCAGAGCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-26945 LAD5227_P03_E06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 354	5661	WASTRES	ADI-26945 LAD5227_P03_E06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 354	5662	TGGGCATCTACCCGGGAATCC	ADI-26945 LAD5227_P03_E06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 354	5663	KQSYSLRT	ADI-26945 LAD5227_P03_E06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 354	5664	AAGCAATCTTATTCTCTGAGAACT	ADI-26945 LAD5227_P03_E06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 355	5665	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAGAGGGCAACAATCTATGACGCTAAG TTTCAGGGCAGGGTCAACATAACCAAGGACACGTCCTCGC CAGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTG AAGACACGGGCTGACTACTGCTGCGGAGAGATGTTG GGGAGATATTTTACGACGTGTGGGGCCCAAGGAAACCT	ADI-26950 LAD5227_P03_E10	Heavy chain variable region ("HC") nucleic acid sequence

		GGTCACCGTCTCCTCA			
Ab 355	5666	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGIDLEEGNTIYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDVLGRYFYDVWGGGLTVT SS	ADI-26950 LAD5227_P03_E10	Heavy chain variable region ("HC") amino acid sequence	
Ab 355	5667	FNIKDYMH	ADI-26950 LAD5227_P03_E10	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 355	5668	TTCAACATCAAGGACTACTATATGCAC	ADI-26950 LAD5227_P03_E10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence	
Ab 355	5669	WIDLEEGNTIYDAKFQG	ADI-26950 LAD5227_P03_E10	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 355	5670	TGGATCGACCTTGAAGAGGGCAACAATCTATGACGC TAAGTTTCAGGGC	ADI-26950 LAD5227_P03_E10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence	
Ab 355	5671	ARDVLGRYFYDV	ADI-26950 LAD5227_P03_E10	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 355	5672	GCGAGAGATGTGTTGGGGAGATATTTTACGACGTG	ADI-26950 LAD5227_P03_E10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence	

Ab 355	5673	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-26950 LAD5227_P03_E10	Light chain variable region ("LC") nucleic acid sequence
Ab 355	5674	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26950 LAD5227_P03_E10	Light chain variable region ("LC") amino acid sequence
Ab 355	5675	KSSQSLLESRTGKNYLA	ADI-26950 LAD5227_P03_E10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 355	5676	AAGTCCAGCCAGAGCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-26950 LAD5227_P03_E10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 355	5677	WASTRES	ADI-26950 LAD5227_P03_E10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 355	5678	TGGGCATCTACCCGGGAATCC	ADI-26950 LAD5227_P03_E10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 355	5679	KQSYSLRT	ADI-26950 LAD5227_P03_E10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 355	5680	AAGCAATCTTATTCTCTGAGAACT	ADI-26950 LAD5227_P03_E10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 356	5681	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACAGGGACACGCTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATAATACG GGGGGTATTTTACGACGTGTGGGGCCCAAGGAAACCTGTG	ADI-26954 LAD5227_P03_G12	Heavy chain variable region ("HC") nucleic acid sequence

			GTCAACCGTCTCCTCA			
Ab 356	5682	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTSAS TAYMELSSLRSEDTAVYICARDNYGGYFYDVMWGQGLVT VSS	ADI-26954 LAD5227_P03_G12	Heavy chain variable region ("HC") amino acid sequence		
Ab 356	5683	FNIKDYMH	ADI-26954 LAD5227_P03_G12	Heavy chain variable region CDR H1 ("H1") amino acid sequence		
Ab 356	5684	TTCAACATCAAGGACTACTATATGCAC	ADI-26954 LAD5227_P03_G12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence		
Ab 356	5685	WIDLENANTYDAKFKQ	ADI-26954 LAD5227_P03_G12	Heavy chain variable region CDR H2 ("H2") amino acid sequence		
Ab 356	5686	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26954 LAD5227_P03_G12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence		
Ab 356	5687	ARDNYGGYFYDV	ADI-26954 LAD5227_P03_G12	Heavy chain variable region CDR H3 ("H3") amino acid sequence		
Ab 356	5688	GCGAGAGATAATTACGGGGGGTATTTTACGACGTG	ADI-26954 LAD5227_P03_G12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence		

Ab 356	5689	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAGAAAGCAGAAACCGGAAAGAACTACT TAGCTTGGTACCAGCAGAAACAGGACAGCCTCCTAAG CTGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTC CCTGACCGATTCAAGTGGCAGCGGGTCTGGACAGACTT CACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAAGCAATCTTATTCTCTGAGAACTTC GGCGGAGGGACCAAGGTCGAGATCAAA	ADI-26954 LAD5227_P03_G12	Light chain variable region ("LC") nucleic acid sequence
Ab 356	5690	DIVMTQSPDSLAVSLGERATINCKSSQSLLESRTGKNYLAW YQKPGQPPKLLIYWASTRESGVPDFRFGSGSGDTFLTIS SLOAEDVAVYYCKQSYSLRTFGGGTKVEIK	ADI-26954 LAD5227_P03_G12	Light chain variable region ("LC") amino acid sequence
Ab 356	5691	KSSQSLLESRTGKNYLA	ADI-26954 LAD5227_P03_G12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 356	5692	AAGTCCAGCCAGAGCTTTTAGAAAGCAGAAACCGGAAA GAACTACTTAGCT	ADI-26954 LAD5227_P03_G12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 356	5693	WASTRES	ADI-26954 LAD5227_P03_G12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 356	5694	TGGGCATCTACCCGGGAATCC	ADI-26954 LAD5227_P03_G12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 356	5695	KQSYSLRT	ADI-26954 LAD5227_P03_G12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 356	5696	AAGCAATCTTATTCTCTGAGAACT	ADI-26954 LAD5227_P03_G12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 357	5697	GAAGTGAAGCTGCAGCAGTCTGGGGCTGAGCTTGTGAG GCCAGGGGCCTTAGTCAAGTTGTCTGCAAAGCTTCTGA CTTCAACATTAAAGACTACTATATGCACCTGGGTGAAGCA GAGGCTGAACAGGGCCTGGAGTGGATTGGATGGATT GATCCTGAGAATGGTAACTATATATGACCCGAAGTTC CAGGGCAAAGCCAGTATAACAGCAGACACATCCTCCAA CACAGCCTACCTGCAGCTCAGCAGCCTGACATCTGAGGA CACTGCCGTCTATTACTGTGGTAGGGATGGTAACTACTT TTTTGACTACTGGGGCCAAAGGCACACAGGTCACCCGTCTC	ADI-29534 SAD4961_P03_C10	Heavy chain variable region ("HC") nucleic acid sequence

Ab 357	5698	EVKLQQSGAELVRPGALVKLSCKASDFNIKDYYMHWWKQ RPEQGLEWIGWIDPENGNTYDPKFGKASITADTSSNTA YQLSSLTSEDTAVYYCGRDGNFFDYWGQGTIVTSS	ADI-29534 SAD4961_P03_C10	Heavy chain variable region ("HC") amino acid sequence
Ab 357	5699	FNIKDYYMH	ADI-29534 SAD4961_P03_C10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 357	5700	TTCAACATTAAAGACTACTATATGCAC	ADI-29534 SAD4961_P03_C10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 357	5701	WIDPENGNTYDPKFGQ	ADI-29534 SAD4961_P03_C10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 357	5702	TGGATTGATCCTGAGAATGGTAATACTATATATGACCCG AAGTCCAGGGC	ADI-29534 SAD4961_P03_C10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 357	5703	GRDGNFFDY	ADI-29534 SAD4961_P03_C10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 357	5704	GGTAGGGATGGTAACTACTTTTTGACTAC	ADI-29534 SAD4961_P03_C10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

CTCA

Ab 357	5705	GACATCCAGTGACTCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGAGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-29534 SAD4961_P03_C10	Light chain variable region ("LC") nucleic acid sequence
Ab 357	5706	DIQLTQSPSSLAVSAGEKVTMSCKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGSDFTLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-29534 SAD4961_P03_C10	Light chain variable region ("LC") amino acid sequence
Ab 357	5707	KSSQSLNRSRTRKNYLA	ADI-29534 SAD4961_P03_C10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 357	5708	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-29534 SAD4961_P03_C10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 357	5709	WASTRES	ADI-29534 SAD4961_P03_C10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 357	5710	TGGGCATCCACTAGGGAATCT	ADI-29534 SAD4961_P03_C10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 357	5711	KQSYNLR	ADI-29534 SAD4961_P03_C10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 357	5712	AAGCAATCTTATAATCTTCGGACG	ADI-29534 SAD4961_P03_C10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 358	5713	GAAGTGCAGTGCAGCAGTCAGGACCTGAGCTGGTGAA GCCTGGGCTTCAGTGAGGATCTCCTGCAAGGCTTCTG ACTACACCTTCACAAAGTACTATATTCAGTGGTGAAGC AGAGGCTGGACAGGACTTGAAGTGGATGGATTTTC TATCCTGGAAATGTTAATACTAAGTACAATGAGAAATTC AAGGACAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGCACCTCAGCAGCCTGACCTCTGAGGA CTCTGGGCTATTCTGTGCAAGAGATGATGGTTACTA CTTTGACTACTGGGGCCAAAGGACCAACCGGTACCCGCTCTC	ADI-29535 SAD4961_P03_B08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 358	5714	EVQLQQSGPELVKPGASVSRISCKASDYTFTSYYIHVWKQRP GQGLEWIGWIYPGNVNTKYNENFKDKATLTADKSSSTAY MHLSSLTSEDSAVYFCARDDGYFDYWGQGTITVTVSS	ADI-29535 SAD4961_P03_B08	Heavy chain variable region ("HC") amino acid sequence
Ab 358	5715	YTFTSYYIH	ADI-29535 SAD4961_P03_B08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 358	5716	TACACCTTCACAAGCTACTATATTAC	ADI-29535 SAD4961_P03_B08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 358	5717	WIYPGNVNTKYNENFKD	ADI-29535 SAD4961_P03_B08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 358	5718	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AATTTCAAGGAC	ADI-29535 SAD4961_P03_B08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 358	5719	ARDDGYFDY	ADI-29535 SAD4961_P03_B08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 358	5720	GCAAGAGATGATGGTTACTACTTTGACTAC	ADI-29535 SAD4961_P03_B08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

CTCA

Ab 358	5721	GACATCCAGTGACCCAGTCTCCATCCTCCCTGGTGTG TCAGCAGGAGAGAAAGTCACTATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGCACAAAGCTGGAAATCAAA	ADI-29535 SAD4961_P03_B08	Light chain variable region ("LC") nucleic acid sequence
Ab 358	5722	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGGDTFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-29535 SAD4961_P03_B08	Light chain variable region ("LC") amino acid sequence
Ab 358	5723	KSSQSLNRSRTRKNYLA	ADI-29535 SAD4961_P03_B08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 358	5724	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-29535 SAD4961_P03_B08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 358	5725	WASTRES	ADI-29535 SAD4961_P03_B08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 358	5726	TGGGCATCCACTAGGGAATCT	ADI-29535 SAD4961_P03_B08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 358	5727	KQSYNLR	ADI-29535 SAD4961_P03_B08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 358	5728	AAGCAATCTTATAATCTTCGGACG	ADI-29535 SAD4961_P03_B08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 359	5729	CAAGTCAAGCTGGAGCAGTCTGGACCTGAGCTGGTGAA GCCTGGGCTTCAGTGAAGATGTCCTGCAAGGCTTCTG GCTACACCTTCACAAACTACTATACACTGGGTGAAGC AGAGGCTGGACAGGGACTTGAAGTGGATGGATG TATCCTGAAGATGGTAATACTAAATACAATGAGAAATTC AAGGGCAAGACCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGTTGCTCAGCAGCCTGACCTCTGAGGA CTCTGCGATCTATTCTGTGCAAGGAATAACGGTAGTAG CTATGCTATGGACTACTGGGCCAAAGGCCACCCACGGTCA	ADI-29536 SAD4961_P03_G07	Heavy chain variable region ("HC") nucleic acid sequence

Ab 359	5730	CCGTCTCCTCA	QVKLEQSGPELVKPGASVKMSCKASGYTFFTNYIHWWKQR PGQGLEWIGWIYPEDGNTKYNEKFKGKTTLTADKSSSTAY MILLSSLTSEDSAIYFCARNNGSSYAMDYWGQGTITVTVSS	ADI-29536 SAD4961_P03_G07	Heavy chain variable region ("HC") amino acid sequence
Ab 359	5731		YTFNYIHH	ADI-29536 SAD4961_P03_G07	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 359	5732		TACACCTTCACAAAACACTACTATATACAC	ADI-29536 SAD4961_P03_G07	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 359	5733		WIYPEDGNTKYNEKFKG	ADI-29536 SAD4961_P03_G07	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 359	5734		TGGATTTATCCTGAAGATGGTAATACTAAATACAATGAG AAATTCAGGGC	ADI-29536 SAD4961_P03_G07	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 359	5735		ARNNGSSYAMDY	ADI-29536 SAD4961_P03_G07	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 359	5736		GCAAGGAA TAACGGGTAGCTATGCTATGGACTAC	ADI-29536 SAD4961_P03_G07	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 359	5737	GGCATCCAGTGACTCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAGACCCTGGCA GTTTATTACTGCAAGCAGTCTTATAATCTTCGGACGTTCCG GTGGAGGGACCAAGCTGGAGCTGAAA	ADI-29536 SAD4961_P03_G07	Light chain variable region ("LC") nucleic acid sequence
Ab 359	5738	GIQLTQSPSSLAVSAGEKVTMSCKSSQSLNSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGGDTFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLELK	ADI-29536 SAD4961_P03_G07	Light chain variable region ("LC") amino acid sequence
Ab 359	5739	KSSQSLNSRTRKNYLA	ADI-29536 SAD4961_P03_G07	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 359	5740	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-29536 SAD4961_P03_G07	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 359	5741	WASTRES	ADI-29536 SAD4961_P03_G07	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 359	5742	TGGGCATCCACTAGGGAATCT	ADI-29536 SAD4961_P03_G07	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 359	5743	KQSYNLR	ADI-29536 SAD4961_P03_G07	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 359	5744	AAGCAGTCTTATAATCTTCGGACG	ADI-29536 SAD4961_P03_G07	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 360	5745	CAAGTACAGCTGGAGCAGTCAGGACCTGAGCTGGTGAA GCCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCTG GCTACACCTTCACAAGTACTATATACACTGGGTGAGGC AGAGGCTGGTCAGGGACTTGAGTGGATTGGATGGATT TTTCTGAAAATGTTAATACTAAGTACAATGAGAAGTTC AAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGCAGCTCAGCAGCCTGACCTCTGAGGA CTCTGGGTCTATTTCTGTGCAAGAGATGGTAACTACTC CTTTGCTTACTGGGGCCAAAGCCACCACCGGTACCCTCTC	ADI-29537 SAD4961_P03_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 360	5746	CTCA	QVQLEQSGPELVKPGASVSRISCKASGYTFTSYIHVWRQRP GQGLEWIGWIFPGNVNTKYNEKFKGKATLTADKSSSTAY MQLSSLTSEDSAVYFCARDGNYSFAYWGQGTTVTVSS	ADI-29537 SAD4961_P03_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 360	5747		YTFTSYIHH	ADI-29537 SAD4961_P03_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 360	5748		TACACCTTCACAAGCTACTATATACAC	ADI-29537 SAD4961_P03_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 360	5749		WIFPGNVNTKYNEKFKG	ADI-29537 SAD4961_P03_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 360	5750		TGGATTTTTCCTGGAAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-29537 SAD4961_P03_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 360	5751		ARDGNYSFAY	ADI-29537 SAD4961_P03_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 360	5752		GCAAGAGATGGTAACTACTCCTTTGCTTAC	ADI-29537 SAD4961_P03_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 360	5753	GACATTCAGCTCACTCAGTCTCCATCCTCCCTGGCTGTGT CAGCAGGAGAGAAGGTCACATGAGCTGCAAAATCCAGT CAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAAAAACCCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGGACAAAAGCTGGAAATAAAA	ADI-29537 SAD4961_P03_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 360	5754	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGGDTFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-29537 SAD4961_P03_A06	Light chain variable region ("LC") amino acid sequence
Ab 360	5755	KSSQSLNRSRTRKNYLA	ADI-29537 SAD4961_P03_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 360	5756	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-29537 SAD4961_P03_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 360	5757	WASTRES	ADI-29537 SAD4961_P03_A06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 360	5758	TGGGCATCCACTAGGGAATCT	ADI-29537 SAD4961_P03_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 360	5759	KQSYNLR	ADI-29537 SAD4961_P03_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 360	5760	AAGCAATCTTATAATCTTCGGACG	ADI-29537 SAD4961_P03_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 361	5761	CAGGTGAAGCTGGAGCAGTCTGGACCTGAGCTGGTGAA GCCTGGGGCTTCAGTGAGGATATCCTGCAAGGCTTCTG GCTACACCTTCACAACCTACTATATACACTGGGTGAAGC AGAGGCTGGACAGGGACTTGGTGGATTGGATGGATT TATCCTGGAAATGTTAATGCTAAGTACAATGAGAAATT AAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGCAGCTCAGCAGCCTGACCTCTGAGGA CTCTGGGTCTATTTCTGTGCAAGAGATGATGGGTACTA CTTTGACTACTGGGGCCAAAGGACCAACCGGTACCCGTCTC	ADI-29538 SAD4961_P03_A05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 361	5762	CTCA	QVKLEQSGPELVKPGASVRISCKASGYFTFTYYIHWWVKQRP GQGLEWIGWIYPGNVNAKYNEKFKGKATLTADKSSSTAY MQLSSLTSEDSAVYFCARDDGYFDYVWGGQTTVTVSS	ADI-29538 SAD4961_P03_A05	Heavy chain variable region ("HC") amino acid sequence
Ab 361	5763		YTFITYYIH	ADI-29538 SAD4961_P03_A05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 361	5764		TACACCTTCACAAACCTACTATATACAC	ADI-29538 SAD4961_P03_A05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 361	5765		WIYPGNVNAKYNEKFKG	ADI-29538 SAD4961_P03_A05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 361	5766		TGGATTTATCCTGGAAATGTTAATGCTAAGTACAATGAG AAGTTCAAGGGC	ADI-29538 SAD4961_P03_A05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 361	5767		ARDDGYFDY	ADI-29538 SAD4961_P03_A05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 361	5768		GCAAGAGATGATGGGTACTACTTTGACTAC	ADI-29538 SAD4961_P03_A05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 361	5769	GACATCCAGTGACTCAGTCTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGGTCACATGAGCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGCACAAAGCTGGAATAAAA	ADI-29538 SAD4961_P03_A05	Light chain variable region ("LC") nucleic acid sequence
Ab 361	5770	DIQLTQSPSSLAVSAGEKVTMSKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGSGTDFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLENK	ADI-29538 SAD4961_P03_A05	Light chain variable region ("LC") amino acid sequence
Ab 361	5771	KSSQSLNRSRTRKNYLA	ADI-29538 SAD4961_P03_A05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 361	5772	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-29538 SAD4961_P03_A05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 361	5773	WASTRES	ADI-29538 SAD4961_P03_A05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 361	5774	TGGGCATCCACTAGGGAATCT	ADI-29538 SAD4961_P03_A05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 361	5775	KQSYNLR	ADI-29538 SAD4961_P03_A05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 361	5776	AAGCAATCTTATAATCTTCGGACG	ADI-29538 SAD4961_P03_A05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 362	5777	GAGGTCCAGTGCAACAATCAGGACCTGAGCTGGTGAA GCCTGGGCTCAGTGAGGGTATCCTGCAAGGCTTCTG GCTACACCTTCACAAGTACTATATACACTGGGTGAAGC AGAGGCTGGACAGGGACTTGAGTGGATTGGATGGATT TATCCTGGAAATGTTAATACTCAGTACAATGAGAAGTTC AAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAACTACATGCAGCTCAGCAGCCTGACCTCTGAGGA CTCTGGGCTATTCTGTGCAAGAGATGGTGATTACTA CTTTGACTACTGGGGCCAAAGGACCAACCGGTACCCGCTCTC	ADI-29539 SAD4961_P03_B04	Heavy chain variable region ("HC") nucleic acid sequence

Ab 362	5778	EVQLQQSGPELVKPGASVRVSVCKASGYTFTSYIHVVVKQR PGQGLEWIGWIYPGNVNTQYNEKFKGKATLTADKSSSTTY MQLSSLTSEDSAVYFCARDGDYFDYVWGQGTITVTVSS	ADI-29539 SAD4961_P03_B04	Heavy chain variable region ("HC") amino acid sequence
Ab 362	5779	YTFTSYIHH	ADI-29539 SAD4961_P03_B04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 362	5780	TACACCTTCACAAGCTACTATATACAC	ADI-29539 SAD4961_P03_B04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 362	5781	WIYPGNVNTQYNEKFKG	ADI-29539 SAD4961_P03_B04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 362	5782	TGGATTTATCCTGGAAATGTTAATACTCAGTACAATGAG AAGTTCAAGGGC	ADI-29539 SAD4961_P03_B04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 362	5783	ARDGDYFDY	ADI-29539 SAD4961_P03_B04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 362	5784	GCAAGAGATGGTGATTACTACTTTGACTAC	ADI-29539 SAD4961_P03_B04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 362	5785	GGCATTGAGTCCAGGAGTCCATCCTCCCTGGCTGTG TCAGCAGGAGAGAAAGTCACTATGACCTGCAAAATCCAG TCAGAGTCTGCTCAACAGTAGAACCCGAAAGAACTACTT GGCTTGGTACCAGCAGAAACCAGGGCAGTCTCCTAAAC TGCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTATAATCTTCGGACGTTTCG GTGGAGGCACAAAGTTGGAAATAAAA	ADI-29539 SAD4961_P03_B04	Light chain variable region ("LC") nucleic acid sequence
Ab 362	5786	GIQLTQSPSSLAVSAGEKVTMTCKSSQSLNRSRTRKNYLAW YQKPGQSPKLLIYWASTRESGVDPDRFTGSGGDTFLTIS SVQAEDLAVYYCKQSYNLRFTGGGKLEIK	ADI-29539 SAD4961_P03_B04	Light chain variable region ("LC") amino acid sequence
Ab 362	5787	KSSQSLNRSRTRKNYLA	ADI-29539 SAD4961_P03_B04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 362	5788	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCGAAA GAACTACTTGGCT	ADI-29539 SAD4961_P03_B04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 362	5789	WASTRES	ADI-29539 SAD4961_P03_B04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 362	5790	TGGGCATCCACTAGGGAATCT	ADI-29539 SAD4961_P03_B04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 362	5791	KQSYNLR	ADI-29539 SAD4961_P03_B04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 362	5792	AAGCAATCTTATAATCTTCGGACG	ADI-29539 SAD4961_P03_B04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 363	5793	GAGGTCAAGCTGCAGGAGTCTGGACCTGAGCTGGTGAA GCCTGGGCTTCAGTGAGGATATCCTGCAAGGCTTCTG GCTACACCTTCAAAAGTACTATATACACTGGGTGAAGC AGAGGCTGGACAGGACTTGGTGGATGGATGGATT TATCTGGAAATGTTAATACTAAGTACAATGAGAAAGTTC AAGGGCAAGGCCACACTGACTGCAGACAAAATCCTCCAG CACAGCTACATGCAGCTCAGCAGCCTGACCTCTGAGGA CTCTGGGCTATTCTGTGCAAGAGATGGTGATTACTT CTTTGACTACTGGGGCCAAAGGACCAACCGGTACCCGCTCTC	ADI-29540 SAD4961_P03_E01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 363	5794	EVKLQESGPELVKPGASVRISCKASGYTFTSYIHWWVKQRP GQGLEWIGWIYPGNVNTKYNEKFKGKATLTADKSSSTAY MQLSSLTSEDSAVYFCARDGDYFFDYWGQGTITVTVSS	ADI-29540 SAD4961_P03_E01	Heavy chain variable region ("HC") amino acid sequence
Ab 363	5795	YTFTSYIYH	ADI-29540 SAD4961_P03_E01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 363	5796	TACACCTTCACAAGCTACTATATACAC	ADI-29540 SAD4961_P03_E01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 363	5797	WIYPGNVNTKYNEKFKG	ADI-29540 SAD4961_P03_E01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 363	5798	TGGATTTATCCTGGAAATGTTAATACTAAGTACAATGAG AAGTTCAAGGGC	ADI-29540 SAD4961_P03_E01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 363	5799	ARDGDYFFDY	ADI-29540 SAD4961_P03_E01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 363	5800	GCAAGAGATGGTGATTACTTCTTTGACTAC	ADI-29540 SAD4961_P03_E01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 363	5801	GACATCCAGTCAACCAGTCTCCATCCTCCCTGGCTGTGT CAGCAGGAGAGAAGGTCACATGAGCTGCAAAATCCAGT CAGAGTCTGCTCAACAGTAGAACCCAAAAGAACTACTTG GCTTGGTACCAGCAGAAAACAGGGCAGTCTCCTAAACT GCTGATCTACTGGGCATCCACTAGGGAATCTGGGGTCC CTGATCGCTTACAGGCAGTGGATCTGGGACAGATTTCA CTCTCACCATCAGCAGTGTGAGGCTGAAAGACCTGGCA GTTTATTACTGCAAGCAATCTTAATCTTCGGACGTTTCG GTGGAGGCACCAAGCTGAAAATCAAA	ADI-29540 SAD4961_P03_E01	Light chain variable region ("LC") nucleic acid sequence
Ab 363	5802	DIQLTQSPSSLAVSAGEKVTMSCKSSQSLNRSRTQKNYLA WYQQKPGQSPKLLIYWASTRESGVPDRFTGSGSGTDFLT ISSVQAEDLAVYYCKQSYNLRFTGGGTKLIK	ADI-29540 SAD4961_P03_E01	Light chain variable region ("LC") amino acid sequence
Ab 363	5803	KSSQSLNRSRTQKNYLA	ADI-29540 SAD4961_P03_E01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 363	5804	AAATCCAGTCAGAGTCTGCTCAACAGTAGAACCCAAAA GAACTACTTGGCT	ADI-29540 SAD4961_P03_E01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 363	5805	WASTRES	ADI-29540 SAD4961_P03_E01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 363	5806	TGGGCATCCACTAGGGAATCT	ADI-29540 SAD4961_P03_E01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 363	5807	KQSYNLR	ADI-29540 SAD4961_P03_E01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 363	5808	AAGCAATCTTATAATCTTCGGACG	ADI-29540 SAD4961_P03_E01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 364	5809	GAGGTGCAGCTGGTGGAGTCTGGGGAGGCTTGGTCC AGCCTGGAGGTCCTGAAACTCTCTGTGCAGCCTCTG GATTCACCTTCAATAAATACGCCATGAACCTGGTCCGCC AGGCTCCAGGGGAGGGCTGGAGTGGGTGCCCGTATT AGAAGCAAAATAACAAATTACGCCACATACTAGCCGGAC TCTGTGAAAGACAGATTACCATCTCAAGAGATGATTCA AAGAACACAGCGTATCTGCAAAATGAACAACCTGAAAAC CGAGGACACGGGGTGTACTACTGCGTGAGGCACGGCA ACTTCGGGAATTCCTATATTTTCATACTGGGCCTACTGGG	CTL-19613 LAD3583_P02_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 364	5810	GCCAAGGAACCTGGTCACCGTCTCCTCA	EVQLVESGGGLVQPGGSLKLSCAASGFTFNKYAMNWVR QAPGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSK NTAYLQMINLKTEDTAVYYCVRHGFNFGNSYISYWAYWG QGTLVTVSS	CTL-19613 LAD3583_P02_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 364	5811	FTFNKYAMIN		CTL-19613 LAD3583_P02_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 364	5812	TTCACCTTCAATAAATACGCCCATGAAC		CTL-19613 LAD3583_P02_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 364	5813	RIRSKYNNYATYYADSVKD		CTL-19613 LAD3583_P02_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 364	5814	CGTATTAGAAGCAAATATAACAATTACGCCACATACTAC GCCGACTCTGTGAAAGAC		CTL-19613 LAD3583_P02_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 364	5815	VRHGFNFGNSYISYWAY		CTL-19613 LAD3583_P02_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 364	5816	GTGAGGCACGGCAACTTCGGGAATTCCTATATTTCACTAC TGGGCCTAC		CTL-19613 LAD3583_P02_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 364	5817	CAGACTGGTGACTCAGGAGCCCTCACTGACTGTGTCC CCAGGAGGGACAGTCACTCTCACCTGTGGCTCCAGCACT GGAGCTGCACCAGTGGTAATTATCCCAACTGGGTCCA GCAGAAGCTGGCCAAAGCCCCAGGGGACTGATTGGTG GTACAAAAATTCCTGGCCCCCGGACACCTGCCCGTTCT CAGGCTCCCTCCTGGGGCAAAGCTGCCCTGACCCCTT CGGGTGCAGCCTGAGGATGAGGCTGAGTATTACTGC GTGCTCTGGTATAGTAATCGGTGGTGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	CTL-19613 LAD3583_P02_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 364	5818	QTVVTQEPSLTVSPGGTVLTGSSSTGAVTSGNYPNWVQ QKPGQAPRGLIGGKFLAPGTPARFSGSLGGKAALTLGV QPEDEAEYYCVLWYSNRWVFGGGTKLTVL	CTL-19613 LAD3583_P02_A09	Light chain variable region ("LC") amino acid sequence
Ab 364	5819	GSSTGAVTSGNYPN	CTL-19613 LAD3583_P02_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 364	5820	GGCTCCAGCACTGGAGCTGTCAACCAGTGGTAATTATCCC AAC	CTL-19613 LAD3583_P02_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 364	5821	GTKFLAP	CTL-19613 LAD3583_P02_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 364	5822	GGTACAAAAATTCCTGGCCCCC	CTL-19613 LAD3583_P02_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 364	5823	VLWYSNRWV	CTL-19613 LAD3583_P02_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 364	5824	GTGCTCTGGTATAGTAATCGGTGGGTG	CTL-19613 LAD3583_P02_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 365	5825	GAGGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTCC AGCCTGGAGGGTCCCTGAAACTCTCTGTGCAGCCTCTG GATTCACCTTCAATAAATACGCCATGAAGTGGTCCGCC AGGCTCCAGGGGAGGGCTGGAGTGGTTCGCCGTATT AGAAGCAAAATAACAAATACGCCACATACTAGCCCGAC TCTGTGAAAGACAGATTCAACCATCTCAAGAGATGATTCA AAGAACACAGCGTATCTGCAAAATGAACAACCTGAAAAC CGAGGACACGGCGGTACTACTGCGTGAGGCACGGCA ACTTCGGGAATTCCTATATTTTCATACTGGGCCACTGGG	CTL-19669 LAD3584_P02_H12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 365	5826	GCCAAGGAACCTGGTCACCGTCTCCTCA	EVQLVESGGGLVQPGGSLKLSCAASGFTFNKYAMNWVR QAPGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSK NTAYLQMINLIKTEDTAVYYCVRHGFNGNSYISYWAYWG QGTLVTVSS	CTL-19669 LAD3584_P02_H12	Heavy chain variable region ("HC") amino acid sequence
Ab 365	5827	FTFNKYAMIN		CTL-19669 LAD3584_P02_H12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 365	5828	TTCACCTTCAATAAATACGCCCATGAAC		CTL-19669 LAD3584_P02_H12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 365	5829	RIRSKYNNYATYYADSVKD		CTL-19669 LAD3584_P02_H12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 365	5830	CGTATTAGAAGCAAATATAACAATTACGCCACATACTAC GCCGACTCTGTGAAAGAC		CTL-19669 LAD3584_P02_H12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 365	5831	VRHGFNGNSYISYWAY		CTL-19669 LAD3584_P02_H12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 365	5832	GTGAGGCACGGCAACTTCGGGAATTCCTATATTTCACTAC TGGGCCTAC		CTL-19669 LAD3584_P02_H12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 365	5833	CAGACTGGTGACTCAGGAGCCCTCACTGACTGTGTCC CCAGGAGGACAGTCACTCTCACCTGTGGCTCCAGCACT GGAGCTGCACCAGTGTAATATCCCAACTGGGTCCA GCAGAAGCTGGCCAAAGCCCAAGGGACTGATTGGTG GTACAAAATTCCTGGCCCCGGGACACCTGCCCGTTCT CAGGCTCCCTCCTGGGGCAAAGCTGCCCTGACCCCTT CGGGTGCAGCCTGAGGATGAGGCTGAGTATTACTGC GTGCTCTGGTATAGTAATCGGTGGTGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	CTL-19669 LAD3584_P02_H12	Light chain variable region ("LC") nucleic acid sequence
Ab 365	5834	QTVVTQEPSLTVSPGGTVTLTCSSTGAVTSGNYPNWVQ QKPGQAPRGLIGGKFLAPGTPARFSGSLGGKAALTLGV QPEDEAEYYCVLWYSNRWVFGGGTKLTVL	CTL-19669 LAD3584_P02_H12	Light chain variable region ("LC") amino acid sequence
Ab 365	5835	GSSTGAVTSGNYPN	CTL-19669 LAD3584_P02_H12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 365	5836	GGCTCCAGCACTGGAGCTGTCAACCAGTGGTAATTATCCC AAC	CTL-19669 LAD3584_P02_H12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 365	5837	GTKFLAP	CTL-19669 LAD3584_P02_H12	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 365	5838	GGTACAAAATTCCTGGCCCCC	CTL-19669 LAD3584_P02_H12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 365	5839	VLWYSNRWV	CTL-19669 LAD3584_P02_H12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 365	5840	GTGCTCTGGTATAGTAATCGGTGGTG	CTL-19669 LAD3584_P02_H12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 366	5841	GAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTTTCCTGCAAGGCATCT GGATTACCTTACCAGTACTATATACACTGGGTGCGA CAGGCCCTGGACAAAGGCTTGGTGGATAGGATGGAT CTACCTGAAAATGATAACACAAAGTACAAAGGAGAAGT TCAAGGACAGAGTCAACATAACCGCGGACACGTCACCG AGCACAGCTACCTGGAGCTGAGCAGCCTGAGATCTGA GGACACGGGGTGTACTACTGCGCCAGGGACGGATATT CTAGATATTACTTTGACTACTGGGGCCCAAGGAACCTGG	CTL-19672 SAD5477_P02_H03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 366	5842	TCACCGTCTCCTCA	EVQLVQSGAEVKKPGASVKVSCKASGFTFTSYIHVVQRQA PGQGLEWIGWIYPENDNTKYNEKFKDRVTITADTSTAYL ELSSLRSEDTAVYVCARDGYSRYFDYWGQGLTVTVSS	CTL-19672 SAD5477_P02_H03	Heavy chain variable region ("HC") amino acid sequence
Ab 366	5843	FTFTSYIHH		CTL-19672 SAD5477_P02_H03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 366	5844	TTCACCTTCACCAGCTACTATATACAC		CTL-19672 SAD5477_P02_H03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 366	5845	WIYPENDNTKYNEKFKD		CTL-19672 SAD5477_P02_H03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 366	5846	TGGATCTACCCTGAAAATGATAACACAAAAGTACAACGA GAAGTCAAGGAC		CTL-19672 SAD5477_P02_H03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 366	5847	ARDGYSRYFDY		CTL-19672 SAD5477_P02_H03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 366	5848	GCCAGGGACGGATATTCTAGATATTACTTTGACTAC		CTL-19672 SAD5477_P02_H03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 366	5849	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCAAGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGTCTCCTAAGC TGCTCATTTACTGGACATCTACCCGGAAGTCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGATTC ACTCTACCATCAGCAGCCTGCAGGCTGAAGATGTGGC AGTTTATTACTGTAAGCAAAGCTTCATCCTTAGGACGTT CGGCCAAGGGACCAAGGTGGAATCAAA	CTL-19672 SAD5477_P02_H03	Light chain variable region ("LC") nucleic acid sequence
Ab 366	5850	DIVMTQSPDSLAVSLGERATINCKSSQSLNLSRTRKNYLAW YQQKPGQSPKLLIYWTSRKSQVDPDRFSGSGGDFLTISS LQAEDVAVYYCKQSFILRTFGQGTKEIK	CTL-19672 SAD5477_P02_H03	Light chain variable region ("LC") amino acid sequence
Ab 366	5851	KSSQSLNLSRTRKNYLA	CTL-19672 SAD5477_P02_H03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 366	5852	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCAAGAA GAACTACTTAGCT	CTL-19672 SAD5477_P02_H03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 366	5853	WTSTRKS	CTL-19672 SAD5477_P02_H03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 366	5854	TGGACATCTACCCGGAAGTCC	CTL-19672 SAD5477_P02_H03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 366	5855	KQSFILRT	CTL-19672 SAD5477_P02_H03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 366	5856	AAGCAAAGCTTCATCCTTAGGACG	CTL-19672 SAD5477_P02_H03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 367	5857	GAAGTGCAGCTGGTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGCAGGTCCTGAGACTCTCTGTGCAGCCTCTG GATTCACCTTTGATGATTATACCATGCACCTGGTCCGGC AAGCTCCAGGGAAGGGCCTGGAGTGGTCTCAGGTATT AGTTGGAATAGTGGTAGCATAGGCTATGCGGACTCTGT GAAGGGCCGATTCAACCATCTCCAGAGACAACGCCAAGA AGTCCCTGTATCTGCAAAATGAACAGTCTGAGAGCTGAG GACACGGGCTGTACTACTGCGCAAGGACAAATCCGG ATACGGCCACTACTACTACGGTATGGACGTCTGGGGCC	CAB21609_A01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 367	5858	AAGGACCACGGTCACCGTCGCCTCA	EVQLVESGGGLVQPGRSLRLSCAASGFTFDDYTMHWVRQ APGKLEWVSGISWNSGIGYADSVKGRFTISRDNAKKSLY LQMNSLRAEDTALYCAKDNSGYGHHYYGMDVWVGQGT VTVAS	CAB21609_A01	Heavy chain variable region ("HC") amino acid sequence
Ab 367	5859	FTFDDYTMH		CAB21609_A01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 367	5860	TTCACCTTTGATGATTATACCATGCAC		CAB21609_A01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 367	5861	GISWNSGIGYADSVKG		CAB21609_A01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 367	5862	GGTATTAGTTGGAATAGTGGTAGCATAGGCTATGCGGA CTCTGTGAAGGGC		CAB21609_A01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 367	5863	AKDNSGYGHHYYGMDV		CAB21609_A01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 367	5864	GCCAAGGACAAATCCGGATACGGCCCACTACTACCGGT ATGGACGTC		CAB21609_A01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 367	5865	GAAATAGTGATGACGCAGTCTCCAGCCACCCTGTCTGTG TCTCCAGGGGAAAGAGCCACCCTCTCTGCAGGGCCAG TCAGAGTGTAGCAGCAACTAGCCTGGTACCAGCAGA AACCTGGCCAGGCTCCAGGCTCTCATCTATGGTGCAT CCACCAGGGCCACTGGTATCCAGCCAGGTTCAAGTGGC AGTGGTCTGGGACAGAGTCACTCTCACCATCAGCAG CCTGCAGTCTGAAGATTTGCAGTTTATTACTGTCAACAT TACATCAATTTGGCCTCTCACTTTCCGGGGGACCAAG		CAB21609_A01	Light chain variable region("LC") nucleic acid sequence

		GTGGAGATCAAA			
Ab 367	5866	EIVMTQSPATLSVSPGERATLSCRASQSVSSNLAWYQQKP GQAPRLIYGASTRATGIPARFSGSGGTEFTLTISLSQSEDF AVYYCQHYINWPLTFGGGTKVEIK	CAB21609_A01	Light chain variable region ("LC") amino acid sequence	
Ab 367	5867	RASQSVSSNLA	CAB21609_A01	Light chain variable region CDR L1 ("L1") amino acid sequence	
Ab 367	5868	AGGGCCAGTCAGAGTGTTAGCAGCAACTTAGCC	CAB21609_A01	Light chain variable region CDR L1 ("L1") nucleic acid sequence	
Ab 367	5869	GASTRAT	CAB21609_A01	Light chain variable region CDR L2 ("L2") amino acid sequence	
Ab 367	5870	GGTGCATCCACCAGGGCCACT	CAB21609_A01	Light chain variable region CDR L2 ("L2") nucleic acid sequence	
Ab 367	5871	QHYNWPLT	CAB21609_A01	Light chain variable region CDR L3 ("L3") amino acid sequence	
Ab 367	5872	CAACATTACATCAATTGGCCTCTCACT	CAB21609_A01	Light chain variable region CDR L3 ("L3") nucleic acid sequence	
Ab 368	5873	GAAGTGCAGCTGGTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGATCCCTGAGACTCTCCTGTGCAGCCACTG GATTCACCTTTGATGATTTACCAATGCACCTGGGTCCGGC AAGCTCCAGGGAAAGGGCCTGGAGTGGTCTCAGGTATT AGTTGGAATAGTGGTAGCATAGGCTATGTGGACTCTGT GAAGGGCCGATTCAACCATCTCCAGAGACAACGCCAAGA ACTCCCTGTATCTGCAAATGAACAGTCTGAGAGCTGAGG ACACGGCGTTGTACTACTCGCCAAAGGACAACAGCGGA TACGGCTACTACTACTACGGTATGGACGCTGGGGGCA AGGGACCACGGTCAACCCTCTCTCA	CAB21609_B01	Heavy chain variable region ("HC") nucleic acid sequence	

Ab 368	5874	EVQLVESGGGLVQPGGSLRLSCAATGFTFDDFTMHWVRQ APGKGLEWVSGISWNSGSIYVDSVKGRFTISRDNAKNSL YLQMNSLRAEDTALYYCAKDNSGYGYYYGMIDVWGQGT TVTSS	CAB21609_B01	Heavy chain variable region ("HC") amino acid sequence
Ab 368	5875	FTFDDFTMH	CAB21609_B01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 368	5876	TTCACCTTTGATGATTCACCATGCAC	CAB21609_B01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 368	5877	GISWNSGSIYVDSVKG	CAB21609_B01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 368	5878	GGTATTAGTTGGAATAGTGGTAGCATAGGCTATGTGGA CTCTGTGAAGGGC	CAB21609_B01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 368	5879	AKDNSGYGYYYGMIDV	CAB21609_B01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 368	5880	GCCAAAGGACAAACAGCGGATACGGCTACTACTACCGG TATGGACGTC	CAB21609_B01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 368	5881	GAAATAGTGATGAGCGAGTCTCAGCCACCCTGTCTGTG TCTCCAGGGAAAGAGCCACCCTCTCTGCAGGGCCAG TCACAGTGTAGCAGAAACTCAGCCTGGTACCAGCAGA AACCTGGCCAGGCTCCAGGCTCTCATCTATGGTGCAT CCACCAGGCCACTGGTATCCCAGCCAGGTTCAAGTGGC AGTGGTCTGGGACAGAGTTCACCTCACCATCAGCAG CCTGCAGTCTGAAGATTTGCAATTTACTGTCAACA GTATAATAATTGGCCGCTCACTTCGGCGGAGGGACCA AGGTGGAGATCAAA	CAB21609_B01	Light chain variable region("LC") nucleic acid sequence
Ab 368	5882	EIVMTQSPATLSVSPGERATLSCRASHSVSRNSAWYQQKP GQAPRLIYGASTRATGIPARFSGSGGTEFTLTISSLQSEDF AIYCCQQYNNWPLTFGGGTKVEIK	CAB21609_B01	Light chain variable region ("LC") amino acid sequence
Ab 368	5883	RASHSVSRNSA	CAB21609_B01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 368	5884	AGGGCCAGTCACAGTGTAGCAGAAACTCAGCC	CAB21609_B01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 368	5885	GASTRAT	CAB21609_B01	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 368	5886	GGTGCATCCACGAGGGCCACT	CAB21609_B01	amino acid sequence Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 368	5887	QQYNNWPLT	CAB21609_B01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 368	5888	CAACAGTATAATAATTGCCGCTCACT	CAB21609_B01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 369	5889	CAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCC AGCTGGGAGGTCCTGAGACTCTCCTGTGCAGCGTCT GGATTCACCTTCAGAAAGCTATGCCATGCACTGGGTCCGC CAGGCTCCAGGCAAGGGGCTGGAGTGGGTGGCAATGG TATACTATGATGAAATAATCAATACTATGCAGACTCCG TGAGGGCCGATTCAACATCTCCAGAGACAATTCCAAG AACACGCTGTATCTGCAAATGAACAGCCTGAGAGCCGA CGACACGGCGGTGACTTCTCGCTAGAGGTCCTGGCT ATAACTGGTTGGACCCCTGGGGCCAGGGAAACCCTGGTC ACCGTCTCCTCA	CAB21609_C01	Heavy chain variable region ("HC") nucleic acid sequence
Ab 369	5890	QVQLVESGGGVVQPGRSLRLSCAASGFTFRSYAMHWVR QAPGKLEWVAMVYDGNQYYADSVRGRFTISRDNK NTLYLQMNSLRADDTAVYFCARGPGYNWLDPWVGGTLV TVSS	CAB21609_C01	Heavy chain variable region ("HC") amino acid sequence
Ab 369	5891	FTRSYAMH	CAB21609_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 369	5892	TTCACCTTCAGAAGCTATGCCATGCAC	CAB21609_C01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 369	5893	MVYDGNQYYADSVRG	CAB21609_C01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 369	5894	ATGGTATACTATGATGGAATAATAACTACTATGCAGAC TCCGTGAGGGGC	CAB21609_C01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 369	5895	ARGPGYNWLDP	CAB21609_C01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 369	5896	GCTAGAGGTCCTGGCTATAACTGGTTGGACCCC	CAB21609_C01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 369	5897	GAAATAGTGATGACGCAGTCTCCAGCCACCCTGTCTGTG TCTCCAGGGGAAAGAGCCACCCTCTCTGCAGGGCCAG TCAGAGTGTAGCAGAAACTTAGCCTGGTACCAGCAGA AACCTGGCCAGGCTCCAGGCTCTCATCTATGGTGCA CCACCAGGGCCACTGGTATCCAGCCAGGTTCAAGTGGC AGTGGTCTGGGACAGACTTCACTCTCACCATCAGCAGC CTGCAGCTGAAGATTTGCAGTTTACTGTCAACAG TACAACAATTGGCCTCTCACTTTGGCGGAGGGACCAAG GTGGTGATCAAA	CAB21609_C01	Light chain variable region ("LC") nucleic acid sequence
Ab 369	5898	EIVMTQSPATLSVSPGERATLSCRASQSVSRNLAWYQQKP GQAPRLIYGASTRATGIPARFSGSGGTDFTLTISLSQSEDF AVYYCQQYNWPLTFGGGKVKVIK	CAB21609_C01	Light chain variable region ("LC") amino acid sequence
Ab 369	5899	RASQSVSRNLA	CAB21609_C01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 369	5900	AGGGCCAGTCAGAGTGTTAGCAGAAACTTAGCC	CAB21609_C01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 369	5901	GASTRAT	CAB21609_C01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 369	5902	GGTGCATCCACCAGGGCCACT	CAB21609_C01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 369	5903	QQYNWPLT	CAB21609_C01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 369	5904	CAACAGTACAACAATTGGCCTCTCACT	CAB21609_C01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 370	5905	CAGGTGCAGTGGTGGAGTCTGGGGAGGCGTGGTCC AGCCTGGGAGGTCCTGAGACTCGCCTGTGTAGCGTCT GGATTACCTTCAGAAGCTATGGCATGCACTGGGTCCGC CAGGCTCCAGGCAAGGGGCTGCAGTGGTGGCAATGA TATACTATGATGGAAGAATAAA TACTATGCAGACTCCG TGAGGGCCGATTCAACCATCTCCAGAGACAATTCCAAG AACACGCTGATCTGCAAAATGAACAACCTGAGAGTCGA GGACACGGCGATGTACTTCTGGCCAGAGGTCAGGCT ATAACTGGTTGGACCCCTGGGGCCAGGGAAACCCCTGGTC	CAB21609_D01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 370	5906	ACCGTCTCCTCA	QVQLVESGGGVVQPGRSLRLACVASGFTFRSYGMHWVR QAPGKGLQWVAMIYYDGKMKYYADSVRGRFTISRDN SKN TLYLQMNINLRVEDTAMIFYCARGPGYNWLDPPWGQGLTV TVSS	CAB21609_D01	Heavy chain variable region ("HC") amino acid sequence
Ab 370	5907		FTFRSYGMH	CAB21609_D01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 370	5908		TTCACCTTCAGAAGCTATGGCATGCAC	CAB21609_D01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 370	5909		MIYYDGKMKYYADSVRG	CAB21609_D01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 370	5910		ATGATATACTATGATGGAAGAATAAATACTATGCAGAC TCCGTGAGGGGC	CAB21609_D01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 370	5911		ARGPGYNWLDP	CAB21609_D01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 370	5912		GCCAGAGGTCCAGGGCTATAACTGGTTGGACCCC	CAB21609_D01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 370	5913		GAAATAGTGATGACGCAGTCTCCAGCCACCCTGTCTGTG TCTCCAGGGGAAAGAGCCACCCTCTCTGCAGGGCCAG TCAGAGAATTAGCAGCAACTAGCCTGGTACCAGCAGA AACCTGGCCAGGCTCCAGGCTCTCATCTATGGTGCAT CCACCAGGGCCACTGGTAGCCAGCCAGGTTCCAGTGGC AGTGGTCTGGGACAGACTTCACTTCACCATCAGCAGC CTGCAGTCTGAAGATGTTGCAGTTTACTGTGAGCAG CATCATAACTGGCCTCTCACTTTCGGCGGAGGGACCAAG	CAB21609_D01	Light chain variable region("LC") nucleic acid sequence

			GTGGAGATCAAA			
Ab 370	5914		EIVMTQSPATLSVSPGERATLSCRASQRISSNLAWYQQKP GQAPRLIYGASTRATGSPARFSGSGTDFTLTISLSQSE VAVYYCQQHHNWPLTFGGGTKVEIK	CAB21609_D01	Light chain variable region ("LC") amino acid sequence	
Ab 370	5915		RASQRISSNLA	CAB21609_D01	Light chain variable region CDR L1 ("L1") amino acid sequence	
Ab 370	5916		AGGGCCAGTCAGAGAATTAGCAGCAAATTAGCC	CAB21609_D01	Light chain variable region CDR L1 ("L1") nucleic acid sequence	
Ab 370	5917		GASTRAT	CAB21609_D01	Light chain variable region CDR L2 ("L2") amino acid sequence	
Ab 370	5918		GGTGCATCCACCAGGGCCACT	CAB21609_D01	Light chain variable region CDR L2 ("L2") nucleic acid sequence	
Ab 370	5919		QQHHNWPLT	CAB21609_D01	Light chain variable region CDR L3 ("L3") amino acid sequence	
Ab 370	5920		CAGCAGCATCATAAAGTGGCCTCTCACT	CAB21609_D01	Light chain variable region CDR L3 ("L3") nucleic acid sequence	
Ab 371	5921		GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGGTCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTAACACATATGCCATGAATGGGTCGCCC AGGCTCCAGGGAAGGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAAGTATAACAAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTCC CAAGAGCACGCTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTGTAATACTGCGTCAGGCACGGT AACTTCGGGAACAGTATGTATCCTGGTTGCTTATTGG GGCCAAGGAACCTGGTCACCCGTCCTCTCA	ADI-16606 LAD2189_P03_F02	Heavy chain variable region ("HC") nucleic acid sequence	

Ab 371	5922	EVQLLESGGGLVQPGGSLRLSCLAAASGFTFNTYAMNWWVRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMNSLRAEDTAVYYCVRHGFNGNSVSWFAYVWGQG TLVTVSS	ADI-16606 LAD2189_P03_F02	Heavy chain variable region ("HC") amino acid sequence
Ab 371	5923	FTFNTYAMN	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 371	5924	TTCACCTTTAACACATATGCCATGAAT	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 371	5925	RIRSKYNNYATYYADSVKD	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 371	5926	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 371	5927	VRHGFNGNSVSWFAY	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 371	5928	GTCAGGCACGGTAACTTCGGGAACAGTTATGTATCCTG GTTTGCTTAT	ADI-16606 LAD2189_P03_F02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 371	5929	CAGACTGTGGTGACCCAGGAGCCATCGTTCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTAGATCAAGCACT GGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCACGGGACTCATCGGCG GCACAAACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAATCTGATTACTGT GCGCTGTGGTACAGTAACTTGGGTTCGGGGGAGG GACCAAGCTGACCGTCCTA	ADI-16606 LAD2189_P03_F02	Light chain variable region ("LC") nucleic acid sequence
Ab 371	5930	QTVVTQEPSFSVSPGGTVTLTCRSSTGAVTTSNYANWVQ QTPGOAPRGLIGGTNKRAPGVDFRFSGLLGDKAALITIG AQADDESDDYCALWYNSLWVFGGKLTIVL	ADI-16606 LAD2189_P03_F02	Light chain variable region ("LC") amino acid sequence
Ab 371	5931	RSSTGAVTTSNYAN	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 371	5932	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-16606 LAD2189_P03_F02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 371	5933	GTNKRAP	ADI-16606	Light chain variable region CDR L2 ("L2") amino acid sequence

				LAD2189_P03_F02	amino acid sequence
Ab 371	5934	GGCACAAACAAGCGGCTCCT		ADI-16606	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 371	5935	ALWYSLWV		LAD2189_P03_F02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 371	5936	GCGCTGGTACAGTAACCTTGGGTG		ADI-16606	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 372	5937	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGCTCCTGCAAGGCTTCT GGATTC AACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGGTAACACAATCTATGACCCGAAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGTCGCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGATACG CTAGATATTACTTTGATGTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCCTCA		ADI-21960 SAD5837_P01_A04	Heavy chain variable region ("HC") nucleic acid sequence
Ab 372	5938	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFGGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDGYARYYFDVWGQGLTVT SS		ADI-21960 SAD5837_P01_A04	Heavy chain variable region ("HC") amino acid sequence
Ab 372	5939	FNIKDYYMH		ADI-21960 SAD5837_P01_A04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 372	5940	TTCAACATCAAGGACTACTATATGCAC		ADI-21960 SAD5837_P01_A04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 372	5941	WIDLENGNTIYDPKFGQ		ADI-21960 SAD5837_P01_A04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 372	5942	TGGATCGACCTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC		ADI-21960 SAD5837_P01_A04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 372	5943	ARDGYARYYFDV		ADI-21960 SAD5837_P01_A04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 372	5944	GCGAGAGATGGATACCGTAGATATTACTTTGATGTG		ADI-21960 SAD5837_P01_A04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 372	5945	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21960 SAD5837_P01_A04	Light chain variable region ("LC") nucleic acid sequence
Ab 372	5946	DIVMTQPSDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLQAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21960 SAD5837_P01_A04	Light chain variable region ("LC") amino acid sequence
Ab 372	5947	KSSQSLNSRTGKNYLA	ADI-21960 SAD5837_P01_A04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 372	5948	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21960 SAD5837_P01_A04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 372	5949	WASTRES	ADI-21960 SAD5837_P01_A04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 372	5950	TGGGCATCTACCCGGGAATCC	ADI-21960 SAD5837_P01_A04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 372	5951	KQYSRRT	ADI-21960 SAD5837_P01_A04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 372	5952	AAGCAATCTTATTCTCGGAGAAT	ADI-21960 SAD5837_P01_A04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 373	5953	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTTAACACAAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCAGGGACACGTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTACTACTGCGCGGAGAGATGGATACG CTAGATA TTA TACTATGACTACTGGGGCCAAAGGAACCCCTGG TCACCGTCTCCTCA	ADI-21961 SAD5837_P01_C05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 373	5954	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFGGRVTITRDT TSAS TAYMELSSLRSED TAVYCARDGYARYYDYWGQGLTVT SS	ADI-21961 SAD5837_P01_C05	Heavy chain variable region ("HC") amino acid sequence
Ab 373	5955	FNIKDYMH	ADI-21961 SAD5837_P01_C05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 373	5956	TTCAACATCAAGGACTACTATATGCAC	ADI-21961 SAD5837_P01_C05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 373	5957	WIDLENGNTIYDPKFGQ	ADI-21961 SAD5837_P01_C05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 373	5958	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21961 SAD5837_P01_C05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 373	5959	ARDGYARYYDY	ADI-21961 SAD5837_P01_C05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 373	5960	GCGAGAGATGGATACGCTAGATATTACTATGACTAC	ADI-21961 SAD5837_P01_C05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 373	5961	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGGAAGAATACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTGAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGACCAAGGTCGAGATCAA	ADI-21961 SAD5837_P01_C05	Light chain variable region ("LC") nucleic acid sequence
Ab 373	5962	DIVMTQSPDLSAVSLGERATINCKSSQSLINSRGKNYLAW YQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLTIS SLQAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21961 SAD5837_P01_C05	Light chain variable region ("LC") amino acid sequence
Ab 373	5963	KSSQSLINSRGKNYLA	ADI-21961 SAD5837_P01_C05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 373	5964	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21961 SAD5837_P01_C05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 373	5965	WASTRES	ADI-21961 SAD5837_P01_C05	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 373	5966	TGGGCATCTACCCGGGAATCC	ADI-21961 SAD5837_P01_C05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 373	5967	KQYSRRRT	ADI-21961 SAD5837_P01_C05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 373	5968	AAGCAATCTTATTCTCGGAGAACT	ADI-21961 SAD5837_P01_C05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 374	5969	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGGTAAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTACTACTGCACTGAGTAGAGATGGA TAGG CTAGATA TTACTTTGACTACTGGGGCCCAAGAAACCCCTGG TCACCGTCTCCTCA	ADI-21962 SAD5837_P01_B06	Heavy chain variable region ("HC") nucleic acid sequence
Ab 374	5970	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFGGRVTTTRDTSAS TAYMELSLRSED TAVYCSRDRGYARYYFDYWGGQTLVTV SS	ADI-21962 SAD5837_P01_B06	Heavy chain variable region ("HC") amino acid sequence
Ab 374	5971	FNIKDYMH	ADI-21962 SAD5837_P01_B06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 374	5972	TTCAACATCAAGGACTACTATATGCAC	ADI-21962 SAD5837_P01_B06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 374	5973	WIDLENGNTIYDPKFGQ	ADI-21962 SAD5837_P01_B06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 374	5974	TGGATCGACCTTGAANAATGGTAAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21962 SAD5837_P01_B06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 374	5975	SRDGYARYYFDY	ADI-21962 SAD5837_P01_B06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 374	5976	AGTAGAGATGGATACGCTAGATATTACTTTGACTAC	ADI-21962 SAD5837_P01_B06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 374	5977	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21962 SAD5837_P01_B06	Light chain variable region ("LC") nucleic acid sequence
Ab 374	5978	DIVMTQPSDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21962 SAD5837_P01_B06	Light chain variable region ("LC") amino acid sequence
Ab 374	5979	KSSQSLNSRTGKNYLA	ADI-21962 SAD5837_P01_B06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 374	5980	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21962 SAD5837_P01_B06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 374	5981	WASTRES	ADI-21962 SAD5837_P01_B06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 374	5982	TGGGCATCTACCCGGGAATCC	ADI-21962 SAD5837_P01_B06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 374	5983	KQYSRRT	ADI-21962 SAD5837_P01_B06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 374	5984	AAGCAATCTTATTCTCGGAGAACT	ADI-21962 SAD5837_P01_B06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 375	5985	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGGTAAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCCTCCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCAATAGAGATGGATACG CTAGATA TTA TACTATGACTACTGGGGCCAAAGGAACCCCTGG TCACCGTCTCCTCA	ADI-21964 SAD5837_P01_B08	Heavy chain variable region ("HC") nucleic acid sequence

Ab 375	5986	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFGGRVTITRDT TSAS TAYMELSSLRSED TAVYVCNRDGYARYYYDYWGQGLT VSS	ADI-21964 SAD5837_P01_B08	Heavy chain variable region ("HC") amino acid sequence
Ab 375	5987	FNIKDYMH	ADI-21964 SAD5837_P01_B08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 375	5988	TTCAACATCAAGGACTACTATATGCAC	ADI-21964 SAD5837_P01_B08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 375	5989	WIDLENGNTIYDPKFGQ	ADI-21964 SAD5837_P01_B08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 375	5990	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21964 SAD5837_P01_B08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 375	5991	NRDGYARYYDY	ADI-21964 SAD5837_P01_B08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 375	5992	AATAGAGATGGATACGCTAGATATTACTATGACTAC	ADI-21964 SAD5837_P01_B08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 375	5993	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGGAAGAATACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTGAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21964 SAD5837_P01_B08	Light chain variable region ("LC") nucleic acid sequence
Ab 375	5994	DIVMTQSPDSLAVSLGERATINCKSSQSLINSRGKNYLAW YQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLTIS SLQAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21964 SAD5837_P01_B08	Light chain variable region ("LC") amino acid sequence
Ab 375	5995	KSSQSLINSRGKNYLA	ADI-21964 SAD5837_P01_B08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 375	5996	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21964 SAD5837_P01_B08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 375	5997	WASTRES	ADI-21964 SAD5837_P01_B08	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 375	5998	TGGGCATCTACCCGGGAATCC	ADI-21964 SAD5837_P01_B08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 375	5999	KQYSRRRT	ADI-21964 SAD5837_P01_B08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 375	6000	AAGCAATCTTATTCTCGGAGAACT	ADI-21964 SAD5837_P01_B08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 376	6001	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGGTAAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCACCATACCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTACTACTGCGCGGAGAGATGGATACG CTAGATATTTTTTTGACAAATGGGGCCAAAGGAAACCTGG TCACCGTCTCCTCA	ADI-21966 SAD5837_P01_G10	Heavy chain variable region ("HC") nucleic acid sequence
Ab 376	6002	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFGQGRVTTTRDTSAS TAYMELSLRSEDYAVVYCARDGYARYFFDNWVGGTLVT VSS	ADI-21966 SAD5837_P01_G10	Heavy chain variable region ("HC") amino acid sequence
Ab 376	6003	FNIKDYMH	ADI-21966 SAD5837_P01_G10	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 376	6004	TTCAACATCAAGGACTACTATATGCAC	ADI-21966 SAD5837_P01_G10	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 376	6005	WIDLENGNTIYDPKFGQ	ADI-21966 SAD5837_P01_G10	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 376	6006	TGGATCGACCTGAAAATGGTAAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21966 SAD5837_P01_G10	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 376	6007	ARDGYARYFFDN	ADI-21966 SAD5837_P01_G10	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 376	6008	GCGAGAGATGGATACGCTAGATATTTTTTTGACAAT	ADI-21966 SAD5837_P01_G10	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 376	6009	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21966 SAD5837_P01_G10	Light chain variable region ("LC") nucleic acid sequence
Ab 376	6010	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21966 SAD5837_P01_G10	Light chain variable region ("LC") amino acid sequence
Ab 376	6011	KSSQSLNSRTGKNYLA	ADI-21966 SAD5837_P01_G10	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 376	6012	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21966 SAD5837_P01_G10	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 376	6013	WASTRES	ADI-21966 SAD5837_P01_G10	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 376	6014	TGGGCATCTACCCGGGAATCC	ADI-21966 SAD5837_P01_G10	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 376	6015	KQYSRRT	ADI-21966 SAD5837_P01_G10	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 376	6016	AAGCAATCTTATTCTCGGAGAACT	ADI-21966 SAD5837_P01_G10	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 377	6017	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGTTAACACAAATCTATGACCCGAAAGT TTCAGGGCAGGGTCAACCAATAACCCAGGGACAGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGGGTACG GGAGATATTACTTTGACCGTTGGGGCAAGGAACCCCTG GTCACCGTCTCCTCA	ADI-21968 SAD5837_P01_A12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 377	6018	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFKGRVTITRDT TSASTAYMELSSLRSEDTAVYFCARDGYGRYYFDRW GQGLTIVSS	ADI-21968 SAD5837_P01_A12	Heavy chain variable region ("HC") amino acid sequence
Ab 377	6019	FNIKDYMH	ADI-21968 SAD5837_P01_A12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 377	6020	TTCAACATCAAGGACTACTATATGCAC	ADI-21968 SAD5837_P01_A12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 377	6021	WIDLENGNTIYDPKFKQG	ADI-21968 SAD5837_P01_A12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 377	6022	TGGATCGACCTTGAAAATGGTAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21968 SAD5837_P01_A12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 377	6023	ARDGYGRYYFDR	ADI-21968 SAD5837_P01_A12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 377	6024	GCGAGAGATGGGTACGGGAGAGATATTACTTTGACCGT	ADI-21968 SAD5837_P01_A12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 377	6025	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCCGGAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCCCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTGAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTCG GCGGAGGACCAAGGTCGAGATCAAA	ADI-21968 SAD5837_P01_A12	Light chain variable region ("LC") nucleic acid sequence
Ab 377	6026	DIVMTQSPDLSAVSLGERATINCKSSQSLINSRGKNYLAW YQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLTIS SLQAEDVAVYCKQSYSRRTFGGGTKVEIK	ADI-21968 SAD5837_P01_A12	Light chain variable region ("LC") amino acid sequence
Ab 377	6027	KSSQSLINSRGKNYLA	ADI-21968 SAD5837_P01_A12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 377	6028	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21968 SAD5837_P01_A12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 377	6029	WASTRES	ADI-21968 SAD5837_P01_A12	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 377	6030	TGGGCATCTACCCGGGAATCC	ADI-21968 SAD5837_P01_A12	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 377	6031	KQYSRRRT	ADI-21968 SAD5837_P01_A12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 377	6032	AAGCAATCTTATTCTCGGAGAACT	ADI-21968 SAD5837_P01_A12	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 378	6033	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGGTAAACACAATCTATGACCCGAAAGT TTCAGGGCAGGGTCACCATACCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGTGACTACTGCGGGTGGATGGATACG CTAGATATTACTTTGACTACTGGGGCCCAAGGAACCCCTGG TCACCGTCTCCTCA	ADI-21969 SAD5837_P02_C01	Heavy chain variable region ("HC") nucleic acid sequence
Ab 378	6034	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENGNTIYDPKFGQGRVITTRDTSAS TAYMELSLRSEDYAVYCGSDGYARYYFDYWGGQTLVTV SS	ADI-21969 SAD5837_P02_C01	Heavy chain variable region ("HC") amino acid sequence
Ab 378	6035	FNIKDYMH	ADI-21969 SAD5837_P02_C01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 378	6036	TTCAACATCAAGGACTACTATATGCAC	ADI-21969 SAD5837_P02_C01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 378	6037	WIDLENGNTIYDPKFGQ	ADI-21969 SAD5837_P02_C01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 378	6038	TGGATCGACCTGAAAATGGTAAACACAATCTATGACCCG AAGTTTCAGGGC	ADI-21969 SAD5837_P02_C01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 378	6039	GSDGYARYYFDY	ADI-21969 SAD5837_P02_C01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 378	6040	GGGTCGGATGGATACCGTAGATATTACTTTGACTAC	ADI-21969 SAD5837_P02_C01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 378	6041	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACAGCAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-21969 SAD5837_P02_C01	Light chain variable region ("LC") nucleic acid sequence
Ab 378	6042	DIVMTQSPDSLAVSLGERATINCKSSQSLNSRTGKNYLAW YQKPGQPPKLLIYWASTRESGVDPDRFSGSGGDTFLTIS SLOAEDVAVYYCKQSYSRRTFGGGTKVEIK	ADI-21969 SAD5837_P02_C01	Light chain variable region ("LC") amino acid sequence
Ab 378	6043	KSSQSLNSRTGKNYLA	ADI-21969 SAD5837_P02_C01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 378	6044	AAGTCCAGCCAGAGTCTTTAAACAGCAGAACCCGGAAA GAACTACTTAGCT	ADI-21969 SAD5837_P02_C01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 378	6045	WASTRES	ADI-21969 SAD5837_P02_C01	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 378	6046	TGGGCATCTACCCGGGAATCC	ADI-21969 SAD5837_P02_C01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 378	6047	KQYSRRT	ADI-21969 SAD5837_P02_C01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 378	6048	AAGCAATCTTATTCTCGGAGAACT	ADI-21969 SAD5837_P02_C01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 379	6049	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGGTAGAGATGCGTAGG GGAGATATTTTACGACGCTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCTCA	ADI-26907 LAD5224_P03_D02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 379	6050	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDVAVYCGRDAYGRYFYDVWGGGLT VSS	ADI-26907 LAD5224_P03_D02	Heavy chain variable region ("HC") amino acid sequence
Ab 379	6051	FNIKDYMH	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 379	6052	TTCAACATCAAGGACTACTATATGCAC	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 379	6053	WIDLENANTYDAKFKQG	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 379	6054	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 379	6055	GRDAYGRYFYDV	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 379	6056	GGTAGAGATGCGTACGGGAGATATTTTACGACGTG	ADI-26907 LAD5224_P03_D02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 379	6057	GACATCGTGATGACCCAGTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACCGTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26907 LAD5224_P03_D02	Light chain variable region ("LC") nucleic acid sequence
Ab 379	6058	DIVMTQSPDSLAVSLGERATINCKSSQSLINARTGKNYLA WYQQKPGQPPLIYWASTRESGVPDFRFGSGSGLDFTLT ISSLQAEDVAVYCKQSYRRITFGGGTKVEIK	ADI-26907 LAD5224_P03_D02	Light chain variable region ("LC") amino acid sequence
Ab 379	6059	KSSQSLINARTGKNYLA	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 379	6060	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 379	6061	WASTRES	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 379	6062	TGGGCATCTACCCGGGAATCC	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 379	6063	KQYSRRRT	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 379	6064	AAGCAATCTTATTCTCGGAGAACT	ADI-26907 LAD5224_P03_D02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 380	6065	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGAGAGATGTTGG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG GTCACCCGCTCTCCTCA	ADI-26912 LAD5224_P03_E05	Heavy chain variable region ("HC") nucleic acid sequence
Ab 380	6066	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFGQGRVITTRDTSAS TAYMELSLRSEDYAVVYCARDVLGRYFYDVWVWGQGLVTV SS	ADI-26912 LAD5224_P03_E05	Heavy chain variable region ("HC") amino acid sequence
Ab 380	6067	FNIKDYMH	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 380	6068	TTCAACATCAAGGACTACTATATGCAC	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 380	6069	WIDLENANTYDAKFAQG	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 380	6070	TGGATCGACCTTGAANAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 380	6071	ARDVLGRYFYDV	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 380	6072	GCGAGAGATGTTGGGGAGATATTTTTACGACGCTG	ADI-26912 LAD5224_P03_E05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 380	6073	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26912 LAD5224_P03_E05	Light chain variable region ("LC") nucleic acid sequence
Ab 380	6074	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26912 LAD5224_P03_E05	Light chain variable region ("LC") amino acid sequence
Ab 380	6075	KSSQSLLNARTGKNYLA	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 380	6076	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 380	6077	WASTRES	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 380	6078	TGGGCATCTACCCGGGAATCC	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 380	6079	KQYSRRT	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 380	6080	AAGCAATCTTATTCTCGGAGAACT	ADI-26912 LAD5224_P03_E05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 381	6081	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAGGGACACGTCCTCCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATCAGTAGG GGAGATATTTTACGACGCTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCTCA	ADI-26913 LAD5224_P03_A06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 381	6082	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDTAVYYCARDQYGRYFYDVWGQGLT VSS	ADI-26913 LAD5224_P03_A06	Heavy chain variable region ("HC") amino acid sequence
Ab 381	6083	FNIKDYMH	ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 381	6084	TTCAACATCAAGGACTACTATATGCAC	ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 381	6085	WIDLENANTYDAKFQG	ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 381	6086	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 381	6087	ARDQYGRYFYDV	ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 381	6088	GCGAGAGATCAGTACGGGAGATATTTTACGACGTG	ADI-26913 LAD5224_P03_A06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 381	6089	GACATCGTGATGACCCAGTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACCGTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26913 LAD5224_P03_A06	Light chain variable region ("LC") nucleic acid sequence
Ab 381	6090	DIVMTQSPDSLAVSLGERATINCKSSQSLINARTGKNYLA WYQQKPGQPPLIYWASTRESGVPDFRFGSGSDFTLIT ISSLQAEDVAVYYCKQSYRRITFGGGTKVEIK	ADI-26913 LAD5224_P03_A06	Light chain variable region ("LC") amino acid sequence
Ab 381	6091	KSSQSLINARTGKNYLA	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 381	6092	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 381	6093	WASTRES	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 381	6094	TGGGCATCTACCCGGGAATCC	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 381	6095	KQYSRRRT	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 381	6096	AAGCAATCTTATTCTCGGAGAACT	ADI-26913 LAD5224_P03_A06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 382	6097	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTAATACTGCGCGAGAGATGTGTACG GGAGATAATTTTACGACCTTTGGGGCCAAAGGAACCCCTG GTCACCGTCTCCTCA	ADI-26916 LAD5224_P03_F08	Heavy chain variable region ("HC") nucleic acid sequence
Ab 382	6098	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTTTRDTSAS TAYMELSLRSEDYAVVYCARDVYGRFYDLWGQGLIVT SS	ADI-26916 LAD5224_P03_F08	Heavy chain variable region ("HC") amino acid sequence
Ab 382	6099	FNIKDYMH	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 382	6100	TTCAACATCAAGGACTACTATATGCAC	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 382	6101	WIDLENANTYDAKFAQG	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 382	6102	TGGATCGACCTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 382	6103	ARDVYGRFYDL	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 382	6104	GCGAGAGATGTACGGGAGATATTTTACGACCTT	ADI-26916 LAD5224_P03_F08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 382	6105	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26916 LAD5224_P03_F08	Light chain variable region ("LC") nucleic acid sequence
Ab 382	6106	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26916 LAD5224_P03_F08	Light chain variable region ("LC") amino acid sequence
Ab 382	6107	KSSQSLLNARTGKNYLA	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 382	6108	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 382	6109	WASTRES	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 382	6110	TGGGCATCTACCCGGGAATCC	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 382	6111	KQYSRRT	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 382	6112	AAGCAATCTTATTCTCGGAGAAT	ADI-26916 LAD5224_P03_F08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 383	6113	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAGGGACACGTCCTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCGCGGAGAGATGCGGTACG GGGGTATTTTTACGACGCTGTGGGGCCCAAGGAACCTG GTCACCGTCTCTCA	ADI-26917 LAD5224_P03_B09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 383	6114	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDVAVYCARDAYGGYFDVWVGQGLTIV VSS	ADI-26917 LAD5224_P03_B09	Heavy chain variable region ("HC") amino acid sequence
Ab 383	6115	FNIKDYMH	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 383	6116	TTCAACATCAAGGACTACTATATGCAC	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 383	6117	WIDLENANTYDAKFKQG	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 383	6118	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 383	6119	ARDAYGGYFDV	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 383	6120	GCGAGAGATGCGTACGGGGGTATTTTACGACGGTG	ADI-26917 LAD5224_P03_B09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 383	6121	GACATCGTGATGACCCAGTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACCGTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26917 LAD5224_P03_B09	Light chain variable region ("LC") nucleic acid sequence
Ab 383	6122	DIVMTQSPDSLAVSLGERATINCKSSQSLINARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDFRFGSGSDFTLIT ISSLQAEDVAVYCKQSYRRITFGGGTKVEIK	ADI-26917 LAD5224_P03_B09	Light chain variable region ("LC") amino acid sequence
Ab 383	6123	KSSQSLINARTGKNYLA	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 383	6124	AAGTCCAGCCAGAGTCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 383	6125	WASTRES	ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 383	6126	TGGGCATCTACCCGGGAATCC		ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 383	6127	KQYSRRRT		ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 383	6128	AAGCAATCTTATTCTCGGAGAACT		ADI-26917 LAD5224_P03_B09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 384	6129	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATAATTACG GGGGTATTTTTACGACGCTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCCTCA		ADI-26918 LAD5224_P03_E09	Heavy chain variable region ("HC") nucleic acid sequence
Ab 384	6130	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSLRSEDYAVVYCARDNYGGYFYDWWGQGLVT VSS		ADI-26918 LAD5224_P03_E09	Heavy chain variable region ("HC") amino acid sequence
Ab 384	6131	FNIKDYMH		ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 384	6132	TTCAACATCAAGGACTACTATATGCAC		ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 384	6133	WIDLENANTYDAKFAQG		ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 384	6134	TGGATCGACCTTGAANAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC		ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 384	6135	ARDNYGGYFYDV		ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 384	6136	GCGAGAGATAATTACGGGGGGTATTTTTACGACGCTG		ADI-26918 LAD5224_P03_E09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 384	6137	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGAAAGAACTACTT AGCTTGGTACCAGAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-26918 LAD5224_P03_E09	Light chain variable region ("LC") nucleic acid sequence
Ab 384	6138	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-26918 LAD5224_P03_E09	Light chain variable region ("LC") amino acid sequence
Ab 384	6139	KSSQSLLNARTGKNYLA	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 384	6140	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 384	6141	WASTRES	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 384	6142	TGGGCATCTACCCGGGAATCC	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 384	6143	KQYSRRT	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 384	6144	AAGCAATCTTATTCTCGGAGAACT	ADI-26918 LAD5224_P03_E09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 385	6145	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTAACACATATGCCATGAATGGGTCGCGC AGGCTCAGGGAAGGGCTGGAGTGGTCCGAAAGGAT TAGATCCAAAGTATAACAAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTCC CAAGAGCACGCTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGGGTGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTTATGTATCTCTGGTTGCTTATTGG GGCCAAGGAACCCTGGTCCACCCGTCCTCTCA	ADI-29601 SAD5269_P02_H05	Heavy chain variable region ("HC") nucleic acid sequence

Ab 385	6146	EVQLLESGGGLVQPGGSLRLSLSAASGFTFNNTYAMNWWVRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMNLSLRAEDTAVYYCVRHGFNGNSVSWFAYVWGQG TLTVSS	ADI-29601 SAD5269_P02_H05	Heavy chain variable region ("HC") amino acid sequence
Ab 385	6147	FTFNTYAMN	ADI-29601 SAD5269_P02_H05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 385	6148	TTCACCTTTAACACATATGCCATGAAT	ADI-29601 SAD5269_P02_H05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 385	6149	RIRSKYNNYATYYADSVKD	ADI-29601 SAD5269_P02_H05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 385	6150	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29601 SAD5269_P02_H05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 385	6151	VRHGNFGNSVSWFAY	ADI-29601 SAD5269_P02_H05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 385	6152	GTCAGGCACGGTAACTTCGGGAACAGTTATGTATCCTG GTTTGCTTAT	ADI-29601 SAD5269_P02_H05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 385	6153	CAGACTGTGGTGACCCAGGAGCCATCGCTCCGGTGTC CCCTGGAGGGACAGTACACTCACCTGTTAGATCAAGCAC TGGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGCGCTCCCGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAATCTGATTATTACTGT GCGCTGTGTACAGTAACTTTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-29601 SAD5269_P02_H05	Light chain variable region ("LC") nucleic acid sequence
Ab 385	6154	QTVVTQEPSLSVSPGGTVTLTCRSSTGAVTTSNYANWVQ QTPGOAPRGLIGGTDKRAPGVPDFRFSGLLGDKAALITG AQAEDESYYCALWYSLWVFGGGTKLTVL	ADI-29601 SAD5269_P02_H05	Light chain variable region ("LC") amino acid sequence
Ab 385	6155	RSSTGAVTTSNYAN	ADI-29601 SAD5269_P02_H05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 385	6156	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29601 SAD5269_P02_H05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 385	6157	GTDKRAP	ADI-29601	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 385	6158	GGCACAGACAAAGCGGCTCCC	SAD5269_P02_H05	amino acid sequence
Ab 385	6159	ALWYSNLWV	ADI-29601 SAD5269_P02_H05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 385	6160	GCGCTGTGTACAGTAACCTTGGGTG	ADI-29601 SAD5269_P02_H05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 386	6161	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGTCCCTGAGACTCTCCTGTGCGCCTCTG GATTCACCTTTAACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATT CAAGAGCACGCTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGGTCAGGCACGGT AACTTCGGGAACAGTATGTATCCTGTTGCTTATTGG GGCAAGGAACCTGGTACCCTCTCTCA	ADI-29602 SAD5269_P02_G06	Light chain variable region ("LC") nucleic acid sequence
Ab 386	6162	EVQLLEGGGLVQPGGSLRLSCAASGFTFNTYAMNWVRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMNSLRAEDTAVYYCVRHGFNGNSVSWFAYWGQG TLVTVSS	ADI-29602 SAD5269_P02_G06	Heavy chain variable region ("HC") amino acid sequence
Ab 386	6163	FTFNTYAMN	ADI-29602 SAD5269_P02_G06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 386	6164	TTCACCTTTAACACATATGCCATGAAT	ADI-29602 SAD5269_P02_G06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 386	6165	RIRSKYNNYATYYADSVKVD	ADI-29602 SAD5269_P02_G06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 386	6166	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29602 SAD5269_P02_G06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 386	6167	VRHGFNGNSVSWFAY	ADI-29602 SAD5269_P02_G06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 386	6168	GTCAGGCACGGTAACTTCGGGAACAGTTATGTATCCTG GTTTGCTTAT	ADI-29602 SAD5269_P02_G06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 386	6169	CAGACTGGTGGTGACCCAGGAGGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTGTAGATCAAGCACT GGCGCAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAAACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAAAGCTGATTACTGT GCGTGTGTACAGTAACTTTGGGTTCGGGGGAGG GACCAAGCTGACCGTCCTA	ADI-29602 SAD5269_P02_G06	Light chain variable region ("LC") nucleic acid sequence
Ab 386	6170	QTVVTQEPSLSVSPGGTVLTCRSSTGAVTTSNYANWVQ QTPGQAPRGLIGTNKRAPGVDRFSGLLGDKAALTTIG AQADDEADYCALWYSLWVFGGGTKLTVL	ADI-29602 SAD5269_P02_G06	Light chain variable region ("LC") amino acid sequence
Ab 386	6171	RSSTGAVTTSNYAN	ADI-29602 SAD5269_P02_G06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 386	6172	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29602 SAD5269_P02_G06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 386	6173	GTNKRAP	ADI-29602 SAD5269_P02_G06	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 386	6174	GGCACAACAAGCGGCTCCT	ADI-29602 SAD5269_P02_G06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 386	6175	ALWYSLWV	ADI-29602 SAD5269_P02_G06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 386	6176	GCGTGTGGTACAGTAAACCTTTGGGTG	ADI-29602 SAD5269_P02_G06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 387	6177	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCAGGGAAGGGCTGGAGTGGTCCGAAAGGAT TAGATCCAAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCCAGAGACGATTCC CAAGAGCACGCTGTATCTGCAAAATGAACAGCCTGAGAG CCGAGGACACGGGGTGTACTACTGCGTCAGGCACGGT AACTTCGGGAACAGTACGTATCCTGTTGCTCATTTGG GGCCAAGGAACCTGGTCAACCCGCTCCTCA	ADI-29603 SAD5268_P01_A09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 387	6178	EVQLLESGGGLVQPGGSLRLSCLCAASGFTFDYAMNWRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMNSLRAEDTAVYYCVRHGFNGNSVSWFAHWGQG TLTVSS	ADI-29603 SAD5268_P01_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 387	6179	FTFDYAMN	ADI-29603 SAD5268_P01_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 387	6180	TTCACCTTTGACACATATGCCATGAAT	ADI-29603 SAD5268_P01_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 387	6181	RIRSKYNNYATYYADSVKD	ADI-29603 SAD5268_P01_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 387	6182	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29603 SAD5268_P01_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 387	6183	VRHGNFGNSVSWFAH	ADI-29603 SAD5268_P01_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 387	6184	GTCAGGCACGGTAACTTCGGGAACAGTTACGTATCCTG GTTTGCTCAT	ADI-29603 SAD5268_P01_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 387	6185	CAGACTGTGGTGACCCAGGAGCCATCGTTTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTAGATCAAGCACT GGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAAACAAGCGGCTCCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGATGATGAATCTGATTACTGT GCGCTGTGTACAGTAACTTGGGTTCGGGGGAGG GACCAAGCTGACCGTCCTA	ADI-29603 SAD5268_P01_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 387	6186	QTVVTQEPSFSVSPGTVTLTCSRSTGAVTTSNYANWVQ QTPGOAPRGLIGGTNKRAPGVDFRFSGLLGDKAALITIG AQADDESYYCALWYNSLWVFGGGTKLTVL	ADI-29603 SAD5268_P01_A09	Light chain variable region ("LC") amino acid sequence
Ab 387	6187	RSSTGAVTTSNYAN	ADI-29603 SAD5268_P01_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 387	6188	AGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29603 SAD5268_P01_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 387	6189	GTNKRAP	ADI-29603	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 387	6190	GGCACAAACAAGCGGCTCCT	SAD5268_P01_A09	amino acid sequence
Ab 387	6191	ALWYSLWV	ADI-29603 SAD5268_P01_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 387	6192	GCGCTGGTACAGTAACCTTGGGTG	ADI-29603 SAD5268_P01_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 388	6193	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTC AACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGTCACCAATAACAGGGACACGTCGCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGTACTACTGCGCGAGAGATGCGTACG GGAGATATTTTACAGGGTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCCTCA	ADI-29607 SAD6444_P02_F05	Light chain variable region CDR L3 ("L3") nucleic acid sequence Heavy chain variable region ("HC") nucleic acid sequence
Ab 388	6194	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDAYGRYFRVWGQGLTVT SS	ADI-29607 SAD6444_P02_F05	Heavy chain variable region ("HC") amino acid sequence
Ab 388	6195	FNIKDYMH	ADI-29607 SAD6444_P02_F05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 388	6196	TTCAACATCAAGGACTACTATATGCAC	ADI-29607 SAD6444_P02_F05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 388	6197	WIDLENANTYDAKFKQ	ADI-29607 SAD6444_P02_F05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 388	6198	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29607 SAD6444_P02_F05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 388	6199	ARDAYGRYFRV	ADI-29607 SAD6444_P02_F05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 388	6200	GCGAGAGATGCGTACGGGAGATATTTTACAGGGTG	ADI-29607 SAD6444_P02_F05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 388	6201	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29607 SAD6444_P02_F05	Light chain variable region ("LC") nucleic acid sequence
Ab 388	6202	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-29607 SAD6444_P02_F05	Light chain variable region ("LC") amino acid sequence
Ab 388	6203	KSSQSLLNARTGKNYLA	ADI-29607 SAD6444_P02_F05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 388	6204	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29607 SAD6444_P02_F05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 388	6205	WASTRES	ADI-29607 SAD6444_P02_F05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 388	6206	TGGGCATCTACCCGGGAATCC	ADI-29607 SAD6444_P02_F05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 388	6207	KQYSRRT	ADI-29607 SAD6444_P02_F05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 388	6208	AAGCAATCTTATTCTCGGAGAACT	ADI-29607 SAD6444_P02_F05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 389	6209	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAGGGACACGTCGCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGCTGACTACTGCCCCGAGAGATGCTTACG GGAGATATTTTACGACGCTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCTCA	ADI-29608 SAD6444_P01_G02	Heavy chain variable region ("HC") nucleic acid sequence

Ab 389	6210	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDVAVYCPDAYGRYFYDVWGQGLTVTV SS	ADI-29608 SAD6444_P01_G02	Heavy chain variable region ("HC") amino acid sequence
Ab 389	6211	FNIKDYMH	ADI-29608 SAD6444_P01_G02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 389	6212	TTCAACATCAAGGACTACTATATGCAC	ADI-29608 SAD6444_P01_G02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 389	6213	WIDLENANTYDAKFKQG	ADI-29608 SAD6444_P01_G02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 389	6214	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29608 SAD6444_P01_G02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 389	6215	PRDAYGRYFYDV	ADI-29608 SAD6444_P01_G02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 389	6216	CCGAGAGATGCTTACGGGAGATATTTTACGACGTG	ADI-29608 SAD6444_P01_G02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 389	6217	GACATCGTGATGACCCAGTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACCGTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGACCAAGGTCGAGATCAAA	ADI-29608 SAD6444_P01_G02	Light chain variable region("LC") nucleic acid sequence
Ab 389	6218	DIVMTQSPDLSAVSLGERATINCKSSQSLINARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDFRFGSGGDTFTLT ISSLQAEDVAVYCKQSYRRITFGGGTKVEIK	ADI-29608 SAD6444_P01_G02	Light chain variable region ("LC") amino acid sequence
Ab 389	6219	KSSQSLINARTGKNYLA	ADI-29608 SAD6444_P01_G02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 389	6220	AAGTCCAGCCAGAGTCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29608 SAD6444_P01_G02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 389	6221	WASTRES	ADI-29608 SAD6444_P01_G02	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 389	6222	TGGGCATCTACCCGGGAATCC	ADI-29608 SAD6444_P01_G02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 389	6223	KQYSRRRT	ADI-29608 SAD6444_P01_G02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 389	6224	AAGCAATCTTATTCTCGGAGAACT	ADI-29608 SAD6444_P01_G02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 390	6225	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGCGC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTACTACTGCGCGGAGAGATGCGTACG GGAGATATTTTACGACGGGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCCTCA	ADI-29609 SAD6444_P02_C05	Heavy chain variable region ("HC") nucleic acid sequence
Ab 390	6226	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSLRSEDYAVVYCARDAYGRFYDVGWQGTLVT VSS	ADI-29609 SAD6444_P02_C05	Heavy chain variable region ("HC") amino acid sequence
Ab 390	6227	FNIKDYMH	ADI-29609 SAD6444_P02_C05	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 390	6228	TTCAACATCAAGGACTACTATATGCAC	ADI-29609 SAD6444_P02_C05	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 390	6229	WIDLENANTYDAKFAQG	ADI-29609 SAD6444_P02_C05	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 390	6230	TGGATCGACCTTGAANAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29609 SAD6444_P02_C05	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 390	6231	ARDAYGRFYFDG	ADI-29609 SAD6444_P02_C05	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 390	6232	GCGAGAGATGCGTACGGGAGATATTTTTACGACGGG	ADI-29609 SAD6444_P02_C05	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 390	6233	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29609 SAD6444_P02_C05	Light chain variable region ("LC") nucleic acid sequence
Ab 390	6234	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-29609 SAD6444_P02_C05	Light chain variable region ("LC") amino acid sequence
Ab 390	6235	KSSQSLLNARTGKNYLA	ADI-29609 SAD6444_P02_C05	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 390	6236	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29609 SAD6444_P02_C05	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 390	6237	WASTRES	ADI-29609 SAD6444_P02_C05	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 390	6238	TGGGCATCTACCCGGGAATCC	ADI-29609 SAD6444_P02_C05	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 390	6239	KQYSRRT	ADI-29609 SAD6444_P02_C05	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 390	6240	AAGCAATCTTATTCTCGGAGAACT	ADI-29609 SAD6444_P02_C05	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 391	6241	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAGGGACACGTCGCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGTGTACTACTGCGCGAGAGATCGTTACG GGCCTATTTTTACGACGCTGTGGGGCCAAAGGAACCCCTG GTCACCGTCTCTCA	ADI-29610 SAD6444_P02_D06	Heavy chain variable region ("HC") nucleic acid sequence

Ab 391	6242	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDTAVYYCARDRYGAYFYDVWGQGLTVT SS	ADI-29610 SAD6444_P02_D06	Heavy chain variable region ("HC") amino acid sequence
Ab 391	6243	FNIKDYMH	ADI-29610 SAD6444_P02_D06	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 391	6244	TTCAACATCAAGGACTACTATATGCAC	ADI-29610 SAD6444_P02_D06	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 391	6245	WIDLENANTYDAKFQG	ADI-29610 SAD6444_P02_D06	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 391	6246	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29610 SAD6444_P02_D06	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 391	6247	ARDRYGAYFYDV	ADI-29610 SAD6444_P02_D06	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 391	6248	GCGAGAGATCGTTACGGGGCTATTTTACGACGTG	ADI-29610 SAD6444_P02_D06	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 391	6249	GACATCGTGATGACCCAGTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACCGTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29610 SAD6444_P02_D06	Light chain variable region("LC") nucleic acid sequence
Ab 391	6250	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPLIYWASTRESGVPDFRFGSGSGLDFTLT ISSLQAEDVAVYYCKQSYRRITFGGGTKVEIK	ADI-29610 SAD6444_P02_D06	Light chain variable region ("LC") amino acid sequence
Ab 391	6251	KSSQSLLNARTGKNYLA	ADI-29610 SAD6444_P02_D06	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 391	6252	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29610 SAD6444_P02_D06	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 391	6253	WASTRES	ADI-29610 SAD6444_P02_D06	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 391	6254	TGGGCATCTACCCGGGAATCC	ADI-29610 SAD6444_P02_D06	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 391	6255	KQYSRRRT	ADI-29610 SAD6444_P02_D06	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 391	6256	AAGCAATCTTATTCTCGGAGAACT	ADI-29610 SAD6444_P02_D06	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 392	6257	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTACTACTGCGCGAGAGATCGGTACG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCCTCA	ADI-29611 SAD6444_P02_D04	Heavy chain variable region ("HC") nucleic acid sequence
Ab 392	6258	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFQGRVTITRDTAS TAYMELSLRSEDYAVVYCARDRYGRYFYDVWGQGLTIVT SS	ADI-29611 SAD6444_P02_D04	Heavy chain variable region ("HC") amino acid sequence
Ab 392	6259	FNIKDYMH	ADI-29611 SAD6444_P02_D04	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 392	6260	TTCAACATCAAGGACTACTATATGCAC	ADI-29611 SAD6444_P02_D04	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 392	6261	WIDLENANTYDAKFQG	ADI-29611 SAD6444_P02_D04	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 392	6262	TGGATCGACCTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29611 SAD6444_P02_D04	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 392	6263	ARDRYGRYFYDV	ADI-29611 SAD6444_P02_D04	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 392	6264	GCGAGAGATCGGTACGGGAGATATTTTTACGACGTG	ADI-29611 SAD6444_P02_D04	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 392	6265	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29611 SAD6444_P02_D04	Light chain variable region ("LC") nucleic acid sequence
Ab 392	6266	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-29611 SAD6444_P02_D04	Light chain variable region ("LC") amino acid sequence
Ab 392	6267	KSSQSLLNARTGKNYLA	ADI-29611 SAD6444_P02_D04	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 392	6268	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29611 SAD6444_P02_D04	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 392	6269	WASTRES	ADI-29611 SAD6444_P02_D04	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 392	6270	TGGGCATCTACCCGGGAATCC	ADI-29611 SAD6444_P02_D04	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 392	6271	KQYSRRT	ADI-29611 SAD6444_P02_D04	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 392	6272	AAGCAATCTTATTCTCGGAGAACT	ADI-29611 SAD6444_P02_D04	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 393	6273	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAGGGACACGTCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGTGTACTACTGCGCGAGAGATTCGTACG GGAGATATTTTACGACGCTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCTCA	ADI-29613 SAD6444_P01_C03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 393	6274	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDVAVYCCARDSYGRYFYDVVWGQGLTVV SS	ADI-29613 SAD6444_P01_C03	Heavy chain variable region ("HC") amino acid sequence
Ab 393	6275	FNIKDYMH	ADI-29613 SAD6444_P01_C03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 393	6276	TTCAACATCAAGGACTACTATATGCAC	ADI-29613 SAD6444_P01_C03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 393	6277	WIDLENANTYDAKFQG	ADI-29613 SAD6444_P01_C03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 393	6278	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29613 SAD6444_P01_C03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 393	6279	ARDSYGRYFYDV	ADI-29613 SAD6444_P01_C03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 393	6280	GCGAGAGATTCTACGGGAGATATTTTACGACGTG	ADI-29613 SAD6444_P01_C03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 393	6281	GACATCGTGATGACCCAGTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACCGTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29613 SAD6444_P01_C03	Light chain variable region ("LC") nucleic acid sequence
Ab 393	6282	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNVLA WYQQKPGQPPKLLIYWASTRESGVPDFRFGSGSDFTLT ISLQAEDVAVYCKQSYRRITFGGGTKVEIK	ADI-29613 SAD6444_P01_C03	Light chain variable region ("LC") amino acid sequence
Ab 393	6283	KSSQSLLNARTGKNVLA	ADI-29613 SAD6444_P01_C03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 393	6284	AAGTCCAGCCAGAGCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29613 SAD6444_P01_C03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 393	6285	WASTRES	ADI-29613 SAD6444_P01_C03	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 393	6286	TGGGCATCTACCCGGGAATCC	ADI-29613 SAD6444_P01_C03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 393	6287	KQYSRRRT	ADI-29613 SAD6444_P01_C03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 393	6288	AAGCAATCTTATTCTCGGAGAACT	ADI-29613 SAD6444_P01_C03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 394	6289	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACTGGGTGCG ACAGGCTCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGAGAGATGTGTACG GGAGATATCTTTACGACGTGTGGGGCCCAAGGAACCCCTG GTCACCCGTCTCCTCA	ADI-29614 SAD6444_P01_G03	Heavy chain variable region ("HC") nucleic acid sequence
Ab 394	6290	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSLRSEDYAVVYCARDVYGRLYDVWVWGQGLTVT SS	ADI-29614 SAD6444_P01_G03	Heavy chain variable region ("HC") amino acid sequence
Ab 394	6291	FNIKDYMH	ADI-29614 SAD6444_P01_G03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 394	6292	TTCAACATCAAGGACTACTATATGCAC	ADI-29614 SAD6444_P01_G03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 394	6293	WIDLENANTYDAKFAQG	ADI-29614 SAD6444_P01_G03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 394	6294	TGGATCGACCTTGAANAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29614 SAD6444_P01_G03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 394	6295	ARDVYGRLYDV	ADI-29614 SAD6444_P01_G03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 394	6296	GCGAGAGATGTGTACGGGAGATATCTTTACGACGTG	ADI-29614 SAD6444_P01_G03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 394	6297	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29614 SAD6444_P01_G03	Light chain variable region ("LC") nucleic acid sequence
Ab 394	6298	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFTLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-29614 SAD6444_P01_G03	Light chain variable region ("LC") amino acid sequence
Ab 394	6299	KSSQSLLNARTGKNYLA	ADI-29614 SAD6444_P01_G03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 394	6300	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29614 SAD6444_P01_G03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 394	6301	WASTRES	ADI-29614 SAD6444_P01_G03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 394	6302	TGGGCATCTACCCGGGAATCC	ADI-29614 SAD6444_P01_G03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 394	6303	KQYSRRT	ADI-29614 SAD6444_P01_G03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 394	6304	AAGCAATCTTATTCTCGGAGAACT	ADI-29614 SAD6444_P01_G03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 395	6305	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCAGGGACAGTCCGCC AGCACAGCCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGCGGTGACTACTGCGCGGAGAGATGTGTACA GGAGATATTTTACGACGCTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCTCA	ADI-29617 SAD6444_P01_E01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 395	6306	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTYDAKFKGRVTITRDTSAS TAYMELSSLRSEDVAVYCARDVYRRYFYDVVWGQGLTVV SS	ADI-29617 SAD6444_P01_E01	Heavy chain variable region ("HC") amino acid sequence
Ab 395	6307	FNIKDYMH	ADI-29617 SAD6444_P01_E01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 395	6308	TTCAACATCAAGGACTACTATATGCAC	ADI-29617 SAD6444_P01_E01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 395	6309	WIDLENANTYDAKFQG	ADI-29617 SAD6444_P01_E01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 395	6310	TGGATCGACCTTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29617 SAD6444_P01_E01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 395	6311	ARDVYRRYFYDV	ADI-29617 SAD6444_P01_E01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 395	6312	GCGAGAGATGTGTACAGGAGATATTTTACGACGTG	ADI-29617 SAD6444_P01_E01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 395	6313	GACATCGTGATGACCCAGTCCAGACTCCCTGGCTGTG TCTCTGGCGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACCGTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTACTGGGCATCTACCCGGGAATCCGGGTCC CTGACCGATTTCAGTGGCAGCGGGTCTGGACAGACTTC ACTCTCACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATCTCGGAGAACTTTCG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29617 SAD6444_P01_E01	Light chain variable region ("LC") nucleic acid sequence
Ab 395	6314	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDFRFGSGGDTFTLT ISSLQAEDVAVYCKQSYRRITFGGGTKVEIK	ADI-29617 SAD6444_P01_E01	Light chain variable region ("LC") amino acid sequence
Ab 395	6315	KSSQSLLNARTGKNYLA	ADI-29617 SAD6444_P01_E01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 395	6316	AAGTCCAGCCAGAGTCTTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29617 SAD6444_P01_E01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 395	6317	WASTRES	ADI-29617 SAD6444_P01_E01	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 395	6318	TGGGCATCTACCCGGGAATCC	ADI-29617 SAD6444_P01_E01	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 395	6319	KQYSRRRT	ADI-29617 SAD6444_P01_E01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 395	6320	AAGCAATCTTATTCTCGGAGAACT	ADI-29617 SAD6444_P01_E01	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 396	6321	CAGGTGCAGCTGGTGCAGTCTGGGGCTGAGGTGAAGA AGCTGGGGCTCAGTGAAGGTCTCCTGCAAGGCTTCT GGATTCAACATCAAGGACTACTATATGCACCTGGGTGCG ACAGGCTCCTGGACAAAAGGCTTGAGTGGATGGATGGA TCGACCTTGAAAATGCTAACACAATCTATGACGCTAAGT TTCAGGGCAGGGTCAACATAACCCAGGGACACGTCGCGC AGCACAGCTACATGGAGCTGAGCAGCCTGAGATCTGA AGACACGGGGTGTACTACTGCGTGAGAGATCTTCGGG GGAGATATTTTACGACGTGTGGGGCCCAAGGAACCCCTG GTCACCGTCTCCTCA	ADI-29618 SAD6444_P01_A03	Heavy chain variable region ("HC") nucleic acid sequence
Ab 396	6322	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFKQGRVITTRDTSAS TAYMELSLRSEDYVYCVRDRLRGRYFYDVWVWGGTIVT SS	ADI-29618 SAD6444_P01_A03	Heavy chain variable region ("HC") amino acid sequence
Ab 396	6323	FNIKDYMH	ADI-29618 SAD6444_P01_A03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 396	6324	TTCAACATCAAGGACTACTATATGCAC	ADI-29618 SAD6444_P01_A03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 396	6325	WIDLENANTYDAKFAQG	ADI-29618 SAD6444_P01_A03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 396	6326	TGGATCGACCTGAAAATGCTAACACAATCTATGACGCT AAGTTTCAGGGC	ADI-29618 SAD6444_P01_A03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 396	6327	VRDLRGRYFYDV	ADI-29618 SAD6444_P01_A03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 396	6328	GTGAGAGATCTTCGGGGGAGATATTTTTACGACGCTG	ADI-29618 SAD6444_P01_A03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 396	6329	GACATCGTGATGACCCAGTCTCCAGACTCCCTGGCTGTG TCTCTGGCGGAGAGGGCCACCATCAACTGCAAGTCCAG CCAGAGCTTTTAAACGCTAGAACCGGAAAGAACTACTT AGCTTGGTACCAGCAGAAACCAGGACAGCCTCCTAAGC TGCTCATTTACTGGGCATCTACCCGGGAATCCGGGGTCC CTGACCGATTCACTGGCAGCGGGTCTGGACAGACTTC ACTCTACTATCAGTAGCCTGCAGGCTGAAGATGTGGCA GTTTATTACTGTAAAGCAATCTTATTCTCGGAGAACTTTG GCGGAGGGACCAAGGTCGAGATCAAA	ADI-29618 SAD6444_P01_A03	Light chain variable region ("LC") nucleic acid sequence
Ab 396	6330	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGDFLT ISSLQAEDVAVYYCKQSYRRRTFGGGTKVEIK	ADI-29618 SAD6444_P01_A03	Light chain variable region ("LC") amino acid sequence
Ab 396	6331	KSSQSLLNARTGKNYLA	ADI-29618 SAD6444_P01_A03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 396	6332	AAGTCCAGCCAGAGTCTTTAAACGCTAGAACCGGAAA GAACTACTTAGCT	ADI-29618 SAD6444_P01_A03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 396	6333	WASTRES	ADI-29618 SAD6444_P01_A03	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 396	6334	TGGGCATCTACCCGGGAATCC	ADI-29618 SAD6444_P01_A03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 396	6335	KQYSRRT	ADI-29618 SAD6444_P01_A03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 396	6336	AAGCAATCTTATTCTCGGAGAAT	ADI-29618 SAD6444_P01_A03	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 397	6337	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAATGGGTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGAAAGGAT TAGATCCAAAGTATAACAAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATTC CAAGAGCAAGCTGTATCTGCAAAATGGAAAGCCTGAGAG CCGAGGACACGGCGGTGTACTACTGCGTCAGGCACGGT AACTTCGGGGTGGTTACGTATCCTGTTGCTCATTGG GGCCAAGGAACCTGGTCCACCCGTCCTCTCA	ADI-29716 SAD6619_P01_B03	Heavy chain variable region ("HC") nucleic acid sequence

Ab 397	6338	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKS LYLQMESLRAEDTAVYYCVRHGNFGGGYVSWFAHWGQG TLTVSS	ADI-29716 SAD6619_P01_B03	Heavy chain variable region ("HC") amino acid sequence
Ab 397	6339	FTFDYAMN	ADI-29716 SAD6619_P01_B03	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 397	6340	TTCACCTTTGACACATATGCCATGAAT	ADI-29716 SAD6619_P01_B03	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 397	6341	RIRSKYNNYATYYADSVKD	ADI-29716 SAD6619_P01_B03	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 397	6342	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29716 SAD6619_P01_B03	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 397	6343	VRHGNFGGGYVSWFAH	ADI-29716 SAD6619_P01_B03	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 397	6344	GTCAGGCACGGTAACTTCGGGGGTGTTACGTATCCTG GTTTGCTCAT	ADI-29716 SAD6619_P01_B03	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 397	6345	CAGACTGTGGTGACCCAGGAGCCATCGCTCAGTGTCC CCTGGAGGGACAGTCACACTCCTTGTGGATCAAGCACT GGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGGTACAGTAAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-29716 SAD6619_P01_B03	Light chain variable region ("LC") nucleic acid sequence
Ab 397	6346	QTVVTQEPSLSVSPGGTVTLTCSSTGAVTTSNYANWVQ QTPGOAPRGLIGGTDKRAPGVDRFSGSLGDKAALITIG AQAEDEADYYCALWYSNHWVFGGKLTIVL	ADI-29716 SAD6619_P01_B03	Light chain variable region ("LC") amino acid sequence
Ab 397	6347	GSSTGAVTTSNYAN	ADI-29716 SAD6619_P01_B03	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 397	6348	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29716 SAD6619_P01_B03	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 397	6349	GTDKRAP	ADI-29716	Light chain variable region CDR L2 ("L2") amino acid sequence

Ab 397	6350	GGCACAGACAAGCGGCTCCT	SAD6619_P01_B03	amino acid sequence
Ab 397	6351	ALWYSNHHWV	ADI-29716 SAD6619_P01_B03	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 397	6352	GCGCTGTGTACAGTAACCAATTGGGTG	ADI-29716 SAD6619_P01_B03	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 398	6353	GAGGTGCAGCTGTGGGGTCTGGGGGAGGCTTGGTAC AGCTGGGGTCCCTGAGACTCTCCTGTGCGCCTCTG GATTCACCTTTGACACATATGCCATGAA TTGGGTTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTTC CAAGAGCACGCTGTATCTGCAAAATGAAAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGTCAGGCACGGT AACTTCGGGAACTCGTACGTTTCTGGTTGCTCATTGG GGCCAAGGAACCTGGTACCCTCTCCTCA	ADI-29717 SAD6619_P01_B02	Light chain variable region ("LC") nucleic acid sequence
Ab 398	6354	EVQLLGGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGFNGNSVSWFAHWGQG TLVTSS	ADI-29717 SAD6619_P01_B02	Heavy chain variable region ("HC") amino acid sequence
Ab 398	6355	FTFDYAMIN	ADI-29717 SAD6619_P01_B02	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 398	6356	TTCACCTTTGACACATATGCCATGAAT	ADI-29717 SAD6619_P01_B02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 398	6357	RIRSKYNNYATYYADSVKVD	ADI-29717 SAD6619_P01_B02	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 398	6358	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29717 SAD6619_P01_B02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 398	6359	VRHGNFGNSVSWFAH	ADI-29717 SAD6619_P01_B02	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 398	6360	GTCAGGCACGGTAACTTCGGGAACCTCGTACGTTTCTCGG TTTGCTCAT	ADI-29717 SAD6619_P01_B02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 398	6361	CAGACTGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGGATGAAGCTGATTAATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-29717 SAD6619_P01_B02	Light chain variable region ("LC") nucleic acid sequence
Ab 398	6362	QTVVTQEPSLSVSPGGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-29717 SAD6619_P01_B02	Light chain variable region ("LC") amino acid sequence
Ab 398	6363	GSSTGAVTTSNYAN	ADI-29717 SAD6619_P01_B02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 398	6364	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29717 SAD6619_P01_B02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 398	6365	GTDKRAP	ADI-29717 SAD6619_P01_B02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 398	6366	GGCACAGACAAGCGCGCTCCT	ADI-29717 SAD6619_P01_B02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 398	6367	ALWYSNHWV	ADI-29717 SAD6619_P01_B02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 398	6368	GCGCTGTGGTACAGTAACCAATTGGGTG	ADI-29717 SAD6619_P01_B02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 399	6369	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGAAAGGAT TAGATCCAAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTCAACATCTCCAGAGACGATT CAAGAGCACGCTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGTAATACTGCGTACGACCGGT AACTTCGGTGGGGTTACGTAGCCTGGTTGCTCATTGG GGCCAAGGAACCTGGTCAACCGTCTCCTCA	ADI-29718 SAD6619_P04_G09	Heavy chain variable region ("HC") nucleic acid sequence

Ab 399	6370	EVQLLESGGGLVQPGGSLRLSCLCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYVCVRHGNFGGYVAWFAHWGQ GTLVTVSS	ADI-29718 SAD6619_P04_G09	Heavy chain variable region ("HC") amino acid sequence
Ab 399	6371	FTFDYAMN	ADI-29718 SAD6619_P04_G09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 399	6372	TTCACCTTTGACACATATGCCATGAAT	ADI-29718 SAD6619_P04_G09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 399	6373	RIRSKYNNYATYYADSVKD	ADI-29718 SAD6619_P04_G09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 399	6374	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29718 SAD6619_P04_G09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 399	6375	VRHGNFGGYVAWFAH	ADI-29718 SAD6619_P04_G09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 399	6376	GTCAGGCACGGTAACTTCGGTGGGGTTACGTAGCCTG GTTTGCTCAT	ADI-29718 SAD6619_P04_G09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 399	6377	CAGACTGTGGTGACCCAGGAGCCATCGCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGGCGGACTCATCGGCG GCACAGACAAGCGCGCTCCTGGGTCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTACTGT GCGCTGTGTACAGTAAACCAITGGGTTCGGCGGAGG GACCAAGCTGACCCGTCCTA	ADI-29718 SAD6619_P04_G09	Light chain variable region ("LC") nucleic acid sequence
Ab 399	6378	QTVVTQEPSLSVSPGGTVTLTCSSTGAVTTSNYANWVQ QTPGOAPRGLIGGTDKRAPGVDRFSGSLGDKAALITG AQAEDEADYYCALWYSNHWVFGGKLTIVL	ADI-29718 SAD6619_P04_G09	Light chain variable region ("LC") amino acid sequence
Ab 399	6379	GSSTGAVTTSNYAN	ADI-29718 SAD6619_P04_G09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 399	6380	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29718 SAD6619_P04_G09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 399	6381	GTDKRAP	ADI-29718	Light chain variable region CDR L2 ("L2") amino acid sequence

					SAD6619_P04_G09	amino acid sequence
Ab 399	6382	GGCACAGACAAGCGGCTCCT			ADI-29718 SAD6619_P04_G09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 399	6383	ALWYSNHHWV			ADI-29718 SAD6619_P04_G09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 399	6384	GCGCTGTGTACAGTAACCAATGGGTG			ADI-29718 SAD6619_P04_G09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 400	6385	GAGGTGCAGCTGTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATTCACCTTTGACACATATGCCATGAA TTGGGTTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTTTAAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTTC CAAGAGCACGCTGTATCTGCAAAATGAAAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGTCAGGCACGGT AACTTCCAGGGTGGTACGTATCCTGTTGCTCATTGG GGCCAAGGAACCTGGTACCCTCTCTCA			ADI-29719 SAD6619_P04_A09	Heavy chain variable region ("HC") nucleic acid sequence
Ab 400	6386	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKFNNTYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYVCVRHGNFQGGVSWFAHWGQ GTLVTVSS			ADI-29719 SAD6619_P04_A09	Heavy chain variable region ("HC") amino acid sequence
Ab 400	6387	FTFDYAMIN			ADI-29719 SAD6619_P04_A09	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 400	6388	TTCACCTTTGACACATATGCCATGAAT			ADI-29719 SAD6619_P04_A09	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 400	6389	RIRSKFNNTYADSVKVD			ADI-29719 SAD6619_P04_A09	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 400	6390	AGGATTAGATCCAAGTTTAAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT			ADI-29719 SAD6619_P04_A09	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 400	6391	VRHGNFQGGVSWFAH			ADI-29719 SAD6619_P04_A09	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 400	6392	GTCAGGCACGGTAACTTCCAGGGTGTACGTATCCTG GTTTGCTCAT			ADI-29719 SAD6619_P04_A09	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 400	6393	CAGACTGGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGACAAAGCTGCCCTCACCATCA CGGGGCCCGCAGAGGATGAAGCTGATTAATTAATGT GCGCTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-29719 SAD6619_P04_A09	Light chain variable region ("LC") nucleic acid sequence
Ab 400	6394	QTVVTQEPSLSVSPGGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-29719 SAD6619_P04_A09	Light chain variable region ("LC") amino acid sequence
Ab 400	6395	GSSTGAVTTSNYAN	ADI-29719 SAD6619_P04_A09	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 400	6396	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29719 SAD6619_P04_A09	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 400	6397	GTDKRAP	ADI-29719 SAD6619_P04_A09	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 400	6398	GGCACAGACAAGCGCGCTCCT	ADI-29719 SAD6619_P04_A09	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 400	6399	ALWYSNHWV	ADI-29719 SAD6619_P04_A09	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 400	6400	GCGCTGTGGTACAGTAACCAATTGGGTG	ADI-29719 SAD6619_P04_A09	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 401	6401	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGAAAGGAT TAGATCCAAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTCC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGTAATACTGCGTCAGGCACGGT AACGTGGGGGTGGTTACGTATCCTGTTGCTCATTG GGCCAAAGGAACCCCTGGTCAACCGTCTCCTCA	ADI-29720 SAD6619_P02_F12	Heavy chain variable region ("HC") nucleic acid sequence

Ab 401	6402	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNVGGVYVSWFAHWGQ GTLTVSS	ADI-29720 SAD6619_P02_F12	Heavy chain variable region ("HC") amino acid sequence
Ab 401	6403	FTFDYAMN	ADI-29720 SAD6619_P02_F12	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 401	6404	TTCACCTTTGACACATATGCCATGAAT	ADI-29720 SAD6619_P02_F12	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 401	6405	RIRSKYNNYATYYADSVKD	ADI-29720 SAD6619_P02_F12	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 401	6406	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29720 SAD6619_P02_F12	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 401	6407	VRHGNVGGGYVSWFAH	ADI-29720 SAD6619_P02_F12	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 401	6408	GTCAGGCACGGTAACGTGGGGGTGGTTACGTATCCTG GTTTGCTCAT	ADI-29720 SAD6619_P02_F12	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 401	6409	CAGACTGTGGTGACCCAGGAGCCATCGCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGGTACAGTAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-29720 SAD6619_P02_F12	Light chain variable region ("LC") nucleic acid sequence
Ab 401	6410	QTVVTQEPSLSVSPGGTVTLTCGSSTGAVTTSNYANWVQ QTPGOAPRGLIGGTDKRAPGVDRFSGSLIGDKAALITIG AQAEDEADYYCALWYSNHWVFGGKLTIVL	ADI-29720 SAD6619_P02_F12	Light chain variable region ("LC") amino acid sequence
Ab 401	6411	GSSTGAVTTSNYAN	ADI-29720 SAD6619_P02_F12	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 401	6412	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29720 SAD6619_P02_F12	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 401	6413	GTDKRAP	ADI-29720	Light chain variable region CDR L2 ("L2") amino acid sequence

				SAD6619_P02_F12	amino acid sequence
Ab 401	6414	GGCACAGACAAGCGGCTCCT		ADI-29720	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 401	6415	ALWYSNHHWV		SAD6619_P02_F12	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 401	6416	GCGCTGTGTACAGTAACCAATGGGTG		ADI-29720	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 402	6417	GAGGTGCAGCTGTGGAGTCTGGGGGAGGCTTGGTAC AGCTGGGGTCCCTGAGACTCTCCTGTGCGCCTCTG GATTCACCTTTGACACATATGCCATGAA TTGGGTTGCGCC AGGCTCCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTTC CAAGAGCACGCTGTATCTGCAAAATGAAAAGCCTGAGAG CCGAGGACACGGCGGTACTACTCGTCAGGCACCGAT AACTTCGGGGCTGGTACGTATCCTGGTTTGCTCATTGG GGCCAAGGAACCTGGTCAACCTCTCTCTCA		ADI-29721 SAD6619_P01_A02	Heavy chain variable region ("HC") nucleic acid sequence
Ab 402	6418	EVQLLEGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHRDNFNGAGYVSWFAHWGQG TLVTSS		ADI-29721 SAD6619_P01_A02	Heavy chain variable region ("HC") amino acid sequence
Ab 402	6419	FTFDYAMN		ADI-29721	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 402	6420	TTCACCTTTGACACATATGCCATGAAT		SAD6619_P01_A02	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 402	6421	RIRSKYNNYATYYADSVKVD		ADI-29721	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 402	6422	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		SAD6619_P01_A02	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 402	6423	VRHDNFGAGYVSWFAH		ADI-29721	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 402	6424	GTCAGGCACGATAACTTCGGGGCTGGTTACGTATCCTG GTTTGCTCAT		SAD6619_P01_A02	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 402	6425	CAGACTGGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTAATCTGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-29721 SAD6619_P01_A02	Light chain variable region ("LC") nucleic acid sequence
Ab 402	6426	QTVVTQEPSLSVSPGGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-29721 SAD6619_P01_A02	Light chain variable region ("LC") amino acid sequence
Ab 402	6427	GSSTGAVTTSNYAN	ADI-29721 SAD6619_P01_A02	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 402	6428	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29721 SAD6619_P01_A02	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 402	6429	GTDKRAP	ADI-29721 SAD6619_P01_A02	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 402	6430	GGCACAGACAAGCGCGCTCCT	ADI-29721 SAD6619_P01_A02	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 402	6431	ALWYSNHWV	ADI-29721 SAD6619_P01_A02	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 402	6432	GCGCTGTGGTACAGTAACCAATTGGGTG	ADI-29721 SAD6619_P01_A02	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 403	6433	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTGACACATATGCCATGAATGGGTTCGCC AGGCTCAGGGAAGGGCTGGAGTGGGTCGCAAGGAT TAGATCCAAAGTATAACAATACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTC CAAGAGCACGCTGTATCTGCAAAATGGAAAGCCTGAGAG CCGAGGACACGGCGGTGTAATACTACTGCGTCAGGCACGGT AACTTCGGGGTGGTACGTATCCTGGTTGCTTCTTGG GGCCAAGGAACCCCTGGTCAACCCGCTCCTCA	ADI-29722 SAD6619_P01_F01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 403	6434	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKGLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGNFVGVSWFASWGQG TLTVSS	ADI-29722 SAD6619_P01_F01	Heavy chain variable region ("HC") amino acid sequence
Ab 403	6435	FTFDYAMN	ADI-29722 SAD6619_P01_F01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 403	6436	TTCACCTTTGACACATATGCCATGAAT	ADI-29722 SAD6619_P01_F01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 403	6437	RIRSKYNNYATYYADSVKD	ADI-29722 SAD6619_P01_F01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 403	6438	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29722 SAD6619_P01_F01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 403	6439	VRHGNFVGVSWFAS	ADI-29722 SAD6619_P01_F01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 403	6440	GTCAGGCACGGTAACTTCGGGGTTGGTTACGTATCCTG GTTTGCCTCT	ADI-29722 SAD6619_P01_F01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 403	6441	CAGACTGTGGTGACCCAGGAGCCATCGCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGGTCCCTGATCGCTTCT CTGGCTCCCTGCTTGGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGTGTGGTACAGTAAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCGTCCTA	ADI-29722 SAD6619_P01_F01	Light chain variable region ("LC") nucleic acid sequence
Ab 403	6442	QTVVTQEPSLSVSPGGTVTLTCSSTGAVTTSNYANWVQ QTPGOAPRGLIGGTDKRAPGVDRFSGSLGDKAALITIG AQAEDEADYYCALWYSNHWVFGGKLTIVL	ADI-29722 SAD6619_P01_F01	Light chain variable region ("LC") amino acid sequence
Ab 403	6443	GSSTGAVTTSNYAN	ADI-29722 SAD6619_P01_F01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 403	6444	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29722 SAD6619_P01_F01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 403	6445	GTDKRAP	ADI-29722	Light chain variable region CDR L2 ("L2") amino acid sequence

				SAD6619_P01_F01	amino acid sequence
Ab 403	6446	GGCACAGACAAGCGGCTCCT		ADI-29722	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 403	6447	ALWYSNHHWV		SAD6619_P01_F01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 403	6448	GCGCTGTGTACAGTAACCAATGGGTG		ADI-29722	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 404	6449	GAGGTGCAGCTGTGGAGTCTGGGGAGGCTTGGTAC AGCTGGGGTCCCTGAGACTCTCCTGTGCGCCTCTG GATTCACCTTTGACACATATGCCATGAA TTGGGTTGCGCC AGGCTCCAGGGAAGGGTTGGAGTGGGTCGCAAGGAT TAGATCCAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTCTC CAAGAGCACGCTGTATCTGCAAAATGAAAAGCCTGAGAG CCGAGGACACGGCGGTACTACTGCGTCAGGCACGGT AACTTCGGGAACTATGCTGTATCTGTTGCTCATTTGG GGCCAAGGAACCTGGTCAACCTCTCTCTCA		ADI-29723 SAD6619_P04_G08	Heavy chain variable region ("HC") nucleic acid sequence
Ab 404	6450	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWWVRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGFNGFNYSVWFAHWGQG TLVTSS		ADI-29723 SAD6619_P04_G08	Heavy chain variable region ("HC") amino acid sequence
Ab 404	6451	FTFDYAMN		ADI-29723	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 404	6452	TTCACCTTTGACACATATGCCATGAAT		ADI-29723	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 404	6453	RIRSKYNNYATYYADSVKVD		ADI-29723	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 404	6454	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT		ADI-29723 SAD6619_P04_G08	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 404	6455	VRHGNFNGYVSWFAH		ADI-29723	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 404	6456	GTCAGGCACGGTAACTTCGGGAACCTATGCTGTATCCTG GTTTGCTCAT		ADI-29723 SAD6619_P04_G08	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence

Ab 404	6457	CAGACTGGTGGTGACCCAGGAGCCATCGCTCTCAGTGTCC CCTGGAGGGACAGTCACTCACTACTTGTGGATCAAGCACT GGCGCAGTCACTACTAGTAACACTACGCCAACTGGGTCCA GCAGACCCAGCCAGGCTCCGCGGACTCATCGGCG GCACAGACAAGCGGCTCTGGGGTCCCTGATCGCTTCT CTGGTCCCTGCTGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGAGAGGATGAAGCTGATTAATTAATGT GCGTGTGTACAGTAACCAATTGGGTGTTCCGGCGGAGG GACCAAGCTGACCGTCTCA	ADI-29723 SAD6619_P04_G08	Light chain variable region ("LC") nucleic acid sequence
Ab 404	6458	QTVVTQEPSLSVSPGGTVLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTG AQAEDEADYYCALWYSNHWVFGGGTKLTVL	ADI-29723 SAD6619_P04_G08	Light chain variable region ("LC") amino acid sequence
Ab 404	6459	GSSTGAVTTSNYAN	ADI-29723 SAD6619_P04_G08	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 404	6460	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29723 SAD6619_P04_G08	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 404	6461	GTDKRAP	ADI-29723 SAD6619_P04_G08	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 404	6462	GGCACAGACAAGCGCGCTCCT	ADI-29723 SAD6619_P04_G08	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 404	6463	ALWYSNHWV	ADI-29723 SAD6619_P04_G08	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 404	6464	GCGTGTGGTACAGTAACCAATTGGGTG	ADI-29723 SAD6619_P04_G08	Light chain variable region CDR L3 ("L3") nucleic acid sequence
Ab 405	6465	GAGGTGCAGCTGTTGGAGTCTGGGGAGGCTTGGTAC AGCCTGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTG GATCACCTTTGACACATATGCCATGAATGGGTCCGCC AGGCTCCAGGGAAGGGCTGGAGTGGTCCGAAAGGAT TAGATCCAAAGTATAACAATTACGCTACATACTACGCAGA CTCCGTGAAGGATCGGTTACCATCTCCAGAGACGATTCC CAAGAGCACCGTGTATCTGCAAAATGGAAGCCTGAGAG CCGAGGACACGGCGGTGTAATACTGCGTCAGGCACGGT AGCTTCGGGAACCAATATTGATCTCTGGTTGCTCATTGG GGCCAAGGAACCTGGTCAACCCGCTCCCTCA	ADI-29724 SAD6619_P03_H01	Heavy chain variable region ("HC") nucleic acid sequence

Ab 405	6466	EVQLLESGGGLVQPGGSLRLSCAASGFTFDYAMNWRQ APGKLEWVARIRSKYNNYATYYADSVKDRFTISRDDSKST LYLQMESLRAEDTAVYYCVRHGSFGNHIVSWFAHWGQG TLTVSS	ADI-29724 SAD6619_P03_H01	Heavy chain variable region ("HC") amino acid sequence
Ab 405	6467	FTFDYAMN	ADI-29724 SAD6619_P03_H01	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 405	6468	TTCACCTTTGACACATATGCCATGAAT	ADI-29724 SAD6619_P03_H01	Heavy chain variable region CDR H1 ("H1") nucleic acid sequence
Ab 405	6469	RIRSKYNNYATYYADSVKD	ADI-29724 SAD6619_P03_H01	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 405	6470	AGGATTAGATCCAAGTATAACAATTACGCTACATACTAC GCAGACTCCGTGAAGGAT	ADI-29724 SAD6619_P03_H01	Heavy chain variable region CDR H2 ("H2") nucleic acid sequence
Ab 405	6471	VRHGSFGNHIVSWFAH	ADI-29724 SAD6619_P03_H01	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 405	6472	GTCAGGCACGGTAGCTTCGGGAACCATATTGTATCCTG GTTTGCTCAT	ADI-29724 SAD6619_P03_H01	Heavy chain variable region CDR H3 ("H3") nucleic acid sequence
Ab 405	6473	CAGACTGTGGTGACCCAGGAGCCATCGCTCAGTGTCC CCTGGAGGGACAGTCACACTCACTTGTGGATCAAGCACT GGCGAGTCACTACTAGTAACTACGCCAACTGGGTCCA GCAGACCCAGGCCAGGCTCCGGCGGACTCATCGGCG GCACAGACAAGCGGCTCCTGGGTCCTGATCGCTTCT CTGGCTCCCTGCTTGGGGACAAAGCTGCCCTCACCATCA CGGGGCCAGGCAGAGGATGAAGCTGATTATTACTGT GCGCTGTGTACAGTAAACCAATTGGGTTCGGCGGAGG GACCAAGCTGACCCGTCCTA	ADI-29724 SAD6619_P03_H01	Light chain variable region ("LC") nucleic acid sequence
Ab 405	6474	QTVVTQEPSLSVSPGGTVTLTCSSTGAVTTSNYANWVQ QTPGOAPRGLIGGTDKRAPGVDRFSGSLGDKAALITIG AQAEDEADYYCALWYSNHVWVFGGKLTIVL	ADI-29724 SAD6619_P03_H01	Light chain variable region ("LC") amino acid sequence
Ab 405	6475	GSSTGAVTTSNYAN	ADI-29724 SAD6619_P03_H01	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 405	6476	GGATCAAGCACTGGCGCAGTCACTACTAGTAACTACGCC AAC	ADI-29724 SAD6619_P03_H01	Light chain variable region CDR L1 ("L1") nucleic acid sequence
Ab 405	6477	GTDKRAP	ADI-29724	Light chain variable region CDR L2 ("L2") amino acid sequence

			SAD6619_P03_H01	amino acid sequence
Ab 405	6478	GGCAGACAAAGCGGCTCCT	ADI-29724	Light chain variable region CDR L2 ("L2") nucleic acid sequence
Ab 405	6479	ALWYSNHHWV	SAD6619_P03_H01	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 405	6480	GCGCTGTGTACAGTAACCAITGGGTG	ADI-29724	Light chain variable region CDR L3 ("L3") nucleic acid sequence
			SAD6619_P03_H01	

Table 3. Antibody sequences

Ab 406	6481	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTIIDAKFKQGRVTITRDTAS TAYMIELSSLRSEDTAVYYCARDAYGRFYDVMWGQGLTVTV SS	ADI-32238	Heavy chain variable region ("HC") amino acid sequence
Ab 406	6482	FNIKDYMH	ADI-32238	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 406	6483	WIDLENANTIIDAKFQG	ADI-32238	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 406	6484	ARDAYGRFYDVM	ADI-32238	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 406	6485	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCKQSYRRTFGGGTKVEIK	ADI-32238	Light chain variable region ("LC") amino acid sequence
Ab 406	6486	KSSQSLLNARTGKNYLA	ADI-32238	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 406	6487	WASTRES	ADI-32238	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 406	6488	KQSYRRT	ADI-32238	Light chain variable region CDR L3 ("L3") amino acid sequence

Ab 407	6489	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFGGRVTITRDTSAS TAYMELSSLRSEDVAVYCARDAYGRYFYDVWGQGLTVV SS	ADI-32241	Heavy chain variable region ("HC") amino acid sequence
Ab 407	6490	FNIKDYMH	ADI-32241	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 407	6491	WIDLENANTYDAKFAQ	ADI-32241	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 407	6492	ARDAYGRYFYDV	ADI-32241	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 407	6493	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLT ISSLQAEDVAVYCKQSYRRITFGGGTKVEIK	ADI-32241	Light chain variable region ("LC") amino acid sequence
Ab 407	6494	KSSQSLLNARTGKNYLA	ADI-32241	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 407	6495	WASTRES	ADI-32241	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 407	6496	KQSYRRIT	ADI-32241	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 408	6497	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTYDAKFGGRVTITRDTSAS TAYMELSSLRSEDVAVYCARDAYGRYFYDVWGQGLTVV SS	ADI-32244	Heavy chain variable region ("HC") amino acid sequence
Ab 408	6498	FNIKDYMH	ADI-32244	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 408	6499	WIDLENANTYDAKFAQ	ADI-32244	Heavy chain variable region CDR H2 ("H2") amino acid sequence

Ab 408	6500	ARDAYGRYFYDV		ADI-32244	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 408	6501	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCKQSYRRTFGGGTKVEIK		ADI-32244	Light chain variable region ("LC") amino acid sequence
Ab 408	6502	KSSQSLLNARTGKNYLA		ADI-32244	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 408	6503	WASTRES		ADI-32244	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 408	6504	KQSYRRT		ADI-32244	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 409	6505	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTIYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGGGTLVTV SS		ADI-32247	Heavy chain variable region ("HC") amino acid sequence
Ab 409	6506	FNIKDYYMH		ADI-32247	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 409	6507	WIDLENANTIYDAKFKQ		ADI-32247	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 409	6508	ARDAYGRYFYDV		ADI-32247	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 409	6509	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCKQSYRRTFGGGTKVEIK		ADI-32247	Light chain variable region ("LC") amino acid sequence
Ab 409	6510	KSSQSLLNARTGKNYLA		ADI-32247	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 409	6511	WASTRES		ADI-32247	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 409	6512	KQSYRRT		ADI-32247	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 410	6513	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHVWR		ADI-32250	Heavy chain variable region ("HC") amino acid sequence

			QAPGQRLEWMGWIDLENANTVYDAKFQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLTIVT VSS			sequence
Ab 410	6514	FNIKDYYMH		ADI-32250	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 410	6515	WIDLENANTVYDAKFQG		ADI-32250	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 410	6516	ARDAYGRYFYDV		ADI-32250	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 410	6517	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLT ISLQAEDVAVYYCKQSYFRRTFGGGTKVEIK		ADI-32250	Light chain variable region ("LC") amino acid sequence	
Ab 410	6518	KSSQSLLNARTGKNYLA		ADI-32250	Light chain variable region CDR L1 ("L1") amino acid sequence	
Ab 410	6519	WASTRES		ADI-32250	Light chain variable region CDR L2 ("L2") amino acid sequence	
Ab 410	6520	KQSYFRRT		ADI-32250	Light chain variable region CDR L3 ("L3") amino acid sequence	
Ab 411	6521	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHWVR QAPGQRLEWMGWIDLENANTVYDAKFQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLTIVT VSS		ADI-32253	Heavy chain variable region ("HC") amino acid sequence	
Ab 411	6522	FNIKDYYMH		ADI-32253	Heavy chain variable region CDR H1 ("H1") amino acid sequence	
Ab 411	6523	WIDLENANTVYDAKFQG		ADI-32253	Heavy chain variable region CDR H2 ("H2") amino acid sequence	
Ab 411	6524	ARDAYGRYFYDV		ADI-32253	Heavy chain variable region CDR H3 ("H3") amino acid sequence	
Ab 411	6525	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSDFTLT		ADI-32253	Light chain variable region ("LC") amino acid sequence	

Ab 411	6526	ISSLQAEDVAVYYCKQSYFRRTFGGGTKVEIK	ADI-32253	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 411	6527	KSSQLLNARTGKNYLA	ADI-32253	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 411	6528	WASTRES	ADI-32253	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 412	6529	KQSYFRRT	ADI-32256	Heavy chain variable region ("HC") amino acid sequence
Ab 412	6530	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGIDLENANTVYDAKFQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLTIVT VSS	ADI-32256	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 412	6531	FNIKDYMH	ADI-32256	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 412	6532	WIDLENANTVYDAKFOG	ADI-32256	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 412	6533	ARDAYGRYFDV	ADI-32256	Light chain variable region ("LC") amino acid sequence
Ab 412	6534	DIVMTQSPDSLAVSLGERATINCKSSQNLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCKQSYFRRTFGGGTKVEIK	ADI-32256	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 412	6535	KSSQLLNARTGKNYLA	ADI-32256	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 412	6536	WASTRES	ADI-32256	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 412	6537	KQSYFRRT	ADI-32259	Heavy chain variable region ("HC") amino acid sequence
Ab 413	6537	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGIDLENANTVYDAKFQGRVTITRDTSA AYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLTIVS S	ADI-32259	Heavy chain variable region ("HC") amino acid sequence

Ab 413	6538	FNIKDYYMH		ADI-32259	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 413	6539	WIDLENANTVYDAKFQG		ADI-32259	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 413	6540	ARDAYGRYFYDV		ADI-32259	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 413	6541	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISLQAEDVAVYYCKQSYRRRTFGGGTKVEIK		ADI-32259	Light chain variable region ("LC") amino acid sequence
Ab 413	6542	KSSQSLLNARTGKNYLA		ADI-32259	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 413	6543	WASTRES		ADI-32259	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 413	6544	KQSYRRRT		ADI-32259	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 414	6545	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHHWVR QAPGQRLEWIGWIDLENANTVYDAKFQGRVTITRDTASAT AYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLVTVS S		ADI-32239	Heavy chain variable region ("HC") amino acid sequence
Ab 414	6546	FNIKDYYMH		ADI-32239	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 414	6547	WIDLENANTVYDAKFQG		ADI-32239	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 414	6548	ARDAYGRYFYDV		ADI-32239	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 414	6549	DIVMTQSPDSLAVSLGERATINCRSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISLQAEDVAVYYCKQSYRRRTFGGGTKVEIK		ADI-32239	Light chain variable region ("LC") amino acid sequence
Ab 414	6550	RSSQSLLNARTGKNYLA		ADI-32239	Light chain variable region CDR L1 ("L1") amino acid sequence

Ab 414	6551	WASTRES		ADI-32239	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 414	6552	KQYSRRT		ADI-32239	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 415	6553	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHVWR QAPGQRLEWIGWIDLENANTYDAKFKQGRVTITRDTAST AYMELSSLRSEDTAVYYCARDAYGRYFYDVGQGTLLVTS S		ADI-32242	Heavy chain variable region ("HC") amino acid sequence
Ab 415	6554	FNIKDYYMH		ADI-32242	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 415	6555	WIDLENANTYDAKFAQG		ADI-32242	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 415	6556	ARDAYGRYFYDV		ADI-32242	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 415	6557	DIVMTQSPDSLAVSLGERATINCKSSQSLINARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGTDFTLT ISSLAEDVAVYYCKQSYFRRTFGGGTKVEIK		ADI-32242	Light chain variable region ("LC") amino acid sequence
Ab 415	6558	KSSQSLINARTGKNYLA		ADI-32242	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 415	6559	WASTRES		ADI-32242	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 415	6560	KQSYFRRT		ADI-32242	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 416	6561	QVQLVQSGAEVKKPGASVKVCKASGFNIKDYMHVWR QAPGQRLEWIGWIDLENANTYDAKFKQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDAYGRYFYDVGQGTLLVTV SS		ADI-32245	Heavy chain variable region ("HC") amino acid sequence
Ab 416	6562	FNIKDYYMH		ADI-32245	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 416	6563	WIDLENANTYDAKFAQG		ADI-32245	Heavy chain variable region CDR H2 ("H2") amino acid sequence

Ab 416	6564	ARDAYGRYFYDV		ADI-32245	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 416	6565	DIVMTQSPDLSAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCTQSYSRRTFGGGTKVEIK		ADI-32245	Light chain variable region ("LC") amino acid sequence
Ab 416	6566	KSSQSLLNARTGKNYLA		ADI-32245	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 416	6567	WASTRES		ADI-32245	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 416	6568	TQSYSRRT		ADI-32245	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 417	6569	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQRLEWMGWIDLENANTVYDAKFQGRVTITRDTSA STAYMELSLRSEDTAVYYCARDAYGRYFYDVWGQGTLLV VSS		ADI-32248	Heavy chain variable region ("HC") amino acid sequence
Ab 417	6570	FNIKDYYMH		ADI-32248	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 417	6571	WIDLENANTVYDAKFAQG		ADI-32248	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 417	6572	ARDAYGRYFYDV		ADI-32248	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 417	6573	DIVMTQSPDLSAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCTQSYSRRTFGGGTKVEIK		ADI-32248	Light chain variable region ("LC") amino acid sequence
Ab 417	6574	KSSQSLLNARTGKNYLA		ADI-32248	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 417	6575	WASTRES		ADI-32248	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 417	6576	TQSYSRRT		ADI-32248	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 418	6577	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR		ADI-32251	Heavy chain variable region ("HC") amino acid sequence

			QAPGQRLEWMGWIDLENANTVYDAKFQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGGQTLVT VSS			sequence
Ab 418	6578	FNIKDYYMH		ADI-32251		Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 418	6579	WIDLENANTVYDAKFQG		ADI-32251		Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 418	6580	ARDAYGRYFYDV		ADI-32251		Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 418	6581	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCTQSYFRRTFGGGTKVEIK		ADI-32251		Light chain variable region ("LC") amino acid sequence
Ab 418	6582	KSSQSLLNARTGKNYLA		ADI-32251		Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 418	6583	WASTRES		ADI-32251		Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 418	6584	TQSYFRRT		ADI-32251		Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 419	6585	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQCLEWMGWIDLENANTYDAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGGQTLVT SS		ADI-32254		Heavy chain variable region ("HC") amino acid sequence
Ab 419	6586	FNIKDYYMH		ADI-32254		Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 419	6587	WIDLENANTYDAKFQG		ADI-32254		Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 419	6588	ARDAYGRYFYDV		ADI-32254		Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 419	6589	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT		ADI-32254		Light chain variable region ("LC") amino acid sequence

Ab 419	6590	ISSLQAEDVAVYCKQSYRRRTFGCGTKVEIK				Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 419	6591	KSSQSLLNARTGKNYLA			ADI-32254	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 419	6592	WASTRES			ADI-32254	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 420	6593	KQSYRRRT			ADI-32257	Heavy chain variable region ("HC") amino acid sequence
Ab 420	6594	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQCLEWMGWIDLENANTYDAKFKQGRVTITRDTSA TAYMELSSLRSEDTAVYYCARDAYGRYFDVWGQGLTIVT SS			ADI-32257	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 420	6595	WIDLENANTYDAKFKQG			ADI-32257	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 420	6596	ARDAYGRYFDV			ADI-32257	Light chain variable region ("LC") amino acid sequence
Ab 420	6597	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGTDFTLT ISSLQAEDVAVYCKQSYRRRTFGCGTKVEIK			ADI-32257	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 420	6598	KSSQSLLNARTGKNYLA			ADI-32257	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 420	6599	WASTRES			ADI-32257	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 421	6600	KQSYRRRT			ADI-32260	Heavy chain variable region ("HC") amino acid sequence
Ab 421	6601	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHWVR QAPGQCLEWMGWIDLENANTYDAKFKQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFDVWGQGLTIVT VSS			ADI-32260	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 421	6601	FNIKDYMH			ADI-32260	Heavy chain variable region CDR H1 ("H1") amino acid sequence

Ab 421	6602	WIDLENANTVYDAKFOG		ADI-32260	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 421	6603	ARDAYGRYFYDV		ADI-32260	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 421	6604	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCTQSYRRTFGCGTKVEIK		ADI-32260	Light chain variable region ("LC") amino acid sequence
Ab 421	6605	KSSQSLLNARTGKNYLA		ADI-32260	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 421	6606	WASTRES		ADI-32260	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 421	6607	TQSYRRT		ADI-32260	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 422	6608	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVVR QAPGQCLEWMGWIDLENANTVYDAKFKQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGGQTLVT VSS		ADI-32240	Heavy chain variable region ("HC") amino acid sequence
Ab 422	6609	FNIKDYMH		ADI-32240	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 422	6610	WIDLENANTVYDAKFOG		ADI-32240	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 422	6611	ARDAYGRYFYDV		ADI-32240	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 422	6612	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISSLQAEDVAVYYCKQSYRRTFGCGTKVEIK		ADI-32240	Light chain variable region ("LC") amino acid sequence
Ab 422	6613	KSSQSLLNARTGKNYLA		ADI-32240	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 422	6614	WASTRES		ADI-32240	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 422	6615	KQSYRRT		ADI-32240	Light chain variable region CDR L3 ("L3") amino acid sequence

Ab 423	6616	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQCLEWMGWIDLENANTVYDAKFQGRVTITRDTSA STAYMELSSLRSEDVAVYCARDAYGRYFYDVWGQGLVT VSS	ADI-32243	Heavy chain variable region ("HC") amino acid sequence
Ab 423	6617	FNIKDYYMH	ADI-32243	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 423	6618	WIDLENANTVYDAKFOG	ADI-32243	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 423	6619	ARDAYGRYFYDV	ADI-32243	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 423	6620	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDFRFGSGGDTFTLT ISSLQAEDVAVYCKQSYFRRTFGCGTKVEIK	ADI-32243	Light chain variable region ("LC") amino acid sequence
Ab 423	6621	KSSQSLLNARTGKNYLA	ADI-32243	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 423	6622	WASTRES	ADI-32243	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 423	6623	KQSYFRRT	ADI-32243	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 424	6624	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQCLEWMGWIDLENANTVYDAKFQGRVTITRDTAST AYMELSSLRSEDVAVYCARDAYGRYFYDVWGQGLVTVS S	ADI-32246	Heavy chain variable region ("HC") amino acid sequence
Ab 424	6625	FNIKDYYMH	ADI-32246	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 424	6626	WIDLENANTVYDAKFOG	ADI-32246	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 424	6627	ARDAYGRYFYDV	ADI-32246	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 424	6628	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA	ADI-32246	Light chain variable region ("LC") amino acid sequence

		WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLT ISSLQAEDVAVYYCKQSYFRRTFGCGTKVEIK			sequence
Ab 424	6629	KSSQSLLNARTGKNYLA	ADI-32246		Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 424	6630	WASTRES	ADI-32246		Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 424	6631	KQSYFRRT	ADI-32246		Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 425	6632	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQCLEWMGWIDLENANTVYDAKFQGRVTITRDTSA STAYMELSLRSEDVAVYYCARDAYGRYFYDVWGQGLTIVT VSS	ADI-32249		Heavy chain variable region ("HC") amino acid sequence
Ab 425	6633	FNIKDYYMH	ADI-32249		Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 425	6634	WIDLENANTVYDAKFOG	ADI-32249		Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 425	6635	ARDAYGRYFDV	ADI-32249		Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 425	6636	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGSGTDFTLT ISSLQAEDVAVYYCTQSYFRRTFGCGTKVEIK	ADI-32249		Light chain variable region ("LC") amino acid sequence
Ab 425	6637	KSSQSLLNARTGKNYLA	ADI-32249		Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 425	6638	WASTRES	ADI-32249		Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 425	6639	TQSYFRRT	ADI-32249		Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 426	6640	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQCLEWMGWIDLENANTVYNAKFQGRVTITRDTSA TAYMELSLRSEDVAVYYCARDAYGRYFYDVWGQGLTIVT	ADI-32252		Heavy chain variable region ("HC") amino acid sequence

Ab 426	6641	SS FNIKDYYMH	ADI-32252	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 426	6642	WIDLENANTIYNAKFQG	ADI-32252	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 426	6643	ARDAYGRYFYDV	ADI-32252	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 426	6644	DIVMTQSPDSLAVSLGERATINCKSSQSLLNARTGKKNYLA WYQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLT ISLQAEDVAVYYCKQSYRRITFGCGTKVEIK	ADI-32252	Light chain variable region ("LC") amino acid sequence
Ab 426	6645	KSSQSLLNARTGKKNYLA	ADI-32252	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 426	6646	WASTRES	ADI-32252	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 426	6647	KQSYRRIT	ADI-32252	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 427	6648	QVQLVQSGAEVKKPGASVKVSCKASGFNIKDYMHVWR QAPGQGLEWMGWIDLENANTIYNAKFQGRVTITRDTAS TAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLTVT SS	ADI-32255	Heavy chain variable region ("HC") amino acid sequence
Ab 427	6649	FNIKDYYMH	ADI-32255	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 427	6650	WIDLENANTIYNAKFQG	ADI-32255	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 427	6651	ARDAYGRYFYDV	ADI-32255	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 427	6652	DIVMTQSPDSLAVSLGERVTINCKSSQSLLNARTGKSYLAW YQKPGQPPKLLIYWASTRESGVPDRFSGSGGDTFTLTIS SLQAEDVAVYYCKQSYRRITFGCGTKVEIK	ADI-32255	Light chain variable region ("LC") amino acid sequence
Ab 427	6653	KSSQSLLNARTGKSYLA	ADI-32255	Light chain variable region CDR L1 ("L1") amino acid sequence

Ab 427	6654	WASTRES		ADI-32255	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 427	6655	KQYSRRT		ADI-32255	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 428	6656	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQCLEWMGWIDLENANTVYNAKFQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLT VSS		ADI-32258	Heavy chain variable region ("HC") amino acid sequence
Ab 428	6657	FNIKDYYMH		ADI-32258	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 428	6658	WIDLENANTVYNAKFQG		ADI-32258	Heavy chain variable region CDR H2 ("H2") amino acid sequence
Ab 428	6659	ARDAYGRYFYDV		ADI-32258	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 428	6660	DIVMTQSPDSLAVSLGERATINCKSSQSLINARTGKNYLA WYQQKPGQPPKLLIYWASTRESGVPDRFSGSGGTDFTLT ISSLAEDVAVYYCKQYSRRTFGCGTKVEIK		ADI-32258	Light chain variable region ("LC") amino acid sequence
Ab 428	6661	KSSQSLINARTGKNYLA		ADI-32258	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 428	6662	WASTRES		ADI-32258	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 428	6663	KQYSRRT		ADI-32258	Light chain variable region CDR L3 ("L3") amino acid sequence
Ab 429	6664	QVQLVQSGAEVKKPGASVKVSKASGFNIKDYMHVWR QAPGQCLEWMGWIDLENANTVYNAKFQGRVTITRDTSA STAYMELSSLRSEDTAVYYCARDAYGRYFYDVWGQGLT VSS		ADI-32261	Heavy chain variable region ("HC") amino acid sequence
Ab 429	6665	FNIKDYYMH		ADI-32261	Heavy chain variable region CDR H1 ("H1") amino acid sequence
Ab 429	6666	WIDLENANTVYNAKFQG		ADI-32261	Heavy chain variable region CDR H2 ("H2") amino acid sequence

Ab 429	6667	ARDAYGRYFYDV		ADI-32261	Heavy chain variable region CDR H3 ("H3") amino acid sequence
Ab 429	6668	DIVMTQSPDLSAVSLGERATINCKSSQSLLNARTGKNLYA WYQKPGQPKLLIYWASTRESGVPDRFSGSGGTDFTLT ISSLQAEDVAVYYCKQSYFRRTFGCGTKVEIK		ADI-32261	Light chain variable region ("LC") amino acid sequence
Ab 429	6669	KSSQSLLNARTGKNLYA		ADI-32261	Light chain variable region CDR L1 ("L1") amino acid sequence
Ab 429	6670	WASTRES		ADI-32261	Light chain variable region CDR L2 ("L2") amino acid sequence
Ab 429	6671	KQSYFRRT		ADI-32261	Light chain variable region CDR L3 ("L3") amino acid sequence

Table 4. Additional bispecific CD3 antibody sequences

Ab 430	6672	EVQLVESGGGLVQPGGSLRLSCAASGFNIIKDTYIHWVRQ APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNLSLRAEDTAVYYCSRWGGDGFYAMDYWGQGLTAV VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSWNGALTSGVHTFPAVLQSSGLYSLSSVATVPSSS LGTQTYICNVNHKPSNTKVDKVEPKSCDKTHTCPPCPA PEAAAGPSVFLFPPKPKDTLMISRTPEVTCVAVDVSHEP PEVDFNMYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL HQDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQV CTLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQP ENNYKTTTPPVLDSDGSFFLVSKLTVDKSRWQQGNVFNCS VMHEALHNHYTQKSLSLSPG		ADI-29291	Heavy chain HC1
Ab 430	6673	DIVMTQSPDLSAVSLGERATINCKSSQSLLNARTGKNLY AWYQQKPGQSPKLLIYWTSRTRKSGVPDRFSGSGGTDFT LTISLQAEDVAVYYCKQSFILRTFGCGTKVEIKGGGGS GGGGGGGGGGGSEVQLVQSGAEVKKIPGASVKVSCKA SGFTFTSYIHWVRQAPGQCLEWIGWIYIPENDNTKYNEK FKDRVTITADTSTAYLESLRSEDVAVYYCARDGYS RYFDYWGQGLTVTVSSGSEPKSSDKTHTCPPCPAPEAA GGPSVFLFPPKPKDTLMISRTPEVTCVAVDVSHEPVEK FNMVVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDW LNKKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTL P PCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGQPENNY		ADI-29291	Heavy chain HC2 (CD3 binder as scFv)

Ab 430	6674	<p>KTTPLDSDGSFFLYSKLTVDKSRWQQGNIFSCVMHE ALHNRFTQKSLSLSPG</p> <p>DIQMTQSPSSLSASVGRVITITCRASQDVNTAVAWYQQK PGKAPKLLIYSASFLYSGVPSRFSGRSGDTFTLTISL QPEDFATYCCQHYTTPPTFGQGTKEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNFFYPREAKVQWKVDNALQS GNSQESVTEQDSKDYSLSTLTLSKADYEKHKVYACE VTHQGLSSPVTKSFNRGEC</p>	ADI-29291	Light chain LC
Ab 431	6675	<p>EVQLVESGGGLVQPGGSLRLSCAASGFINIKDTYIHWV APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNLSRAEDTAVYCSRWGGDGFYAMDYWGQGTLLV VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSWNSGALTSGVHTFPAVLQSSGLYSLSSWTVPSSS LGTQYICNVNHKPSNTKVDKKEPKSCDKTHTCPPCPA PEAAGGSPVFLFPPKPKDTLMISRTPEVTCVAVDVSHE PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVSVLTVL HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV CTLPPSRDELTKNQVSLCAVKGFYPSDIAVEWESNGQP ENNYKTTTPVLDSDGSFFLVSKLTVDKSRWQQGNVFC VMHEALHNHYTQKSLSLSPG</p>	ADI-29292	Heavy chain HC1
Ab 431	6676	<p>QTVVTEPQLTVSPGGTVTLTCGSSTGAVTSGNYPNWVQ QKPGQAPRGLIGGTFKFLAPGTPARFSGSLGGKAAALTS GVQPEDEAEYCYCVLWYSNRWVFGCGTKLTVLGGGGGGG GSGGGGGGGSEVQLVESGGGLVQPGGSLKLSCAASGF TFNKYAMNWRQAPGKCLEWVARIRSKYNNYATYYADSV KDRFTISRDDSKNTAYLQMNLIKTEDAVYCYVRHGNFG NSYISYWAYWGGTTLTVSSGSEPKSSDKTHTCPPCPAP EAAGGSPVFLFPPKPKDTLMISRTPEVTCVAVDVSHE PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVSVLTVLH QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV TLPPCREEMTKNQVSLWCLVKGFYPSDIAVEWESGQPE NNYKTTTPMLDSDGSFFLYSKLTVDKSRWQQGNIFSCSV MHEALHNRFTQKSLSLSPG</p>	ADI-29292	Heavy chain HC2 (CD3 binder as scFv)
Ab 431	6677	<p>DIQMTQSPSSLSASVGRVITITCRASQDVNTAVAWYQQK PGKAPKLLIYSASFLYSGVPSRFSGRSGDTFTLTISL QPEDFATYCCQHYTTPPTFGQGTKEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNFFYPREAKVQWKVDNALQS GNSQESVTEQDSKDYSLSTLTLSKADYEKHKVYACE VTHQGLSSPVTKSFNRGEC</p>	ADI-29292	Light chain LC

Ab 432	6678	<p>EVQLVESGGGLVQPGGSLRLSCAASGFTNIDYIHWVRQ APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNLSRAEDTAVYCSRWGGDGFYAMDYWGQGLT VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSWNSGALTSVHTFPAVLQSSGLYSLSSVTVPS LGTQYICNVNHKPSNTKVDKVEPKSCDKTHTCPPCPA PEAAAGPSVFLFPPKPKDTLMISRTPEVTCVAVDVS PEVFNWYVDGVEVHNAKTKPREEQYNSTYRVSVLTVL HQDNLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV CTLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQP ENNYKTTTPVLDSDGSFFLVSKLTVDKSRWQQGNVFC VMHEALHNHYTQKSLSLSPG</p>	ADI-29293	Heavy chain HC1
Ab 432	6679	<p>DIQMTQSPSSLSASVGRVITITCRASQSISSYLNMYQQK PGKAPKLLIYAASSLQSGVPSRFGSGGTDFTLTISL QPEDFATYYCQQADLPFAFGCGTKVEIKGGGSGGGG GGGSGGGSEVRLLESGGGLVQPGGSLRLSCAASGFTF SNYAMGWVRAQPGKCLEWVSAISGGSTYADSVKGRF TTSRDSKNALYLQMNLSRAEDTAVYCARGGPGWYAAD VMGGTITVSSGSEPKSSDKTHTCPPCPAEEAAGPSV FLFPPKPKDTLMISRTPEVTCVAVDVSHPKFNWYV DGEVHNAKTKPREEQYNSTYRVSVLTVLHQDNLNGKE YKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPCREE MTKNQVSLWCLVKGFYPSDIAVEWESGGPENNPKTTPP MLDSGDFFLYSKLTVDKSRWQQGNIFSCVMHEALHNR FTQKSLSLSPG</p>	ADI-29293	Heavy chain HC2 (CD3 binder as scFv)
Ab 432	6680	<p>DIQMTQSPSSLSASVGRVITITCRASQDVNTAVAWYQQK PGKAPKLLIYSASFLYSGVPSRFGSGGTDFTLTISL QPEDFATYYCQQHYTTPPTFGQGTKEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQS GNSQESVTEQDSKDYSLSSSTLTLTKADYEKHKVYACE VTHQGLSSPVTKSNRGEK</p>	ADI-29293	Light chain LC
Ab 433	6681	<p>EVQLVESGGGLVQPGGSLRLSCAASGFTNIDYIHWVRQ APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNLSRAEDTAVYCSRWGGDGFYAMDYWGQGLT VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSWNSGALTSVHTFPAVLQSSGLYSLSSVTVPS LGTQYICNVNHKPSNTKVDKVEPKSCDKTHTCPPCPA PEAAAGPSVFLFPPKPKDTLMISRTPEVTCVAVDVS PEVFNWYVDGVEVHNAKTKPREEQYNSTYRVSVLTVL HQDNLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV CTLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQP ENNYKTTTPVLDSDGSFFLVSKLTVDKSRWQQGNVFC VMHEALHNHYTQKSLSLSPG</p>	ADI-29294	Heavy chain HC1

Ab 433	6682	<p>VMHEALHNHYTQKSLSLSPG</p> <p>DIVMTQSPDLSAVSLGERATINCKSSQSLNARTGKNYL AWYQQKPGPPKLLIYWASTRESGVDRFSGSGSGTDFT LTISSLQAEDVAVYCKQYSRRTFGCCTKVEIKGGGS GGGSGGGSGGGGQQLVQSGAEVKKPGASVKVSCKA SGFNIDKYMHWRQAPGQCLEWMGWIDLENGNTIYDPK FQGRVTITRDTSASTAYMELSSLRSEDVAVYCARDAYG RYFYDWGQGTLLTVSSGSEPKSSDKTHTCPPCPAPEAA GGPSVFLFPPKPKDITLMISRTPEVTCVAVDVSHPEDPEVK FNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDW LNKKEYCKVSNKALPAPIEKTIISKAKGQPREPQVYTLTP PCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGQPENNY KTTTPMLDSDGFFLYSKLTVDKSRWQQGNIFSCSVME ALHNRFTQKSLSLSPG</p>	ADI-29294	Heavy chain HC2 (CD3 binder as scFv)
Ab 433	6683	<p>DIQMTQSPSSLSASVGRVITTCRASQDVNTAVAWYQQK PGKAPKLLIYSASFLYSGVPSRFSRSGSDFTLTISLL QPEDFATYCCQHYTTPPTFGQGTKEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQS GNSQESVTEQDSKDSYLSSTLTLSKADYEKHKVYACE VTHQGLSSPVTKSFNRGEC</p>	ADI-29294	Light chain LC
Ab 434	6684	<p>EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQ APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNSLRRAEDTAVYCSRWGGDGFYAMDYWGQGTLLV VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSNWNGALTSGVHTFPAVLQSSGLYSLSSVTVPSSS LGTQTYICNVNHKPSNTKVDKVEPKSCDKHTHTCPPCPA PEAAAGGPSVFLFPPKPKDITLMISRTPEVTCVAVDVSHPED PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL HQDWLNKKEYCKVSNKALPAPIEKTIISKAKGQPREPQV CTLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQP ENNYKTTTPVLDSDGFFLVSKLTVDKSRWQQGNVVFCS VMHEALHNHYTQKSLSLSPG</p>	ADI-29295	Heavy chain HC1
Ab 434	6685	<p>DIVMTQSPDLSAVSLGERATINCKSSQSLNARTGKNYL AWYQQKPGPPKLLIYWASTRESGVDRFSGSGSGTDFT LTISSLQAEDVAVYCKQYSRRTFGCCTKVEIKGGGS GGGSGGGSGGGGQQLVQSGAEVKKPGASVKVSCKA SGFNIDKYMHWRQAPGQCLEWMGWIDLENGNTIYDAK FQGRVTITRDTSASTAYMELSSLRSEDVAVYCARDAYG RYFYDWGQGTLLTVSSGSEPKSSDKTHTCPPCPAPEAA GGPSVFLFPPKPKDITLMISRTPEVTCVAVDVSHPEDPEVK FNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDW</p>	ADI-29295	Heavy chain HC2 (CD3 binder as scFv)

Ab 434	6686	<p>LNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGQPENNYKTTTPMLDSDGSEFFLYSKLTVDKSRWQQGNIFSCSVMHEALHNRFTQKSLSLSPG</p>		Light chain LC
Ab 435	6687	<p>DIQMTQSPSSLSASVGRVITITCRASQDVNTAVAWYQQKPGKAPKLLIYSASFLYSGVPSRFSRSGTDFLTISSLPEDFATYYCQGHYTTPTFGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC</p>	ADI-29295	Heavy chain HC1
Ab 435	6688	<p>EVQLVESGGGLVQPGGSLRLSCAASGFTNIDYIHWVRQAPGKGLWVARIYPTNGYTRYADSVKGRFTISADTSKNTAYLQMNSLRRAEDTAVYCSRWGGDGFYAMDYWGQGTLLVTVSSASTKGGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVATVPSSSLGTQTYICNVNHKPSNTKVDKVEPKSCDKTHTCPPCPAPEAAGGPSVFLFPPKPKDITLIMISRTPEVTCVAVDWSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVCTLPSPRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSEFFLVSKLTVDKSRWQQGNVDFCSVMHEALHNHYTQKSLSLSPG</p>	ADI-29297	Heavy chain HC2 (CD3 binder as scFv)
Ab 435	6689	<p>DIVMTQSPDLSAVSLGERATINCKSSQSLLNARTGKNYLAWYQQKPGQPKLLIYWASTRESGVPDFRFSGSGGTDFTLTISLQAEDVAVYCKQSYRRRTFGCGTKVEIKGGGSGGGSGGGGGGGQVQLVQSGAEVKKPKGASVKVSCKASGFIKDYIMHWVRQAPGQCLEWMGIDLENANTIIDAKFQGRVITITRDTASTAYMELSSLRSEDYAVYCARDQYGRYFYDVMWGQGTLLVTVSSGSEPKSSDKTHTCPPCPAPEAAGGPSVFLFPPKPKDITLIMISRTPEVTCVAVDWSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGQPENNYKTTTPMLDSDGSEFFLYSKLTVDKSRWQQGNIFSCSVMHEALHNRFTQKSLSLSPG</p>	ADI-29297	Light chain LC

Ab 436	6690	<p>VTHQGLSSPVTKSFNRGEC</p> <p>EVQLVESGGGLVQPGGSLRLSCAASGFTNIDYIHWVRQ APGKLEWVARIYPTNGYTRYSKGRFTISADTSKNT AYLQMSLRAEDTAVYCSRGGGDFYAMDYWGQGLT VSSASTKGPSVFLAPSSKSTSGTAAALGCLVKDYFPEP VTSWNSGALTSVHTFPAVLQSSGLYSLSSVTVPSST LGTQYICNVNHKPSNTKVDKVEPKSCDKTHTCPCPA PEAGGSPVFLFPPKPKDLMISRTEPEVTCVVDVSHED PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRWSVLT HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV CTLPPSRDELTKNQVSLCAVKGFYPSDIAVEWESNGQP ENNYKTTTPVLDSDGSFFLVSKLTVDKSRWQQGNVFCSS VMHEALHNHYTQKSLSLSPG</p>	ADI-29298	Heavy chain HC1
Ab 436	6691	<p>DIVMTQSPDLSAVSLGERATINCKSSQSLLNARTGKNYL AMYQQKPGQPKLLIYWASTRESGVPDFRFGSGSDFT LTISSLQAEDVAVYCKQSYSLRTFGCGTKVEIKGGGGS GGGSGGGGGGQQLVQSGAEVKKPGASVKVSCKA SGFNIDKYMHWRQAPGQCLEMGMWIDLEEGNTIYDAK FQGRVTITRDTASTAYMELSSLSEDTAVYCARDAYG RYFYDWGQGLTVTVSSGSEPKSSDKTHTCPCPAPEAA GGPSVFLFPPKPKDLMISRTEPEVTCVVDVSHEDPEVK FNWYVDGVEVHNAKTKPREEQYNSTYRWSVLT HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTL PCKREEMTKNQVSLWCLVKGFYPSDIAVEWESGQPENNY KTTTPMLDSDGSFFLVSKLTVDKSRWQQGNIFSCSVME ALHNRFTQKLSLSPG</p>	ADI-29298	Heavy chain HC2 (CD3 binder as scFv)
Ab 436	6692	<p>DIQMTQSPSSLSASVGRVTITCRASQDVTAVAWYQQK PGKAPKLLIYSASFLYSGVPSRFSRSGTDFLTISL QPEDFATYCCQHYTTPPTFGQTKVEIKRTVAAPSFI FPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQS GNSQESVTEQDSKDSYLSSTLTLSKADYEKHKVYACE VTHQGLSSPVTKSFNRGEC</p>	ADI-29298	Light chain LC
Ab 437	6693	<p>EVQLVESGGGLVQPGGSLRLSCAASGFTNIDYIHWVRQ APGKLEWVARIYPTNGYTRYSKGRFTISADTSKNT AYLQMSLRAEDTAVYCSRGGGDFYAMDYWGQGLT VSSASTKGPSVFLAPSSKSTSGTAAALGCLVKDYFPEP VTSWNSGALTSVHTFPAVLQSSGLYSLSSVTVPSST LGTQYICNVNHKPSNTKVDKVEPKSCDKTHTCPCPA PEAGGSPVFLFPPKPKDLMISRTEPEVTCVVDVSHED PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRWSVLT HQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV</p>	ADI-29300	Heavy chain HC1

Ab 437	6694	<p>CTLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQP ENNYKTPPVLDSDGSFFLVSKLTVDKSRWQQGNVFSCS VMHEALHNHYTQKSLSLSPG</p> <p>DIVMTQSPDLSAVSLGERATINCKSSQSLLESRTGKNYL AWYQQKPGQPKLLIYWASTRESGVPDFRFGSGSGTDFT LTISSLAQEDVAVYCKQSYSLRTFGCGTKVEIKGGGS GGGSGGGGSGGGGQQLVQSGAEVKKPGASVKVSCKA SGFNIDKYMHWRQAPGQCLEWMGWIDLENANTIIDAK FQGRVTITRDTASASTAYMELSSLRSEDYAVYCARDNYG GYFYDVGQGTLLTVSSGSEPKSSDKTHTCPPCPAPEAA GGPSVFLFPPKPKDITLMISRTPEVTCVVDVSHEDPEVK FNWYVDGVEVHNAKTKPREEQYNSTYRVSVLTVLHQDW LNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP PCREEMTKNQVSLWCLVKGFYPSDIAVEWESGQPENNY KTTTPMLDSDGSFFLVSKLTVDKSRWQQGNIFSCSVME ALHNRFITQKSLSLSPG</p>	ADI-29300	Heavy chain HC2 (CD3 binder as scFv)	
Ab 437	6695	<p>DIQMTQSPSSASVGDRTVITCRASQDVNTAVAWYQQK PGKAPKLLIYSASFLYSGVPSRFGSGRSRGTDTLTISL QPEDFATYYCQQHYTTPPTFGQGTKVEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNINFYPREAKVQMKVDNALQS GNSQESVTEQDSKDSYSLSSLTLSKADYEKHKVYACE VTHQGLSSPVTKSNRGEK</p>	ADI-29300	Light chain LC	
Ab 438	6696	<p>EVRLLEGGGLVQPGGSLRLSCAASGGFTFSNYAMGWVRQ APGKLEWVSAISGGSTYYADSVKGRFTTSRDDSKNA LYLQMNSLRAEDTAVYCYARGGPGWYAADVWGQGTITV SSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEPV TVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSL GTQTYICNVNHKPSNTKVDKVEPKSCDKTHTCPPCPAP EAAGGPSVFLFPPKPKDITLMISRTPEVTCVVDVSHEDP EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVSVLTVLH QDWLNGKEYCKVSNKALPAPIEKTISKAKGQPREPQVC TLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQPE NNYKTPPVLDSDGSFFLVSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSLSLSPG</p>	ADI-29301	Heavy chain HC1	
Ab 438	6697	<p>DIVMTQSPDLSAVSLGERATINCKSSQSLLSRRTGKNYL AWYQQKPGQPKLLIYWASTRESGVPDFRFGSGSGTDFT LTISSLAQEDVAVYCKQSYSLRTFGCGTKVEIKGGGS GGGSGGGGSGGGGQQLVQSGAEVKKPGASVKVSCKA SGFNIDKYMHWRQAPGQCLEWMGWIDLENANTIIDPK FQGRVTITRDTASASTAYMELSSLRSEDYAVYCARDGYG RYFYDVGQGTLLTVSSGSEPKSSDKTHTCPPCPAPEAA</p>	ADI-29301	Heavy chain HC2 (CD3 binder as scFv)	

Ab 438	6698	<p>GGPSVFLFPPKPKDITLMISRTPEVTCVWVDSHEDPEVK FNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDW LNKKEYCKVSNKALPAPIEKTISKAKGQPREPQVYTLTP PCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGQPENNY KTTTPMLDSDGSFFLYSKLTVDKSRWQQGNIIFSCSVMHE ALHNRFTQKLSLSPG</p>		Light chain LC
AB 439	6699	<p>DIQMTQSPSSLSASVGRVITITCRASQSISSYLNWYQQK PGKAPKLLIYAASLQSGVPSRFSGSGGDTFTLTISSL QPEDFATYYCQQADLPFAFGGGTKVEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQS GNSQESVTEQDSKDSYSLSTLTLSKADYEKHKVYACE VTHQGLSSPVTKSNRGECE</p>	ADI-29301	Heavy chain HC1
Ab 439	6700	<p>EVQLVESGGGLVQPGGSLRLSCAASGFFNFKDTYIHWVRQ APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNSLRRAEDTAVYYCSRWGGDFYAMDYWGQGLT VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSWNGALTSVHTTTPAVLQSSGLYSLSVWTVPSSS LGTQYICNVNHPKSTKVDKVEPKSCDKTHTCPPCPA PEAAGGPSVFLFPPKPKDITLMISRTPEVTCVWVDSHED PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL HQDWLNKYEKCKVSNKALPAPIEKTISKAKGQPREPQV CTLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQP ENNYKTTTPMLDSDGSFFLYSKLTVDKSRWQQGNIIFSCS VMHEALHNHYTQKLSLSPG</p>	ADI-29302	Heavy chain HC2 (CD3 binder as scFv)
Ab 439	6701	<p>QTVVTQEPSLSVSPGGTIVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDRFSGSLGDKAALTIT GAQAEDEADYICALWYSNHWVFGCGTKLTVLGGGGGGG GSGGGGGGGSEVQLLESGGLVQPGGSLRLSCAASGF TFDTYAMNHWVRQAPGKCLEWVARIRSKYNNYATYYADSV KDRFTISRDDSKSTLYLQMESLRAEDTAVYYCVRHGNFQ GGYVSWFAHWGQGLTVTVSSGSEPKSSDKTHTCPPCPAP EAAGGPSVFLFPPKPKDITLMISRTPEVTCVWVDSHEDP EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH QDWLNKYEKCKVSNKALPAPIEKTISKAKGQPREPQVY TLPPCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGQPE NNYKTTTPMLDSDGSFFLYSKLTVDKSRWQQGNIIFSCSV MHEALHNRFTQKLSLSPG</p>	ADI-29302	Light chain LC
Ab 439	6701	<p>DIQMTQSPSSLSASVGRVITITCRASQDVNTAVAWYQQK PGKAPKLLIYASFLYSGVPSRFSGSGGDTFTLTISSL QPEDFATYYCQQHYTTPPTFGGQTKVEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQS</p>	ADI-29302	Light chain LC

Ab 440	6702	<p>GNSQESVTEQDSKDYSLSSSTLTLTKADYEKHKVYACE VTHQGLSSPVTKSFNRGEC</p> <p>EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQ APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNSLRAEDTAVYCSRWGGDGFYAMDYWGQGLT VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSWNSGALTSVHTFPAVLQSSGLYSLSSVTVPSST LGTQTYICNVNHKPSNTKVDKVEPKSCDKTHTCPPCPA PEAAGGPSVFLFPPKPKDTLMISRTPEVTCVAVDVS PEVDFNMYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL HQDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPREPQV CTLPPSRDELTKNQVSLSCAVKGFYPSDIAVEWESNGQP ENNYKTTTPVLDSDGFFLVSKLTVDKSRWQQGNVFS VMHEALHNHYTQKSLSLSPG</p>	ADI-29303	Heavy chain HC1
Ab 440	6703	<p>QTVVTQEPSSLVSPGGTTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVDRFSGSLGDKAALTTIT GAQAEADYCALWYNSHWVFCGCTKLTVLGGGGGGG GSGGGGGGGSEVQLLESGLLVQPGGSLRLS CAASGF TFDTYAMNHWRAQPGKLEWVARI RSKYNNTYADSV KDRFTISRDDSSTLYLQ MESLRAEDTAVYCVRHNGF GGYVSWFA WVGGQGLTVTVSSGSEPKSSDKTHTCPPCPA EAAGGPSVFLFPPKPKDTLMISRTPEVTCVAVD VSHEDP EVKFNWYVDGVEVHNAKTKPREEQ YNSTYRVVSVLTVLHQDWLNGKEYKCKVSN KALPAPIEKTIISKAKGQPREPQV TLP PCREEMTKNQVSLWCLVKGFYPSDIAVEWES SGQPE NNYKTTTPMLDSDGFFLVSKLTV DKSRWQQGNVFSVMHEALHNHYTQKSLSLSPG</p>	ADI-29303	Heavy chain HC2 (CD3 binder as scFv)
Ab 440	6704	<p>DIQMTQSPSSLSASVGRVITTCRASQDVTAVAWYQQK PGKAPKLLIYSASFLYSGVPSRFSRSGTDFLTLSL QPEDFATYCCQHYTTPPTFGQGTKEIKRTVAAPS VFI FPPSDEQLKSGTASVCLLNFFYPREAKVQ WKVDNALQS GNSQESVTEQDSKDYSLSSSTL TLTKADYEKHKVYACE VTHQGLSSPVTK SFNRGEC</p>	ADI-29303	Light chain LC
Ab 441	6705	<p>EVQLVESGGGLVQPGGSLRLSCAASGFNIKDTYIHWVRQ APGKLEWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNSLRAEDTAVYCSRWGGDGFYAMDYWGQGLT VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSWNSGALTSVHTFPAVLQSSGLYSLSSVTVPSST LGTQTYICNVNHKPSNTKVDKVEPKSCDKTHTCPPCPA PEAAGGPSVFLFPPKPKDTLMISRTPEVTCVAVD VSHEDP PEVDFNMYVDGVEVHNAKTKPREEQ YNSTYRVVSVLTVL</p>	ADI-29304	Heavy chain HC1

Ab 441	6706	<p>HQDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPREPQV CTLPPSRDELTKNQVSLCAVKGFPYPSDIAVEWESNGQP ENNYKTTTPVLDSDGSEFLVSKLTVDKSRWQQGNVFSCS VMHEALHNHYTQKLSLSLSPG</p>		Heavy chain HC2 (CD3 binder as scFv)
Ab 441	6707	<p>QTVVTQEPSLSVSPGGTTLTCGSSTGAVTTSNYANMWQ QTPGQAPRGLIGGTDKRAPGVPDRFSGSLLDGKAALTIIT GAQAEDEADYYCALWYSLWVFGCGTKLTVLGGGGGGG GSGGGGGGGSEVQLLESGLLVQPGGSLRLSCAASGF TFDYAMNWRQAPGKCLEWVARIRSKYNDYATYYADSV KDRFTISRDDSKSTLYLQMESLRAEDTAVYCVRHGNFG GAYVSWFAHWGQGTLVTVSSGSEPKSSDKTHTCPPCPAP EAAGGPSVFLFPPKPKDTLMISRTPEVTCVAVDVSHPD EVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPREPQV TLPCCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGPE NNYKTTTPMLDSDGSEFLVSKLTVDKSRWQQGNVFSCSV MHEALHNRYTQKLSLSLSPG</p>	ADI-29304	Light chain LC
Ab 442	6708	<p>EVQLVESGGGLVQPGGSLRLSCAASGFTNIDYTIHWVRQ APGKGLWVARIYPTNGYTRYADSVKGRFTISADTSKNT AYLQMNSLRRAEDTAVYCSRWGGDGFYAMDYWGQGTLLV VSSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEP VTVSMNSGALTSVHTFPAVLQSSGLYSLSSVTVPSST LGTQYICNVNHPKSTKVDKVEPKSCDKTHTCPPCPA PEAAAGPSVFLFPPKPKDTLMISRTPEVTCVAVDVSHPD PEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVL HQDWLNGKEYKCKVSNKALPAPIEKTIISKAKGQPREPQV CTLPPSRDELTKNQVSLCAVKGFPYPSDIAVEWESNGQP ENNYKTTTPVLDSDGSEFLVSKLTVDKSRWQQGNVFSCS VMHEALHNHYTQKLSLSLSPG</p>	ADI-29304	Heavy chain HC1
Ab 442	6709	<p>QTVVTQEPSLSVSPGGTTLTCGSSTGAVTTSNYANMWQ QTPGQAPRGLIGGTDKRAPGVPDRFSGSLLDGKAALTIIT GAQAEDEADYYCALWYSLWVFGCGTKLTVLGGGGGGG GSGGGGGGGSEVQLLESGLLVQPGGSLRLSCAASGF TFDYAMNWRQAPGKCLEWVARIRSKYNDYATYYADSV KDRFTISRDDSKSTLYLQMESLRAEDTAVYCVRHGNVG</p>	ADI-29305	Heavy chain HC2 (CD3 binder as scFv)

Ab 442	6710	GGYVSWFAHWGQGLTVTVSSGSEPKSSDKTKHTCPPCPAP EAAGGPSVFLFPPKPKDMLMISRTPEVTCVAVDVSHPEDP EVKFNWYVDGVEVHNKTKPREEQYNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVY TLPCCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGPE NNYKTTTPMLDSDGFFLYSKLTVDKSRWQQGNIFSCSV MHEALHNRFTQKLSLSLSPG	ADI-29305	Light chain LC
Ab 443	6711	DIQMTQSPSSLSASVGRVITITCRASQDVNTAVAWYQQK PGKAPKLLIYASFLYSGVPSRFSGSRGDTFTLTISLL QPEDFATYYCQHYTTPPTFGQTKVEIKRTVAAPSVFI FPPSDEQLKSGTASVCLLNNFYPREAKVQWKVDNALQS GNSQESVTEQDSKDSYLSSTLTLSKADYEKHKVYACE VTHQGLSSPVTKSFNRGEC	ADI-29305	Heavy chain HC1
Ab 443	6712	EVRLLEGGGLVQPGGSLRLSCAASGFTFSNYAMGWVRQ APGKLEWVSAISGGSTYYADSVKGRFTTSRDDSKNA LYLQMNSLRAEDTAVYFCARGPGWYAADWVGQGTITVTV SSASTKGPSVFLAPSSKSTSGGTAALGCLVKDYFPEPV TVSWNSGALTSGVHTFPAVLQSSGLYSLSSVTVPSSSL GTQTYICNVNHKPSNTKVDKVEPKSCDKTKHTCPPCPAP EAAGGPSVFLFPPKPKDMLMISRTPEVTCVAVDVSHPEDP EVKFNWYVDGVEVHNKTKPREEQYNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV TLPCCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGPE NNYKTTTPMLDSDGFFLYSKLTVDKSRWQQGNVFCSCSV MHEALHNRFTQKLSLSLSPG	ADI-29306	Heavy chain HC2 (CD3 binder as scFv)
Ab 443	6713	QTVVTQEPSLSVSPGGTVTLTCGSSTGAVTTSNYANWVQ QTPGQAPRGLIGGTDKRAPGVPDFRSGSLGDKAALTIT GAQAEDEADYYCALWYNSHWVFGCGTKLTVLGGGSGGG GSGGGSGGGSEVQLLESGGGLVQPGGSLRLSCAASGF TFDTYAMNWRQAPGKCLEWVARIRSKYNNYATYYADSV KDRFTISRDDSKSTLYLQMESLRAEDTAVYCVRHNGFG GGYVSWFAHWGQGLTVTVSSGSEPKSSDKTKHTCPPCPAP EAAGGPSVFLFPPKPKDMLMISRTPEVTCVAVDVSHPEDP EVKFNWYVDGVEVHNKTKPREEQYNSTYRVVSVLTVLH QDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVY TLPCCREEMTKNQVSLWCLVKGFYPSDIAVEWESGGPE NNYKTTTPMLDSDGFFLYSKLTVDKSRWQQGNIFSCSV MHEALHNRFTQKLSLSLSPG	ADI-29306	Light chain LC

	<p>FPPSDEQLKSGTASVCLLNFFYPREAKVQWKVDNALQS GNSQESVTEQDSKDYSLSTLTLKADYEKHKVYACE VTHQGLSSPVTKSFNRGEC</p>		
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Further embodiments are enumerated in clauses below.

1. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said antibody displays an enhanced developability profile relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

2. The antibody according to Clause 1, wherein the enhanced developability profile is obtained by performing a PSR assay; an SCP assay; AS-CINS; a BVP assay; an ELISA; a DSF assay; a Tm assay; a HIC assay; a CIC assay; or combinations thereof.

3. An antibody comprising a CD3 binding domain, wherein said antibody displays a developability score of:
 - between about 0 MFI and about 500 MFI; between about 0 MFI and about 450 MFI; between about 0 MFI and about 400 MFI;
 - between about 0 MFI and about 350 MFI; between about 0 MFI and about 300 MFI; between about 0 MFI and about 250 MFI;
 - between about 0 MFI and about 200 MFI; between about 0 MFI and about 150 MFI; between about 0 MFI and about 100 MFI;
 - between about 0 MFI and about 50 MFI; between about 200 MFI and 500 MFI; ; between about 200 MFI and about 450 MFI;
 - between about 200 MFI and about 400 MFI; between about 200 MFI and about 350 MFI; between about 200 MFI and about 300 MFI; between about 200 MFI and about 250 MFI; between about 200 MFI and about 200 MFI; between about 100 MFI and about 450 MFI; between about 100 MFI and about 300 MFI;

- and about 400 MFI; between about 100 MFI and about 350 MFI; between about 100 MFI and about 300 MFI; between about 100 MFI and about 250 MFI; between about 100 MFI and about 200 MFI; or between about 100 MFI and about 150 MFI.
4. The antibody according to Clause 3, wherein the developability score is obtained by performing a PSR assay, an SCP assay AS-CINS; a BVP assay; an ELISA; a DSF assay; a T_m assay; a HIC assay; a CIC assay; or combinations thereof.
 5. An antibody comprising a CD3 binding domain, wherein said antibody displays a normalized developability score of between about 0.0 and about 0.6; between about 0.0 and about 0.57; between about 0.0 and about 0.55; between about 0.0 and about 0.53; between about 0.0 and about 0.51; between about 0.0 and about 0.49; between about 0.0 and about 0.47; between about 0.0 and about 0.45; between about 0.0 and about 0.43; between about 0.0 and about 0.41; between about 0.0 and about 0.39; between about 0.0 and about 0.37; between about 0.0 and about 0.35; between about 0.0 and about 0.33; between about 0.0 and about 0.31; between about 0.0 and about 0.29; between about 0.0 and about 0.27; between about 0.0 and about 0.25; between about 0.0 and about 0.23; between about 0.0 and about 0.21; between about 0.0 and about 0.19; between about 0.0 and about 0.17; between about 0.0 and about 0.15; between about 0.0 and about 0.13; between about 0.0 and about 0.11; between about 0.0 and about 0.09; between about 0.0 and about 0.07; or between about 0.0 and about 0.05.
 6. An antibody comprising a CD3 binding domain, wherein said antibody elicits T cell activation or T cell killing while displaying a decreased propensity to elicit cytokine production to levels capable of inducing cytokine release syndrome.
 7. An antibody comprising a CD3 binding domain, wherein said antibody elicits T cell activation or T cell killing while displaying a decreased propensity to elicit cytokine production to levels capable of inducing cytokine release relative to that observed one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

8. The antibody of Clause 6 or Clause 7, wherein the T cell activation, T cell killing, and/or cytokine production is assessed by performing a cell-based assay.
9. The antibody of Clause 8, wherein the T cell activation, T cell killing, and/or cytokine production is assessed by performing a T-cell activation assay, a T cell redirected target cell killing assay, and cytokine production level assay, wherein each assay comprises incubating PBMCs with the antibody.
10. The antibody of Clause 9, wherein the T cell redirected target cell killing assay further comprises incubating the PBMCs and the antibody with target cells expressing a target antigen other than CD3.
11. The antibody of any one of Clauses 6 through 10, wherein at least one cytokine for which cytokine production levels are measured is selected from the group consisting of: Interleukin 6 (IL-6); Interleukin 12 (IL-12); tumor necrosis factor alpha (TNFa); (TGFb); Interleukin-2 (IL-2); and Interferon gamma (IFNg).
12. The antibody of any one of Clauses 6 through 11, wherein IFNg production levels are measured.
13. The antibody of any one of Clauses 6 through 13, wherein the cytokine production levels constitute a cytokine release syndrome (CRS) risk profile.
14. The antibody of any one of Clauses 6 through 13 wherein the production levels constitute a cytokine release syndrome risk profile that is indicative of decreased risk of eliciting cytokine release syndrome (CRS).

15. The antibody of any one of Clauses 6 through 14 wherein the cytokine production levels constitute a cytokine release syndrome risk profile that is indicative of decreased risk of eliciting cytokine release syndrome (CRS) when compared to the cytokine release syndrome risk profile assessed for one or more of: trastuzumab; (Herceptin®), lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.
16. An antibody comprising a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH3 is not 100% identical to the CDRH3 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.
17. An antibody comprising a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH2 is not 100% identical to the CDRH2 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.
18. An antibody comprising a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to;

at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRH1 is not 100% identical to the CDRH1 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

19. An antibody comprising a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL3 selected from the group consisting of the CDRL3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRL3 is not 100% identical to the CDRL3 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

20. An antibody comprising a CDRL2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRL2 selected from the group consisting of the CDRL2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDRL2 is not 100% identical to the CDRL2 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

21. An antibody comprising a CDR1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDR1 selected from the group consisting of the CDR1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the CDR1 is not 100% identical to the CDR1 of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.
22. An antibody comprising a heavy chain (HC) that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; an HC selected from the group consisting of the HCs of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the HC is not 100% identical to the HC of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.
23. An antibody comprising a light chain (LC) that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; an LC selected from the group consisting of the LCs of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the LC is not 100% identical to the LC of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

24. An antibody comprising:
- A) a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;
- B) a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and
- C) a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; with the proviso that the neither the CDRH3, CDRH2, nor the CDRH1 is 100% identical to the CDRH3, CDRH2, or CDRH1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

25. An antibody comprising:
- A) a CDR3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDR3 selected from the group consisting of the CDR3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;
- B) a CDR2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDR2 selected from the group consisting of the CDR2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and
- C) a CDR1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDR1 selected from the group consisting of the CDR1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;
- with the proviso that the neither the CDR3, CDR2, nor the CDR1 is 100% identical to the CHL3, CDR2, or CDR1, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

26. An antibody comprising:
- A) a CDRH3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH3 selected from the group consisting of the CDRH3s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;
- B) a CDRH2 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH2 selected from the group consisting of the CDRH2s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;
- C) a CDRH1 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDRH1 selected from the group consisting of the CDRH1s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;
- D) a CDRL3 that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to;

at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDR_{L3} selected from the group consisting of the CDR_{L3}s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;

E) a CDR_{L2} that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDR_{L2} selected from the group consisting of the CDR_{L2}s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2; and

F) a CDR_{L1} that is: 100% identical to; at least 99% identical to; at least 98% identical to; at least 97% identical to; at least 96% identical to; at least 95% identical to; at least 94% identical to; at least 93% identical to; at least 92% identical to; at least 91% identical to; at least 90% identical to; at least 89% identical to; at least 88% identical to; at least 87% identical to; at least 86% identical to; at least 85% identical to; at least 84% identical to; at least 83% identical to; at least 82% identical to; or at least 80% identical to; a CDR_{L1} selected from the group consisting of the CDR_{L1}s of Mabs 1 through 21, 23 through 222, 224 through 363, and 371 through 405 as provided in Table 2;

with the proviso that the neither the CDR_{H3}, CDR_{H2}, CDR_{H1}, CDR_{L3}, CDH_{L2}, nor the CH_RL1 is 100% identical to the CH_RH3, CDR_{H2}, CDR_{H1}, CDR_{L3}, CDH_{L2}, or the CDR_{L1}, respectively, of any of Mabs 223, 364, 365, 366, 367, 368, 369, or 370 as provided in Table 2.

27. An antibody according to any one of Clauses 16 through 26, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain.

28. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-15512; ADI-15516; and ADI-16513; as provided in Table 2.
29. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-18562; ADI-18564; ADI-18565; ADI-18566; ADI-18567; ADI-18568; ADI-18570; ADI-18571; ADI-18572; ADI-18573; ADI-18563; ADI-18569; ADI-18574; ADI-18575; ADI-18576; ADI-18578; ADI-18579; ADI-18580; ADI-18581; ADI-18582; ADI-18584; ADI-18585; ADI-18577; ADI-18583; ADI-18588; ADI-18589; ADI-18590; ADI-18591; ADI-18593; ADI-18594; ADI-18595; ADI-18596; ADI-18597; ADI-18592; ADI-18587; ADI-18586; and; ADI-16606; as provided in Table 2.
30. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-18576; ADI-20820; ADI-20578; ADI-20571; ADI-21097; ADI-20577; ADI-20576; ADI-20568; ADI-20582; ADI-20575; ADI-20567; ADI-20574; ADI-20573; ADI-20579; ADI-18565; ADI-20818; ADI-20587; ADI-20588; ADI-20589; ADI-20590; ADI-20594; ADI-20596; ADI-20599; ADI-20605; ADI-20607; ADI-20608; and ADI-20609; as provided in Table 2.
31. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-16606; ADI-20587; ADI-20607; ADI-20590; ADI-28708; ADI-28709; ADI-28710; ADI-21943; ADI-28711; ADI-28712; ADI-28713; ADI-28714; ADI-28715; ADI-21944; ADI-28716; ADI-21945; ADI-21946; ADI-28717; ADI-21947; ADI-28718; ADI-28719; ADI-28720; ADI-28721; ADI-28722; ADI-28723; ADI-28724; ADI-28725; ADI-28726; ADI-28727; ADI-28728; ADI-28729; ADI-28730; ADI-28731; ADI-28732; ADI-28733; ADI-28734; ADI-28735; ADI-28736; ADI-28737; ADI-28738;

ADI-28739; ADI-28740; ADI-28741; ADI-28742; ADI-28743; ADI-21948; ADI-21949; ADI-28744; ADI-21950; ADI-28745; ADI-28746; ADI-28747; ADI-28748; ADI-21951; ADI-21952; ADI-28749; ADI-28750; ADI-28751; ADI-21953; ADI-28752; ADI-21954; ADI-28753; ADI-28754; ADI-28755; ADI-28756; ADI-28757; ADI-28758; ADI-28759; ADI-28760; ADI-28761; ADI-28762; ADI-28763; ADI-28764; ADI-28765; ADI-28766; ADI-28767; ADI-28768; ADI-21955; ADI-28769; ADI-28770; ADI-21956; ADI-28771; ADI-28772; ADI-28773; ADI-28774; and ADI-28775; as provided in Table 2.

32. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-21959; ADI-21963; ADI-21965; ADI-21967; ADI-21970; ADI-21971; ADI-21972; ADI-21973; ADI-21974; ADI-21975; ADI-21976; ADI-21977; ADI-21978; ADI-21979; ADI-21943; ADI-21944; ADI-21945; ADI-21946; ADI-21947; ADI-21948; ADI-21949; ADI-21950; ADI-21951; ADI-21952; ADI-21953; ADI-21954; ADI-21955; and ADI-21956; as provided in Table 2.

33. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-21952; ADI-22523; ADI-24403; ADI-24404; ADI-24405; ADI-24407; ADI-24408; ADI-24409; ADI-24410; ADI-24411; ADI-24412; ADI-24413; ADI-24414; ADI-24415; ADI-24416; ADI-24417; ADI-24418; ADI-24434; ADI-24435; ADI-24436; ADI-24437; ADI-24438; ADI-24439; ADI-24440; ADI-24441; ADI-24442; ADI-24443; ADI-24444; ADI-24445; ADI-24446; ADI-24449; ADI-24388; ADI-24389; ADI-24390; ADI-24391; ADI-24392; ADI-24393; ADI-24394; ADI-24395; ADI-24396; ADI-24397; ADI-24398; ADI-24399; ADI-24400; ADI-24401; ADI-24402; ADI-24419; ADI-24420; ADI-24421; ADI-24422; ADI-24423; ADI-24424; ADI-24425; ADI-24426; ADI-24427; ADI-24428; ADI-24429; ADI-24430; ADI-24431; ADI-24432; ADI-24433; ADI-24447; and ADI-24448; as provided in Table 2.

34. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-23652; ADI-23653; ADI-23654; ADI-23655; ADI-23656; ADI-23657; ADI-23658; ADI-23651; ADI-23644; ADI-23645; ADI-23646; ADI-23647; ADI-23648; ADI-23649; ADI-23650; ADI-23667; ADI-23668; ADI-23669; ADI-23670; ADI-23671; ADI-23672; ADI-23673; ADI-23659; ADI-23660; ADI-23661; ADI-23663; ADI-23664; ADI-23639; ADI-23641; ADI-23642; ADI-23640; ADI-23643; ADI-21952; ADI-23633; ADI-23634; ADI-23635; ADI-23636; ADI-23637; ADI-23638; ADI-23632; and ADI-23629; as provided in Table 2.
35. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26909; ADI-26910; ADI-26912; ADI-26913; ADI-26915; ADI-26916; ADI-26917; ADI-26918; ADI-26919; ADI-26920; ADI-26921; ADI-26924; ADI-26925; ADI-26927; ADI-26928; ADI-26929; ADI-26930; ADI-26932; ADI-26933; ADI-26938; ADI-26939; ADI-26940; ADI-26941; ADI-26942; ADI-26943; ADI-26944; ADI-26945; ADI-26950; ADI-26954; ADI-23672; ADI-23673; ADI-23664; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26968; ADI-26969; ADI-26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; ADI-26994; and ADI-26995; as provided in Table 2.
36. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26910; ADI-26913; ADI-26915; ADI-26919; ADI-26920; ADI-26921;

ADI-26943; ADI-26954; ADI-21952; ADI-26955; ADI-26956; ADI-26978; ADI-26983; and ADI-26994; as provided in Table 2.

37. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: ADI-15512; ADI-16513; ADI-15516; ADI-18565; ADI-18589; ADI-18585; ADI-18590; ADI-18576; ADI-20568; ADI-21978; ADI-20580; ADI-22523; ADI-25133; and ADI-26906.

38. An antibody according to any one of Clauses 16 through 27, wherein the antibody comprises an anti-cluster of differentiation three (CD3) binding domain that is selected from the group consisting of: ADI-16606; ADI-29601; ADI-29602; ADI-29603; ADI-20587; ADI-20607; ADI-20590; ADI-21952; ADI-23633; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26961; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26967; ADI-26968; ADI-26969; ADI-26970; ADI-26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; and ADI-26994.

39. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-15512; ADI-15516; and ADI-16513; as provided in Table 2.

40. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-18562; ADI-18564; ADI-18565; ADI-18566; ADI-18567; ADI-18568; ADI-18570; ADI-18571; ADI-18572; ADI-18573; ADI-18563; ADI-18569; ADI-18574;

ADI-18575; ADI-18576; ADI-18578; ADI-18579; ADI-18580; ADI-18581; ADI-18582; ADI-18584; ADI-18585; ADI-18577; ADI-18583; ADI-18588; ADI-18589; ADI-18590; ADI-18591; ADI-18593; ADI-18594; ADI-18595; ADI-18596; ADI-18597; ADI-18592; ADI-18587; ADI-18586; and; ADI-16606; as provided in Table 2.

41. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-18576; ADI-20820; ADI-20578; ADI-20571; ADI-21097; ADI-20577; ADI-20576; ADI-20568; ADI-20582; ADI-20575; ADI-20567; ADI-20574; ADI-20573; ADI-20579; ADI-18565; ADI-20818; ADI-20587; ADI-20588; ADI-20589; ADI-20590; ADI-20594; ADI-20596; ADI-20599; ADI-20605; ADI-20607; ADI-20608; and ADI-20609; as provided in Table 2.

42. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-16606; ADI-20587; ADI-20607; ADI-20590; ADI-28708; ADI-28709; ADI-28710; ADI-21943; ADI-28711; ADI-28712; ADI-28713; ADI-28714; ADI-28715; ADI-21944; ADI-28716; ADI-21945; ADI-21946; ADI-28717; ADI-21947; ADI-28718; ADI-28719; ADI-28720; ADI-28721; ADI-28722; ADI-28723; ADI-28724; ADI-28725; ADI-28726; ADI-28727; ADI-28728; ADI-28729; ADI-28730; ADI-28731; ADI-28732; ADI-28733; ADI-28734; ADI-28735; ADI-28736; ADI-28737; ADI-28738; ADI-28739; ADI-28740; ADI-28741; ADI-28742; ADI-28743; ADI-21948; ADI-21949; ADI-28744; ADI-21950; ADI-28745; ADI-28746; ADI-28747; ADI-28748; ADI-21951; ADI-21952; ADI-28749; ADI-28750; ADI-28751; ADI-21953; ADI-28752; ADI-21954; ADI-28753; ADI-28754; ADI-28755; ADI-28756; ADI-28757; ADI-28758; ADI-28759; ADI-28760; ADI-28761; ADI-28762; ADI-28763; ADI-28764; ADI-28765; ADI-28766; ADI-28767; ADI-28768; ADI-21955; ADI-28769; ADI-28770; ADI-21956; ADI-28771; ADI-28772; ADI-28773; ADI-28774; and ADI-28775; as provided in Table 2.

43. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-21959; ADI-21963; ADI-21965; ADI-21967; ADI-21970; ADI-21971; ADI-21972; ADI-21973; ADI-21974; ADI-21975; ADI-21976; ADI-21977; ADI-21978; ADI-21979; ADI-21943; ADI-21944; ADI-21945; ADI-21946; ADI-21947; ADI-21948; ADI-21949; ADI-21950; ADI-21951; ADI-21952; ADI-21953; ADI-21954; ADI-21955; and ADI-21956; as provided in Table 2.
44. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-21952; ADI-22523; ADI-24403; ADI-24404; ADI-24405; ADI-24407; ADI-24408; ADI-24409; ADI-24410; ADI-24411; ADI-24412; ADI-24413; ADI-24414; ADI-24415; ADI-24416; ADI-24417; ADI-24418; ADI-24434; ADI-24435; ADI-24436; ADI-24437; ADI-24438; ADI-24439; ADI-24440; ADI-24441; ADI-24442; ADI-24443; ADI-24444; ADI-24445; ADI-24446; ADI-24449; ADI-24388; ADI-24389; ADI-24390; ADI-24391; ADI-24392; ADI-24393; ADI-24394; ADI-24395; ADI-24396; ADI-24397; ADI-24398; ADI-24399; ADI-24400; ADI-24401; ADI-24402; ADI-24419; ADI-24420; ADI-24421; ADI-24422; ADI-24423; ADI-24424; ADI-24425; ADI-24426; ADI-24427; ADI-24428; ADI-24429; ADI-24430; ADI-24431; ADI-24432; ADI-24433; ADI-24447; and ADI-24448; as provided in Table 2.
45. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-23652; ADI-23653; ADI-23654; ADI-23655; ADI-23656; ADI-23657; ADI-23658; ADI-23651; ADI-23644; ADI-23645; ADI-23646; ADI-23647; ADI-23648; ADI-23649; ADI-23650; ADI-23667; ADI-23668; ADI-23669; ADI-23670; ADI-23671; ADI-23672; ADI-23673; ADI-23659; ADI-23660; ADI-23661; ADI-23663; ADI-23664; ADI-23639; ADI-23641; ADI-23642; ADI-23640; ADI-23643; ADI-21952; ADI-23633; ADI-23634; ADI-23635; ADI-23636; ADI-23637; ADI-23638; ADI-23632; and ADI-23629; as provided in Table 2.

46. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26909; ADI-26910; ADI-26912; ADI-26913; ADI-26915; ADI-26916; ADI-26917; ADI-26918; ADI-26919; ADI-26920; ADI-26921; ADI-26924; ADI-26925; ADI-26927; ADI-26928; ADI-26929; ADI-26930; ADI-26932; ADI-26933; ADI-26938; ADI-26939; ADI-26940; ADI-26941; ADI-26942; ADI-26943; ADI-26944; ADI-26945; ADI-26950; ADI-26954; ADI-23672; ADI-23673; ADI-23664; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26968; ADI-26969; ADI-26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; ADI-26994; and ADI-26995; as provided in Table 2.
47. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: the CD3 binding domains of ADI-22523; ADI-26906; ADI-26907; ADI-26908; ADI-26910; ADI-26913; ADI-26915; ADI-26919; ADI-26920; ADI-26921; ADI-26943; ADI-26954; ADI-21952; ADI-26955; ADI-26956; ADI-26962; ADI-26978; ADI-26983; and ADI-26994; as provided in Table 2.
48. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: ADI-15512; ADI-16513; ADI-15516; ADI-18565; ADI-18589; ADI-18585; ADI-18590; ADI-18576; ADI-20568; ADI-20580; ADI-21978; ADI-22523; ADI-25133; and ADI-26906.
49. An antibody comprising an anti-cluster of differentiation three (CD3) binding domain, wherein said CD3 binding domain is selected from the group consisting of: ADI-16606; ADI-29601; ADI-29602; ADI-29603; ADI-20587; ADI-20607;

ADI-20590; ADI-21952; ADI-23633; ADI-26955; ADI-26956; ADI-26957; ADI-26958; ADI-26959; ADI-26960; ADI-26961; ADI-26962; ADI-26963; ADI-26964; ADI-26965; ADI-26966; ADI-26967; ADI-26968; ADI-26969; ADI-26970; ADI-26971; ADI-26972; ADI-26973; ADI-26974; ADI-26975; ADI-26976; ADI-26977; ADI-26978; ADI-26979; ADI-26980; ADI-26981; ADI-26982; ADI-26983; ADI-26984; ADI-26985; ADI-26986; ADI-26987; ADI-26988; ADI-26989; ADI-26990; ADI-26991; ADI-26992; ADI-26993; and ADI-26994.

50. An antibody according to any one of Clauses 1 through 49, wherein the antibody displays a decreased propensity for degradation relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

51. An antibody according to any one of Clauses 16 through 49, wherein the antibody displays a decreased CRS risk profile relative to one or more of: trastuzumab; (Herceptin®); lintuzumab; blinatumomab (Blincyto®); and Mab 364, Mab 366, Mab 367, Mab 368, Mab 369, Mab 370, or Mab 22, as provided in Table 2.

52. An antibody according to any one of Clauses 1 through 51, wherein the antibody comprises a multispecific antibody.

53. An antibody according to any one of Clauses 1 through 52, wherein the antibody comprises a bispecific antibody.

54. An antibody according to any one of Clauses 1 through 53, wherein the antibody comprises at least a second antigen binding domain that specifically binds to an oncology target; an immune-oncology target; a neurodegenerative disease targets; an autoimmune disorder target; an infectious disease target; a metabolic disease target; a cognitive disorder target; a blood-brain barrier target; or a blood disease target.

55. An antibody according to any one of Clauses 1 through 54, wherein the antibody comprises at least a second antigen binding domain that specifically binds to an antigen selected from the group consisting of: 17-IA, 4-1BB, 4Dc, 6- keto-PGF1a, 8-iso-PGF2a, 8-oxo-dG, Al Adenosine Receptor, A33, ACE, ACE-2, Activin, Activin A, Activin AB, Activin B, Activin C, Activin RIA, Activin RIA ALK-2, Activin RIB ALK-4, Activin RIIA, Activin RUB, ADAM, ADAMI0, ADAMI2, ADAMI5, ADAMI7/TACE, ADAM8, ADAM9, ADAMTS, ADAMTS4, ADAMTS5, Addressins, aFGF, ALCAM, ALK, ALK-1, ALK-7, alpha-1-antitrypsin, alpha-V/beta-1 antagonist, ANG, Ang, APAF-1, APE, API, APP, APRIL, AR, ARC, ART, Artemin, anti-Id, ASPARTIC, Atrial natriuretic factor, av/b3 integrin, Axl, b2M, B7-1, B7-2, B7-H, B-lymphocyte Stimulator (BlyS), BACE, BACE-1, Bad, BAFF, BAFF-R, Bag-1, BAK, Bax, BCA-1, BCAM, Bel, BCMA, BDNF, b-ECGF, bFGF, BID, Bik, BIM, BLC, BL-CAM, BLK, BMP, BMP-2 BMP-2a, BMP-3 Osteogenin, BMP-4 BMP-2b, BMP-5, BMP-6 Vgr-1, BMP-7 (OP-1), BMP-8 (BMP-8a, OP-2), BMPR, BMPR-IA (ALK-3), BMPR-IB (ALK-6), BRK-2, RPK-1, BMPR-II (BRK-3), BMPs, b-NGF, BOK, Bombesin, Bone-derived neurotrophic factor, BPDE, BPDE-DNA, BTC, complement factor 3 (C3), C3a, C4, C5, C5a, CIO, CA125, CAD-8, Calcitonin, cAMP, carcinoembryonic antigen (CEA), carcino-associated antigen, Cathepsin A, Cathepsin B, Cathepsin C/DPPI, Cathepsin D, Cathepsin E, Cathepsin H, Cathepsin L, Cathepsin O, Cathepsin S, Cathepsin V, Cathepsin X/Z/P, CBL, CCL, CCK2, CCL, CCL1, CCL11, CCL12, CCL13, CCL14, CCL15, CCL16, CCL17, CCL18, CCL19, CCL2, CCL20, CCL21, CCL22, CCL23, CCL24, CCL25, CCL26, CCL27, CCL28, CCL3, CCL4, CCL5, CCL6, CCL7, CCL8, CCL9/10, CCR, CCR1, CCR10, CCR2, CCR3, CCR4, CCR5, CCR6, CCR7, CCR8, CCR9, CD1, CD2, CD4, CD5, CD6, CD7, CD8, CD10, CD11a, CD11b, CD11c, CD13, CD14, CD15, CD16, CD18, CD19, CD20, CD21, CD22, CD23, CD25, CD27L, CD28, CD29, CD30, CD30L, CD32, CD33 (p67 proteins), CD34, CD38, CD40, CD40L, CD44, CD45, CD46, CD49a, CD52, CD54, CD55, CD56, CD61, CD64, CD66e, CD74, CD80 (B7-1), CD89, CD95, CD123, CD137, CD138, CD140a, CD146, CD147, CD148, CD152, CD164, CEACAM5, CFTR, cGMP, CINC, Clostridium botulinum toxin, Clostridium perfringens toxin, CKb8-1, CLC, CMV, CMV UL, CNTF, CNTN-1, COX, C-Ret, CRG-2, CT-1, CTACK, CTGF, CTLA-4, CX3CL1, CX3CR1, CXCL, CXCL1, CXCL2, CXCL3, CXCL4, CXCL5, CXCL6, CXCL7, CXCL8, CXCL9,

CXCL10, CXCL11, CXCL12, CXCL13, CXCL14, CXCL15, CXCL16, CXCR, CXCR1, CXCR2, CXCR3, CXCR4, CXCR5, CXCR6, cytokeratin tumor-associated antigen, DAN, DCC, DcR3, DC-SIGN, Decay accelerating factor, des(1-3)-IGF-I (brain IGF-1), Dhx, digoxin, DNAM-1, Dnase, Dpp, DPPIV/CD26, Dtk, ECAD, EDA, EDA-A1, EDA-A2, EDAR, EGF, EGFR (ErbB-1), EMA, EMMPRIN, EN A, endothelin receptor, Enkephalinase, eNOS, Eot, eotaxinl, EpCAM, Ephrin B2/ EphB4, EPO, ERCC, E-selectin, ET-1, Factor IIa, Factor VII, Factor VIIIc, Factor IX, fibroblast activation protein (FAP), Fas, FcRI, FEN-1, Ferritin, FGF, FGF-19, FGF-2, FGF3, FGF-8, FGFR, FGFR-3, Fibrin, FL, FLIP, Flt-3, Flt-4, Follicle stimulating hormone, Fractalkine, FZD1, FZD2, FZD3, FZD4, FZD5, FZD6, FZD7, FZD8, FZD9, FZD10, G250, Gas 6, GCP-2, GCSF, GD2, GD3, GDF, GDF-1, GDF-3 (Vgr-2), GDF-5 (BMP-14, CDMP-1), GDF-6 (BMP-13, CDMP-2), GDF-7 (BMP-12, CDMP-3), GDF-8 (Myostatin), GDF-9, GDF-15 (MIC-1), GDNF, GFAP, GFRA-1, GFR-alpha1, GFR-alpha2, GFR-alpha3, GITR, Glucagon, Glut 4, glycoprotein IIb/IIIa (GP IIb/IIIa), GM-CSF, gpl30, gp72, GRO, Growth hormone releasing factor, Hapten (NP-cap or NIP-cap), HB-EGF, HCC, HCMV gB envelope glycoprotein, HCMV) gH envelope glycoprotein, HCMV UL, Hemopoietic growth factor (HGF), Hep B gpl20, heparanase, Her2, Her2/neu (ErbB-2), Her3 (ErbB-3), Her4 (ErbB-4), herpes simplex virus (HSV) gB glycoprotein, HSV gD glycoprotein, HGFA, High molecular weight melanoma-associated antigen (HMW-MAA), HIV gpl20, HIV IIIB gp 120 V3 loop, HLA, HLA-DR, HMI.24, HMFG PEM, HRG, HrK, human cardiac myosin, human cytomegalovirus (HCMV), human growth hormone (HGH), HVEM, 1-309, IAP, ICAM, ICAM-1, ICAM-3, ICE, ICOS, IFNg, Ig, IgA receptor, IgE, IGF, IGF binding proteins, IGF-IR, IGFBP, IGF-I, IGF-II, IL, IL-1, IL-1R, IL-2, IL-2R, IL-4, IL-4R, IL-5, IL-5R, IL-6, IL-6R, IL-8, IL-9, IL-10, IL-12, IL-13, IL-15, IL-18, IL-18R, IL-23, interferon (INF)-alpha, INF-beta, INF-gamma, Inhibin, iNOS, Insulin A-chain, Insulin B-chain, Insulin-like growth factor 1, integrin alpha2, integrin alpha3, integrin alpha4, integrin alpha4/betal, integrin, alpha4/beta7, integrin alpha5 (alphaV), integrin alpha5/betal, integrin alpha5/beta3, integrin alpha6, integrin betal, integrin beta2, interferon gamma, IP-10, 1-TAC, JE, Kallikrein 2, Kallikrein 5, Kallikrein 6, , Kallikrein 11, Kallikrein 12, Kallikrein 14, Kallikrein 15, Kallikrein LI, Kallikrein L2, Kallikrein L3, Kallikrein L4, KC, KDR, Keratinocyte Growth Factor (KGF), laminin 5, LAMP, LAP, LAP (TGF-1), Latent

TGF-1, Latent TGF-1 bpl, LBP, LDGF, LECT2, Lefty, Lewis-Y antigen, Lewis-Y related antigen, LFA-1, LFA-3, Lfo, LIF, LIGHT, lipoproteins, LIX, LKN, Lptn, L-Selectin, LT-a, LT-b, LTBP-1, LTB4, LTBP-1, Lung surfactant, Luteinizing hormone, Lymphotoxin Beta Receptor, Mac-1, MAdCAM, MAG, MAP2, MARC, MCAM, MCK-2, MCP, M-CSF, MDC, Mer, METALLOPROTEASES, MGDf receptor, MGMT, MHC (HLA-DR), MIF, MIG, MIP, MIP-1-alpha, MK, MMAC1, MMP, MMP-1, MMP-10, MMP-11, MMP-12, MMP-13, MMP-14, MMP-15, MMP-2, MMP-24, MMP-3, MMP-7, MMP-8, MMP-9, MPIF, Mpo, MSK, MSP, mucin (Muc1), MUC18, Muellierian-inhibiting substance, Mug, MuSK, NAIP, NAP, NCAD, N-Cadherin, NCA 90, NCAM, NCAM, Neprilysin, Neurotrophin-3, -4, or -6, Neurturin, Neuronal growth factor (NGF), NGFR, NGF-beta, nNOS, NO, NOS, Npn, NRG-3, NT, NTN, OB, OGG1, OPG, OPN, OSM, OX40L, OX40R, p150, p95, PADPr, Parathyroid hormone, PARC, PARP, PBR, PBSF, PCAD, P-Cadherin, PCNA, PDGF, PDGF, PDK-1, PECAM, PEM, PF4, PGE, PGF, PGI2, PIN, PLA2, placental alkaline phosphatase (PLAP), P1GF, PLP, PP14, Proinsulin, Prorelaxin, Protein C, PS, PSA, PSCA, prostate specific membrane antigen (PSMA), PTEN, PTHrp, Ptk, PTN, R51, RANK, RANKL, RANTES, Relaxin A-chain, Relaxin B-chain, renin, respiratory syncytial virus (RSV) F, RSV Fgp, Ret, Rheumatoid factors, RLIP76, RPA2, RSK, S100, SCF/KL, SDF-1, SERINE, Serum albumin, sFRP-3, Shh, SIGIRR, SK-1, SLAM, SLPI, SMAC, SMDF, SMOH, SOD, SPARC, Stat, STEAP, STEAP-II, TACE, TACI, TAG-72 (tumor-associated glycoprotein-72), TARC, TCA-3, T-cell receptors (e.g., T-cell receptor alpha/beta), TdT, TECK, TEM1, TEM5, TEM7, TEM8, TERT, testicular PLAP-like alkaline phosphatase, Tfr, TGF, TGF-alpha, TGF-beta, TGF-beta Pan Specific, TGF-beta RI (ALK-5), TGF-beta RII, TGF-beta RIII, TGF-betaI, TGF-beta2, TGF-beta3, TGF-beta4, TGF-beta5, Thrombin, Thymus Ck-1, Thyroid stimulating hormone, Tie, TIMP, TIQ, Tissue Factor, TMEFF2, Tmpo, TMPRSS2, TNF, TNF-alpha, TNF-alpha beta, TNF-beta2, TNFc, TNF-RI, TNF-RII, TNFRSF10A (TRAIL R1 Apo-2, DR4), TNFRSF10B (TRAIL R2 DR5, KILLER, TRICK-2A, TRICK-B), TNFRSF10C (TRAIL R3 DcR1, LIT, TRID), TNFRSF10D (TRAIL R4 DcR2, TRUNDD), TNFRSF11A (RANK ODF R, TRANCE R), TNFRSF11B (OPG OCIF, TR1), TNFRSF12 (TWEAK R FN14), TNFRSF13B (TACI), TNFRSF13C (BAFF R), TNFRSF14 (HVEM ATAR, HveA, LIGHT R, TR2), TNFRSF16 (NGFR p75NTR), TNFRSF17 (BCMA),

TNFRSF18 (GITR AITR), TNFRSF19 (TROY TAJ, TRADE), TNFRSF19L (RELT), TNFRSF1A (TNF RI CD120a, p55-60), TNFRSF1B (TNF RII CD120b, p75-80), TNFRSF26 (TNFRH3), TNFRSF3 (LTbR TNF RIII, TNFC R), TNFRSF4 (OX40 ACT35, TXGP1 R), TNFRSF5 (CD40 p50), TNFRSF6 (Fas Apo-1, APT1, CD95), TNFRSF6B (DcR3 M68, TR6), TNFRSF7 (CD27), TNFRSF8 (CD30), TNFRSF9 (4-1BB CD137, ILA), TNFRSF21 (DR6), TNFRSF22 (DcTRAIL R2 TNFRH2), TNFRST23 (DcTRAIL RI TNFRH1), TNFRSF25 (DR3 Apo-3, LARD, TR-3, TRAMP, WSL-1), TNFSF10 (TRAIL Apo-2 Ligand, TL2), TNFSF11 (TRANSC/RANK Ligand ODF, OPG Ligand), TNFSF12 (TWEAK Apo-3 Ligand, DR3 Ligand), TNFSF13 (APRIL TALL2), TNFSF13B (BAFF BLYS, TALL1, THANK, TNFSF20), TNFSF14 (LIGHT HVEM Ligand, LTg), TNFSF15 (TL1A/VEG), TNFSF18 (GITR Ligand AITR Ligand, TL6), TNFSF1A (TNF-a Conectin, DIF, TNFSF2), TNFSF1B (TNF-b LTa, TNFSF1), TNFSF3 (LTb TNFC, p33), TNFSF4 (OX40 Ligand gp34, TXGP1), TNFSF5 (CD40 Ligand CD154, gp39, HIGM1, IMD3, TRAP), TNFSF6 (Fas Ligand Apo-1 Ligand, APT1 Ligand), TNFSF7 (CD27 Ligand CD70), TNFSF8 (CD30 Ligand CD153), TNFSF9 (4-1BB Ligand CD137 Ligand), TP-1, t-PA, Tpo, TRAIL, TRAIL R, TRAIL-R1, TRAIL-R2, TRANCE, transferring receptor, TRF, Trk, TROP-2, TSG, TSLP, tumor-associated antigen CA 125, tumor-associated antigen expressing Lewis Y related carbohydrate, TWEAK, TXB2, Ung, uPAR, uPAR-1, Urokinase, VCAM, VCAM-1, VECAD, VE-Cadherin, VE-cadherin-2, VEGFR-1 (flt-1), VEGF, VEGFR, VEGFR-3 (flt-4), VEGI, VIM, Viral antigens, VLA, VLA-1, VLA-4, VNR integrin, von Willebrands factor, WIF- 1, WNT1, WNT2, WNT2B/13, WNT3, WNT3A, WNT4, WNT5A, WNT5B, WNT6, WNT7A, WNT7B, WNT8A, WNT8B, WNT9A, WNT9B, WNT9A, WNT10A, WNT10B, WNT11, WNT16, XCL1, XCL2, XCR1, XCR1, XEDAR, XIAP, XPD, CTLA4 (cytotoxic T lymphocyte antigen-4), PD1 (programmed cell death protein 1), PD-L1 (programmed cell death ligand 1), LAG-3 (lymphocyte activation gene-3), TIM-3 (T cell immunoglobulin and mucin protein-3), receptors for hormones, and growth factors.

56. An antibody according to any one of Clauses 1 through 55, wherein the antibody comprises at least a second antigen binding domain that specifically binds to an antigen selected from the group consisting of: BCMA, CTLA4 (cytotoxic T

lymphocyte antigen-4), PD1 (programmed cell death protein 1), PD-L1 (programmed cell death ligand 1), LAG-3 (lymphocyte activation gene-3), TIM-3, CD20, CD2, CD19, Her2, EGFR, EpCAM, FcγRIIIa (CD16), FcγRIIa (CD32a), FcγRIIb (CD32b), FcγRI (CD64), Toll-like receptors (TLRs), TLR4, TLR9, cytokines, IL-2, IL-5, IL-13, IL-6, IL-17, IL-12, IL-23, TNFα, TGFβ, cytokine receptors, IL-2R, chemokines, chemokine receptors, growth factors, VEGF, and HGF.

57. An antibody according to any one of Clauses 1 through 56, wherein the antibody comprises at least a second antigen binding domain that specifically binds to an antigen, wherein said antibody comprises a multispecific format selected from the group consisting of: Fab-Fc-scFv, “bottle-opener, Mab-scFv, Mab-Fv, Dual scFv, central Fv, central scFv, one-arm central scFv, Fab-Fab, Fab-Fv, mAb-Fv, mAb-Fab, DART, BiTE, common light chain-IgG, TandAb, Cross-Mab, SEED, BEAT, TrioMab, and DuetMab.
58. An isolated nucleic acid sequence encoding an antibody according to any one of Clauses 1 through 57.
59. An expression vector comprising the isolated nucleic acid sequence according to Clause 58.
60. A host cell transfected, transformed, or transduced with a nucleic acid sequence according to Clause 58 or an expression vector according to Clause 59.
61. A pharmaceutical composition comprising: one or more of an antibody according to any one of Clauses 1 through 57; and a pharmaceutically acceptable carrier and/or excipient.
62. A pharmaceutical composition comprising: one or more nucleic acid sequences according to Clause 58; or one or more the expression vectors according to Clause 59; and a pharmaceutically acceptable carrier and/or excipient.

63. A method of treating or delaying the progression of a disorder in a mammal in need of such treating, the method comprising administering one or more antibodies according to any one of Clauses 1 through 57, wherein the disorder is decreased or ameliorated as a result of said administering.
64. A method of preventing or decreasing risk of developing a disorder in a mammal by administering an antibody according to any one of Clauses 1 through 57, wherein the disorder is prevented as a result of said administering.
65. A method of treating a disorder in a mammal in need of such treating, wherein the disorder comprises a proliferative disorder, an oncological disorder, an immuno-oncological disorder, a neurological disorder, a neurodegenerative disorder, or an autoimmune disorder, comprising administering one or more antibodies according to any one of Clauses 1 through 57, wherein the disorder is decreased or ameliorated as a result of said administering.
66. The method according to any one of Clauses 63 through 65, wherein the method further comprises administering to the mammal an additional therapeutic agent.
67. The method according to any one of Clauses 63 through 66, wherein the mammal is a human.
68. A heterodimeric CD3 fusion protein comprising: a first polypeptide chain comprising a CD3 epsilon polypeptide fused to a first Fc region; and a second polypeptide chain comprising CD3 delta polypeptide fused to a second Fc region.
69. The heterodimeric CD3 fusion protein according to Clause 68, wherein the CD3 epsilon polypeptide comprises a human CD3 epsilon polypeptide and the CD3 delta polypeptide comprises a human CD3 delta polypeptide.

70. The heterodimeric CD3 fusion protein according to Clause 68, wherein the CD3 epsilon polypeptide is a human CD3 epsilon polypeptide and the CD3 delta polypeptide is a human CD3 delta polypeptide.
71. The heterodimeric CD3 fusion protein according to Clause 69, wherein the CD3 epsilon polypeptide comprises a cynomolgus CD3 epsilon polypeptide and the CD3 delta polypeptide comprises a cyno CD3 delta polypeptide.
72. The heterodimeric CD3 fusion protein according to Clause 69, wherein the CD3 epsilon polypeptide is a cynomolgus CD3 epsilon polypeptide and the CD3 delta polypeptide is a cyno CD3 delta polypeptide.
73. The heterodimeric fusion protein according to any one of Clauses 68 through 70, wherein the first polypeptide chain comprises the following amino acid sequence:

QDQNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQHNDKNIGGDEDDKNIGSDEEDHLSLKEFSELEQSGYYVCYP
 RGSKPEDANFYLYLRARVCENCMEMDGGSDKTHTCPPCPAPELLGGPSVFLFPPKPKDLMISRTPVTCVVVDVVSHE
 DPEVKFNWYVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE
 PQVYITLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFP
 SCSVMHEALHNHYTQKLSLSPGK;

and the second polypeptide chain comprises the following amino acid sequence:

FKPIEELDRVFN CNTSITWVEGTVGTL LSDITRLDLGKRILDPRIYRCNGTDIYKDKESTVQVHYRMCQSCVELDGG
 GSDKTHTCPPCPAPELLGGPSVFLFPPKPKDLMISRTPVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY
 ASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYITLPPSRDELTKNQVSLTCLVKGFYF
 SDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSVCSVMHEALHNHYTQKLSLSPGK.

74. The heterodimeric fusion protein according to any one of Clauses 68, 71, and 72, wherein the first polypeptide chain comprises the following amino acid sequence:

QDGN EEMGSITQTPYQVSI SGTTVL TCSQHLGSEAQWQHNGKNKEDSGDRLFLPEFSEMEQSGYYVCYPRGSNPEDA
 SHHL YLKARVCENCMEMDGGSDKTHTCPPCPAPELLGGPSVFLFPPKPKD TLMISRTPETCVVVDVSHEDPEVKFN
 WYVVDGVEVHNAKTKPREEQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK TISKAKGQPREPQVY TLP
 PSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYK TTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMH
 EALHNHYTQKSLSPGK;

and the second polypeptide chain comprises the following amino acid sequence:

FKIPVEELED R VFVKCNTSVTWVEGTVGTLLTNNTRL DLGKRILDPRGIYRCNGTDIYKDKESAVQVHYRMCQNCVE
 LDPGSDKTHTCPPCPAPELLGGPSVFLFPPKPKD TLMISRTPETCVVVDVSHEDPEVKFNWYVVDGVEVHNAKTKPRE
 EQYASTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK TISKAKGQPREPQVY TLPSPRDELTKNQVSLTCLVK
 GFYPSDIAVEWESNGQPENNYK TTPVLDSDGSFFLYSKLTVDKSRWQQGNV FSCSVMEALHNHYTQKSLSPGK.

- 75. An antibody or antigen-binding polypeptide comprising a CDRH1 comprising an amino acid sequence of FNIKDY YMH (SEQ ID NO: 6720), YFTSYTH (SEQ ID NO: 6721), or FTFX₁TYAMN (SEQ ID NO: 6722), wherein X₁ is any amino acid.
- 76. The antibody or antigen-binding polypeptide according to Clause 75, wherein X₁ is N or D.
- 77. An antibody or antigen-binding polypeptide comprising a CDRH2 comprising an amino acid sequence of WIDLENX₁NTX₂YDX₃KFOG (SEQ ID NO: 6723), wherein X₁, X₂, and X₃ independently are any amino acid.
- 78. The antibody or antigen-binding polypeptide according to Clause 77, wherein X₁ is not G.
- 79. The antibody or antigen binding polypeptide of any of Clauses 77-78, wherein X₂ is V or I.
- 80. The antibody or antigen binding polypeptide of any of Clauses 77-79, wherein X₃ is not G.

81. An antibody or antigen-binding polypeptide comprising a CDRH3 comprising an amino acid sequence of X₁QSYSX₂RT (SEQ ID NO: 6724) or X₃RDX₄YGX₅YFYDV (SEQ ID NO: 6725), wherein X₁, X₂, X₃, X₄, and X₅ are independently any amino acid.
82. The antibody or antigen-binding polypeptide of Clause 81, wherein X₁ is K or T.
83. The antibody or antigen-binding polypeptide of Clause 81, wherein X₁ is T.
84. The antibody or antigen-binding polypeptide of any of Clauses 81-83, wherein X₂ is R or L.
85. The antibody or antigen-binding polypeptide of any of Clauses 81-83, wherein X₃ is A or G.
86. The antibody or antigen-binding polypeptide of any of Clause 81-83, wherein X₄ is not G.
87. The antibody or antigen-binding polypeptide of any of Clauses 81-86, wherein X₅ is R, A, G, or L.
88. An antibody or antigen-binding polypeptide comprising a CDR_L1 comprising an amino acid sequence of X₁KSSQX₂LLX₃X₄RTGKX₅YLA (SEQ ID NO: 6726), wherein X₁, X₂, X₃, X₄, and X₅ independently are any amino acid.
89. The antibody or antigen-binding polypeptide according to Clause 88, wherein X₁ is K or R.
90. The antibody or antigen-binding polypeptide according to Clause 88, wherein X₂ is S or N.
91. The antibody or antigen-binding polypeptide according to Clause 88, wherein X₃ is E or N.
92. The antibody or antigen-binding polypeptide according to Clause 88, wherein X₄ is A or S.
93. The antibody or antigen-binding polypeptide according to Clause 88, wherein X₅ is N or S.
94. An antibody or antigen-binding polypeptide comprising a CDR_L2 comprising an amino acid sequence of WASTRES (SEQ ID NO: 6727) or GTX₁KRAP (SEQ ID NO: 6728), wherein X₁ is any amino acid.
95. The antibody or antigen-binding polypeptide according to Clause 94, wherein X₁ is N or D.
96. An antibody or antigen-binding polypeptide comprising a CDR_L3 comprising an amino acid sequence of KQSYSX₁RT (SEQ ID NO: 6729), wherein X₁ is any amino acid.
97. The antibody or antigen-binding polypeptide according to Clause 96, wherein X₁ is R.

98. The antibody or antigen binding polypeptide according to Clause 96, wherein X_1 is L or I.
99. An antibody or antigen binding polypeptide comprising one or more of a CDRH1 according to any of Clauses 75-76, a CDRH2 according to any of Clauses 77-81, and a CDRH3 according to any of Clauses 84-90.
100. An antibody or antigen-binding polypeptide comprising one or more of a CDRL1 according to any of Clauses 88-91, a CDRL2 according to any of Clauses 94-95, and a CDRL3 according to any of Clauses 96-98.
101. An antibody or antigen-binding polypeptide comprising a CDRH1 according to any of Clauses 75-76, a CDRH2 according to any of Clauses 77-81, a CDRH3 according to any of Clauses 84-90, and a CDRL1 according to any of Clauses 88-91, a CDRL2 according to any of Clauses 94-95, and a CDRL3 according to any of Clauses 96-98.

CLAIMS

What Is Claimed Is:

1. An antibody or antigen-binding polypeptide comprising a CDRH1 comprising an amino acid sequence of FNIKDYMH (SEQ ID NO: 6720), YTFSTYTIH (SEQ ID NO: 6721), or FTFX₁TYAMN (SEQ ID NO: 6722), wherein X₁ is any amino acid.
2. The antibody or antigen-binding polypeptide according to Claim 1, wherein X₁ is N or D.
3. An antibody or antigen-binding polypeptide comprising a CDRH2 comprising an amino acid sequence of WIDLENX₁NTX₂YDX₃KFOG (SEQ ID NO: 6723), wherein X₁, X₂, and X₃ independently are any amino acid.
4. The antibody or antigen-binding polypeptide according to Claim 3, wherein X₁ is not G.
5. The antibody or antigen binding polypeptide of any of Claims 3-4, wherein X₂ is V or I.
6. The antibody or antigen binding polypeptide of any of Claims 3-5, wherein X₃ is not G.
7. An antibody or antigen-binding polypeptide comprising a CDRH3 comprising an amino acid sequence of X₁QSYX₂RT (SEQ ID NO: 6724) or X₃RDX₄YGX₅YFYDV (SEQ ID NO: 6725), wherein X₁, X₂, X₃, X₄, and X₅ are independently are any amino acid.
8. The antibody or antigen-binding polypeptide of Claim 7, wherein X₁ is K or T.
9. The antibody or antigen-binding polypeptide of Claim 7, wherein X₁ is T.
10. The antibody or antigen-binding polypeptide of any of Claims 7-9, wherein X₂ is R or L.
11. The antibody or antigen-binding polypeptide of any of Claims 7-9, wherein X₃ is A or G.
12. The antibody or antigen-binding polypeptide of any of Claim 7-11, wherein X₄ is not G.

13. The antibody or antigen-binding polypeptide of any of Claims 7-12, wherein X₅ is R, A, G, or L.
14. An antibody or antigen-binding polypeptide comprising a CDRL1 comprising an amino acid sequence of X₁KSSQX₂LLX₃X₄RTGKX₅YLA (SEQ ID NO: 6726), wherein X₁, X₂, X₃, X₄, and X₅ independently are any amino acid.
15. The antibody or antigen-binding polypeptide according to Claim 14, wherein X₁ is K or R.
16. The antibody or antigen-binding polypeptide according to Claim 14, wherein X₂ is S or N.
17. The antibody or antigen-binding polypeptide according to Claim 14, wherein X₃ is E or N.
18. The antibody or antigen-binding polypeptide according to Claim 14, wherein X₄ is A or S.
19. The antibody or antigen-binding polypeptide according to Claim 14, wherein X₅ is N or S.
20. An antibody or antigen-binding polypeptide comprising a CDRL2 comprising an amino acid sequence of WASTRES (SEQ ID NO: 6727) or GTX₁KRAP (SEQ ID NO: 6728), wherein X₁ is any amino acid.
21. The antibody or antigen-binding polypeptide according to Claim 20, wherein X₁ is N or D.
22. An antibody or antigen-binding polypeptide comprising a CDRL3 comprising an amino acid sequence of KQSYSX₁RT (SEQ ID NO: 6729), wherein X₁ is any amino acid.
23. The antibody or antigen-binding polypeptide according to Claim 22, wherein X₁ is R.
24. The antibody or antigen binding polypeptide according to Claim 22, wherein X₁ is L or I.
25. An antibody or antigen binding polypeptide comprising one or more of a CDRH1 according to any of Claims 1-2, a CDRH2 according to any of Claims 3-6, and a CDRH3 according to any of Claims 7-13.

26. An antibody or antigen-binding polypeptide comprising one or more of a CDRL1 according to any of Claims 14-17, a CDRL2 according to any of Claims 20-21, and a CDRL3 according to any of Claims 22-24.

27. An antibody or antigen-binding polypeptide comprising a CDRH1 according to any of Claims 1-2, a CDRH2 according to any of Claims 3-6, a CDRH3 according to any of Claims 7-13, and a CDRL1 according to any of Claims 14-17, a CDRL2 according to any of Claims 20-21, and a CDRL3 according to any of Claims 22-24.

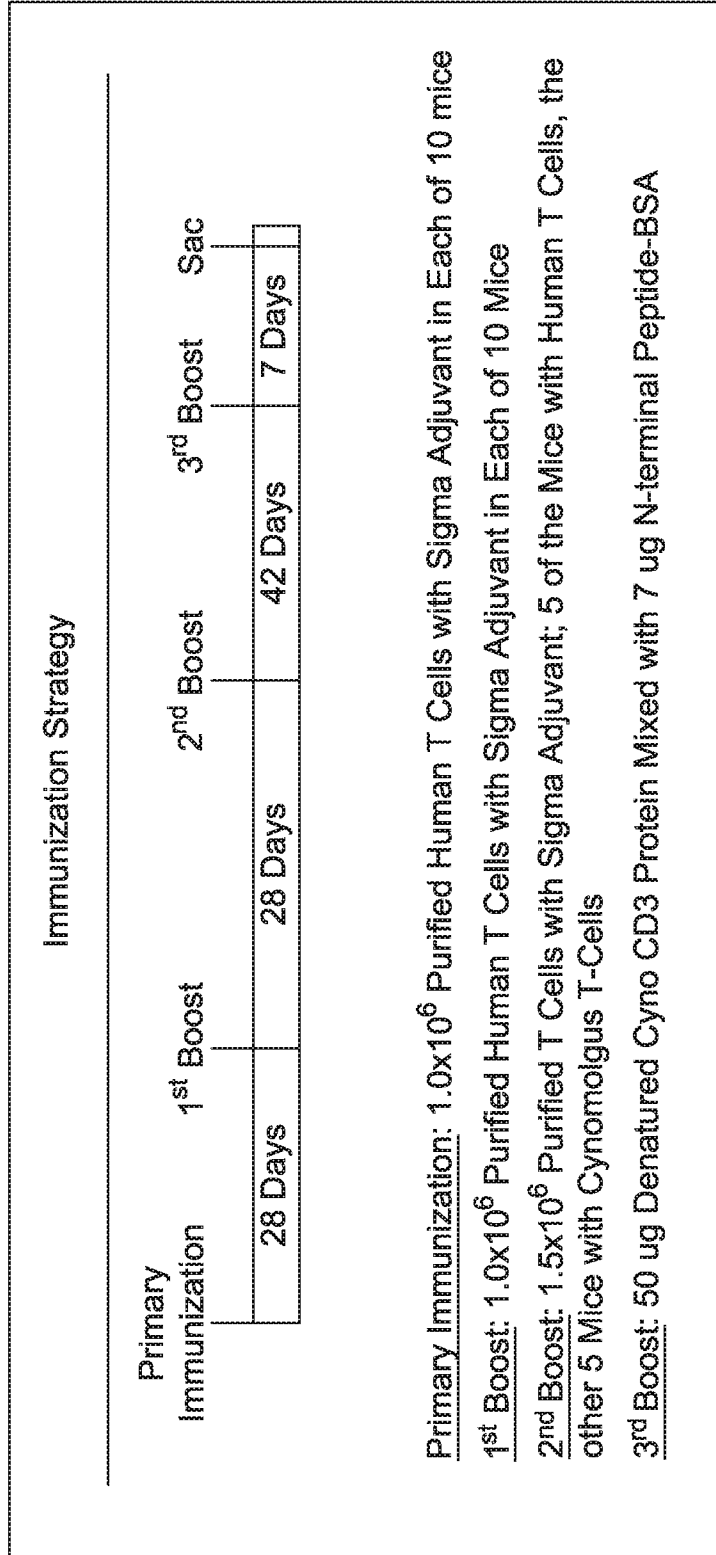


Figure 1

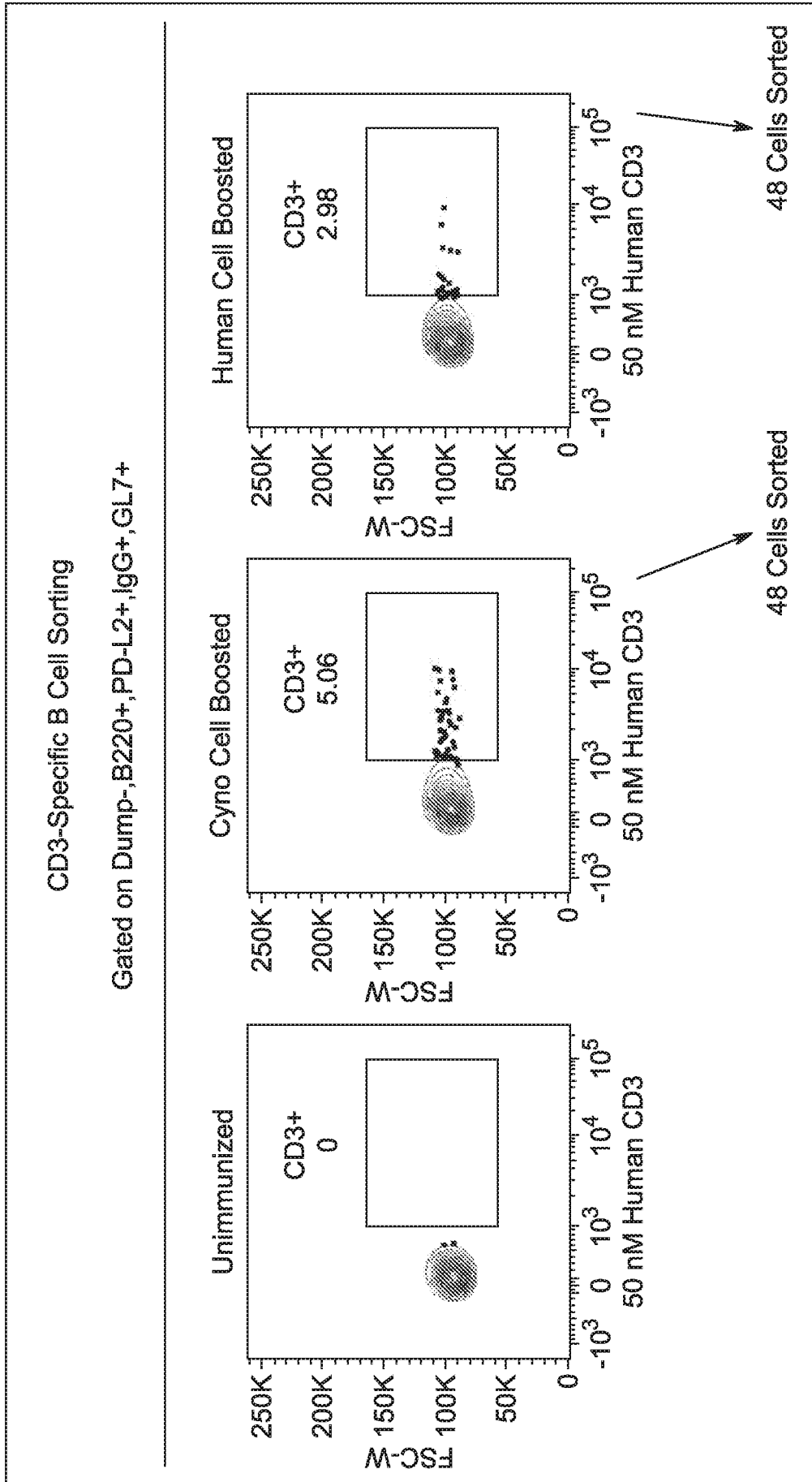


Figure 2

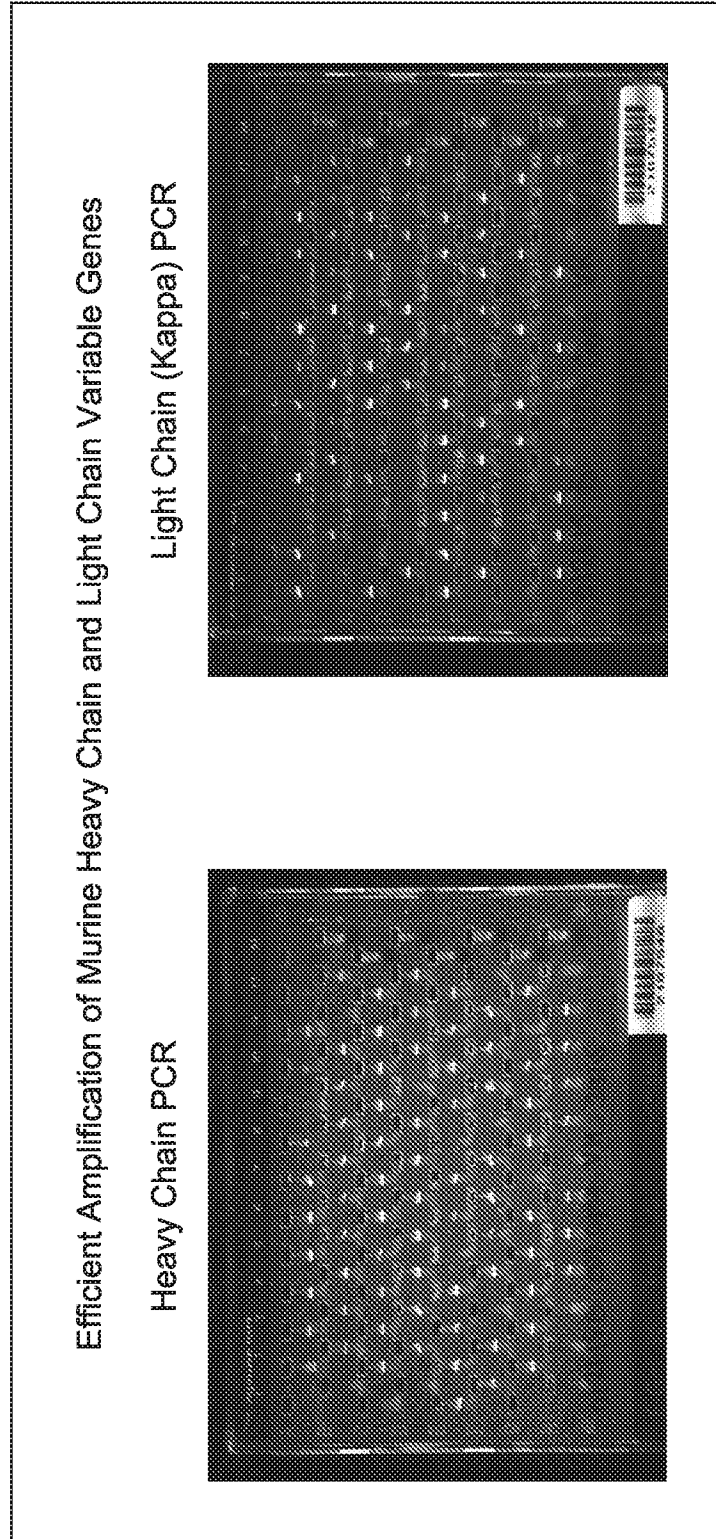


Figure 3

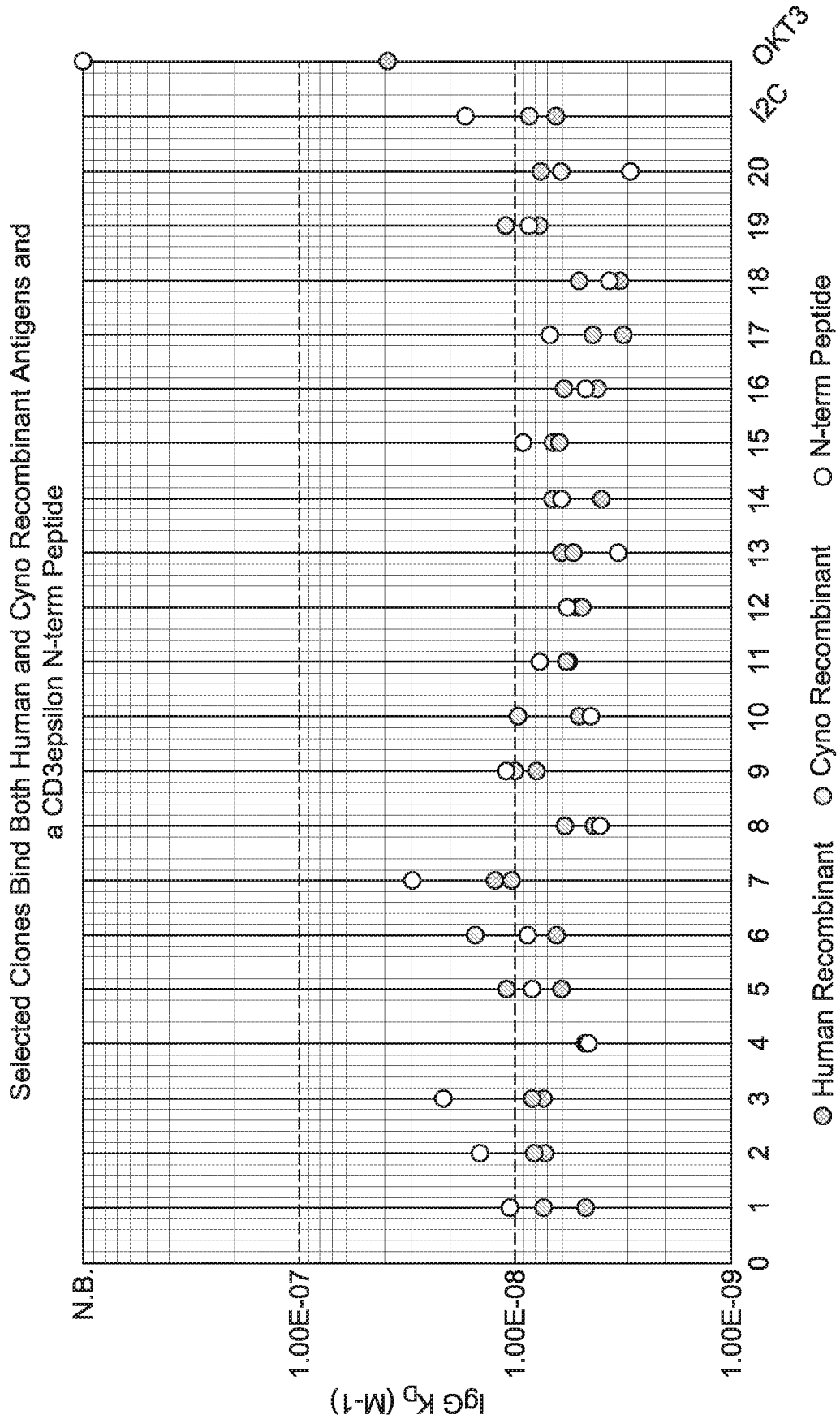


Figure 4A

Clones with Related Sequences Comprise ~85% of the Binding Response

Clone ID	VH Germ line	VH CDR1	VH CDR2	VH FR3	VH CDR3	VL Germ line	VL CDR3
ADI-29538	V1-125B	YFTFTYYIH	WIYPGNVNAKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDDGYFFDY	VK08-021	KQSYNLR
ADI-29535	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEFKD	KATLTADKSSSTAYMHLSSLTSEDSAVYFC	ARDDGYFFDY	VK08-021	KQSYNLR
ADI-15505	V1-125B	YTFISYYIH	WIYPGNVNTKYNEKFKA	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDDNYSFAY	VK08-021	KQSYNLR
ADI-15506	V1-125E	YAFTSYYIH	WIYLGDGSTNYNEKFKG	KTTLTADKSSSTAYMQLSSLTSEDSATYFC	ARDDSYFFDY	VK08-021	KQSYSLR
ADI-29540	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDGDYFFDY	VK08-021	KQSYNLR
ADI-29539	V1-125B	YFTTSYYIH	WIYPGNVNTQYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDGDYFFDY	VK08-021	KQSYNLR
ADI-15507	V1-125B	YFTFRYYIH	WIYPGNVNTKYNEKFKG	KATLSADKSSSTAYMQLSSLTSEDSAVYFC	ARDGDYFFDY	VK08-021	KQSYNLR
ADI-15508	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDGDYFFDY	VK08-021	KQSYNLR
ADI-15509	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADTSSSTAYMQLSSLTSEDSAVYFC	ARDGNVFFDV	VK08-021	KQSYNLR
ADI-15510	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDGNVFFDV	VK08-021	KQSYNLR
ADI-29537	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDGNYSFAY	VK08-021	KQSYNLR
ADI-15511	V1-125B	NTFTSSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDGSSYFFDY	VK08-021	KQSYNLR
ADI-15512	V1-125E	YFTTSYYIH	WIYPGDGSTKYNEKFKG	KTTLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDGSSYFFDY	VK08-021	KQSYSLR
ADI-15515	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDYGYFFDY	VK08-021	KQSYNLR
ADI-15514	V1-125E	YFTTSYYIH	WIYPGDGSTKYNEKFKG	KTTLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDYGYFFDY	VK08-021	KQSYNLR
ADI-15516	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMHLSSLTSEDSAVYFC	ARDYGYFFDY	VK08-021	KQSYNLR
ADI-15517	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	ARDYGYFFDY	VK08-021	KQSYNLR
ADI-16513	VH14-1	FNIKDYMH	WIDPENGNTIYDPPKFG	KASITADTSSNTAYLQLSSLTSEDTAVYFC	ARDYGYFFDY	VK08-021	KQSYNLR
ADI-29536	V1-125E	YFTFNYYIH	WIYPEDGNTKYNEKFKG	KTTLTADKSSSTAYMQLSSLTSEDSAVYFC	ARNNGSSYAMDY	VK08-021	KQSYNLR
ADI-29534	V1-039A	FNIKDYMH	WIDPENGNTIYDPPKFG	KASITADTSSNTAYLQLSSLTSEDTAVYFC	GRDGNVFFDY	VK08-021	KQSYNLR
ADI-15518	V1-125B	YFTTSYYIH	WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFC	GRDYGSYFFDN	VK08-021	KQSYNLR

Figure 4B

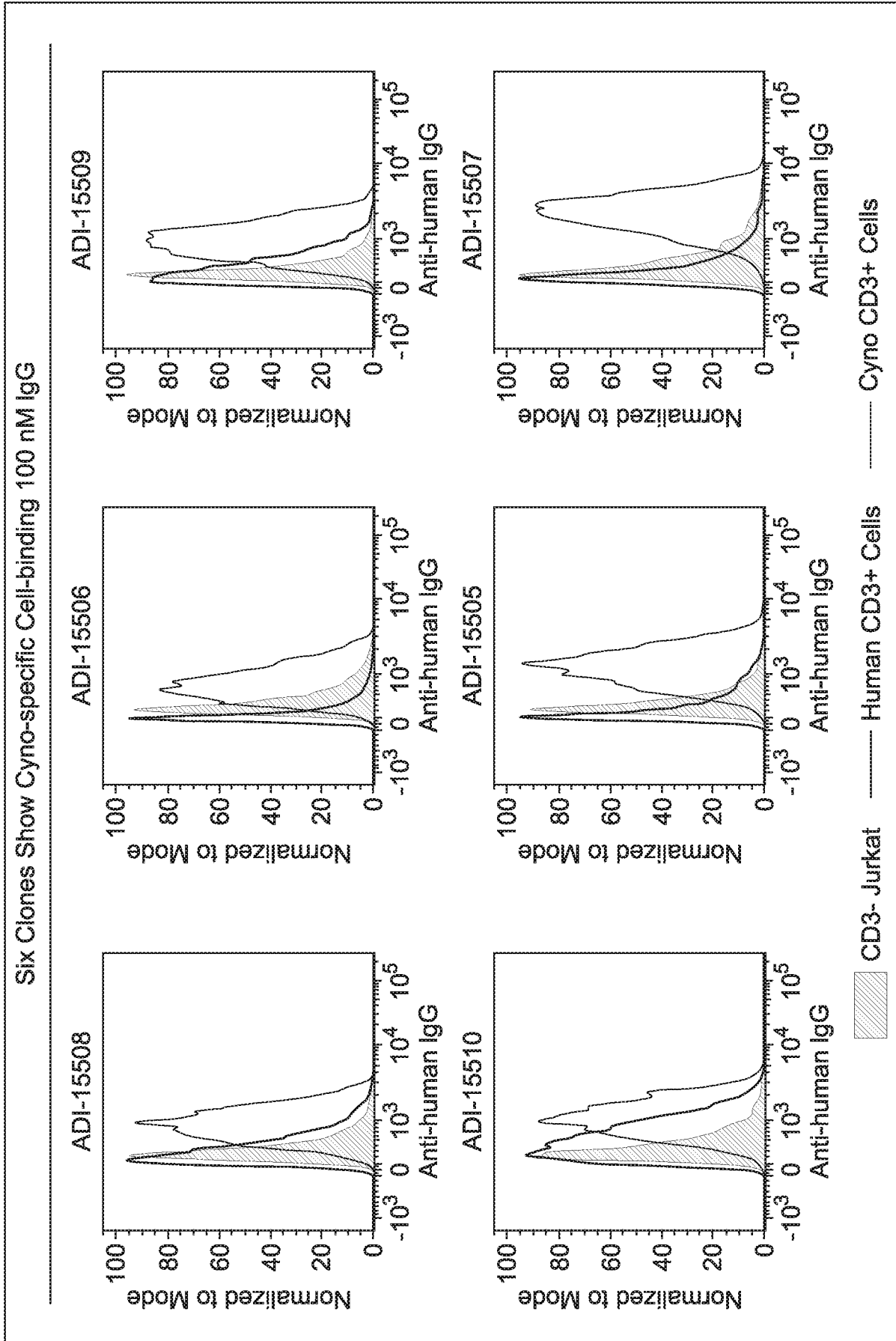


Figure 5

(A)

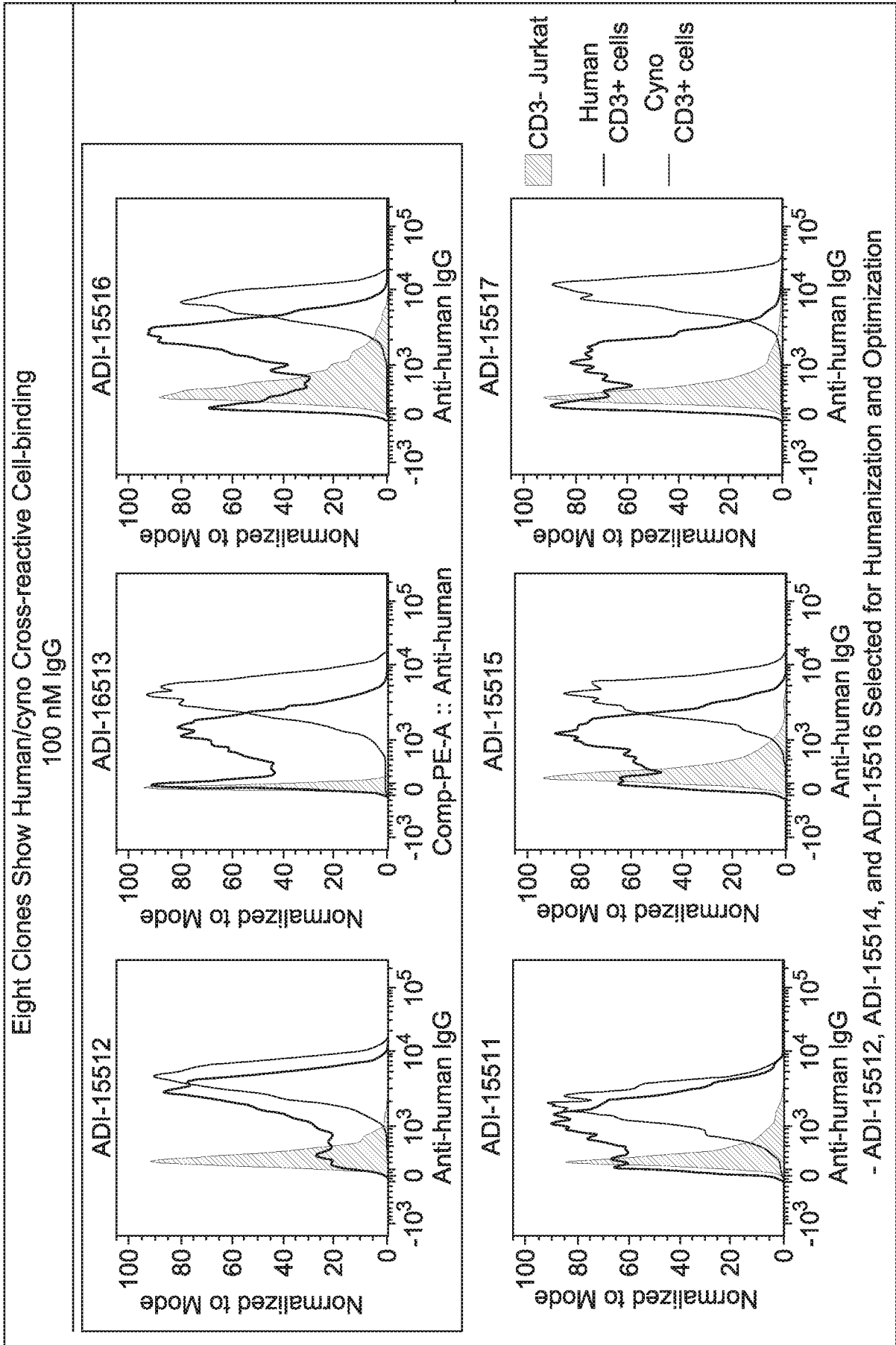
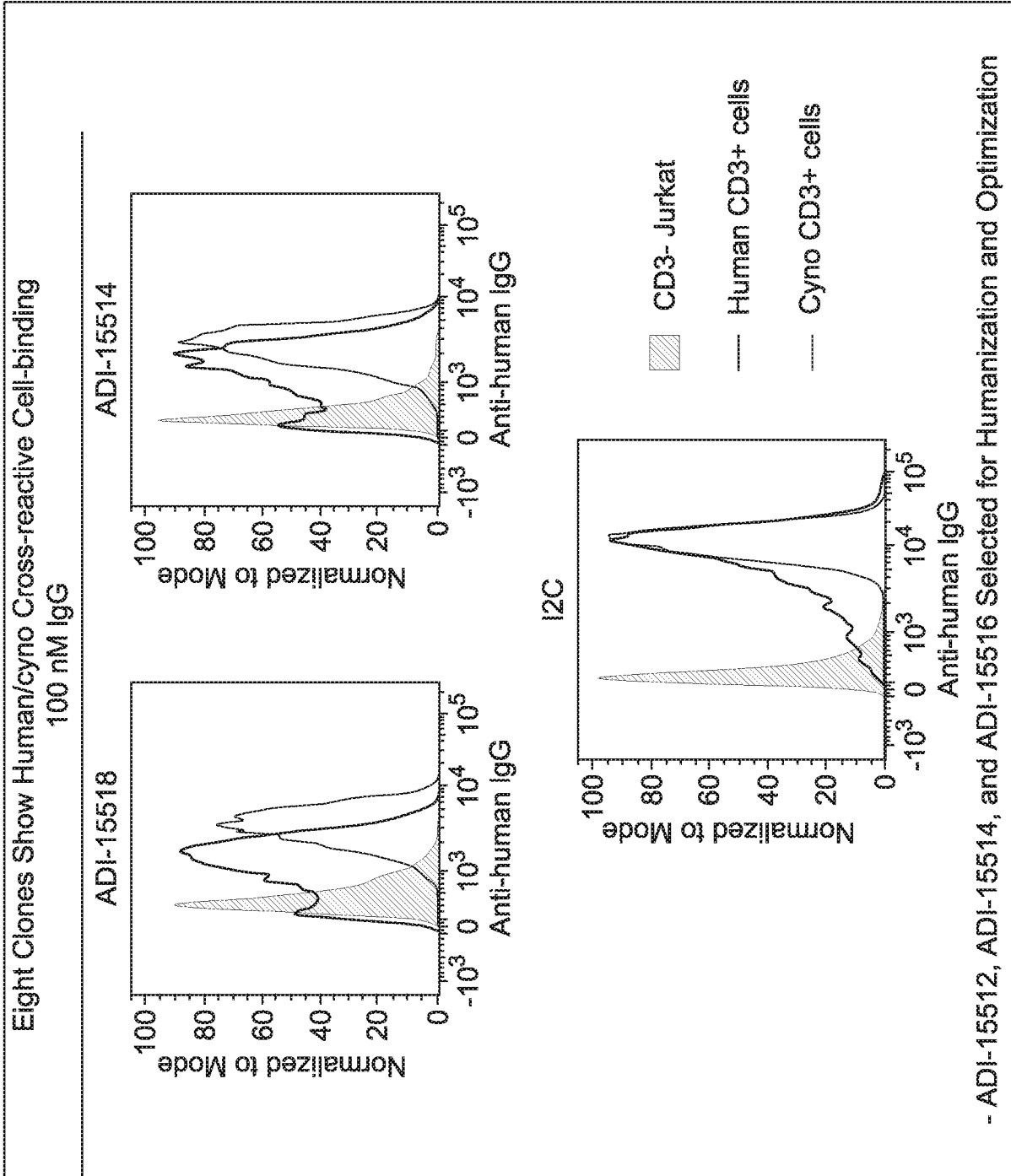


Figure 6



(A)

Figure 6 (Continued)

All Human/cyno CD3epsilon Cross-reactive IgGs, including I2C, have Medium NSR Reactivity (MFIs ~400-1200)

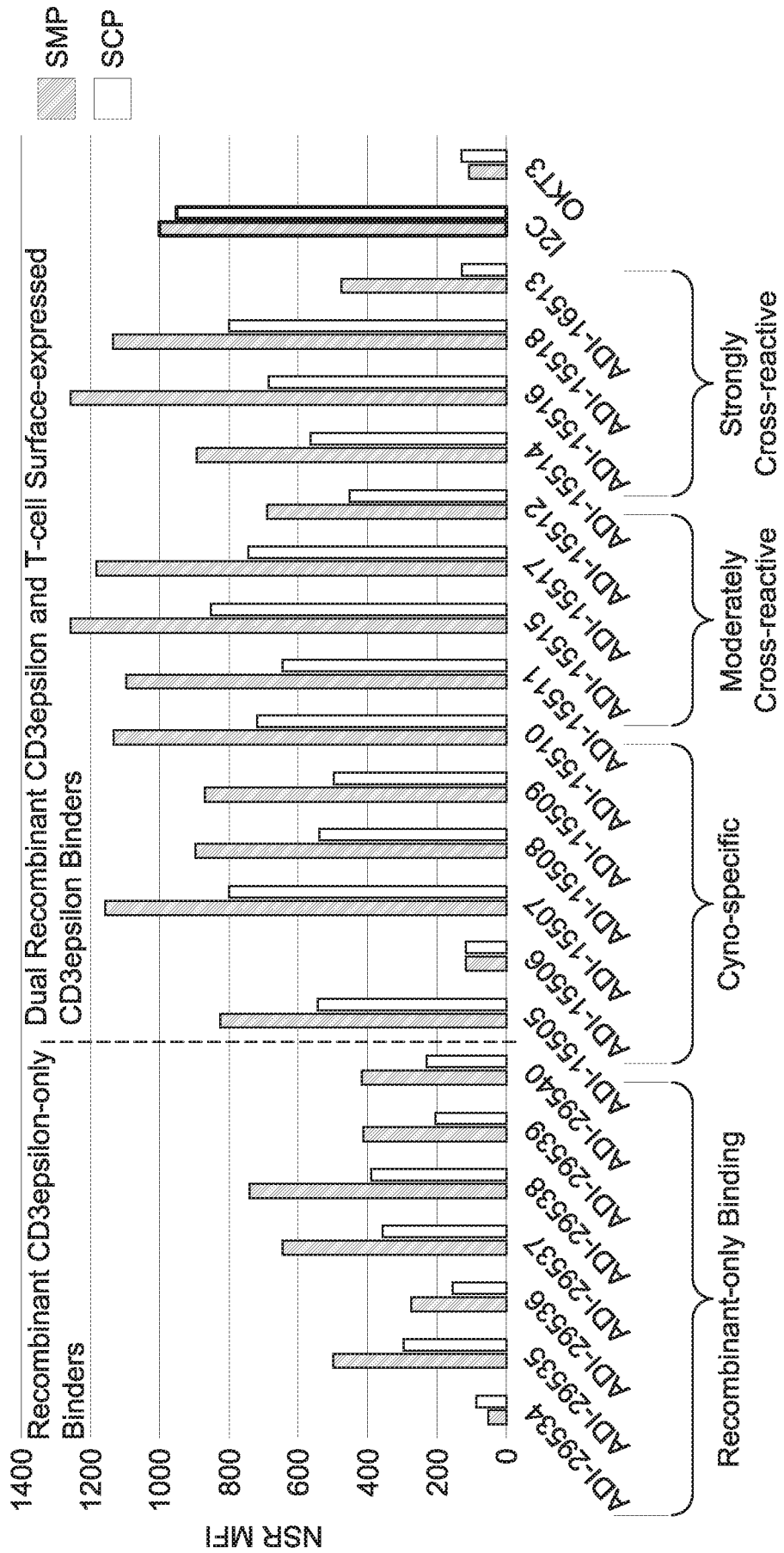


Figure 7

All Cell Binders Strongly Compete with I2C

Clone	% Reduction in Antigen Binding Relative to Antigen-only Control	OKT3 Competition*	I2C Competition*
ADI-15505	-15	96	96
ADI-15506	-50	99	99
ADI-15507	-22	98	98
ADI-15508	-18	99	99
ADI-15509	-21	99	99
ADI-15510	-9	98	98
ADI-15511	-1	93	93
ADI-15515	-1	93	93
ADI-15517	-12	94	94
ADI-15512	0	98	98
ADI-15514	-5	97	97
ADI-15516	0	94	94
ADI-15518	-2	96	96
ADI-15513	-2	97	97
I2C	-31	92	92
OKT3	60	25	25

*Competition Performed on the Surface of Yeast

Figure 8

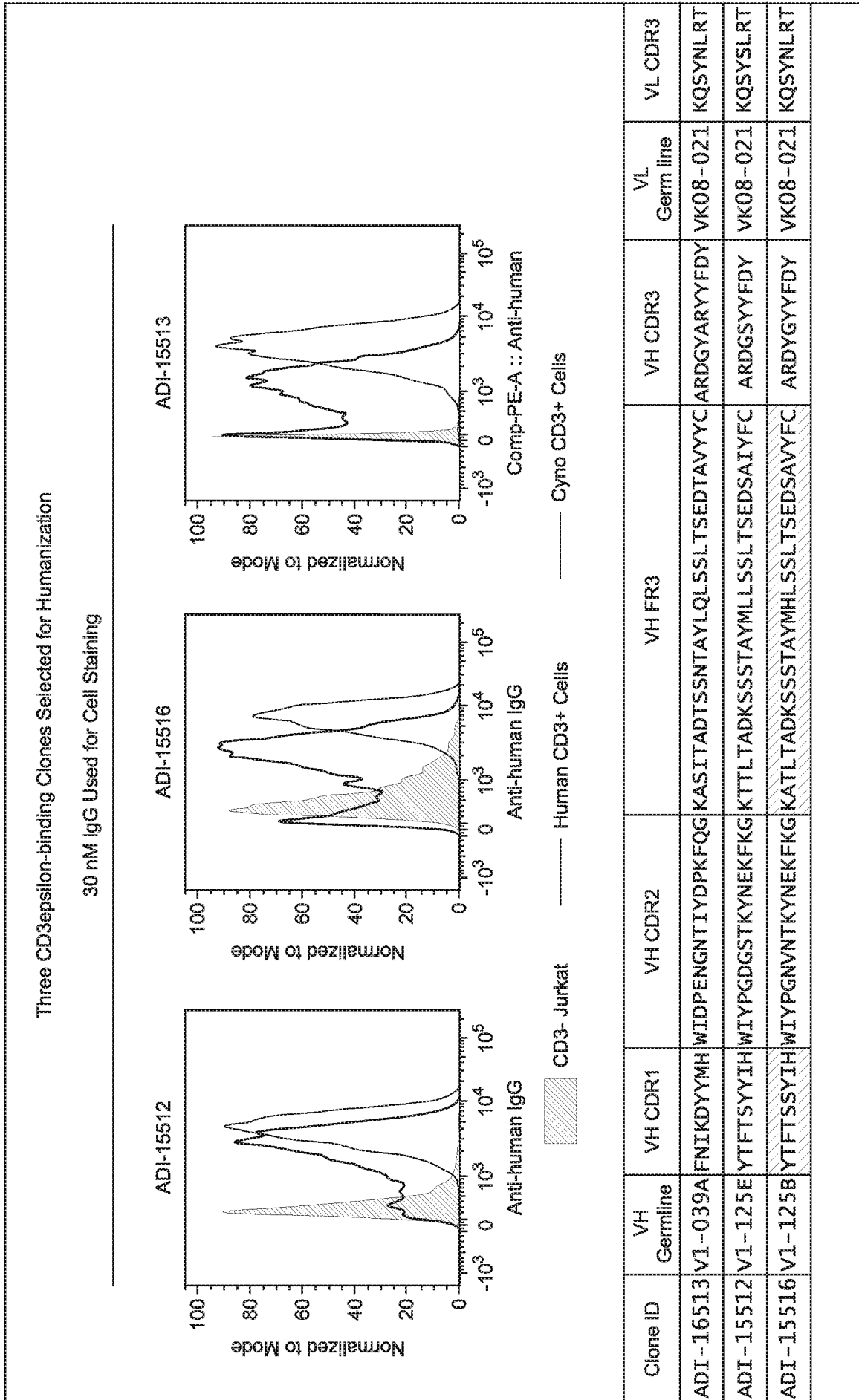


Figure 9



Notes	Clone ID	VH Germiline	VH FR1	VH CDR1	VH FR2	VH CDR2	VH FR3
	ADI-18562	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTTRDTSTSTVYMELSLRSSEDTAVYYC
	ADI-18564	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18565	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18566	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18567	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18568	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTTRDTSTSTVYMELSLRSSEDTAVYYC
	ADI-18570	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18571	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18572	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18573	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18563	VH1-69	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
	ADI-18569	VH1-69	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSSEDTAVYYC
Chimeric	ADI-15512	V1-125E	EVQLVESGGPELVKPGASVKMSCKASG	YFTFSYIYH	WVKRPPGQGLEWMG	WIYPGDGSTKYNEKFKG	KITLTADKSSSTAYMELSSLTSEDSAIYFC
	ADI-18574	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTITRDTSASTAYMELSSLRSSEDTAVYYC
	ADI-18575	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RATLTADKSSASTAYMELSSLRSSEDTAVYYC
	ADI-18576	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTITADKSSASTAYMELSSLRSSEDTAVYYC
	ADI-18578	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTITADKSSASTAYMELSSLRSSEDTAVYYC
	ADI-18579	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RATLTADKSSASTAYMELSSLRSSEDTAVYYC
	ADI-18580	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTITRDTSASTAYMELSSLRSSEDTAVYYC
	ADI-18581	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RATLTADKSSASTAYMELSSLRSSEDTAVYYC
	ADI-18582	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTITADKSSASTAYMELSSLRSSEDTAVYYC
	ADI-18585	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RATLTADKSSASTAYMELSSLRSSEDTAVYYC
	ADI-18577	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTTRDTSTSTVYMELSLRSSEDTAVYYC
	ADI-18583	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	YFTFSYIYH	WVRQAPGGQGLEWMG	WIYPGDGSTKYNEKFKG	RVTMTTRDTSTSTVYMELSLRSSEDTAVYYC
Chimeric	ADI-15516	V1-125B	EVQLVESGGPELVKPGASVKVSKKASG	YFTFSYIYH	WVKRPPGQGLEWMG	WIYPGDGSTKYNEKFKG	KATLTADKSSSTAYMELSSLTSEDSAVYFC
	ADI-18588	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RATITADTSTNTAYMELSSLRSSEDTAVYYC
	ADI-18589	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RVTITRDTSASTAYMELSSLRSSEDTAVYYC
	ADI-18590	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RVTITADTSASTAYMELSSLRSSEDTAVYYC
	ADI-18591	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RATITADTSASTAYMELSSLRSSEDTAVYYC
	ADI-18593	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RATITADTSASTAYMELSSLRSSEDTAVYYC
	ADI-18594	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RATITADTSASTAYMELSSLRSSEDTAVYYC
	ADI-18595	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RATITADTSASTAYMELSSLRSSEDTAVYYC
	ADI-18596	VH1-3	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RATITADTSASTAYMELSSLRSSEDTAVYYC
	ADI-18597	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RVTMTADTSTAYMELSSLRSSEDTAVYYC
	ADI-18592	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RVTMTADTSTAYMELSSLRSSEDTAVYYC
	ADI-18587	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RVTMTADTSTAYMELSSLRSSEDTAVYYC
	ADI-18586	VH1-46	QVQLVQSGAEVKKPKPGASVKVSKKASG	FNIKDYMH	WVRQAPGGQGLEWMG	WIDPENGNTIYDPKFKG	RVTMTTRDTSTSTVYMELSLRSSEDTAVYYC
Chimeric	ADI-16513	V1-039A	QVQLVESGGPELVKPGALVKLSCKASG	FNIKDYMH	WVKRPPGQGLEWMG	WIDPENGNTIYDPKFKG	KASITADTSSNTAYLQLSSLTSEDTAVYYC

Figure 10A

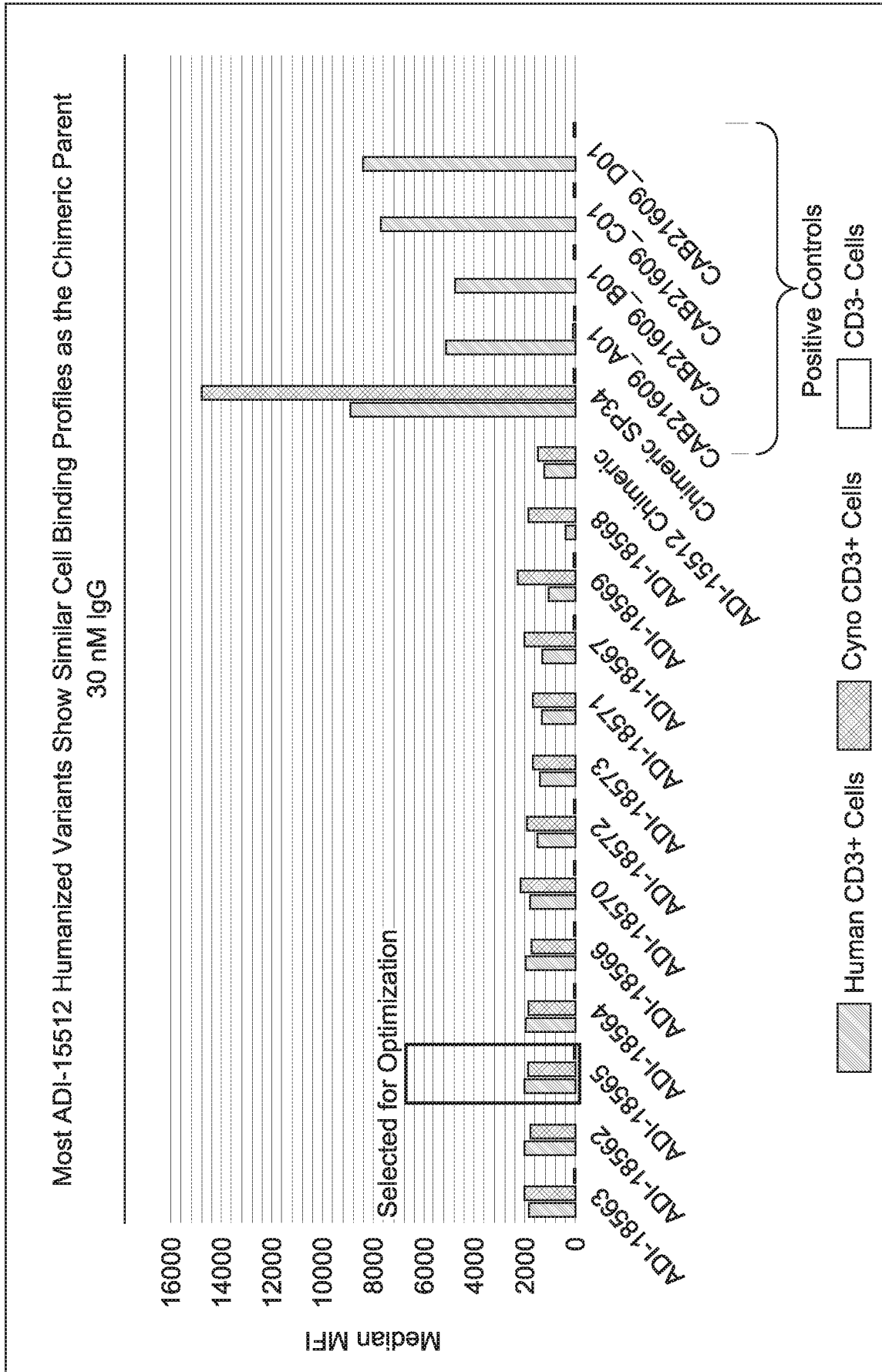


Figure 10B

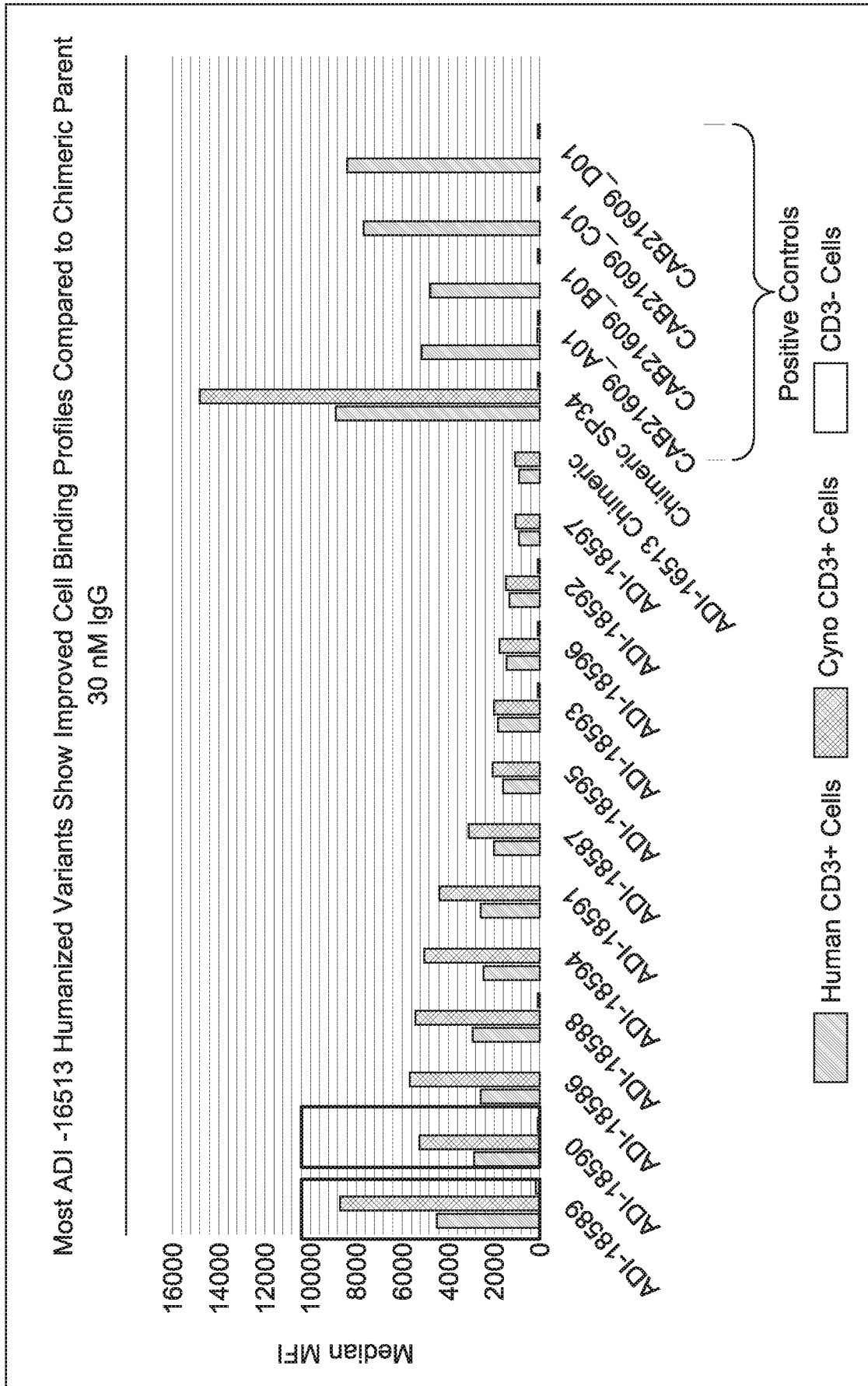


Figure 10C

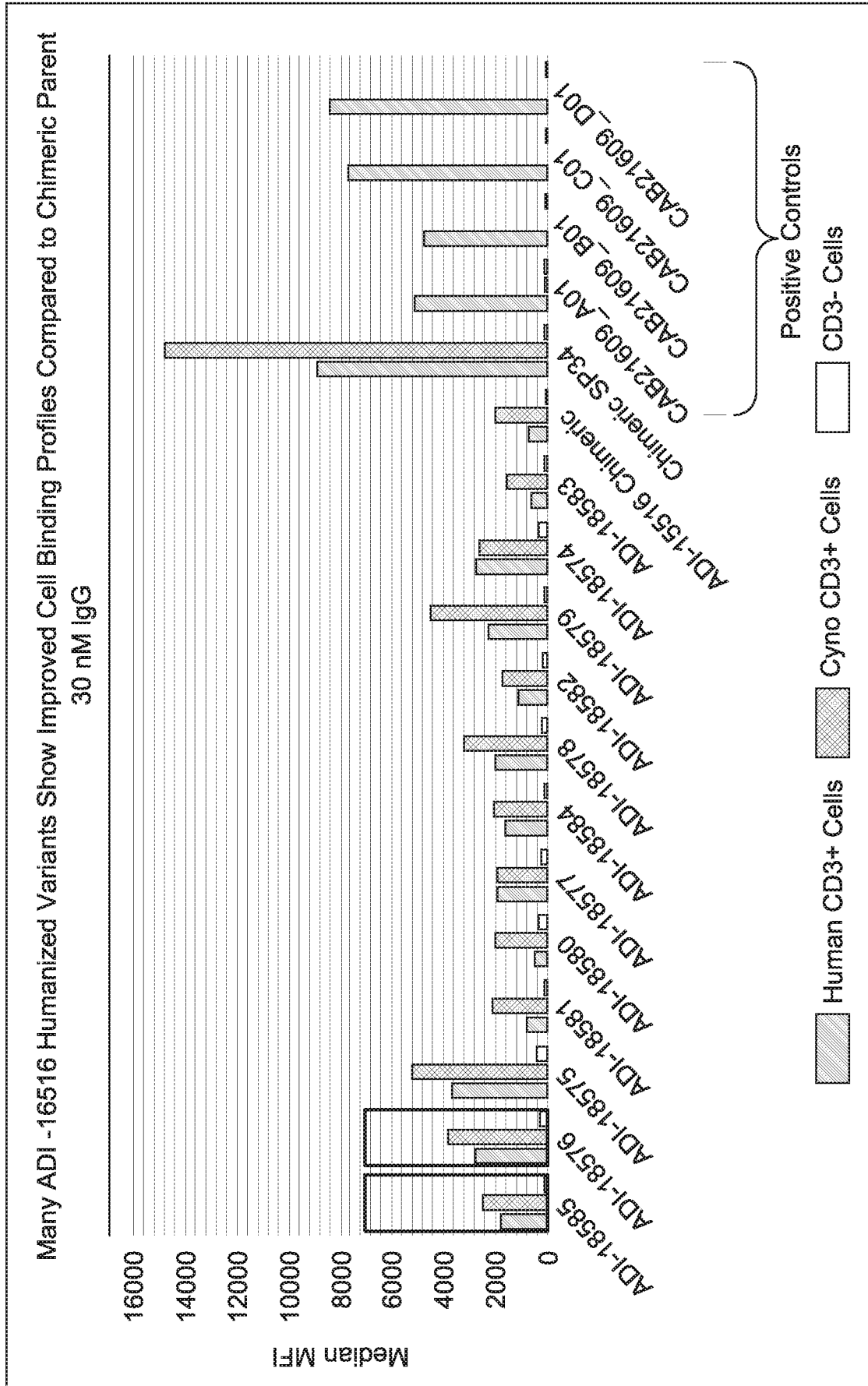


Figure 10D

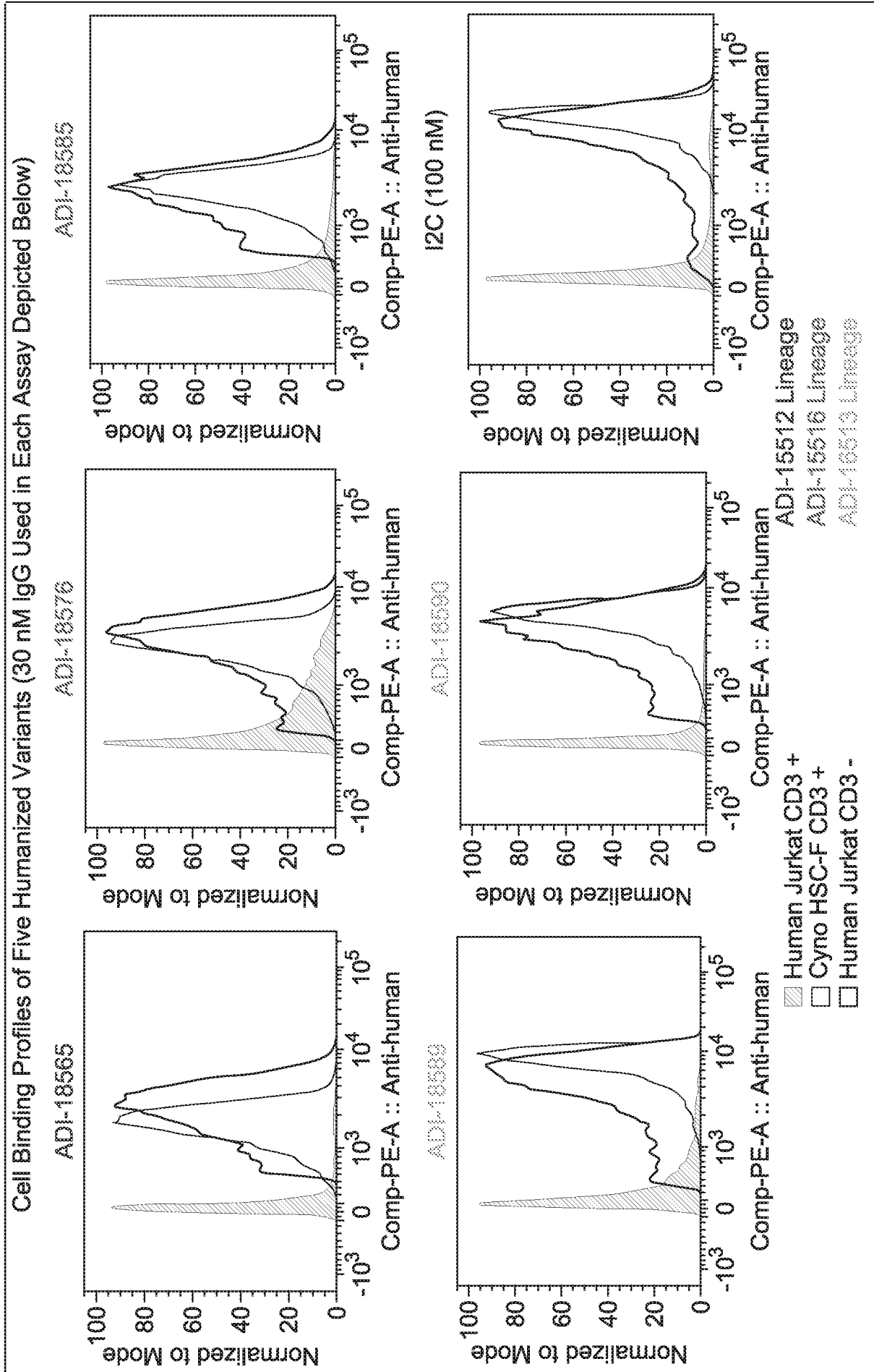


Figure 11A

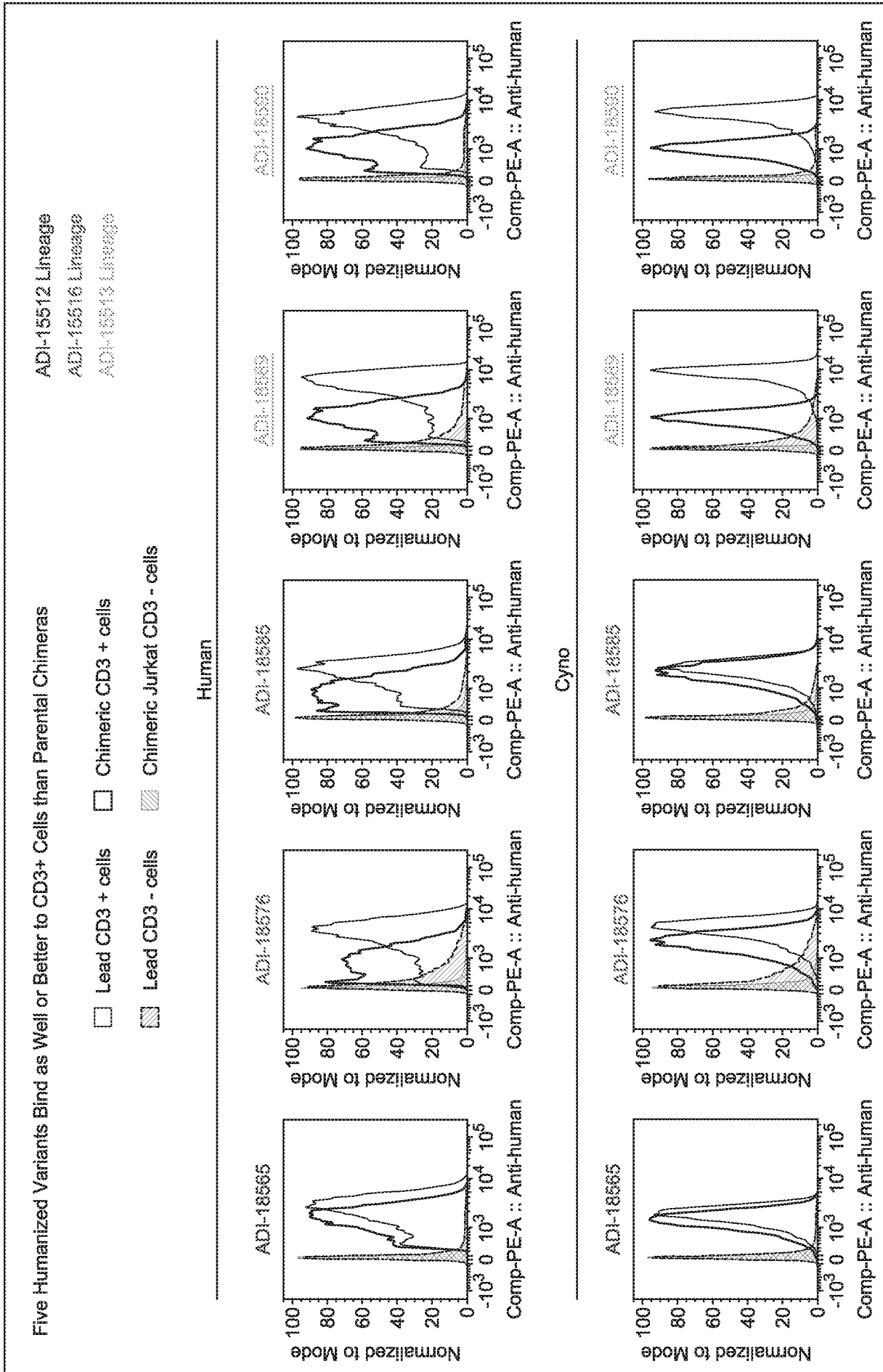


Figure 11B

Humanized Variants Show Increased FB Binding Responses to CD3ε N-terminal Peptide Compared to Chimeric Parents

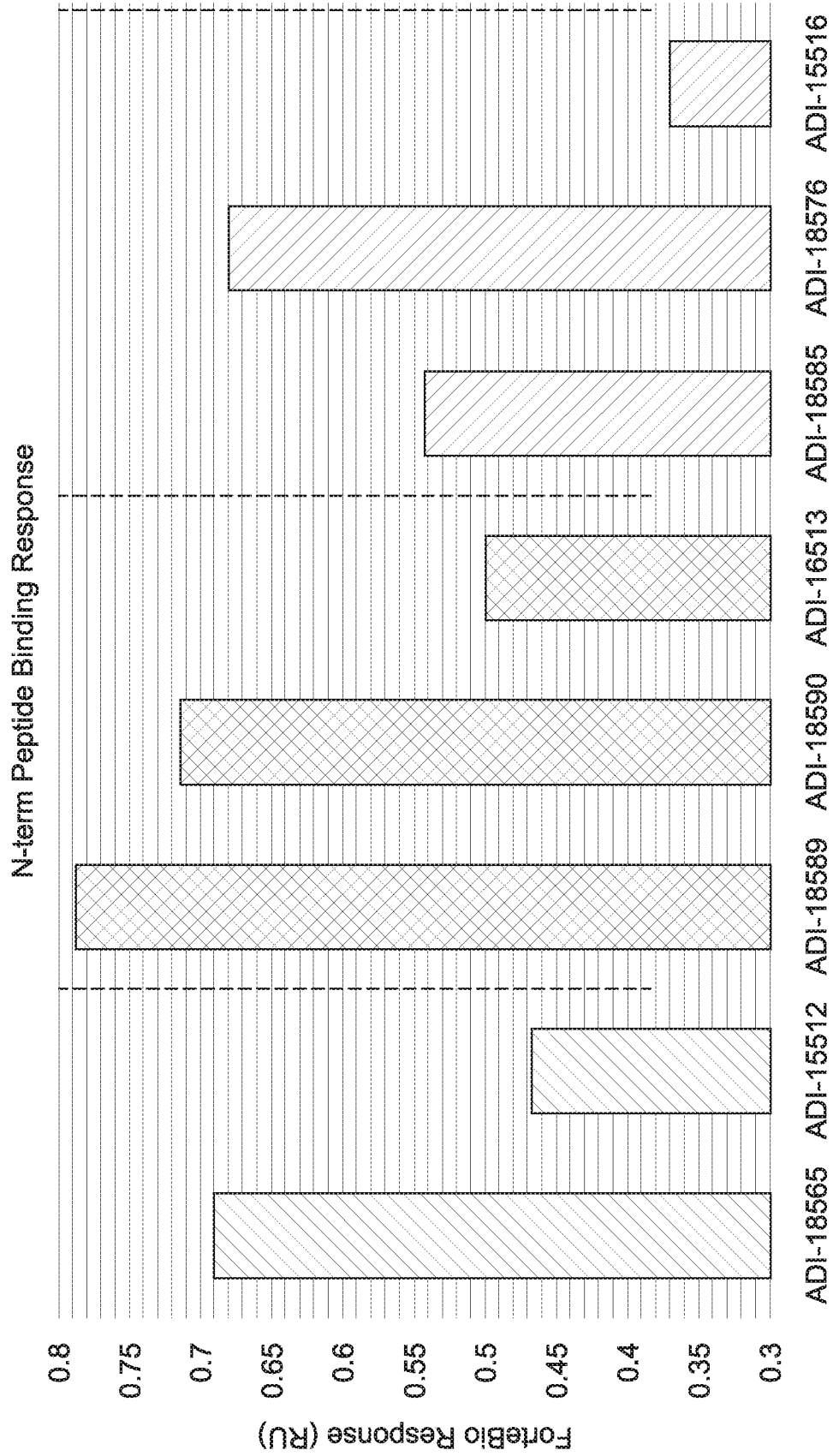


Figure 11C

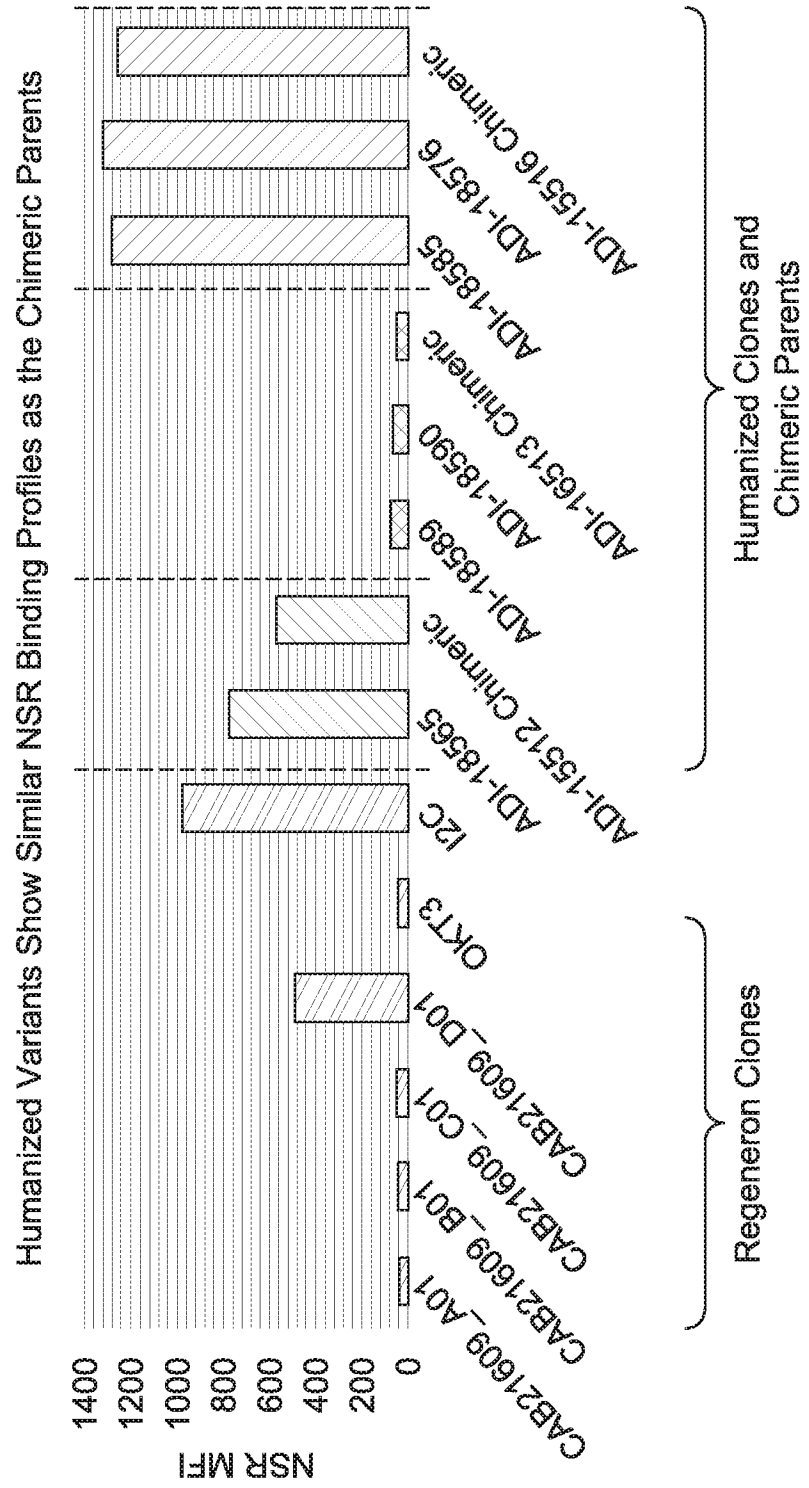


Figure 12A

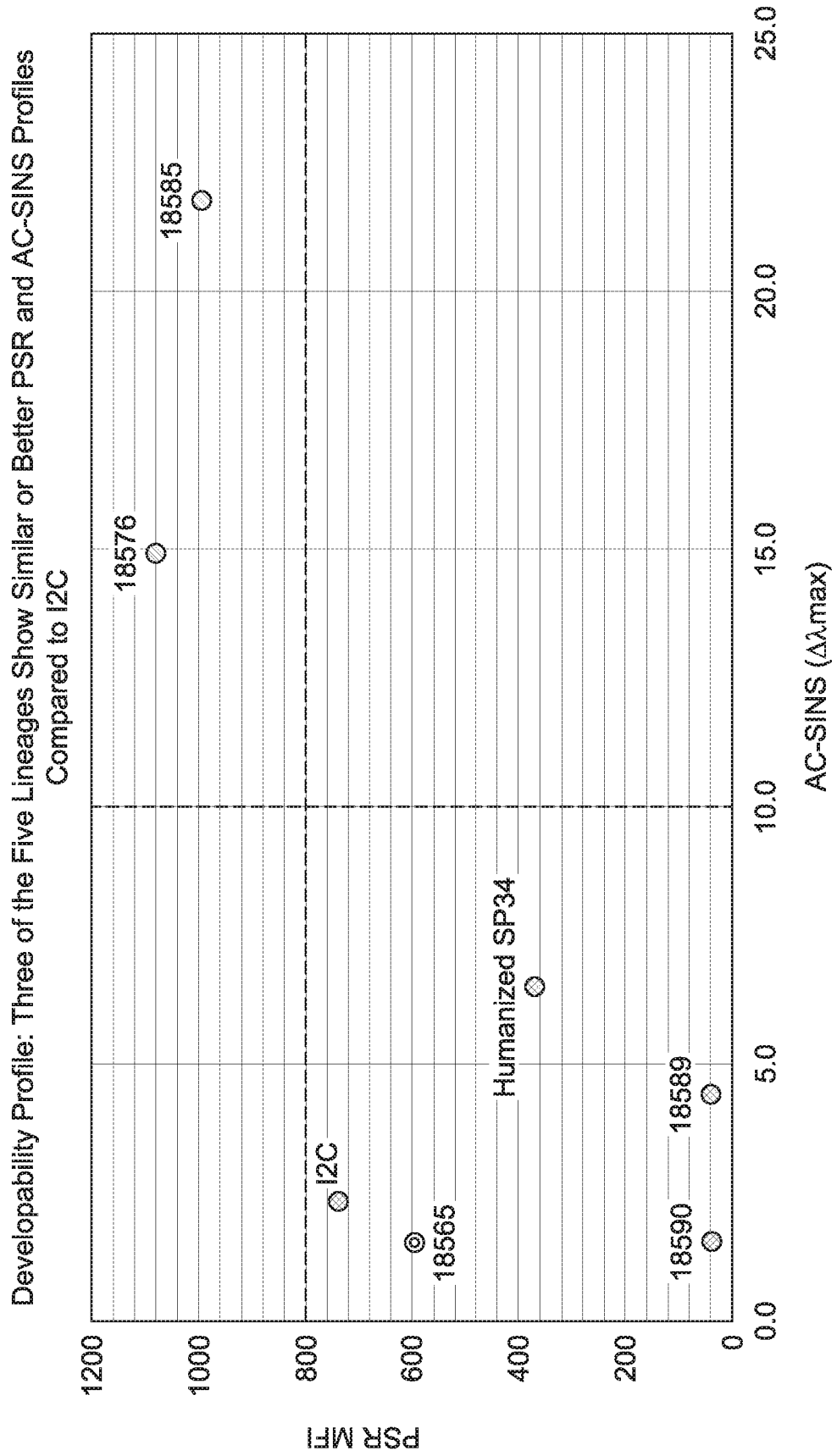


Figure 12B

Sequences of Humanized Clones Selected for Optimization and their Respective Parents						
Clone ID	VH Germ line	VH FR1	VH CDR1	VH FR2	VL CDR1	VL FR1
Lead	ADI-18565	VH1-46	QVQLVQSGAEVKKPGASVKVCKASG	YFTFSYYIH	WVRQAPGQGLEWMG	
Parent	ADI-15512	V1-125E	EVQLEQSGPELVKPGASVKMSCKASG	YFTFSYYIH	WVKQRPQGQLEWIG	
Lead	ADI-18589	VH1-3	QVQLVQSGAEVKKPGASVKVCKASG	FNIKDYMH	WVRQAPGQRLWVG	
Lead	ADI-18590	VH1-3	QVQLVQSGAEVKKPGASVKVCKASG	FNIKDYMH	WVRQAPGQRLWVG	
Parent	ADI-16513	V1-039A	QVQLEQSGAELVRPGALVKLSCKASG	FNIKDYMH	WVKQRPEQGLEWIG	
Lead	ADI-18576	VH1-3	QVQLVQSGAEVKKPGASVKVCKASG	YFTFSYYIH	WVRQAPGQRLWVG	
Lead	ADI-18585	VH1-3	QVQLVQSGAEVKKPGASVKVCKASG	YFTFSYYIH	WVRQAPGQGLEWIG	
Parent	ADI-15516	V1-125B	EVQLEESGPELVKPGASVRIKCKASG	YFTFSYYIH	WVKQRPQGQLEWIG	
						A
Clone ID	VL Germ line	VL FR1	VL CDR1	VL FR2	VL CDR1	VL FR1
Lead	ADI-18565	VK4-1	DIVMTQSPDSLAVSLGERATINC		KSSQSLLSRTRKNYLA	
Parent	ADI-15512	VK08-021	DIQLTQSPSSLAVSAGEKVTMSC		KSSQSLLSRTRKNYLA	
Lead	ADI-18589	VK4-1	DIVMTQSPDSLAVSLGERATINC		KSSQSLLSRTRKNYLA	
Lead	ADI-18590	VK4-1	DIVMTQSPDSLAVSLGERATINC		KSSQSLLSRTRKNYLA	
Parent	ADI-16513	VK08-021	DIQLTQSPSSLAVSAGEKVTMSC		KSSQSLLSRTRKNYLA	
Lead	ADI-18576	VK4-1	DIVMTQSPDSLAVSLGERATINC		KSSQSLLSRTRKNYLA	
Lead	ADI-18585	VK4-1	DIVMTQSPDSLAVSLGERATINC		KSSQSLLSRTRKNYLA	
Parent	ADI-15516	VK08-021	DIVLTQSPSSLAVSAGEKVTMSC		KSSQSLLSRTRKNYLA	

Figure 13

Sequences of Humanized Clones Selected for Optimization and their Respective Parents			
VH CDR2	VH FR3	VH CDR3	
WIYPGDGSTKYNEKFKG	RVTMTADKSTSTAYMELSSLRSEDVAVYYC	ARDGSYFFDY	
WIYPGDGSTKYNEKFKG	KTTLTADKSSSTAYMLLSSLTSEDSAIYFC	ARDGSYFFDY	
WIDPENGNTIYDPKFKG	RVTITRDTASSTAYMELSSLRSEDVAVYYC	ARDGYARYFFDY	
WIDPENGNTIYDPKFKG	RVTITADTSASTAYMELSSLRSEDVAVYYC	ARDGYARYFFDY	
WIDPENGNTIYDPKFKG	KASITADTSSNTAYLQLSSLTSEDVAVYYC	ARDGYARYFFDY	
WIYPGNVNTKYNEKFKG	RVTITADKSSSTAYMELSSLRSEDVAVYYC	ARDYGYFFDY	
WIYPGNVNTKYNEKFKG	RATLTADKSTSTAYMHLSSLRSEDVAVYYC	ARDYGYFFDY	
WIYPGNVNTKYNEKFKG	KATLTADKSSSTAYMHLSSLTSEDSAVYFC	ARDYGYFFDY	
VL FR2	VL CDR2	VL FR3	VL CDR3
WYQQKPGQPPKLLIY	WASTRES	GVPDRFSGSGGTDFTLTISSLQAEQAVYYC	KQSYSLRT
WYQQKPGQSPKLLIY	WASTRES	GVPDRFTGSGSGTDFTLTISVQAEQAVYYC	KQSYSLRT
WYQQKPGQPPKLLIY	WASTRES	GVPDRFSGSGGTDFTLTISSLQAEQAVYYC	KQSYSLRT
WYQQKPGQPPKLLIY	WASTRES	GVPDRFSGSGGTDFTLTISSLQAEQAVYYC	KQSYSLRT
WYQQKPGQSPKLLIY	WASTRES	GVPDRFTGSGSGTDFTLTISVQAEQAVYYC	KQSYNLRT
WYQQKPGQPPKLLIY	WASTRES	GVPDRFSGSGGTDFTLTISSLQAEQAVYYC	KQSYSLRT
WYQQKPGQPPKLLIY	WASTRES	GVPDRFSGSGGTDFTLTISSLQAEQAVYYC	KQSYNLRT
WYQQKAGQSPKLLIY	WASTRES	GVPDRFTGSGSGTDFTLTISVQAEQAVYYC	KQSYNLRT

(A)

Figure 13 (Continued)

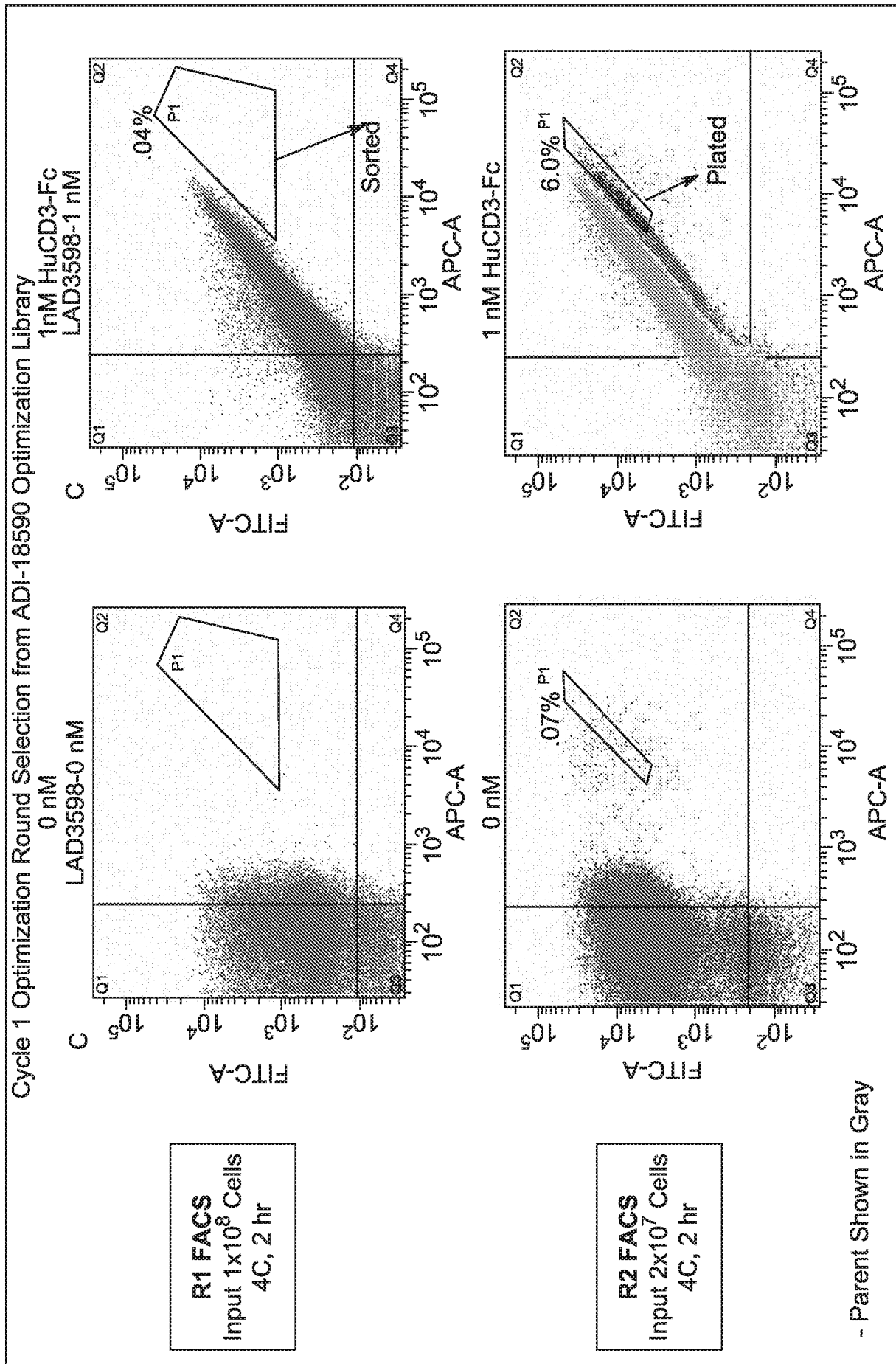


Figure 14

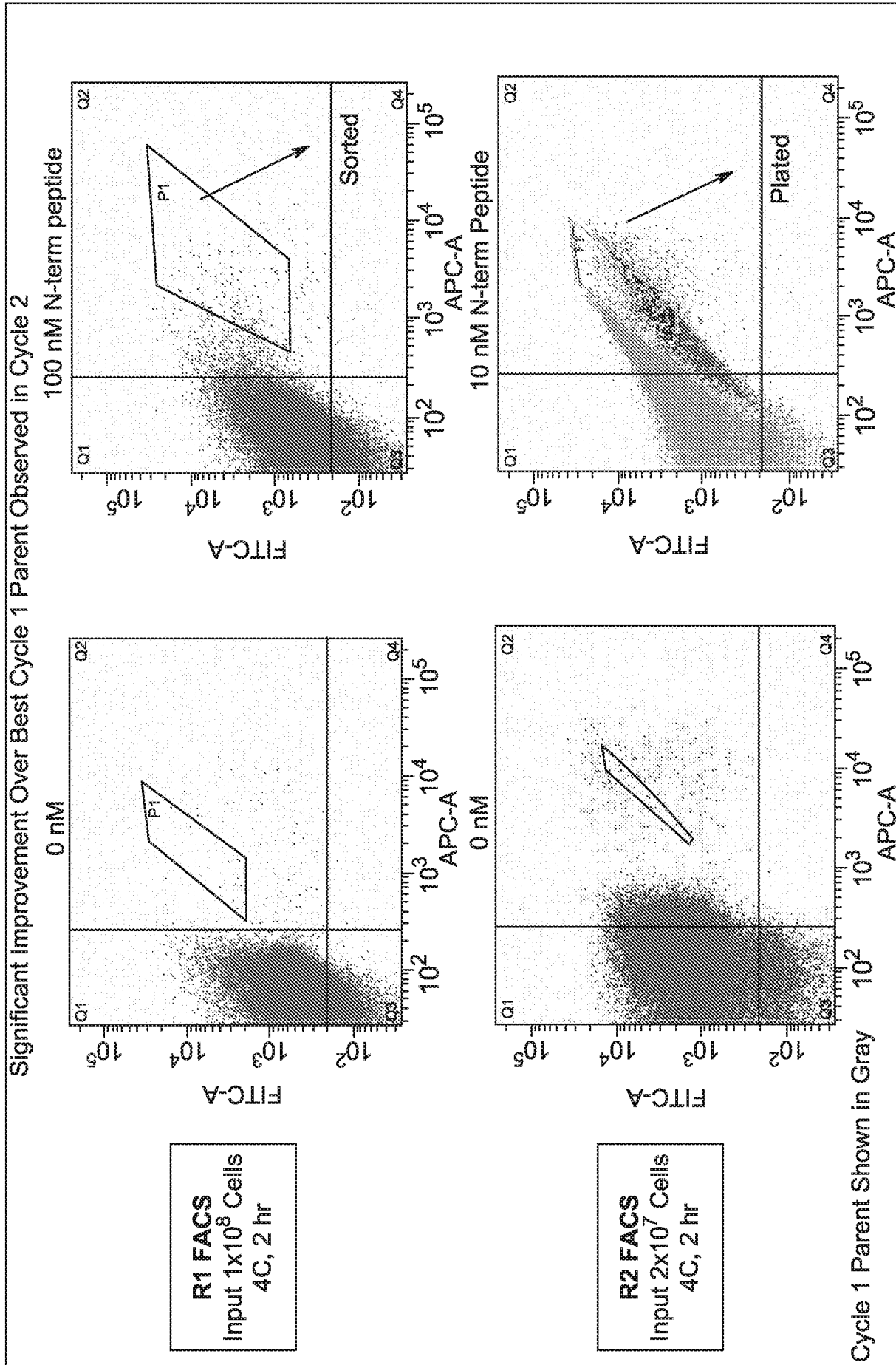


Figure 15

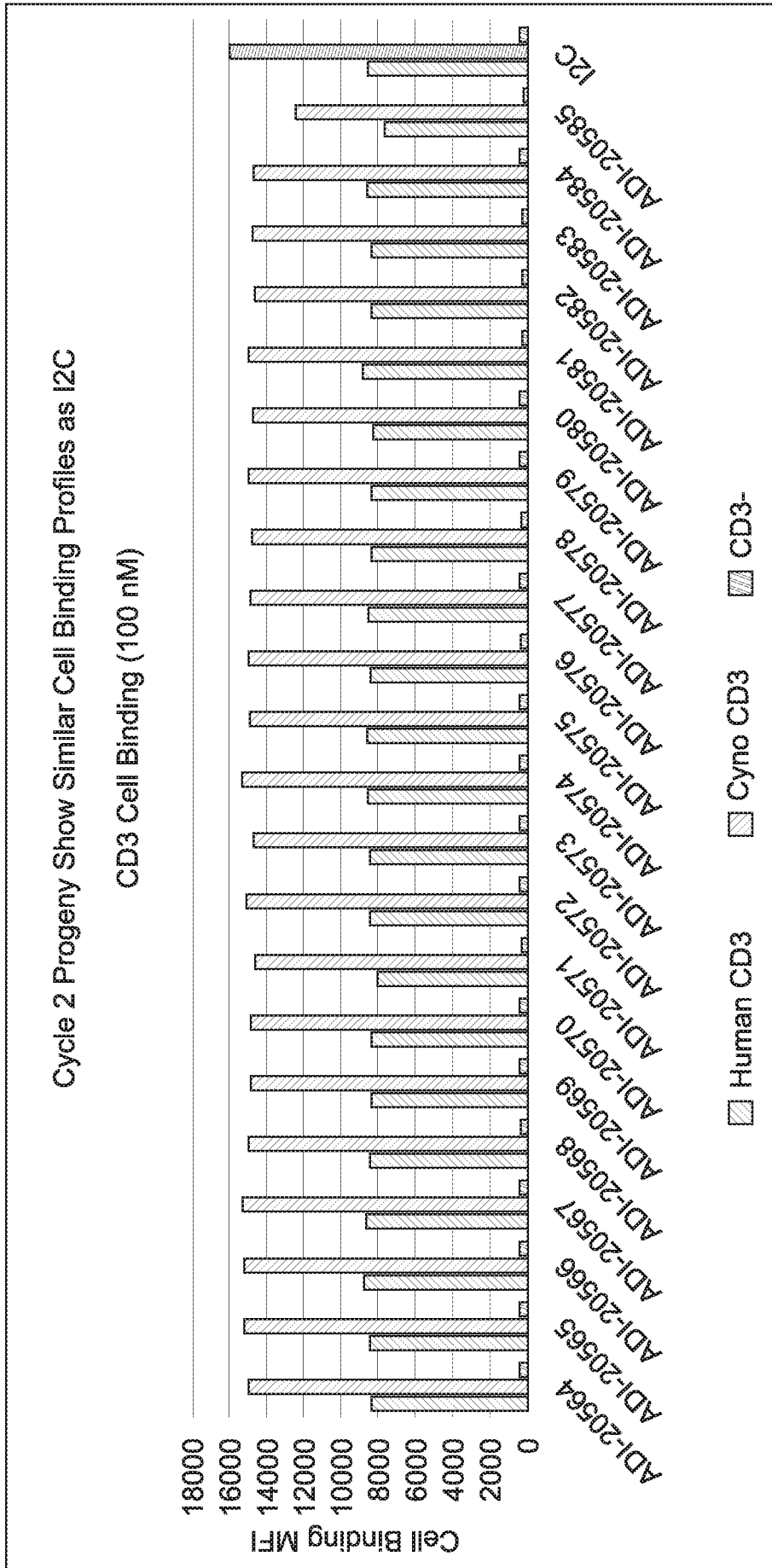


Figure 16

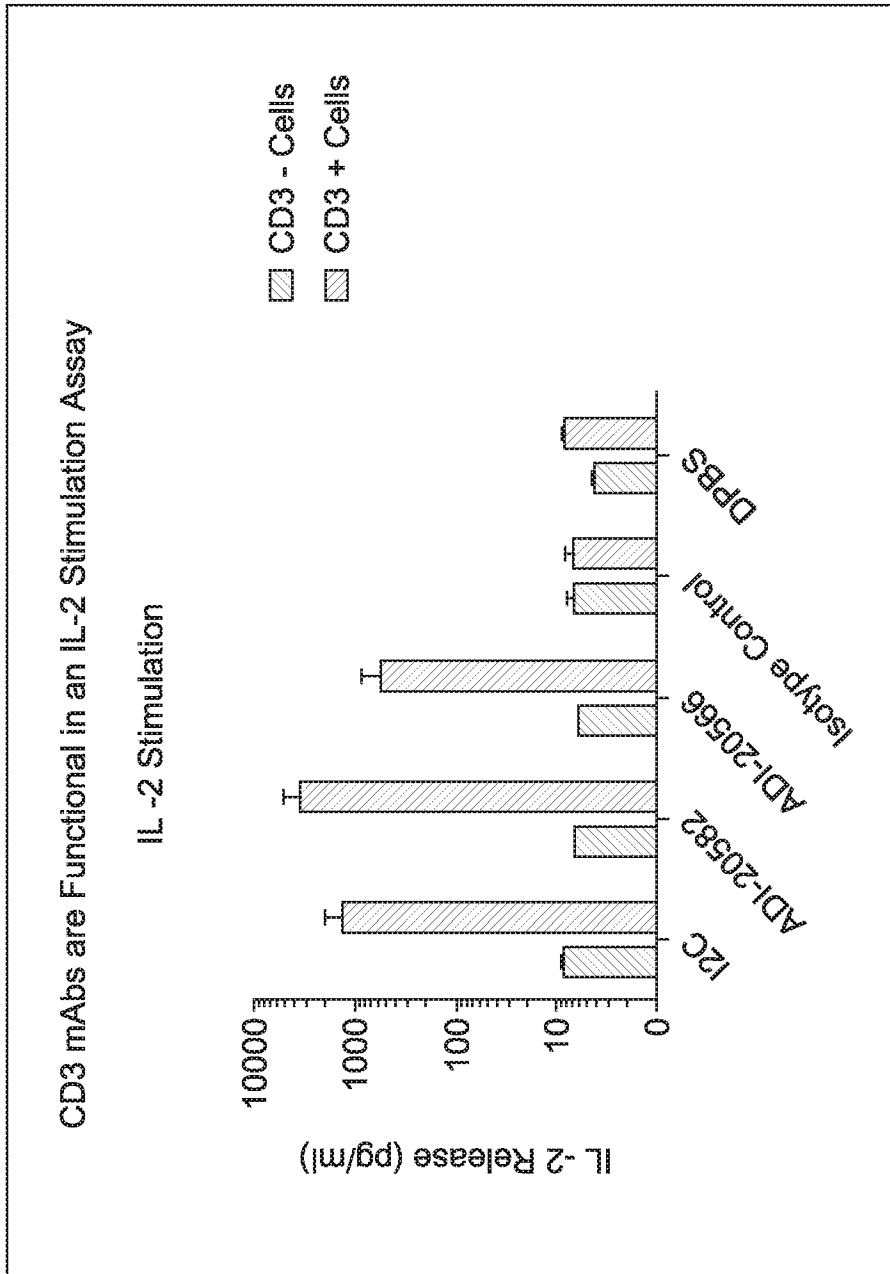


Figure 17

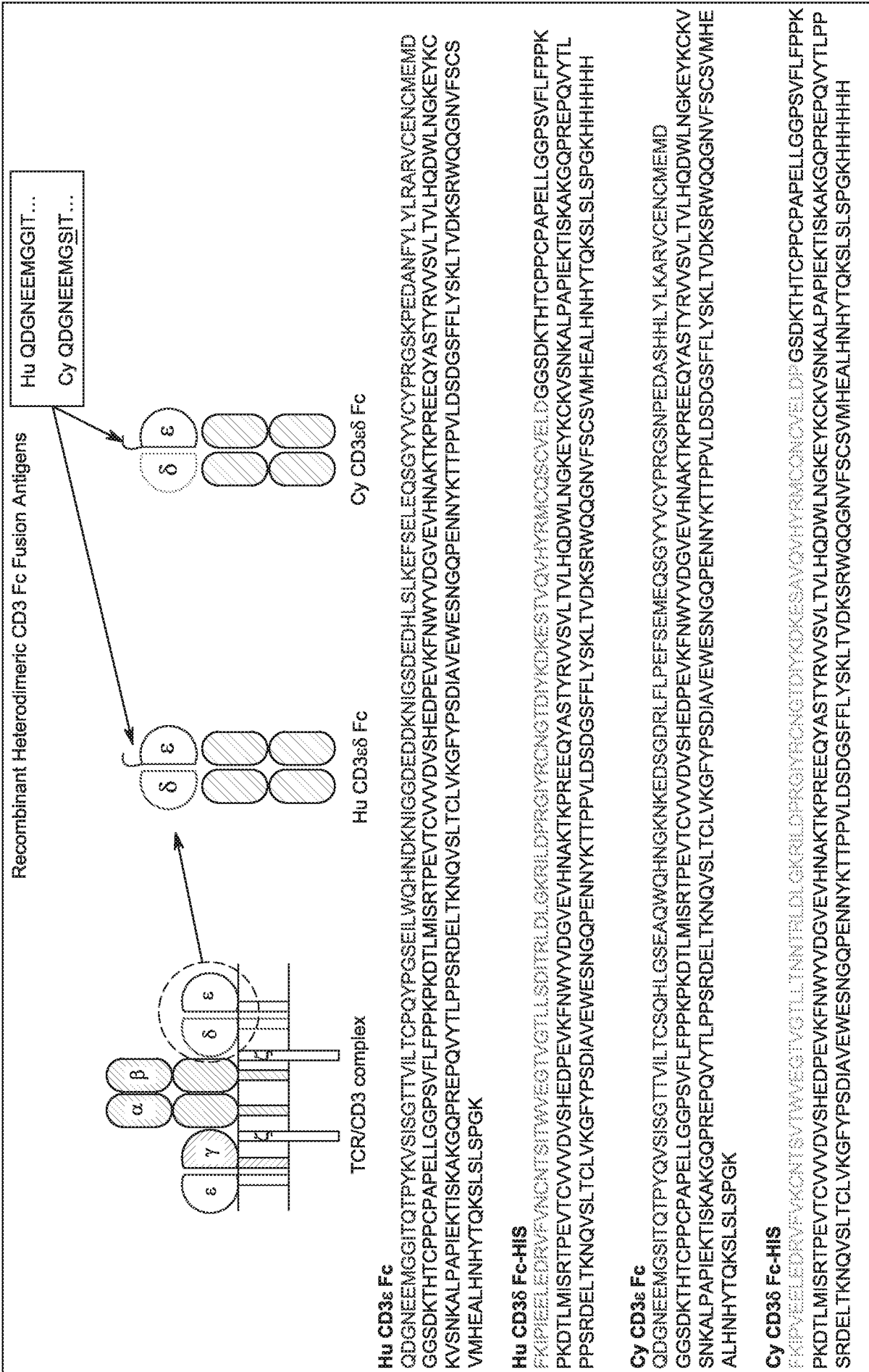


Figure 18

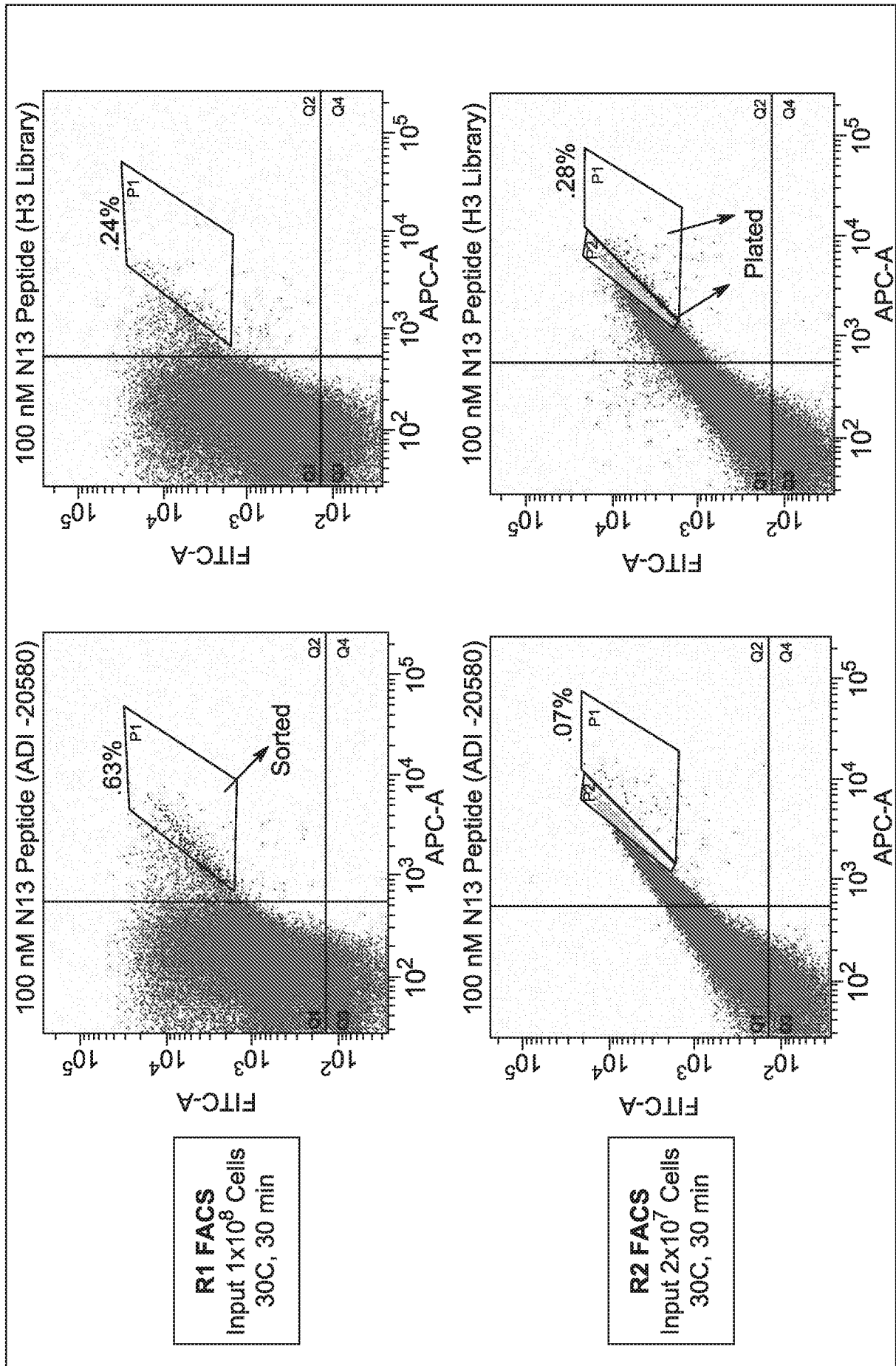


Figure 20

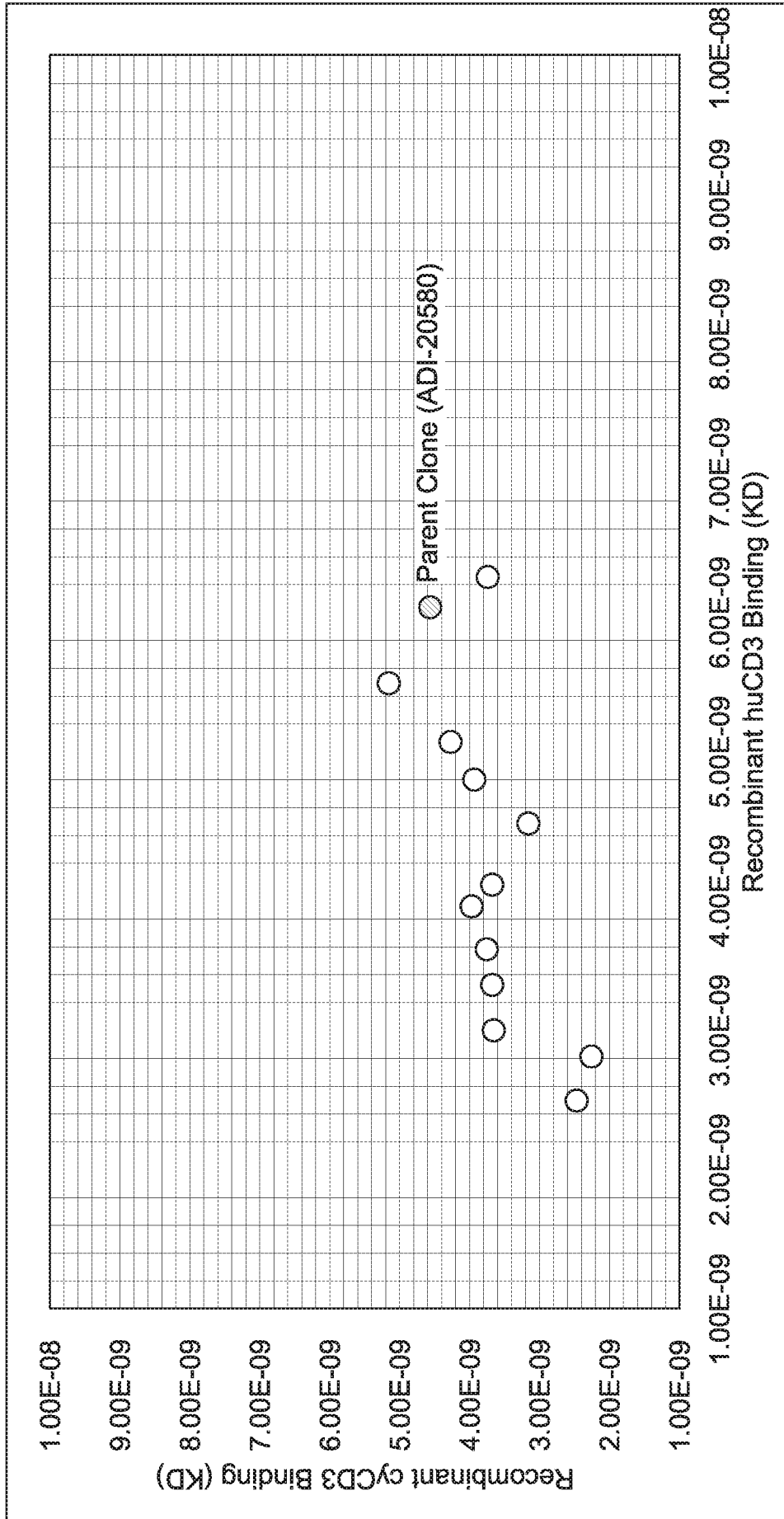


Figure 21

ADI ID	Type	H3	Repeats	K _D Cy CD3 ϵ Fc (M)	Jurkat CD3+ (Median MFI)	Jurkat CD3- (Median MFI)	Cy HSC-F (Median MFI)	PSR Score	Fab Tm (°C)
ADI-20580	Parent	ARDGYARYYFDY	50	3.0E-09	5829	220	11651	0.45	N.D.
ADI-21959	Progeny	ARDGYGRYFDY	64	7.8E-09	7735	159	11765	0.28	81.5
ADI-21961	Progeny	ARDGYARYYDY	32	4.0E-09	7123	162	11681	0.23	80.0
ADI-21967	Progeny	ARDGYARYFFDY	2	7.9E-09	7227	147	11808	0.19	79.5
ADI-21969	Progeny	GSDGYARYYFDY	1	1.3E-08	1175	70	1977	0.16	69.0
ADI-21970	Progeny	ARDGYGRYFFDY	1	2.9E-09	7059	170	12091	0.29	81.0
ADI-21960	Progeny	ARDGYARYYFDV	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
ADI-21962	Progeny	SRDGYARYYFDY	2	1.2E-08	7072	137	11697	0.14	76.0
ADI-21963	Progeny	ARDGYARYYFDI	1	6.0E-09	6844	141	11676	0.17	81.5
ADI-21964	Progeny	NRDGYARYYDY	1	8.6E-09	7354	148	12083	0.22	72.0
ADI-21965	Progeny	ARDGYGRYFDA	1	1.0E-09	7110	146	12038	0.28	82.0
ADI-21966	Progeny	ARDGYARYFFDN	1	1.6E-09	6952	157	11501	0.20	77.0
ADI-21968	Progeny	ARDGYGRYFDR	1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
ADI-21973	Rational	ARDGYGRYFYDY	N.A.	3.4E-09	7466	190	12573	0.30	81.5
ADI-21978	Rational	ARDGYGRYFYDV	N.A.	2.2E-09	7432	187	12230	0.29	81.5
ADI-21974	Rational	ARDGYGRYFFDV	N.A.	2.7E-09	7268	170	11486	0.29	82.5
ADI-21971	Rational	ARDGYGRYDYDY	N.A.	1.7E-09	7297	180	12398	0.27	81.5
ADI-21972	Rational	ARDGYGRYDYDV	N.A.	3.8E-09	7569	183	12670	0.30	83.0

Figure 22

ADI-21978 Potential Degradation Motifs						
ADI ID	CDR H2	CDR H3	CDR L1	Fab KD Cy CD3εδ Fc (nM)		
ADI-21978 (ADI-22523)	WIDLENGNTIYDPKFQG	ARDGYGRYFYDV	KSSQSLLSRTGKNYLA	2.1		
ADI-23667	WIDLENANTIIYDPKFQG	ARDGYGRYFYDV	KSSQSLLSRTGKNYLA	2.3		
ADI-23668	WIDLENGNTIYDAKFQG	ARDGYGRYFYDV	KSSQSLLSRTGKNYLA	1.5		
ADI-23669	WIDLENGNTIYDPKFQG	AR <u>DAY</u> GRYFYDV	KSSQSLLSRTGKNYLA	4.1		
ADI-23660	WIDLENGNTIYDAKFQG	ARDGYGRYFYDV	KSSQSLLN <u>ART</u> GKNYLA	1.7		

ADI ID	CDR H2	CDR H3	CDR L1	Fab KD Cy CD3εδ Fc (nM)		
ADI-21978 (ADI-22523)	WIDLENGNTIYDPKFQG	ARDGYGRYFYDV	KSSQSLLSRTGKNYLA	3.4		
ADI-25133	WIDLENANTIIYDAKFQG	AR <u>DAY</u> GRYFYDV	KSSQSLLN <u>ART</u> GKNYLA	4.2		

Figure 23A

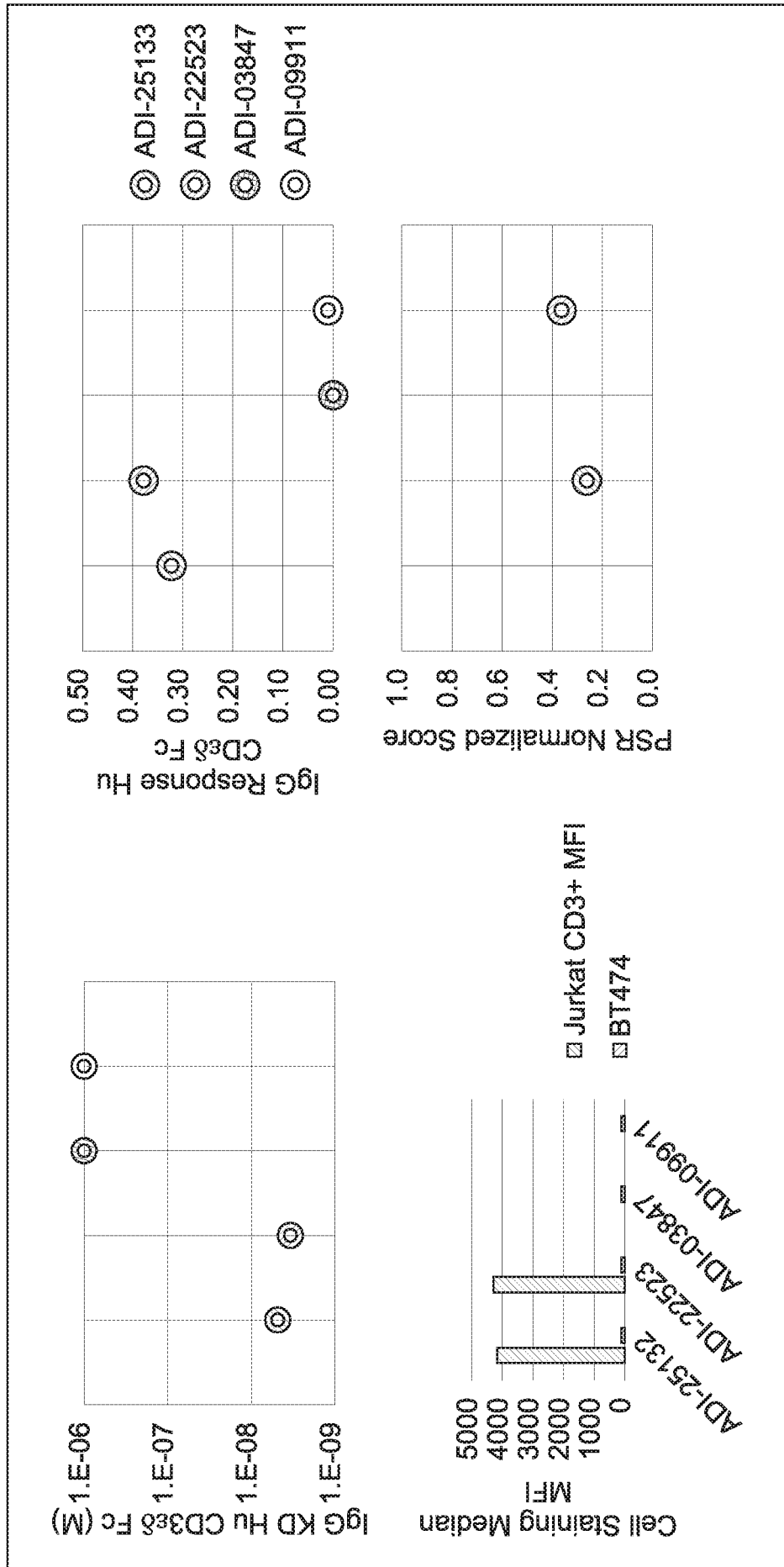


Figure 23B

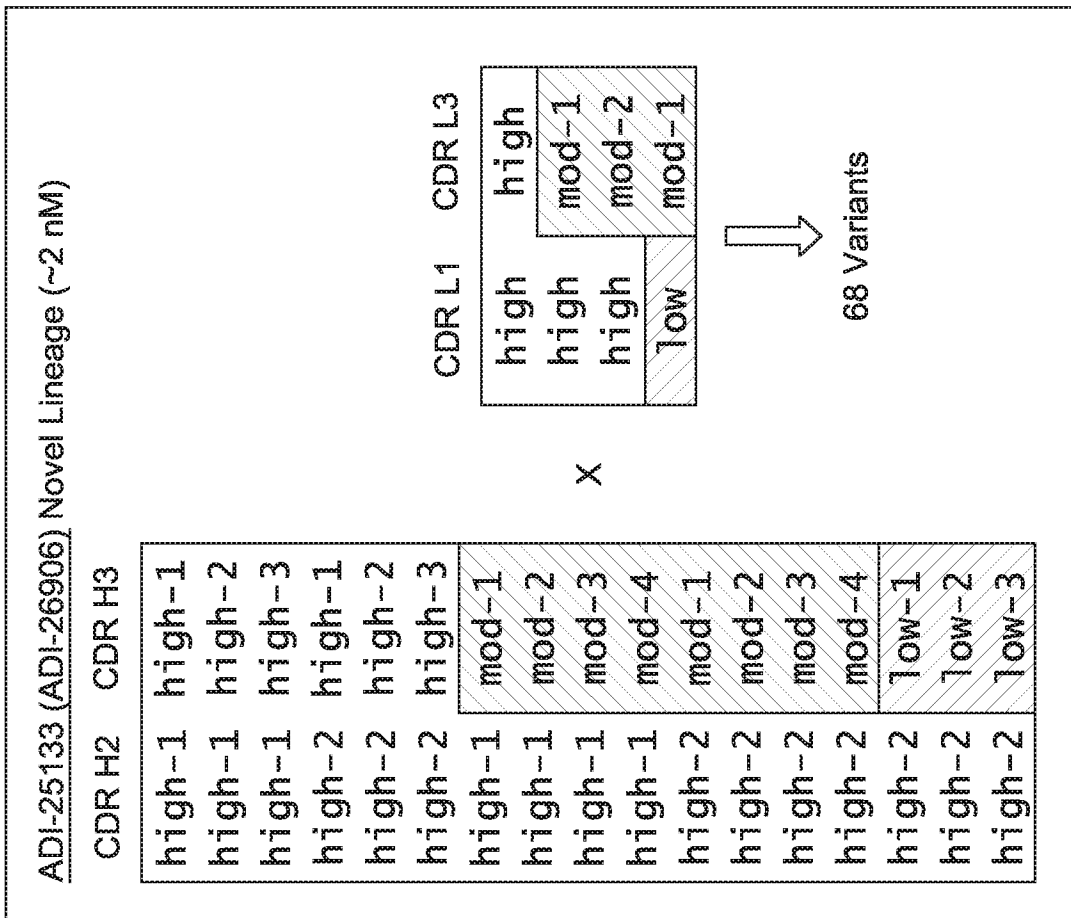


Figure 25A

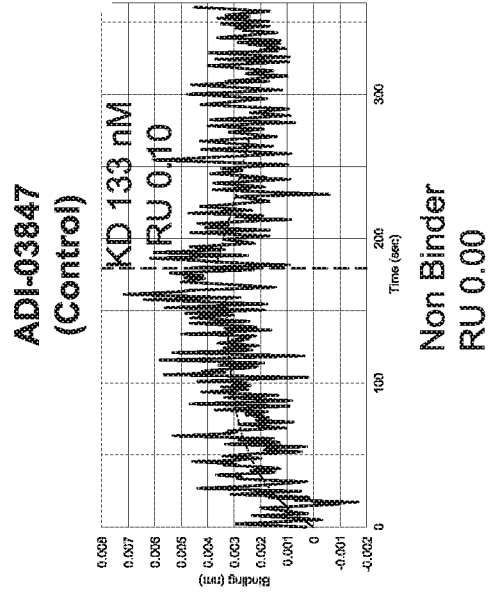
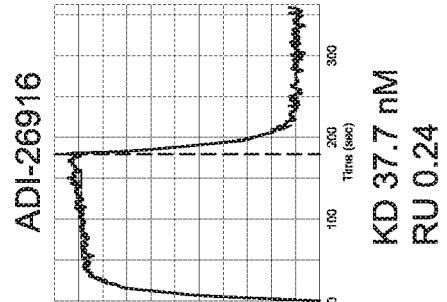
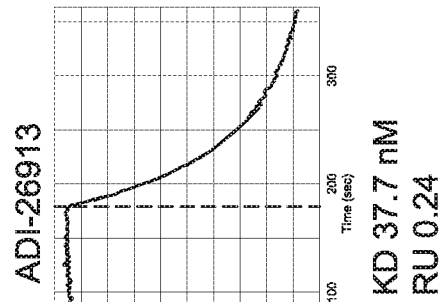
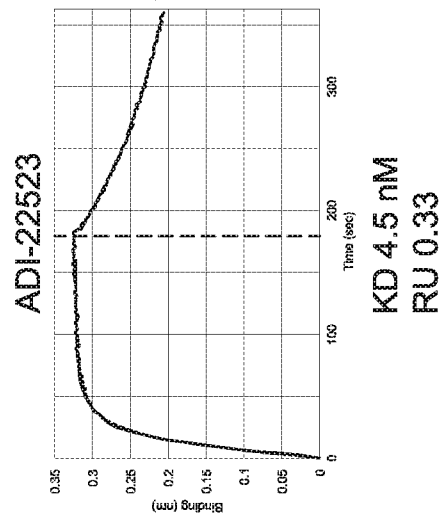
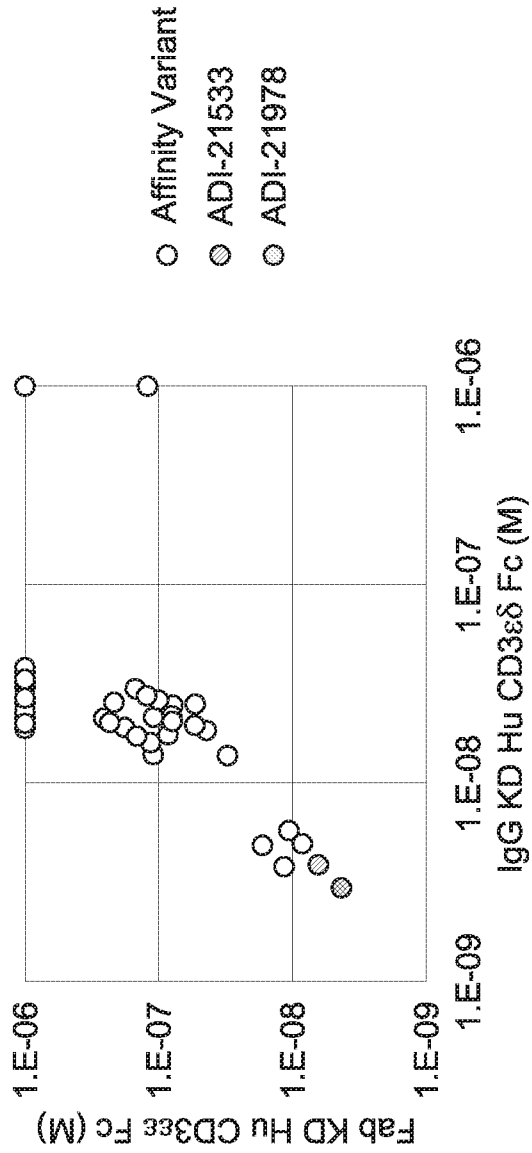


Figure 25B

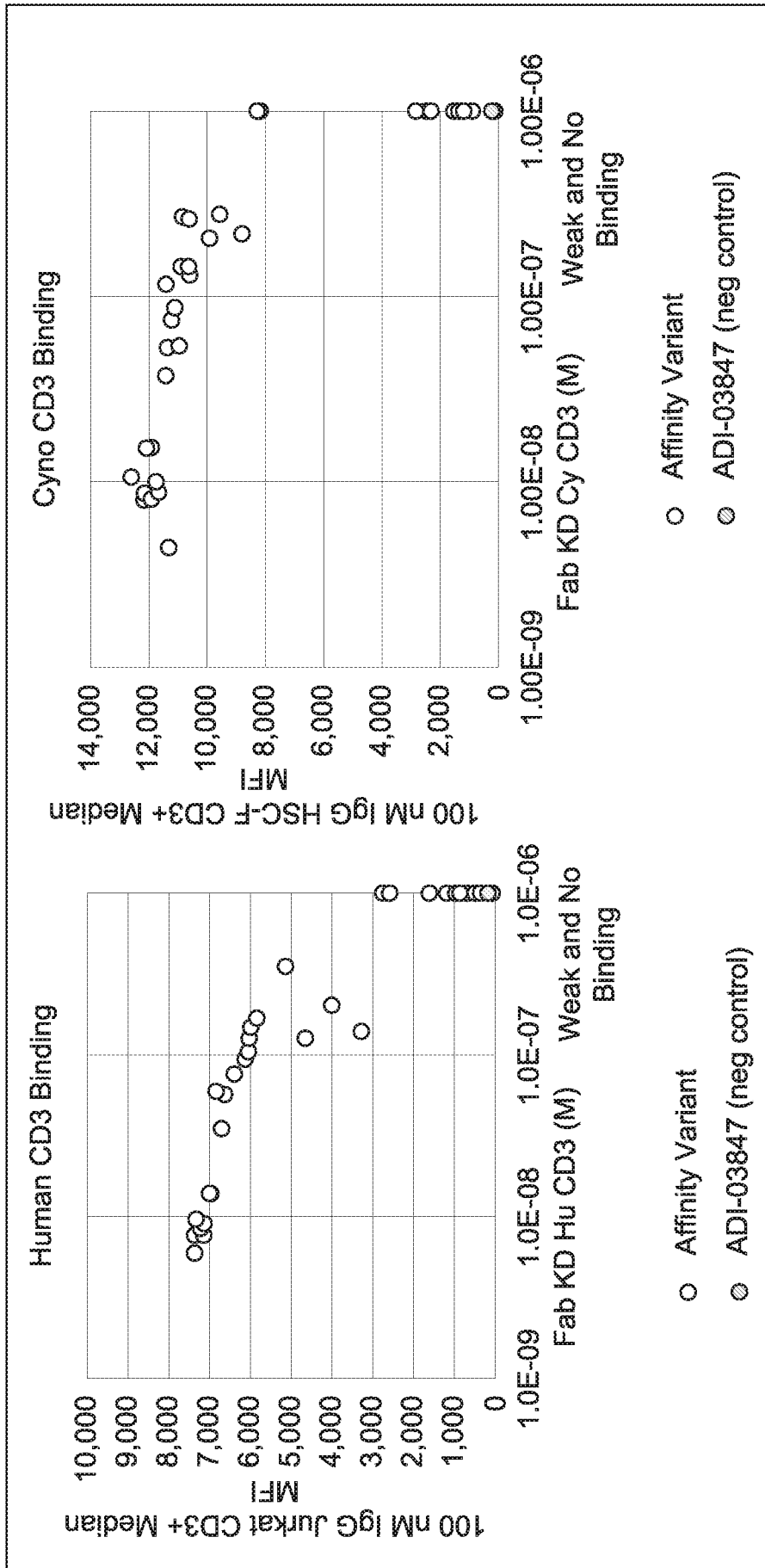


Figure 25C

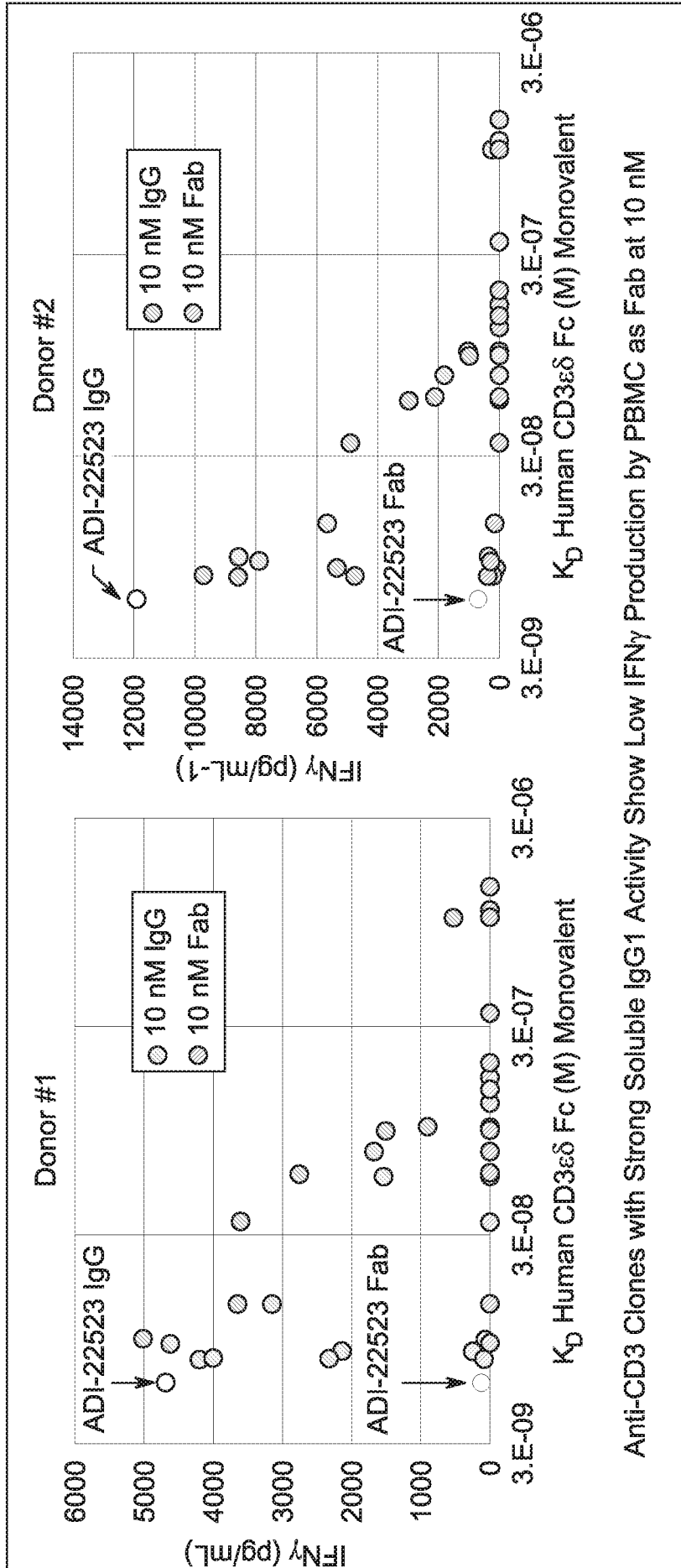


Figure 25D

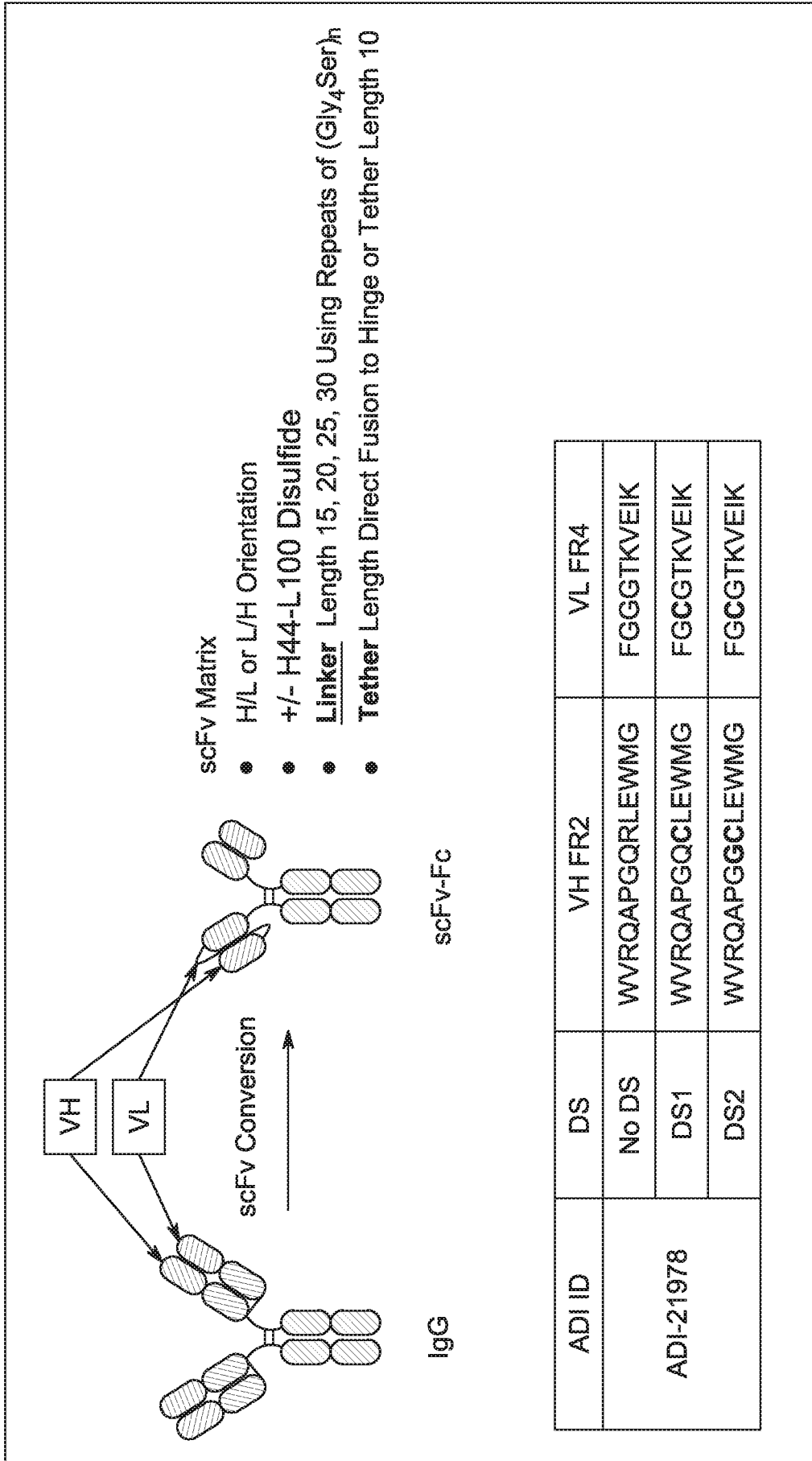


Figure 26A

Parent	Type	#	KD Hu CD3 $\epsilon\delta$ Fc (M)	Fold Reduction	KD Cy CD3 $\epsilon\delta$ Fc (M)	Fold Reduction
ADI-21978	IgG	1	2.7E-09	N/A	1.9E-09	N/A
	scFv-Fc	15	5.9E-09	2.2	4.8E-09	2.5
	scFv-Fc (DS1)	13	6.0E-09	2.6	6.9E-08	3.6
	scFv-Fc (DS2)	1	7.2E-09	2.7	6.4E-09	3.4

Figure 26B

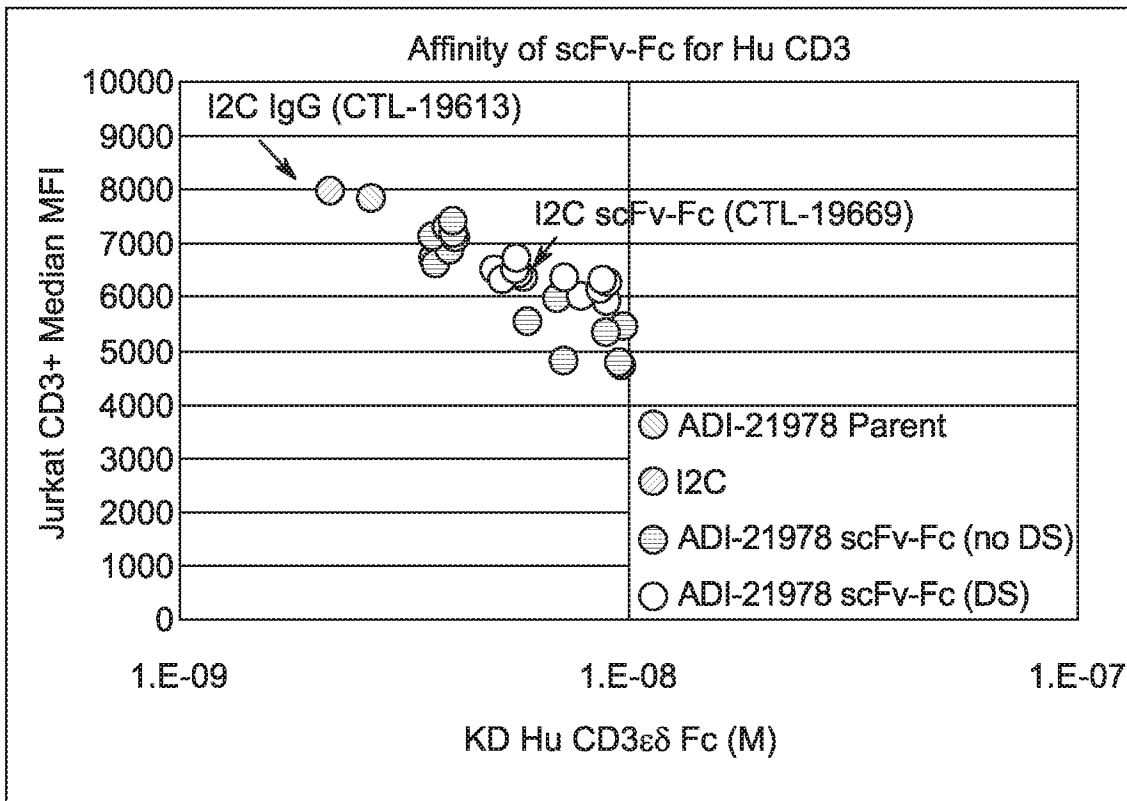


Figure 26C

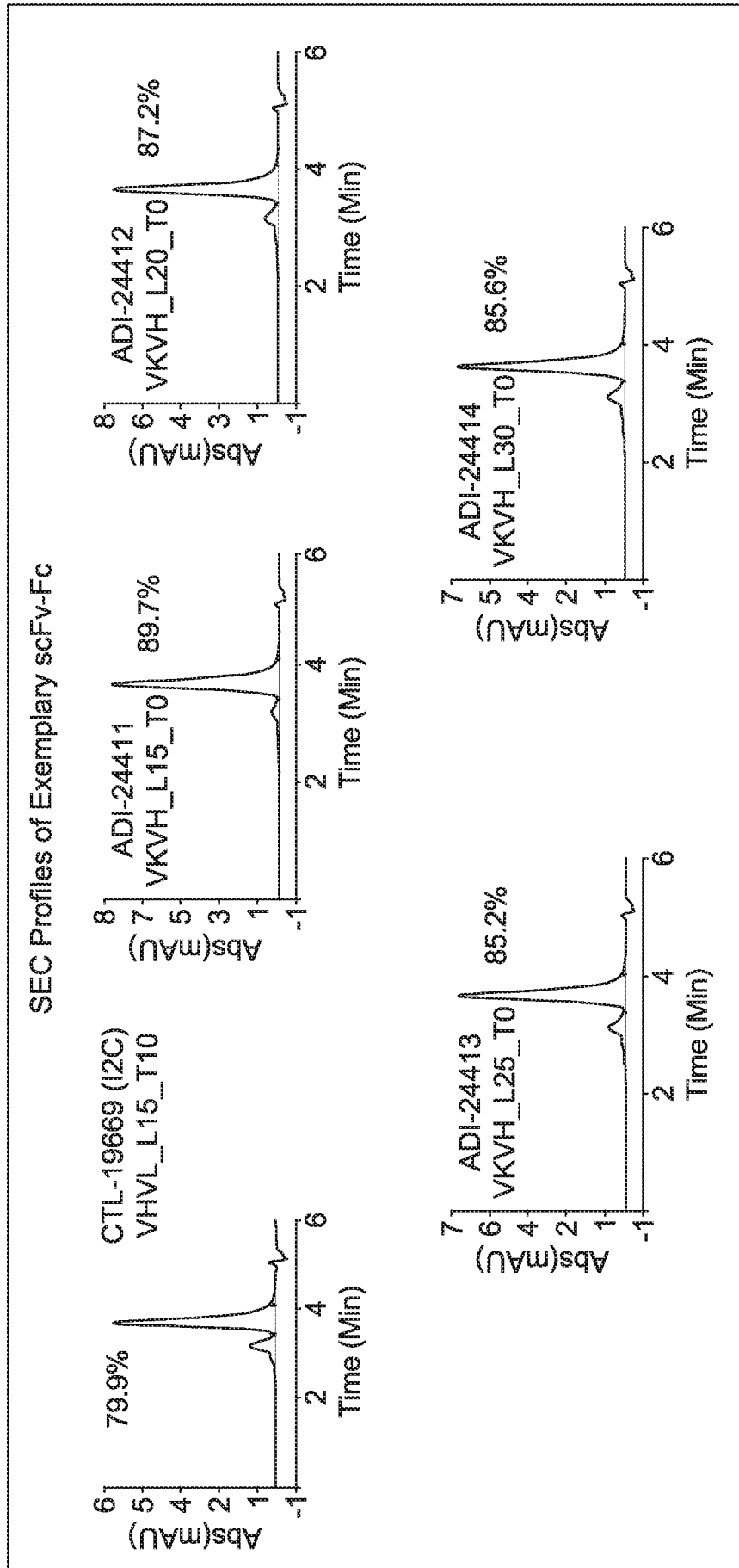


Figure 26D

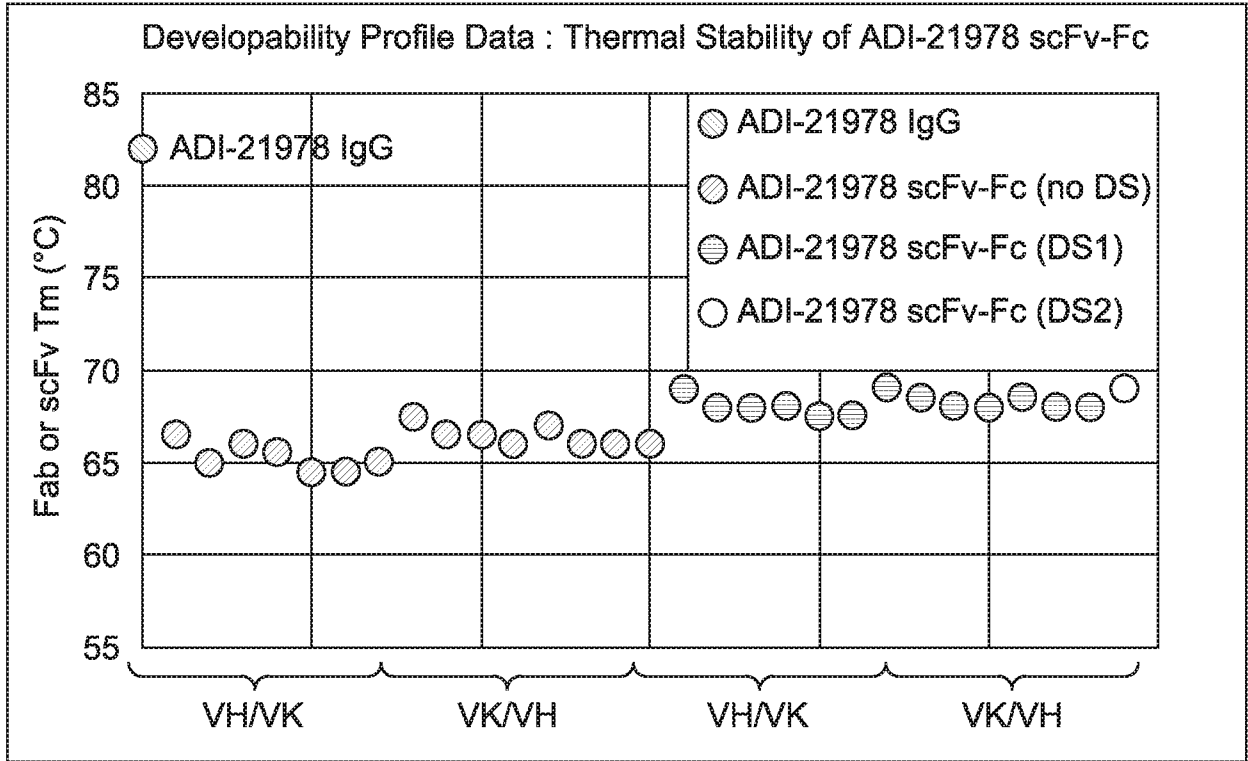


Figure 26E

Developability Profile Data					
Parent	Type	#	DSF Tm (°C)	ΔT_m Fab/scFv	ΔT_m +/-DS
ADI-21978	IgG	1	82.0	N/A	N/A
	scFv-Fc	15	65.9	-16.1	N/A
	scFv-Fc (DS1)	13	68.2	-13.8	+2.3
	scFv-Fc (DS2)	1	69.0	-13.0	+3.1

Figure 26F

Developability Profile Data: HIC Retention Time

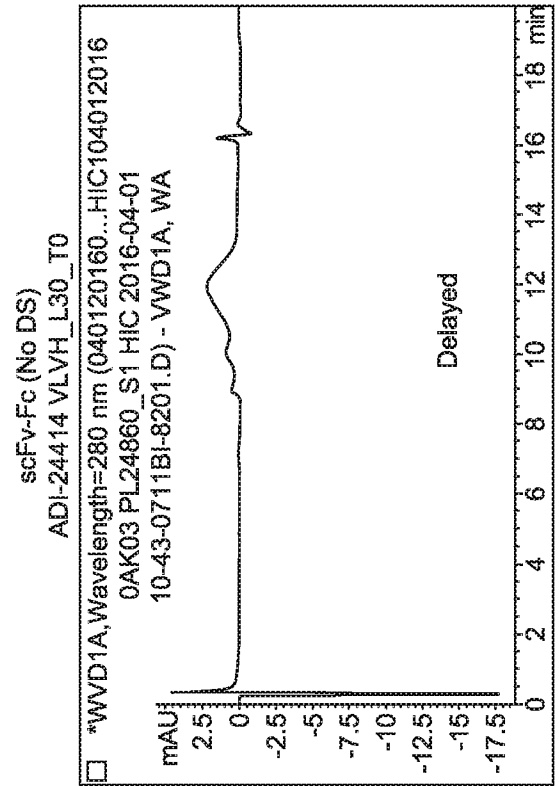
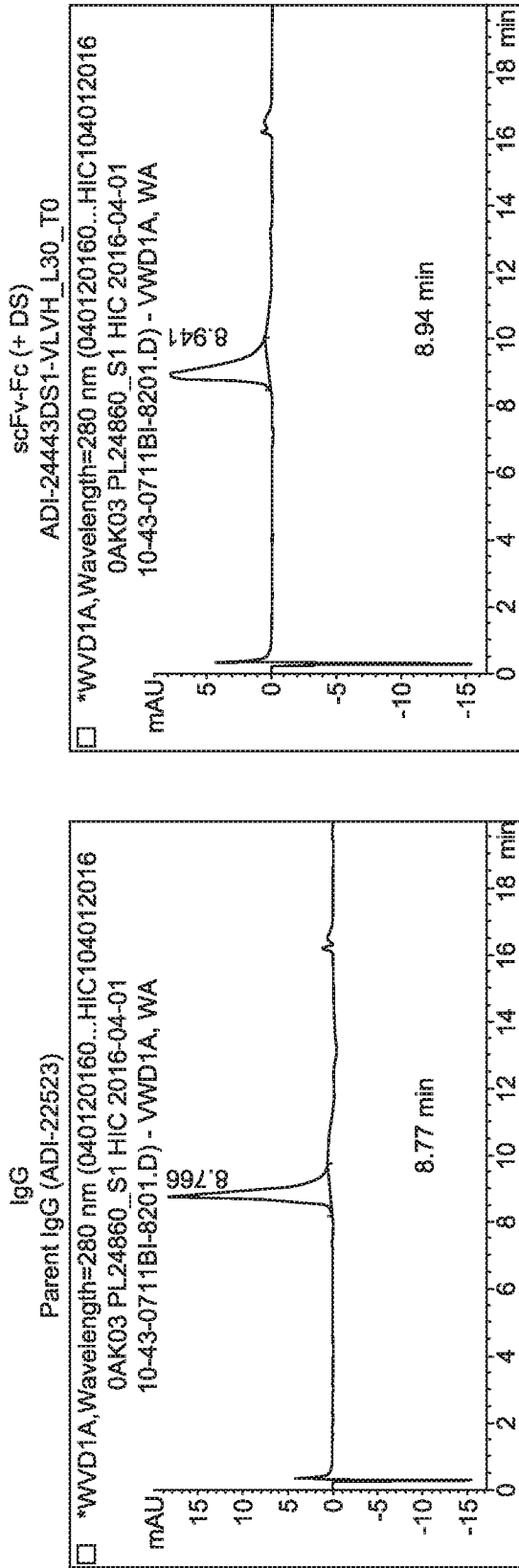


Figure 26G

HC Design	Germline	FR Mutations	Proteing Sequence
HuSP34-HC1	VH3-23	0	EVQLLESGGGLVQPGGSLRLSCAASGFTFNTYAMNWVRQAPGKGLEWVSRIRSKYNNYATYY ADSVKDRFTISRDNKNTLYLQMNLSLRAEDTAVYYCVRHGNFGNSVSWFAYWGQGTLLVTVSS
HuSP34-HC2	VH3-23	3	EVQLLESGGGLVQPGGSLRLSCAASGFTFNTYAMNWVRQAPGKGLEWVARIRSKYNNYATYY ADSVKDRFTISRDDSSTLYLQMNLSLRAEDTAVYYCVRHGNFGNSVSWFAYWGQGTLLVTVSS
HuSP34-HC3	VH3-72	0	EVQLVESGGGLVQPGGSLRLSCAASGFTFNTYAMNWVRQAPGKGLEWVGRIRSKYNNYATYY ADSVKDRFTISRDDSSTLYLQMNLSLRAEDTAVYYCVRHGNFGNSVSWFAYWGQGTLLVTVSS
HuSP34-HC4	VH3-72	1	EVQLVESGGGLVQPGGSLRLSCAASGFTFNTYAMNWVRQAPGKGLEWVARIRSKYNNYATYY ADSVKDRFTISRDDSSTLYLQMNLSLRAEDTAVYYCVRHGNFGNSVSWFAYWGQGTLLVTVSS
LC Design	Germline	FR Mutations	Proteing Sequence
HuSP34-LC1	VL8-61	0	QTVTQEPSFSVSPGGTVTLTCRSSTGAVTTSNYANWYQQTPGQAPRTLIIYGTNKRAPGVPPDR FSGSILGNKAALITITGAQADDESDDYCALWYSLWVFGGGTKLTVL
HuSP34-LC2	VL8-61	1	QTVTQEPSFSVSPGGTVTLTCRSSTGAVTTSNYANWYQQTPGQAPRTLIIYGTNKRAPGVPPDR FSGSILGNKAALITITGAQADDESDDYCALWYSLWVFGGGTKLTVL
HuSP34-LC3	VL8-61	5	QTVTQEPSFSVSPGGTVTLTCRSSTGAVTTSNYANWYQQTPGQAPRGLIGGTNKRAPGVPPDR FSGSLLGDKAALITITGAQADDESDDYCALWYSLWVFGGGTKLTVL
HuSP34-LC4	VL7-46	0	QAVTQEPSLTVSPGGTVTLTCRSSTGAVTTSNYANWFQQPGQAPRTLIIYGTNKRAPWTPAR FSGSLLGGKAALTLGSAQPEDEAEYCALWYSLWVFGGGTKLTVL
HuSP34-LC5	VL7-46	6	QAVTQEPSLTVSPGGTVTLTCRSSTGAVTTSNYANWYQQPGQAPRGLIGGTNKRAPGVPPAR FSGSLLGDKAALTLGSAQPEDEAEYCALWYSLWVFGGGTKLTVL
HuSP34-LC6	VH3-15	0	EIVMTQSPATLSVSPGERATLSCRSTGAVTTSNYANWYQQKPGQAPRLLIYGTNKRAPGIPAR FSGSGSGTEFTLTISSLQSEDFAVYCALWYSLWVFGGGTKVEIK
HuSP34-LC7	VH3-15	6	EIVMTQSPATLSVSPGERATLSCRSTGAVTTSNYANWYQQKPGQAPRGLIGGTNKRAPGVPPAR FSGSGSGDEATLTISSLQSEDFAVYCALWYSLWVFGGGTKVEIK

Mutations Occurring with Respect to Human Germline Highlighted in RED

Figure 27

Type	HC	LC	ADI ID	Fab K _D Hu CDεδ Fc (M)	Fab K _D Cy CDεδ Fc (M)	Jurkat CD3+ 100nM Fab (MFI)	Jurkat CD3- 100nM Fab (MFI)	HSC-F 100 nM Fab (MFI)	Fab T _m (°C)	AC-SINS Δλ _{max} (nm)	PSR Norm. MFI
ChSP34				5.8E-09	8.7E-09	1404.9	77.7	11806.1	60.5	9.9	1125.3
	HuSP34-HC3	HuSP34-LC5		3.6E-09	4.9E-09	1992.6	79.1	11843.6	N.D.	26.5	885.8
	HuSP34-HC4	HuSP34-LC7		1.8E-08	2.1E-08	982.1	103.6	10735.0	N.D.	18.3	N.D.
HuSP34	HuSP34-HC2	HuSP34-LC3	ADI-16606	5.8E-09	8.0E-09	1628.9	80.5	11885.9	60.5	5.1	400.2
	HuSP34-HC2	HuSP34-LC5		5.3E-09	7.5E-09	1918.0	102.2	12048.5	N.D.	12.3	N.D.
	HuSP34-HC4	HuSP34-LC5		5.9E-09	7.1E-09	1713.6	84.0	11435.5	N.D.	20.0	720.1

Figure 27 (Continued)

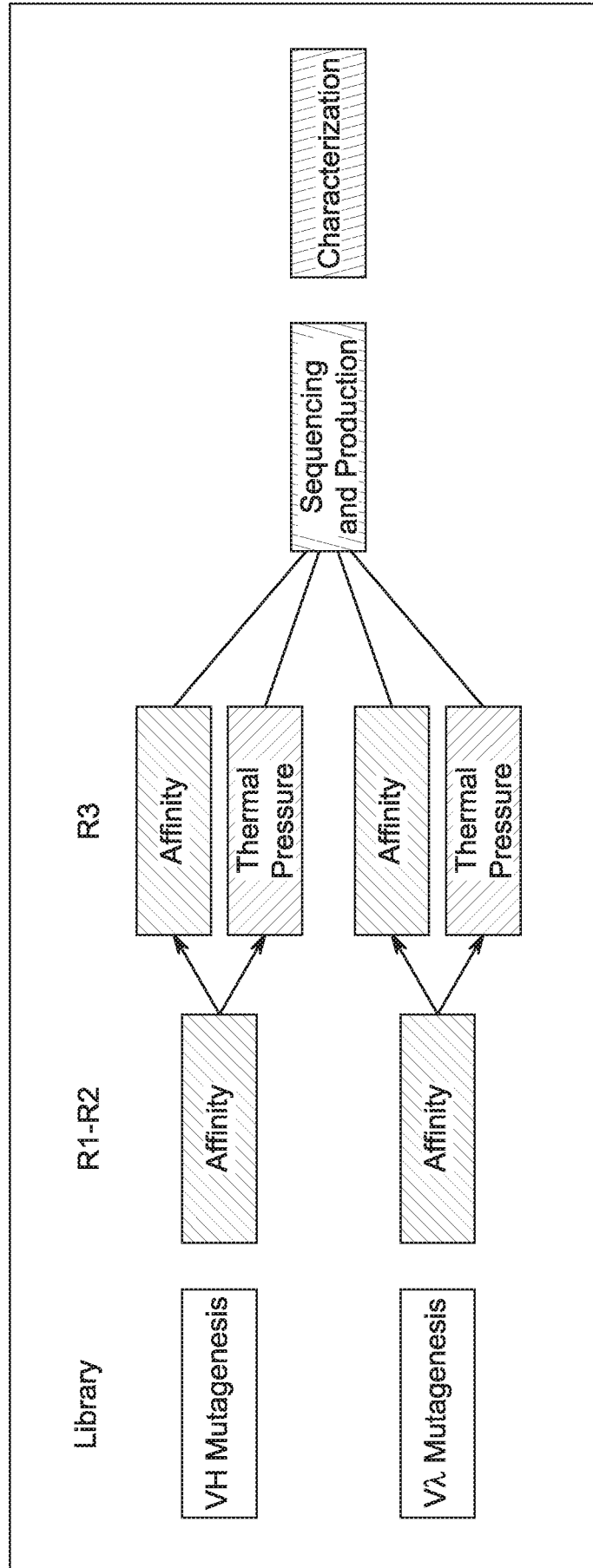


Figure 28A

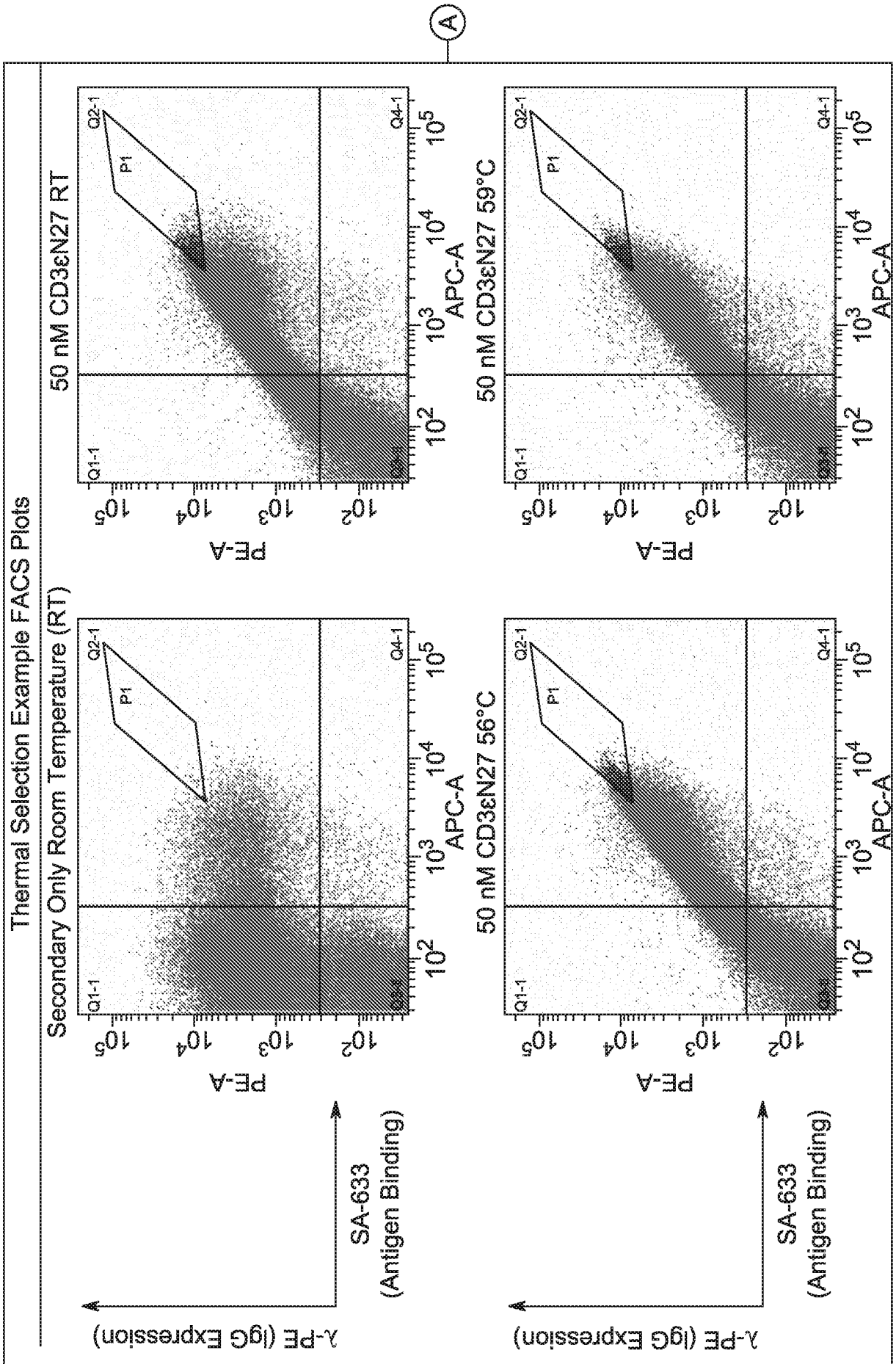
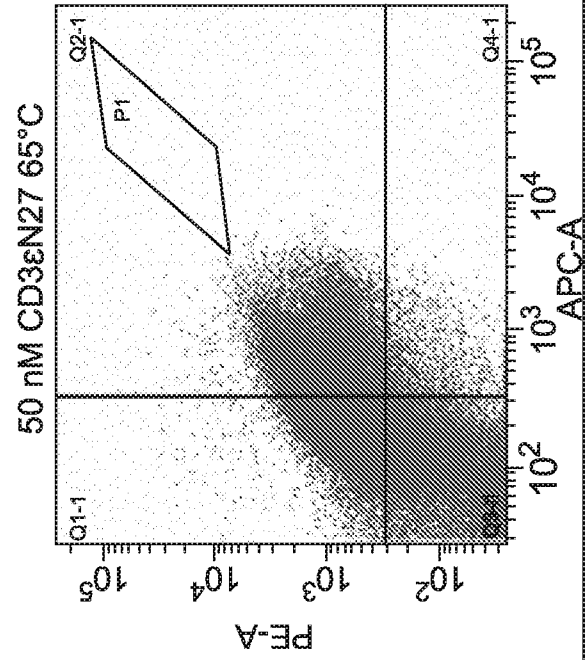
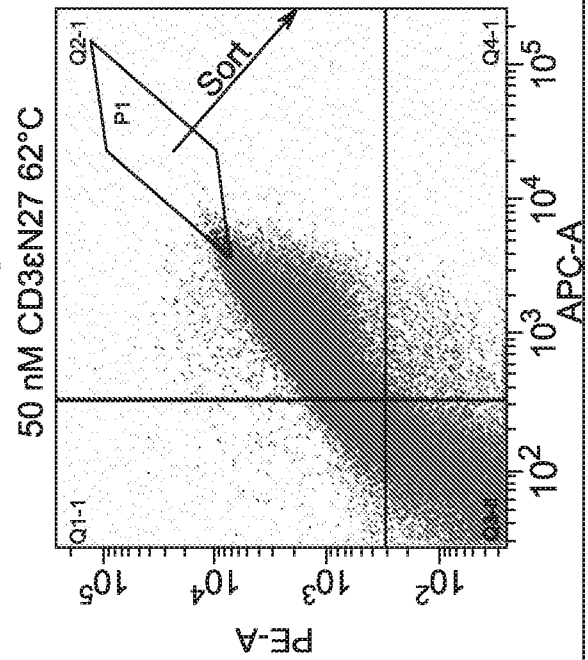
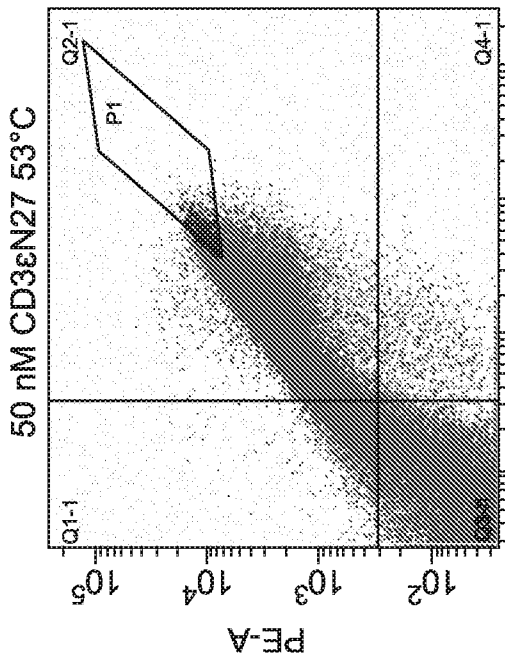


Figure 28B

Thermal Selection Example FACS Plots



A

Figure 28B (Continued)

VA Mutagenesis Affinity-pressured Output Sequencing												
Parent	VAmut	Repeats	VL-FR1	VL-CDR L1	VL-FR2	VL-CDR L2	VL-FR3	VL-CDR L3	VL-FR4			
ADI-16606	Parent	2	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNLW	FGGTTKLTVL			
	L95R	45	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	R24G, L95R	9	QTVVTTQEPSFSVSPGGTVTLTC	GSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	T27A, L95R	7	QTVVTTQEPSFSVSPGGTVTLTC	RSSAGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	F11L, L95R	6	QTVVTTQEPSLSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	K70R, L95R	4	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	T2A, L95R	4	QAVVTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	T2A, T27I, L95R	4	QAVVTQEPSFSVSPGGTVTLTC	RSSIGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	S30G, L95R	2	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	T39A, A43T, L95R	2	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	N52S, L95R	2	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	R24G, K53R	1	QTVVTTQEPSFSVSPGGTVTLTC	GSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNLW	FGGTTKLTVL			
	Q37R, L95R	1	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	T74I, L95R	1	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	K53R, S93N	1	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNLW	FGGTTKLTVL			
	R24K, L95R	1	QTVVTTQEPSFSVSPGGTVTLTC	KSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	L95H	1	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			
	K53R, L95R	1	QTVVTTQEPSFSVSPGGTVTLTC	RSSTGAVTTSNYAN	WVQQTTCQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALTIITGAQADDES	ALWYSNRW	FGGTTKLTVL			

VH Mutagenesis Affinity-pressured Output Sequencing												
Parent	VHmut	Repeats	VH-FR1	VH-FR2	VH-CDR H2	VH-FR3	VH-CDR H3	VH-FR4				
ADI-16606	Parent	80	EVQLLESGGGLVQPGGSLRLSCAASG	FTFNTYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSYVSWFAY	WGQGTLLVTSS					
	G96D, G99R	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFNTYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHDFNFRNSYVSWFAY	WGQGTLLVTSS					
	N30D, Y102H	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFDYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSYVSWFAH	WGQGTLLVTSS					
	Y100H	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFNTYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSHVSWFAY	WGQGTLLVTSS					
	L5V, N54D, Y100bH	1	EVQLVESGGGLVQPGGSLRLSCAASG	FTFNTYAMN	WVRQAPGKGLEWVA	RIRSKYNDYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSHVSWFAY	WGQGTLLVTSS					
	Y102H	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFNTYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSYVSWFAH	WGQGTLLVTSS					
	N30D	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFDYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSYVSWFAY	WGQGTLLVTSS					
	L5S	1	EVQLSESGGGLVQPGGSLRLSCAASG	FTFNTYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSYVSWFAY	WGQGTLLVTSS					
	T31A	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFNAYAMN	WVRQAPGKGLEWVA	RIRSKYNNYATYYADSVKDRFTISRDDSKSTLYLQMNLSRAEDTAVVYCVRHGNGFNSYVSWFAY	WGQGTLLVTSS					

Figure 28C

V7. Mutagenesis Thermal-pressured Output Sequencing

Parent	V7-Mut	Repeats	VL-FR1	VL-CDR L1	VL-FR2	VL-CDR L2	VL-FR3	VL-CDR L3	VL-FR4
ADI-16606	Parent L95R T27A, L95R F11L, L95R R24G, L95R F11L, S93N T2A, T27I, L95R F11L F11L, R24G F11L, T74I, S84A Q1R, F11L, S93N S93N R24G, N52D, D68G T2P T2A, L95R R24G Q1R, R24G, T74I F11L, S12A, N52D, K53Q, A72T T2A, P8Q, T27I, L95R F11L, R24G, S25P T39A, K53Q, S84A A78V, L95R N52D, A78V A72V S84A P8T, F11L, N52D, D81E T74I, L95R R24G, T27A F11L, S84A T2P, T30bA, T39A, K53Q, S93N F11L, N52D, D81E F11L, S84A, S93N	2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		20	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		10	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		9	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		6	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		6	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		6	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		4	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		2	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		1	QAVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
		1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		
1	QTVWTEQPSFSVSPGGTVLTC	RSSTGAVTTSNYAN	WVQQTPGQAPRGLIG	GTNKRAP	GVPDRFSGSLLGDKAALITITGAQADDESDDYCC	ALWYSNLRW	FGGGTKLTVL		

Figure 28D

VH Mutagenesis Thermal-pressured Output Sequencing

Parent	VHMut	Repeats	VH-FR1	VH-CDR H1	VH-FR2	VH-CDR H2	VH-FR3	VH-CDR H3	VH-FR4
ADJ-16606	Parent	78	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	N30D	4	EVQLLESGGGLVQPGGSLRLSCAASG	FTFDYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	V100cd	3	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	L5S, N30S	3	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
G96S	Parent	2	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	V48I	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	N82aD	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	N54D	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNDYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	N30D, D72N	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFDYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
V100cS	Parent	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSYVSWFAY	WGQGTLLTVSS
	V100cH	1	EVQLLESGGGLVQPGGSLRLSCAASG	FTFTYAMN	WVRQAPGKGLEIWA	RIRSKYNNYATYYADSVKD	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGFNGSHVSWFAY	WGQGTLLTVSS

Figure 28D (Continued)

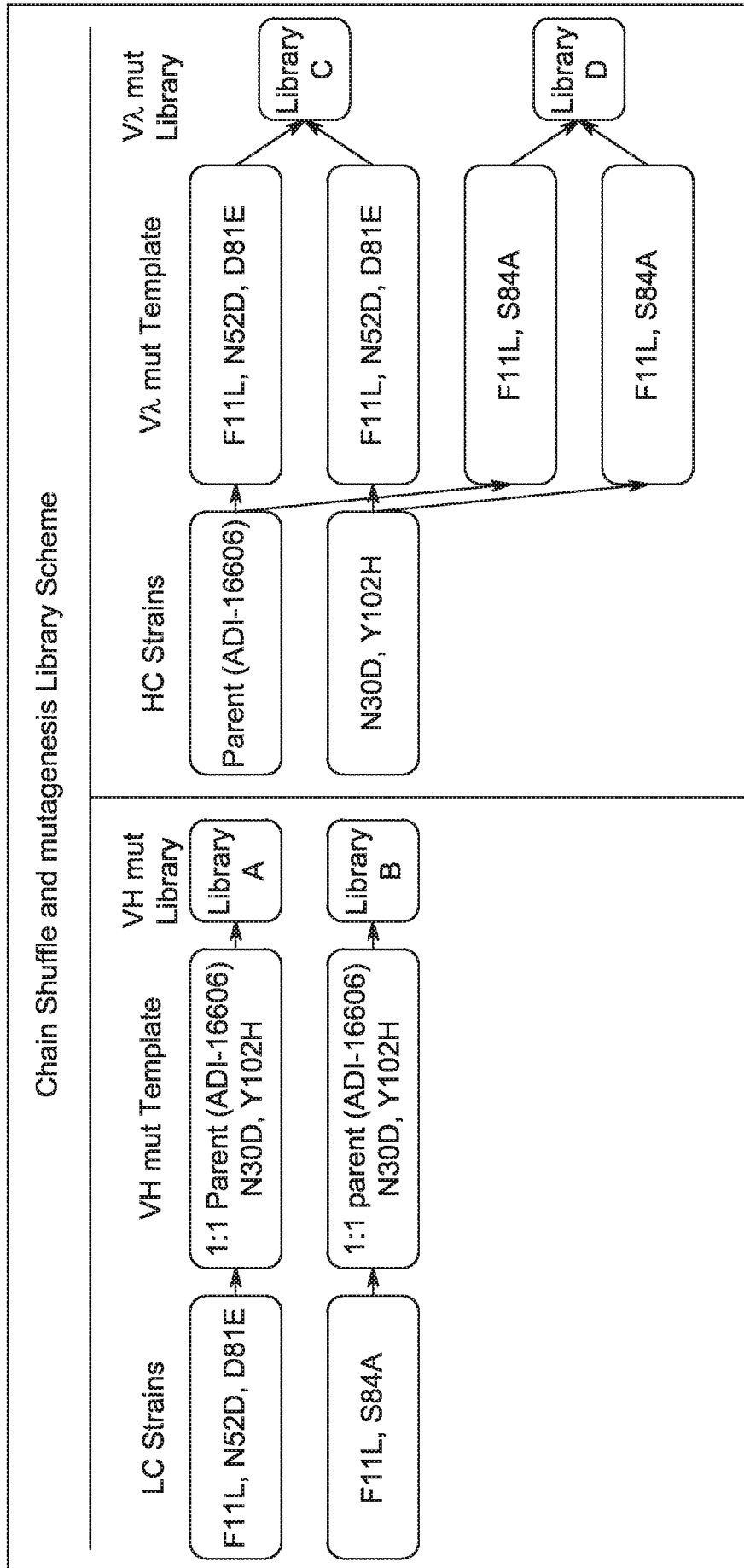


Figure 29A

Parents for Cycle 2 Optimization - Binding and Developability Profile Data

Name	VH mut	Vλ mut	Fab Tm (°C)	IgG Hu CD3εδ Fc-HIS KD (M)	IgG Cy CD3εγ Fc-HIS RU (M)	Jurkat CD3+ MFI	Jurkat CD3- MFI	Jurkat FOB	Cyno HSC-F MFI
CTL-19613			67.5	2.1E-09	2.7E-09	5101	150	34	11654
ADI-16606			61.5	3.5E-09	4.9E-09				
ADI-29601	Parent	F11L, N52D, D81E	66.0	4.5E-09	6.1E-09	5369	92	59	12368
ADI-29602	Parent	F11L, S84A	66.5	4.0E-09	5.3E-09	5737	113	51	12230
ADI-29603	N30D, Y102H	Parent	61.5	3.0E-09	3.5E-09				

Figure 29B

Variant	VL Chain	ADI-20587 K _D 4.1 nM, T _m 66.5°C	ADI-20607 K _D 1.1 nM, T _m 66.0°C	ADI-20690 K _D 4.3 nM, T _m 65.5°C	Stability ●	Expression ○	PSR ⊙	Affinity ⊕
ADI-16606	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL	28X VI Rational Combinations	X	3X HC	●	○	⊙	⊕
LC1	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC2	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC3	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC4	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC5	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC6	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC7	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC8	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC9	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC10	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC11	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC12	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC13	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC14	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC15	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC16	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC17	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC18	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC19	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC20	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC21	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC22	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC23	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC24	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC25	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC26	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC27	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕
LC28	QTVVTEPSLSVSPGGTIVLTCSSSTGAVTTSNYANWVQITPGQAPRGLIGGTDKRAPGVDPDRFSGSLGDKAALITITGAQADDEADYCYCALWYSNLSVWVFGGTTKLTVL				●	○	⊙	⊕

Figure 30

HuSP34 ADI-21952 Potential Degradation Motifs					
ADI-ID	VH FR3	VH CDR H13	Fab KD Hu CD3 ϵ -Fc (nM)	Fab KD Cy CD3 ϵ -Fc (nM)	
ADI-21952	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGNFGNGYVSWFAH	4.5	3.4	
ADI-23633	RFTISRDDSKSTLYLQMESLRAEDTAVYYC	VRHGNFGNGYVSWFAH	4.2	4.1	
ADI-23634	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGNFGNEYVSWFAH	18.0	12.0	
ADI-23636	RFTISRDDSKSTLYLQMNALRAEDTAVYYC	VRHGNFGNGYVSWFAH	3.9	4.1	
ADI-23637	RFTISRDDSKSTLYLQMNSLRAEDTAVYYC	VRHGNFGNAYVSWFAH	21.0	13.0	

Figure 31

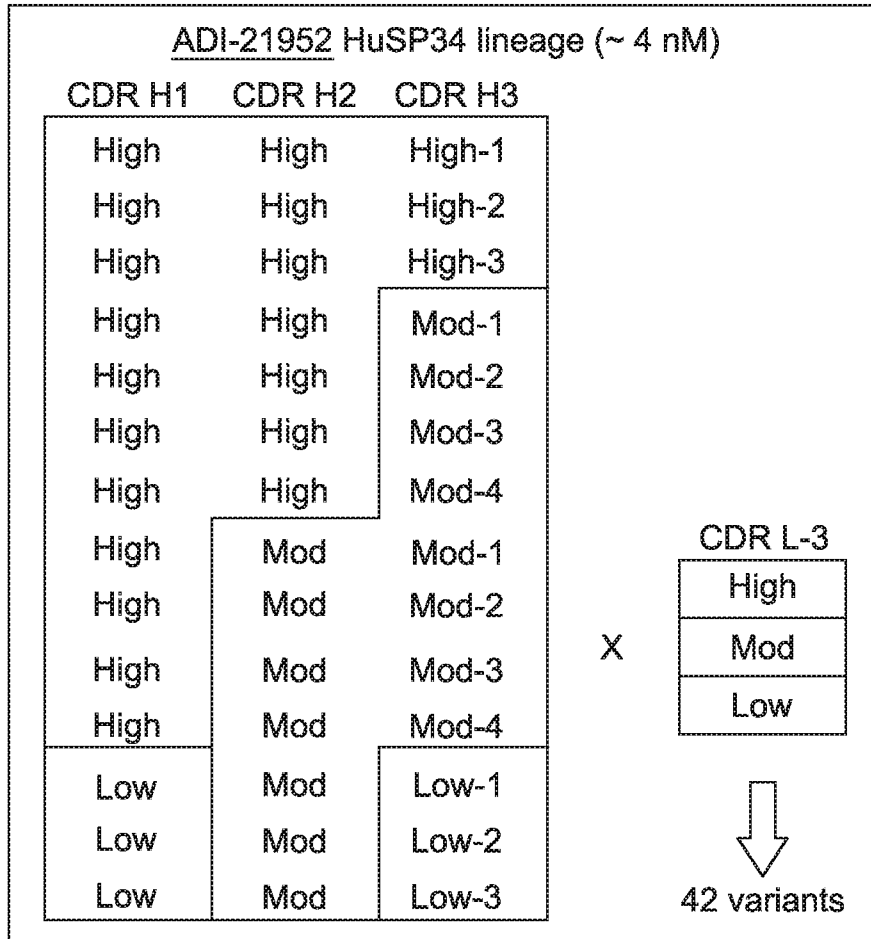


Figure 33A

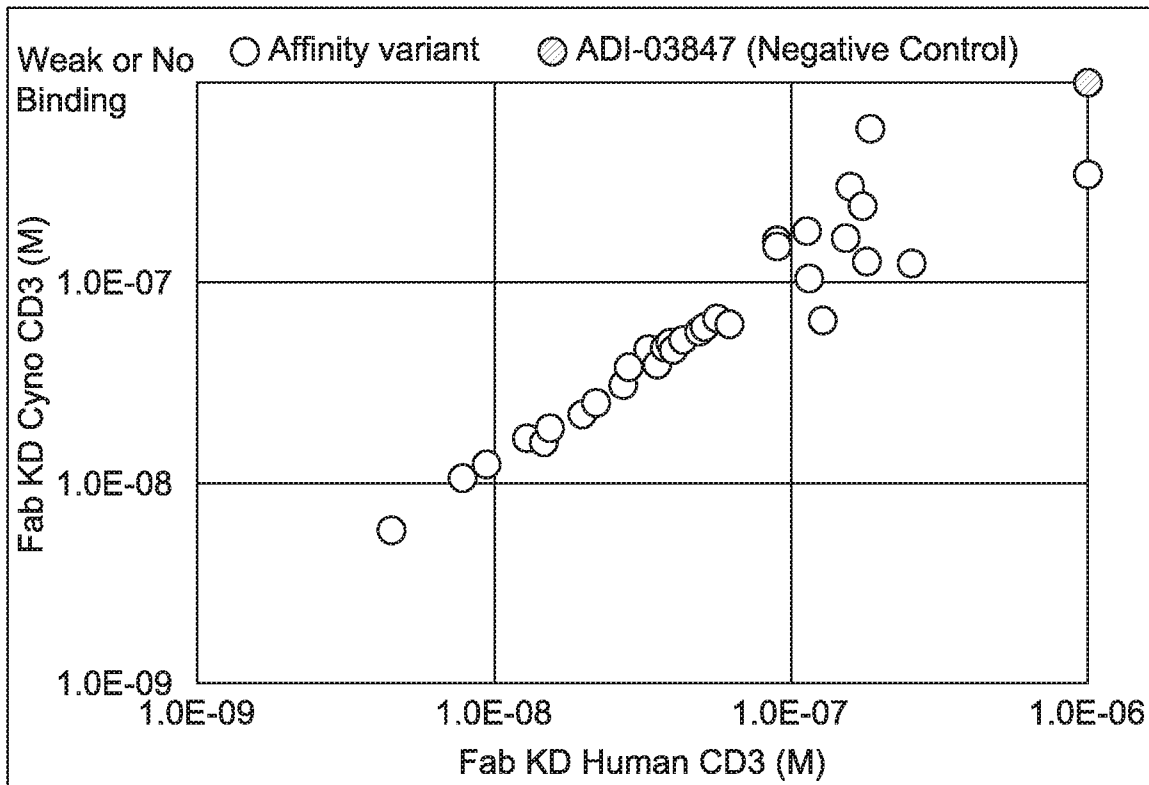


Figure 33B

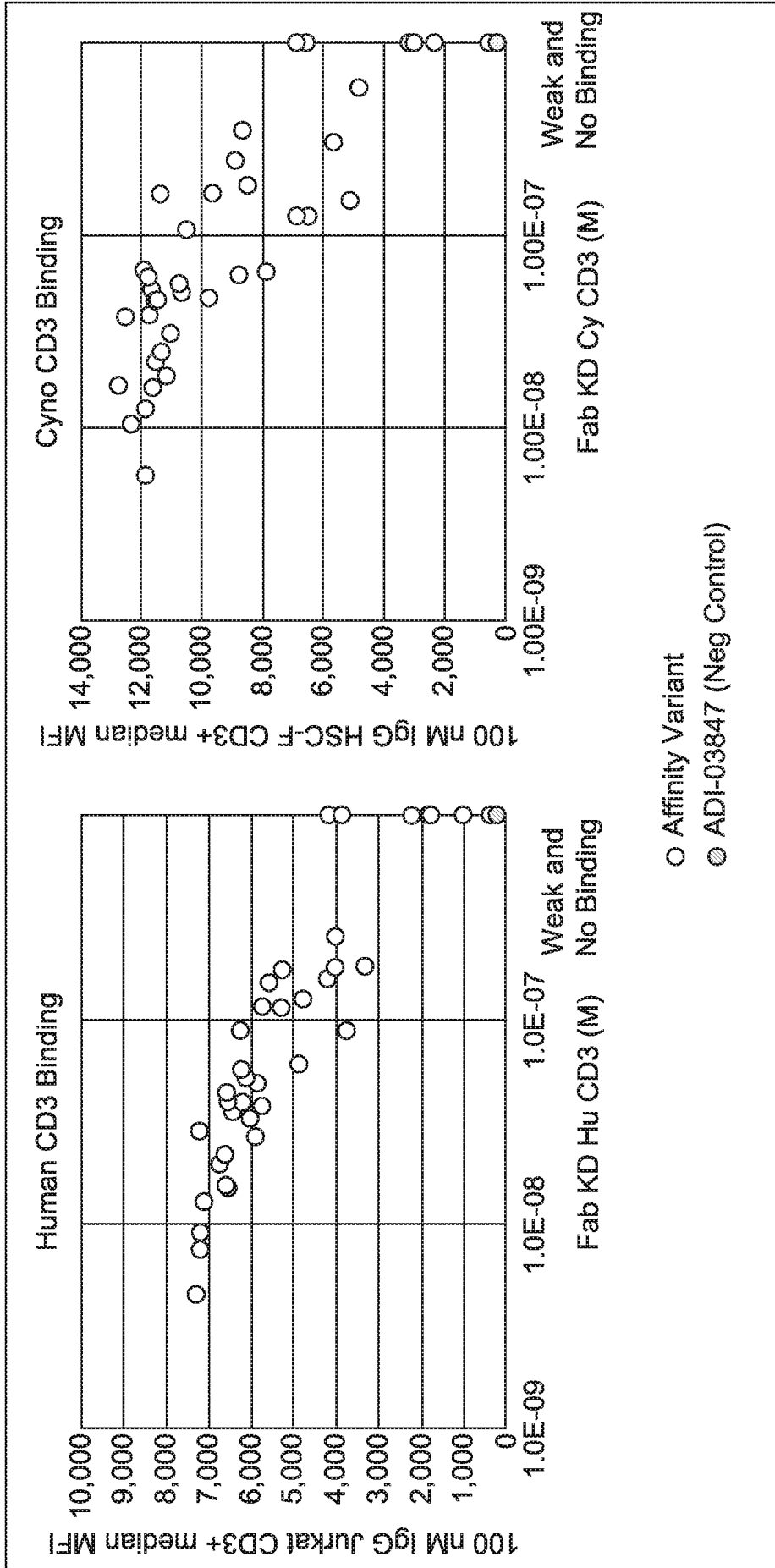


Figure 33C

Parent	Type	#	KD Hu CD3εδ Fc (M)	Fold Reduction	KD Cy CD3εδ Fc (M)	Fold Reduction
ADI-21952	IgG	1	2.7E-09	N/A	2.5E-09	N/A
	scFv-Fc	15	4.9E-09	1.8	4.3E-09	1.7
	scFv-Fc (DS1)	15	2.0E-08	7.4	2.1E-08	8.4
	scFv-Fc (DS2)	2	2.1E-08	7.8	2.3E-08	9.2

Affinity of scFv-Fc for Hu CD3

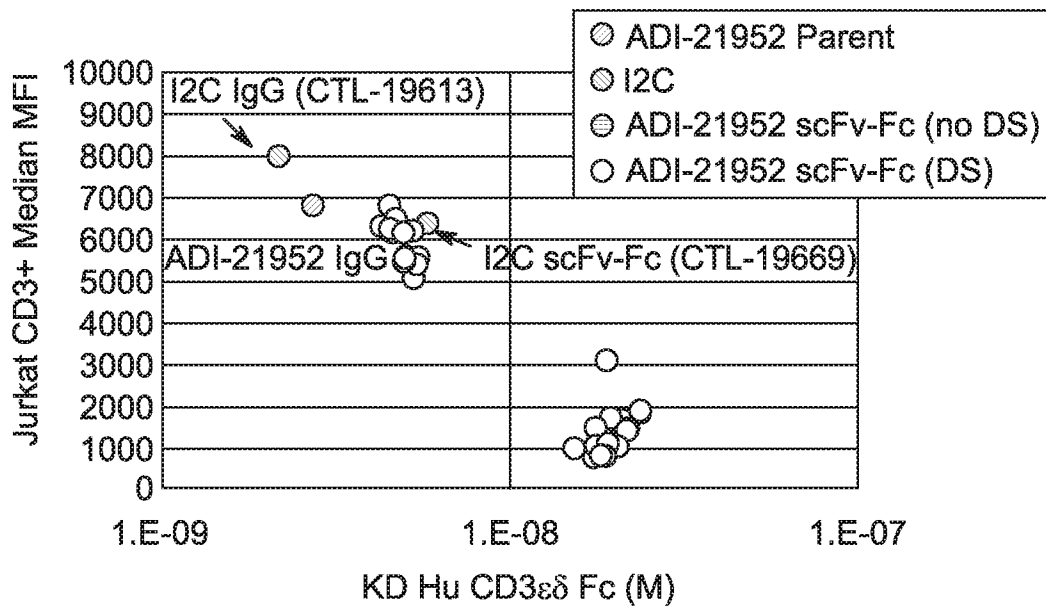


Figure 34A

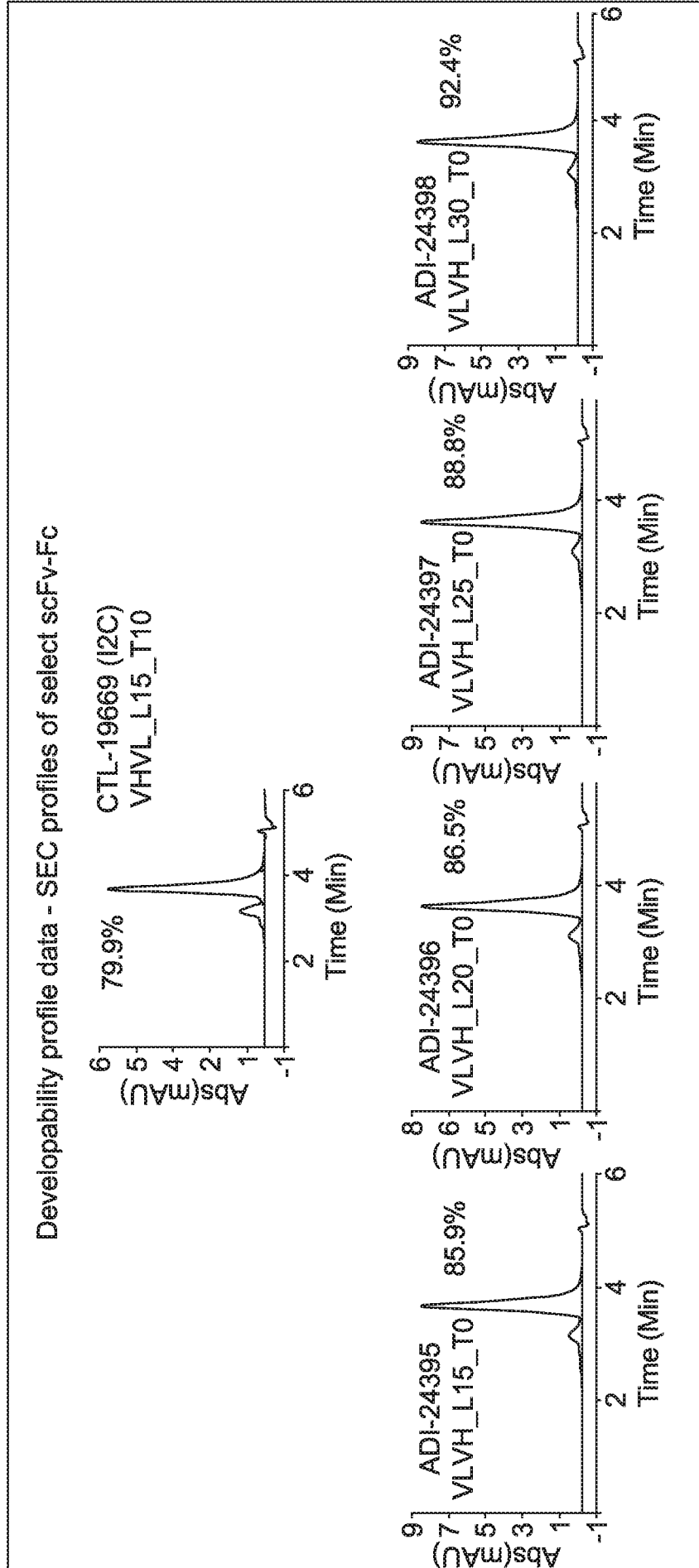


Figure 34B

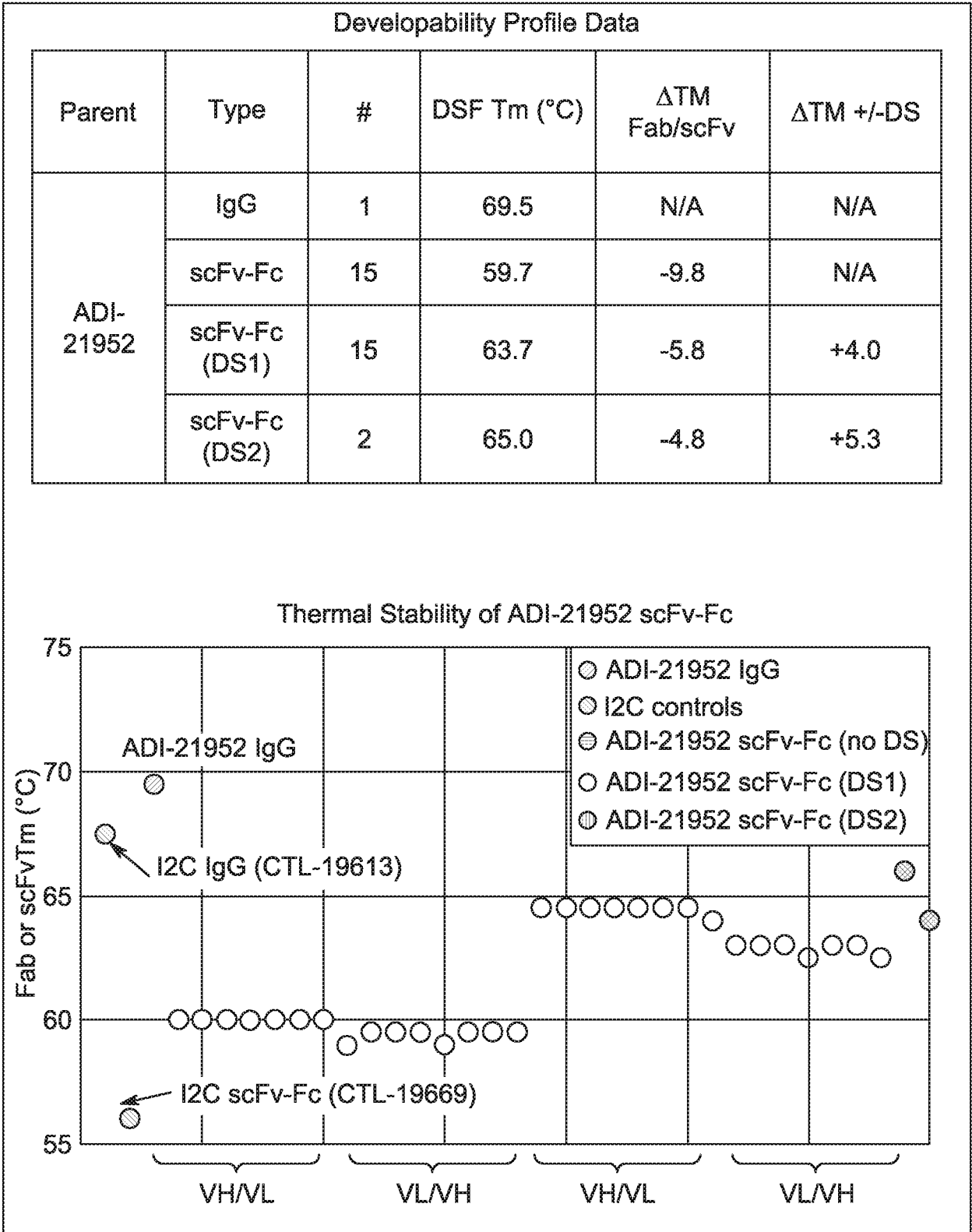


Figure 34C

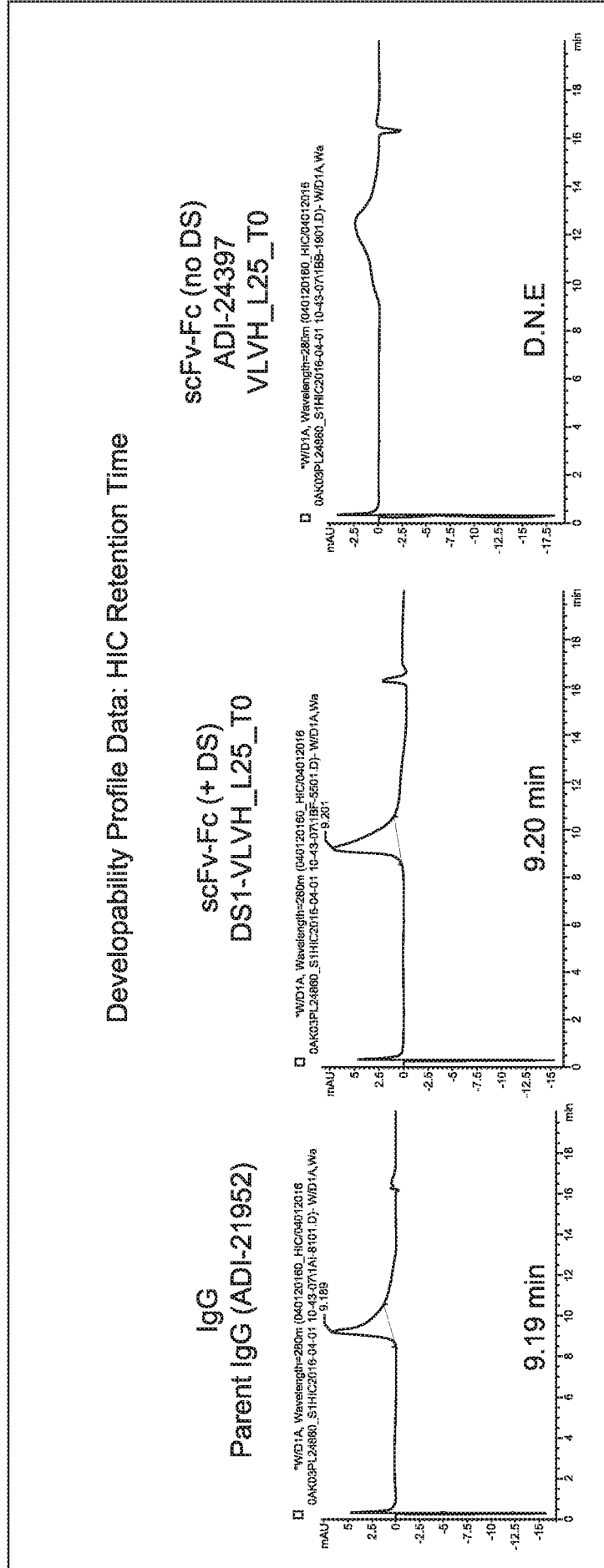


Figure 34D

Binding and Developability Profile Data									
ADI ID	VH CDR H3 sequence	BiaCore Fab K _D Hu CD3εd-Fc (M) Monovalent	BiaCore Fab K _D Cy CD3εd-Fc (M) Monovalent	ForteBio IgG K _D Hu CD3εd-Fc (M) Avid	ForteBio IgG K _D Cy CD3εd-Fc (M) Avid	ForteBio IgG K _D Hu CD28-Fc (M) Avid	Jurkat CD3+ median MFI		
CTL-19672	ARDGYSRVYFDY	9.69E-10	1.05E-09	1.46E-10	1.39E-10	N.B.	5626		
ADI-22523	ARDGYGRYFYDV	1.64E-09	1.39E-09	1.83E-10	1.66E-10	N.B.	6058		
ADI-26906	ARDAYGRYFYDV	3.52E-09	3.34E-09	2.36E-10	1.98E-10	N.B.	5825		
ADI-26907	GRDAYGRYFYDV	4.46E-09	3.87E-09	2.57E-10	2.32E-10	N.B.	5937		
ADI-26908	ARDAYGRYFYDV	5.18E-09	4.49E-09	2.74E-10	2.32E-10	N.B.	5612		
ADI-26910	ARDRYGAYFYDV	7.62E-09	6.98E-09	3.07E-10	2.68E-10	N.B.	5467		
ADI-26913	ARDQYGRYFYDV	2.92E-08	2.72E-08	5.03E-10	4.28E-10	N.B.	5275		
ADI-26915	ARDVLGRYFYDV	W.B.	W.B.	1.94E-09	3.06E-09	N.B.	1310		
ADI-26919	ARDAYGRYFYDV	5.56E-08	4.05E-08	5.07E-10	4.40E-10	N.B.	4448		
ADI-26920	GRDAYGRYFYDV	5.15E-08	5.11E-08	5.86E-10	5.76E-10	N.B.	4987		
ADI-26921	ARDAYGRYFYDV	4.61E-08	3.84E-08	6.16E-10	5.35E-10	N.B.	5202		
ADI-26943	ARDAYGGYFYDV	W.B.	W.B.	4.09E-09	2.50E-09	N.B.	1083		
ADI-26954	ARDNYGGYFYDV	N.B.	N.B.	N.B.	N.B.	N.B.	31		
CTL-19613	VRHGNFGNSYISYWAY	1.43E-09	1.62E-09	1.67E-10	1.59E-10	N.B.	6137		
ADI-21952	VRHGNFGNGYVSWFAH	4.13E-09	5.04E-09	7.41E-10	7.42E-10	N.B.	5724		
ADI-26955	VRHGNFQGGYVSWFAH	3.28E-09	3.81E-09	2.97E-10	3.05E-10	N.B.	5200		
ADI-26956	VRHGNFGGGYVSWFAW	3.77E-09	4.31E-09	2.33E-10	2.34E-10	N.B.	5222		
ADI-26962	VRHGNFGE ^u GYVSWFAH	2.39E-08	2.67E-08	3.94E-10	3.87E-10	N.B.	4014		
ADI-26978	VRHGNFGGAYVSWFAH	2.92E-08	2.93E-08	5.41E-10	5.30E-10	N.B.	2956		
ADI-26983	VRHGNFGGGYVSWFAW	2.03E-08	2.25E-08	N.D.	N.D.	N.B.	4513		
ADI-26994	VRHGNVGGGYVSWFAH	W.B.	W.B.	3.26E-09	2.23E-09	N.B.	750		
ADI-18965	GRDWDGAI ^u RVLDY	N.B.	N.B.	N.B.	N.B.	N.B.	20		
CTL-19672 is 38E4	Highlighted Mutations to ADI-22523 H3 in RED	W.B. = Weak-binder					100 nM IgG		
CTL-19613 is I2C	Highlighted Mutations to SP34 H3 in BLUE : VRHGNFGNSYVSWFAY	N.B. = Non-binder					N.D. = Not Determined		
VH1-3VK4 -1 Negative Control		Multiple Concentration Global Fitting							

Figure 35A

Cy HSC-F Median MFI	Poly-Specificity Reagent (PSR) Score (0-1)	BVP ELISA Fold Over Background (FOB)	HIC Retention Time (min)	AC-SINS Δλ _{max} (nm)	SEC (% mono)	Fab T _m (°C)	HEK titer (mg/L)
12831	0.71	22.8	8.1	25.2	98.0	74.5	38.2
12276	0.40	13.6	8.3	19.3	94.8	74.5	147.4
12000	0.29	9.4	8.3	11.2	98.1	81.5	163.6
11751	0.23	7.4	8.4	10.4	98.0	73.5	204.3
11831	0.23	10.1	8.3	9.0	97.8	81.5	172.8
11887	0.30	5.1	8.3	8.2	97.9	81.5	173.4
11471	0.10	3	8.2	2.6	98.1	81.0	190.4
6165	0.00	1.3	8.2	0.8	98.1	79.0	180.3
9742	0.05	3.7	8.5	6.8	94.7	82.0	123.5
11962	0.02	2.9	8.5	7.0	97.2	75.5	93.2
11723	0.06	3.3	8.5	5.5	93.8	82.0	175.7
7180	0.00	1.3	8.8	0.9	96.7	75.5	127.6
23	0.00	1.2	8.6	0.3	97.6	79.0	176.6
13240	0.71	26	9.6	20.0	93.1	60.0	104.8
13125	0.43	14.8	9.8	7.0	94.9	72.5	34.1
12893	0.26	2.8	9.1	0.4	97.2	71.5	207.6
11775	0.24	5.8	9.9	0.3	97.5	69.5	136.0
12297	0.10	3.3	9.2	0.1	93.4	67.5	96.6
11524	0.10	5.6	9.2	0.4	96.2	69.5	156.4
12504	0.11	N.D.	N.D.	0.7	96.3	69.0	154.2
3555	0.10	1.6	9.1	0.7	96.3	70.5	198.5
25	0.14	N.D.	9.5	N.D.	97.4	73.0	69.7

100 nM IgG	Clean PSR: 0.00 -0.10	N.D. = Not Determined	Clean to Low HIC: < 10.5 min	Δλ _{max} < 5 nM Implies Low Self-interaction
Low PSR: 0.10-0.33	Clean BVP: FOB < 2.1 Implies Clean	Medium HIC: ≥ 10.5 and < 11.5 min	Δλ _{max} ≥ 5 nm and < 20 nM Implies Medium Self-interaction	Titer < 50 mg/L
Medium PSR: 0.33-0.66	Medium BVP: FOB ≥ 2.1 and < 6.5	High HIC: ≥ 11.5 Min	Δλ _{max} ≥ 20 nM Implies high Self-interaction	
High PSR: 0.66 -1.00	High BVP: FOB ≥ 6.5 Implies High BVP Reactivity			

Figure 35A (Continued)

(A)

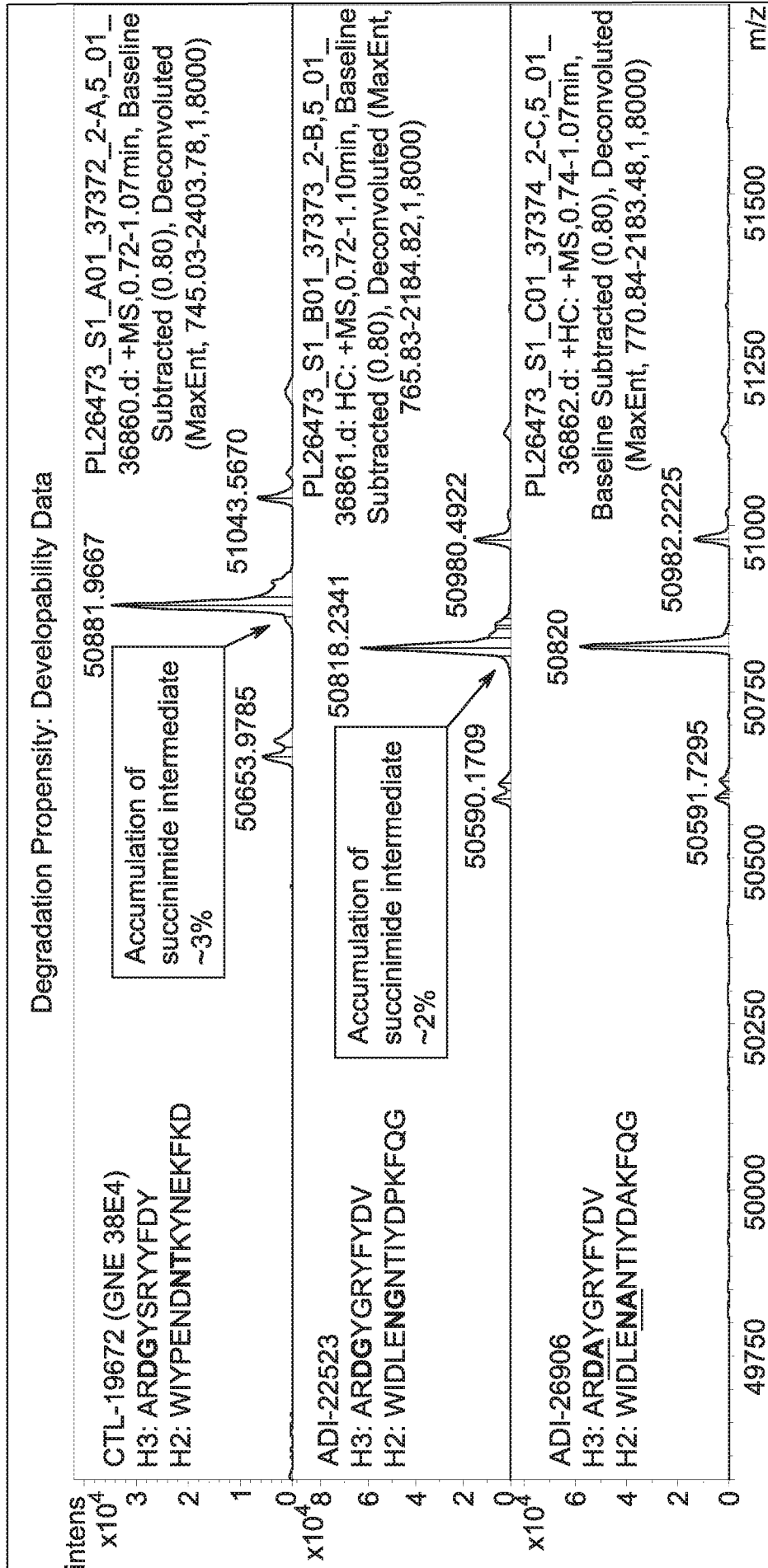


Figure 35B

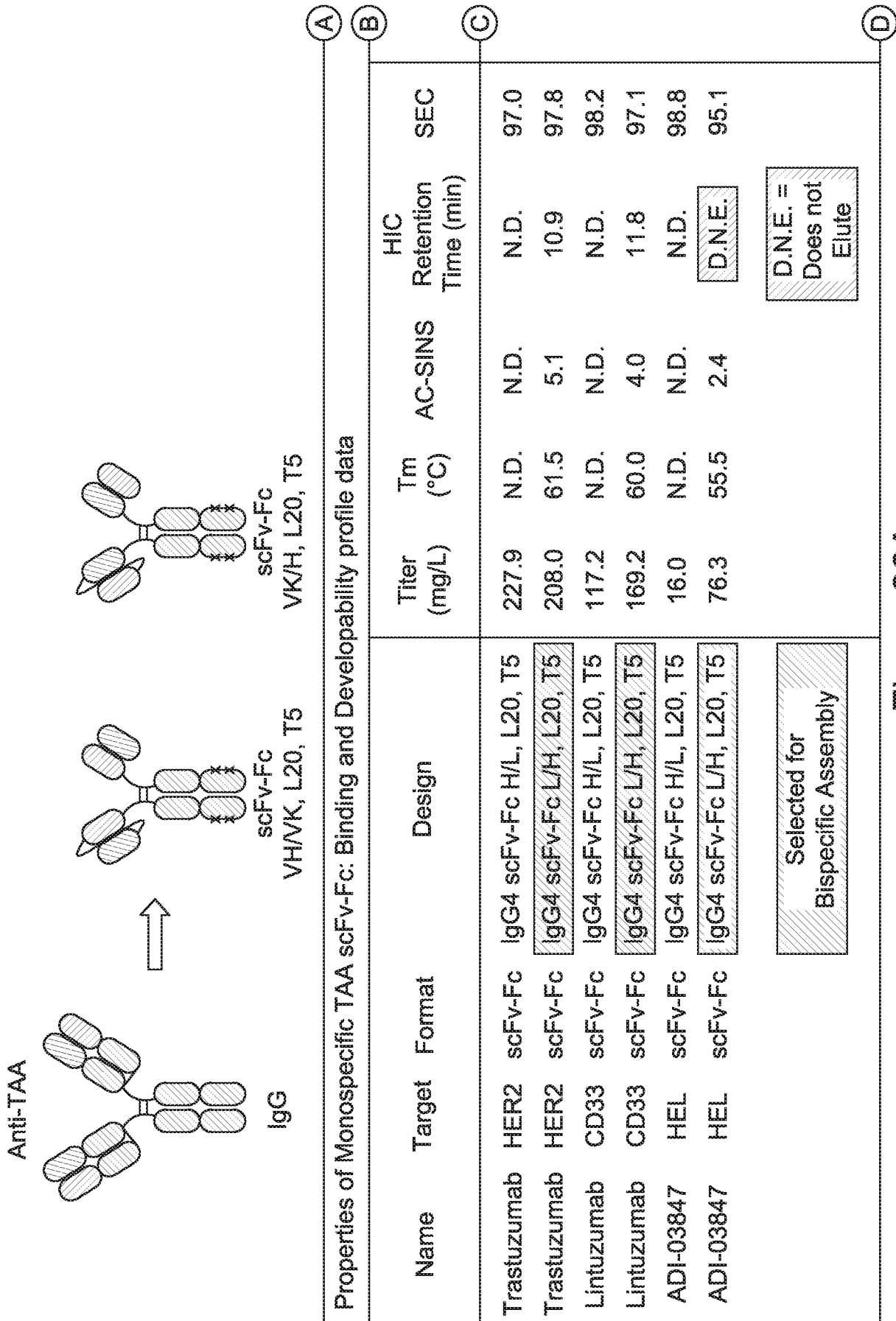


Figure 36A

(A)	(A')	(B)	(B')	(C)	(C')	(D)	(D')	
Jurkat CD3+ 10nM IgG	Jurkat CD3- 10nM IgG	Jurkat FOB 10nM	Hu HER2 mono K _D (M)	Hu HER2 mono RU	Hu HER2 Fc K _D (M)	Hu HER2 Fc RU	Hu HER2 mono K _D (M)	Hu HER2 mono RU
26.8	34.9	0.8	9.0E-09	0.20	2.2E-09	0.36	N.B.	-0.03
26.2	33.0	0.8	6.6E-09	0.17	9.3E-10	0.32	N.B.	-0.02
25.4	31.0	0.8	N.B.	0.00	N.B.	0.03	8.9E-09	0.22
23.8	30.3	0.8	N.B.	0.00	N.B.	0.01	7.3E-09	0.27
23.5	29.9	0.8	N.B.	0.02	N.B.	0.02	N.B.	-0.03
24.5	31.7	0.8	N.B.	0.01	N.B.	0.01	N.B.	-0.03

Figure 36A (Continued)

A'	B'	C'	D'
Hu HER2 Fc K _D (M)	Hu HER2 Fc Ru	Hu HER2 mono k _D (M)	Hu HER2 Fc k _D (M)
Hu HER2 Fc Ru	Hu HER2 Fc Ru	Hu HER2 mono RU	Hu HER2 Fc Ru
N.B.	0.00	N.B.	N.B.
N.B.	0.01	N.B.	N.B.
5.6E-09	0.40	N.B.	N.B.
2.7E-09	0.39	N.B.	N.B.
N.B.	0.02	6.7E-10	N.B.
N.B.	0.02	7.4E-10	N.B.

Figure 36A (Continued)

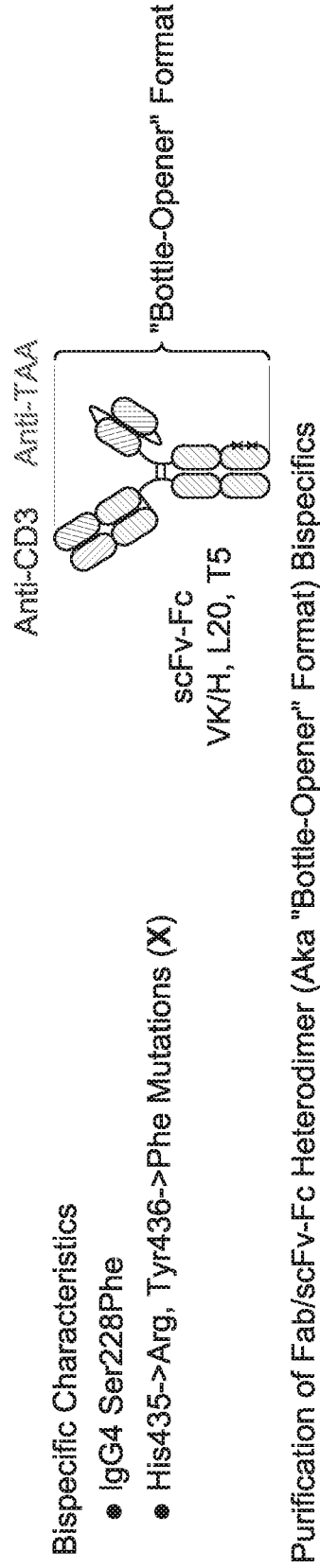


Figure 36B

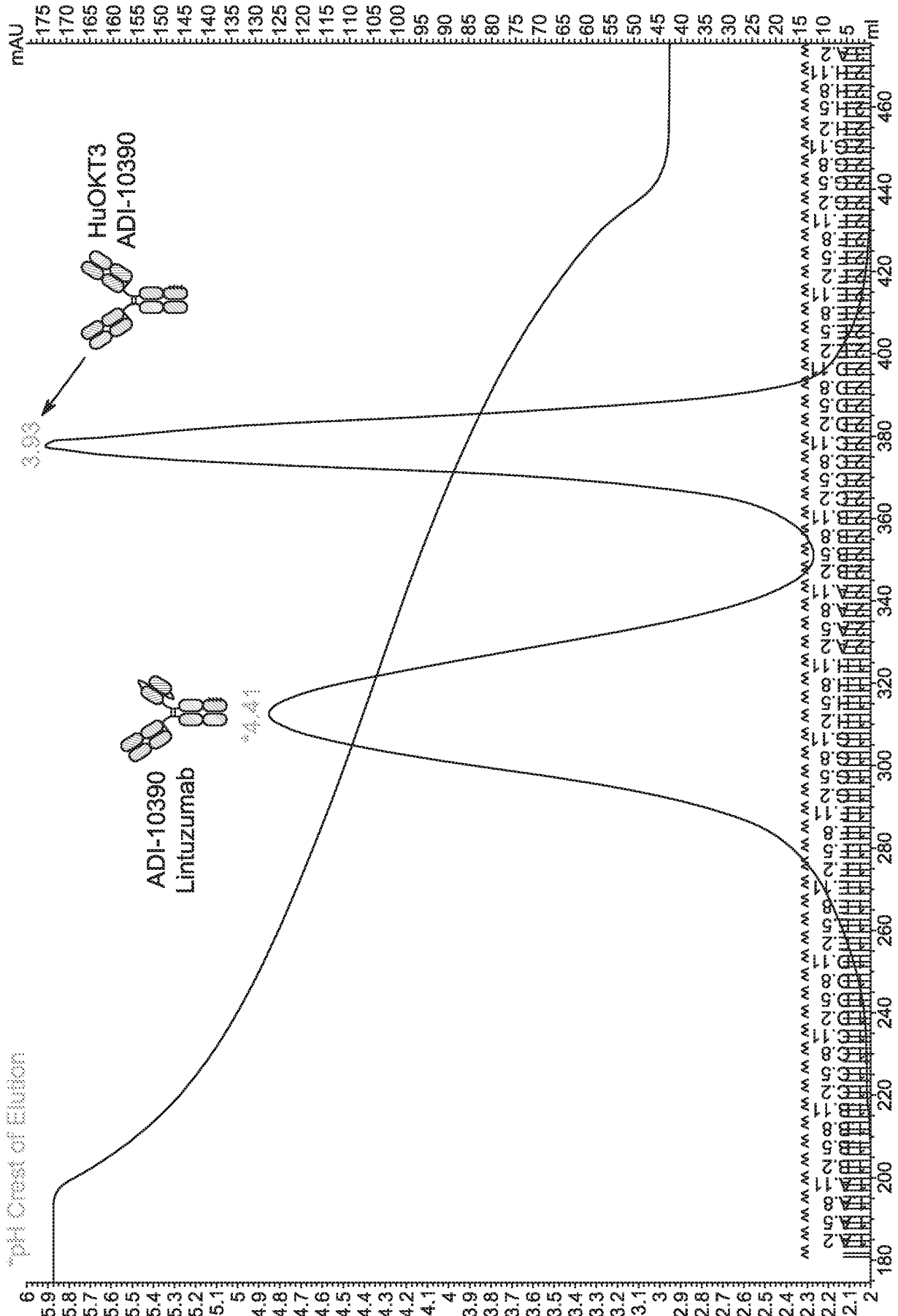


Figure 36B (Continued)

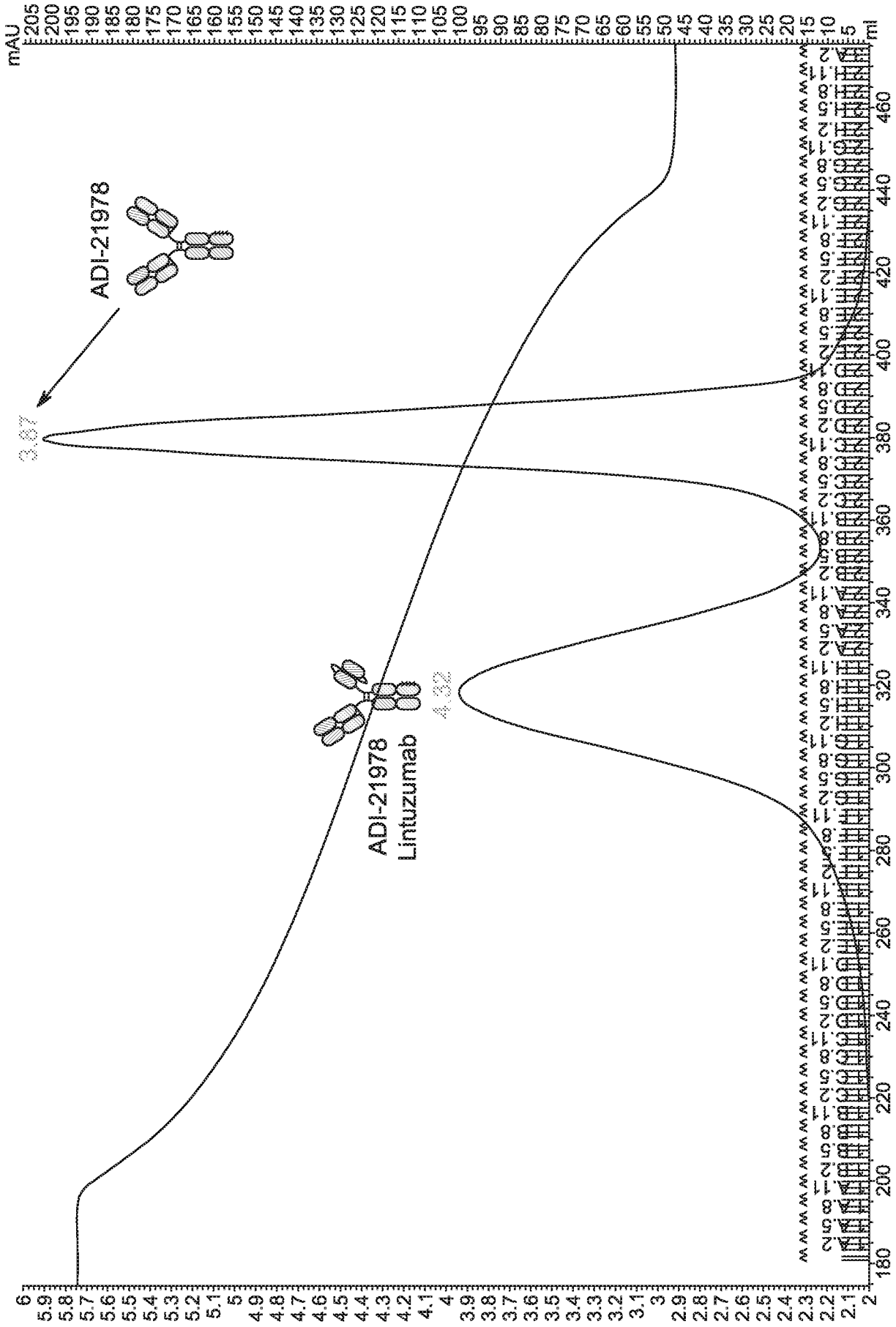


Figure 36B (Continued)

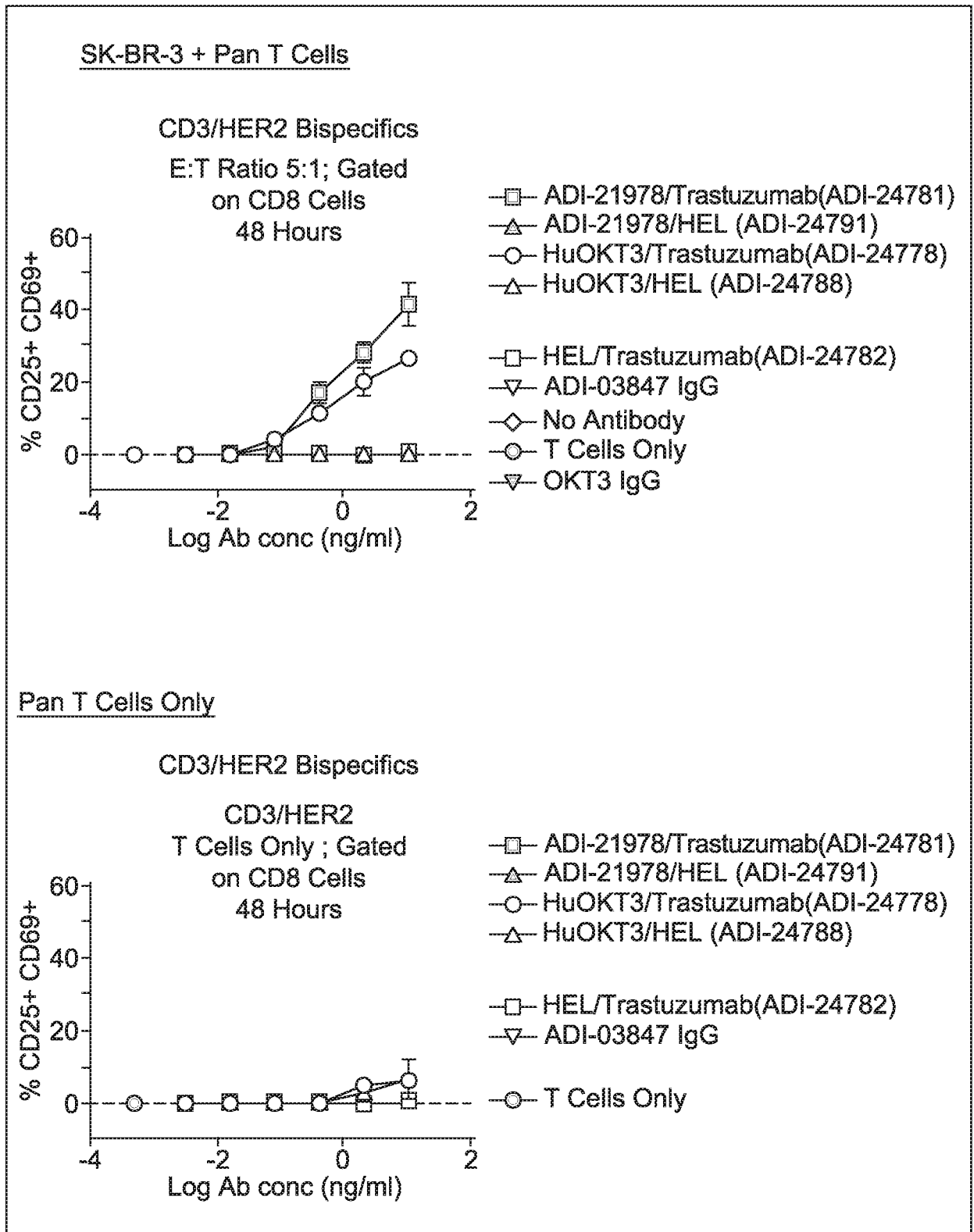


Figure 36C

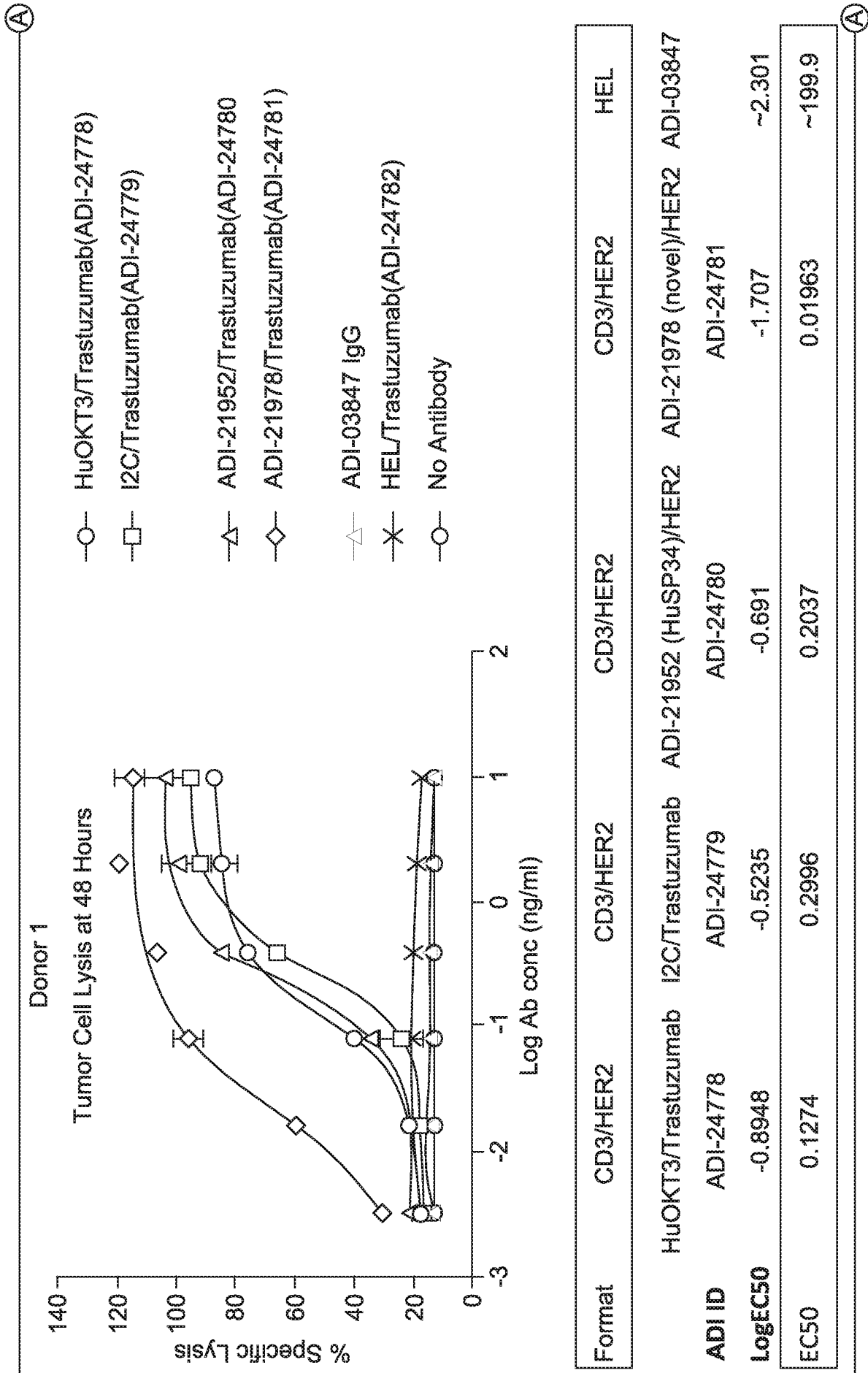


Figure 37

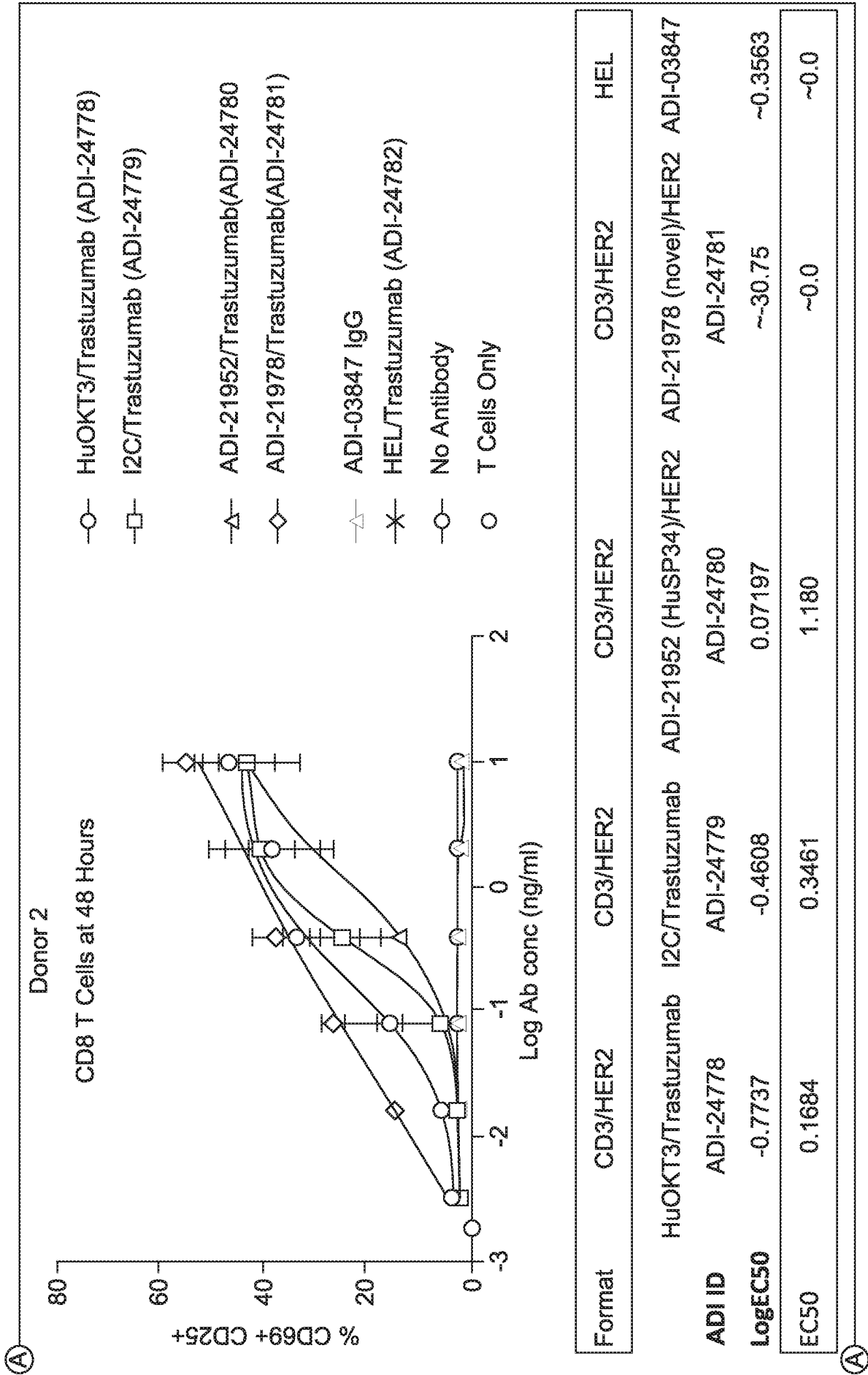


Figure 37 (Continued)

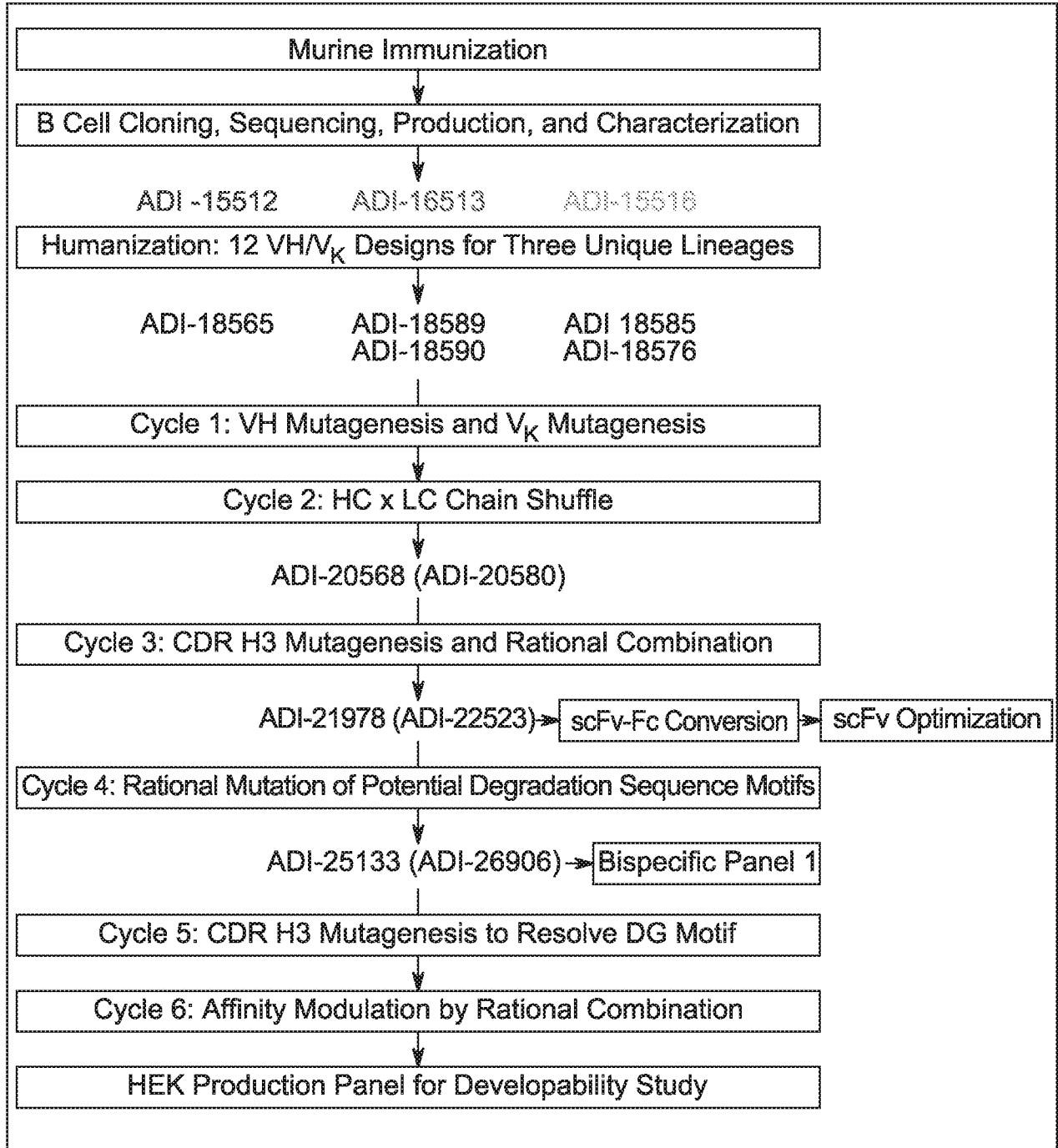


Figure 38A

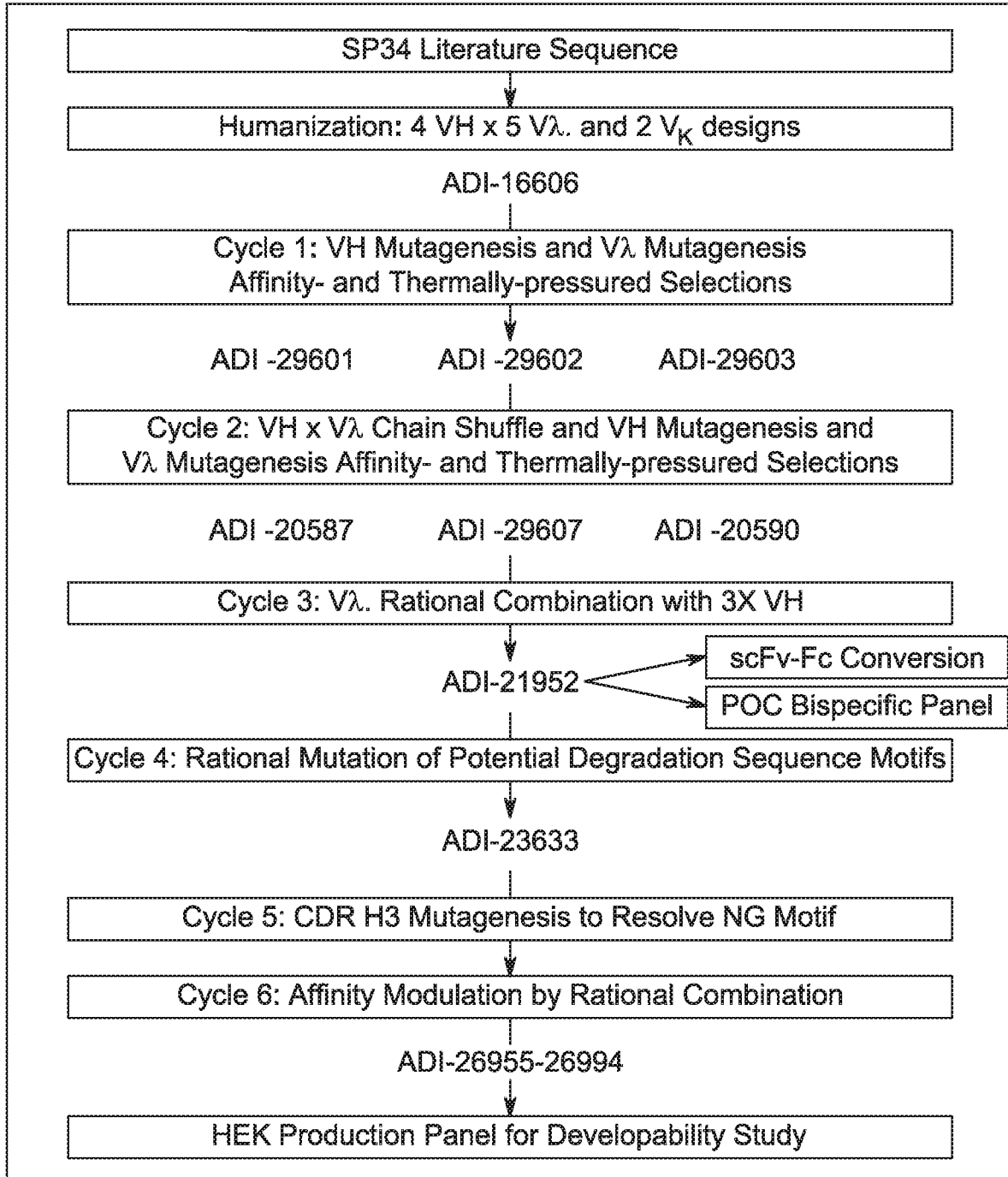


Figure 38B

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2018/031705

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - A61K 39/00; A61K 39/395; C07K 16/18; C07K 16/28; C07K 16/30; C07K 16/32 (2018.01)
 CPC - A61K 39/39533; A61K 39/39558; A61K 2039/505; C07K 16/18; C07K 16/28; C07K 16/2809;
 C07K 2317/56; C07K 2317/565 (2018.08)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 USPC - 424/130.1; 424/135.1; 435/328; 530/387.1; 530/387.3; 536/23.53 (keyword delimited)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2015/0166661 A1 (GENENTECH, INC.) 18 June 2015 (18.06.2015) entire document	1, 2
X	WO 2013/049254 A1 (JN BIOSCIENCES LLC) 04 April 2013 (04.04.2013) entire document	20, 21
A	CARPENTER et al. "A humanized non-FcR-binding anti-CD3 antibody, visilizumab, for treatment of steroid-refractory acute graft-versus-host disease," Blood, 15 April 2002 (15.04.2002), Vol. 99, No. 8, Pgs. 2712-2719. entire document	1, 2, 20, 21
A	WO 2012/158818 A2 (FABION PHARMACEUTICALS, INC. et al) 22 November 2012 (22.11.2012) entire document	1, 2, 20, 21
A	CHATENOUD et al. "Anti-CD3 antibody induces long-term remission of overt autoimmunity in nonobese diabetic mice," Proc Natl Acad Sci USA, 01 January 1994 (01.01.1994), Vol. 91, Pgs. 123-127. entire document	1, 2, 20, 21
A	WO 2016/180721 A1 (MILTENYI BIOTEC GMBH) 17 November 2016 (17.11.2016) entire document	1, 2, 20, 21
A	US 7,728,114 B2 (MACH et al) 01 June 2010 (01.06.2010) entire document	1, 2, 20, 21

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
12 September 2018

Date of mailing of the international search report
02 OCT 2018

Name and mailing address of the ISA/US
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Authorized officer
 Blaine R. Copenheaver
 PCT Helpdesk: 571-272-4300
 PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2018/031705

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.c of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of a sequence listing:

- a. forming part of the international application as filed:
 in the form of an Annex C/ST.25 text file.
 on paper or in the form of an image file.
- b. furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
- c. furnished subsequent to the international filing date for the purposes of international search only:
 in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
 on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).

2. In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

SEQ ID NOs: 2, 3, 5, 7, 10, 11, 13, 15, 18, 19, 21, 23, 26, 27, 29, and 31 were searched.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2018/031705

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.: 6, 12, 13, 25-27
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet(s).

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1, 2, 20, and 21 to the extent that they read on an antibody of SEQ ID NOs: 1, 2, 3, 5, 7, 9, 10, 11, 13, and/or 15.

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2018/031705

Continued from Box No. III Observations where unity of invention is lacking

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees need to be paid.

Group I+: claims 1-5, 7-11, and 14-24 are drawn to antibodies or antigen-binding polypeptides.

The first invention of Group I+ is restricted to an antibody, wherein the antibody is selected to be Ab 1, Ab1 comprising a heavy chain variable region, wherein in the heavy chain variable region is selected to be SEQ ID NO:2, encoded by SEQ ID NO:1, the heavy chain further comprising heavy chain complementarity determining regions CDRH1, CDRH2, and CDRH3, where CDRH1 is selected to be SEQ ID NO:3, CDRH2 is selected to be SEQ ID NO:5, and CDRH3 is selected to be SEQ ID NO:7; and a light chain variable region, wherein the light chain variable region is selected to be SEQ ID NO:10, encoded by SEQ ID NO:9, the light chain further comprising light chain complementarity determining regions CDRL1, CDRL2, and CDRL3, where CDRL1 is selected to be SEQ ID NO:11, CDRL2 is selected to be SEQ ID NO:13, and CDRL3 is selected to be SEQ ID NO:15. It is believed that claims 1, 2, 20, and 21 read on this first named invention and thus these claims will be searched without fee to the extent that they read on an antibody of SEQ ID NOS:1, 2, 3, 5, 7, 9, 10, 11, 13, and/or 15.

Applicant is invited to elect additional antibodies or antigen-binding polypeptides, each with specified SEQ ID NO for each heavy/light chain variable region and complementarity determining regions therein, to be searched in a specific combination by paying an additional fee for each set of election. An exemplary election would be an antibody, wherein the antibody is selected to be Ab 2, Ab2 comprising a heavy chain variable region, wherein in the heavy chain variable region is selected to be SEQ ID NO:18, encoded by SEQ ID NO:17, the heavy chain further comprising heavy chain complementarity determining regions CDRH1, CDRH2, and CDRH3, where CDRH1 is selected to be SEQ ID NO:19, CDRH2 is selected to be SEQ ID NO:21, and CDRH3 is selected to be SEQ ID NO:23; and a light chain variable region, wherein the light chain variable region is selected to be SEQ ID NO:26, encoded by SEQ ID NO:25, the light chain further comprising light chain complementarity determining regions CDRL1, CDRL2, and CDRL3, where CDRL1 is selected to be SEQ ID NO:27, CDRL2 is selected to be SEQ ID NO:29, and CDRL3 is selected to be SEQ ID NO:31. Additional antibodies or antigen-binding polypeptides will be searched upon the payment of additional fees. Applicants must specify the claims that read on any additional elected inventions. Applicants must further indicate, if applicable, the claims which read on the first named invention if different than what was indicated above for this group. Failure to clearly identify how any paid additional invention fees are to be applied to the "+" group(s) will result in only the first claimed invention to be searched/examined.

The inventions listed in Groups I+ do not relate to a single general inventive concept under PCT Rule 13.1, because under PCT Rule 13.2 they lack the same or corresponding special technical features for the following reasons:

The Groups I+ formulas do not share a significant structural element responsible for binding CD3, requiring the selection of alternatives for the amino acid sequence of the heavy chain variable region and the light chain variable region for each antibody or antigen-binding polypeptide, where "a CDRH1 comprising an amino acid sequence of FNIKDYIM (SEQ ID NO: 6720), YTFSTYTIH (SEQ ID NO: 6721), or FTFXITYAMN (SEQ ID NO: 6722), wherein X, is any amino acid" and "CDRH2 comprising an amino acid sequence of WIDLENXINTX2YDX3KFOG (SEQ ID NO: 6723), wherein X1, X2, and X3 independently are any amino acid" and "a CDRH3 comprising an amino acid sequence of X1QSYSX2RT (SEQ ID NO: 6724) or X3RDX4YGX5YFYDV (SEQ ID NO: 6725), wherein X1, X2, X3, X4, and X5 are independently are any amino acid" and "a CDRL1 comprising an amino acid sequence of X1KSSQX2LLX3X4RTGKX5YLA (SEQ ID NO: 6726), wherein X1, X2, X3, X4, and X5 independently are any amino acid" and "a CDRL2 comprising an amino acid sequence of WASTRES (SEQ ID NO: 6727) or GTX1KRAP (SEQ ID NO: 6728), wherein X1, is any amino acid" and "a CDRL3 comprising an amino acid sequence of KQSYSX1RT (SEQ ID NO: 6729), wherein X1 is any amino acid".

Additionally, even if Groups I+ were considered to share the technical features of an antibody or antigen-binding polypeptide comprising a CDRH1 comprising an amino acid sequence; an antibody or antigen-binding polypeptide comprising a CDRH2 comprising an amino acid sequence; an antibody or antigen-binding polypeptide comprising a CDRH3 comprising an amino acid sequence; an antibody or antigen-binding polypeptide comprising a CDRL1 comprising an amino acid sequence; an antibody or antigen-binding polypeptide comprising a CDRL2 comprising an amino acid sequence; an antibody or antigen-binding polypeptide comprising a CDRL3 comprising an amino acid sequence; these shared technical features do not represent a contribution over the prior art.

Specifically, WO 2016/180721 A1 to Miltenyi Biotec GmbH discloses an antibody or antigen-binding polypeptide (The present invention provides a humanized antibody or fragment thereof specific for the antigen CD3, Abstract) comprising a CDRH1 comprising an amino acid sequence (humanized anti-CD3 antibody or fragment thereof comprises a heavy chain variable domain comprising a CDR1 region, Pg. 7, Lns. 8-9); an antibody or antigen-binding polypeptide comprising a CDRH2 comprising an amino acid sequence (a CDR2 region, Pg. 7, Ln. 9); an antibody or antigen-binding polypeptide comprising a CDRH3 comprising an amino acid sequence (a CDR3 region, Pg. 7, Ln. 10); an antibody or antigen-binding polypeptide comprising a CDRL1 comprising an amino acid sequence (light chain variable domain comprising a CDR1 region, Pg. 7, Lns. 10-11); an antibody or antigen-binding polypeptide comprising a CDRL2 comprising an amino acid sequence (a CDR2 region, Pg. 7, Ln. 11); an antibody or antigen-binding polypeptide comprising a CDRL3 comprising an amino acid sequence (a CDR3 region, Pg. 7, Lns. 11-12).

The inventions listed in Groups I+ therefore lack unity under Rule 13 because they do not share a same or corresponding special technical features.