



(86) Date de dépôt PCT/PCT Filing Date: 2007/03/09
(87) Date publication PCT/PCT Publication Date: 2007/09/20
(85) Entrée phase nationale/National Entry: 2008/09/10
(86) N° demande PCT/PCT Application No.: GB 2007/000812
(87) N° publication PCT/PCT Publication No.: 2007/104932
(30) Priorités/Priorities: 2006/03/10 (GB0604920.9);
2006/07/18 (GB0614260.8)

(51) Cl.Int./Int.Cl. *C07K 14/16* (2006.01),
A61K 38/16 (2006.01), *A61P 31/18* (2006.01)
(71) Demandeur/Applicant:
PEPTCELL LIMITED, GB
(72) Inventeurs/Inventors:
STOLOFF, GREGORY ALAN, GB;
CAPARROS-WANDERLEY, WILSON ROMERO, GB
(74) Agent: BERESKIN & PARR

(54) Titre : SEQUENCES PEPTIDIQUES ET COMPOSITIONS

(54) Title: PEPTIDES OF REGULATORY OR ACCESSORY PROTEINS OF HIV, COMPOSITIONS AND THE
UTILIZATION THEREOF

(57) **Abrégé/Abstract:**

Provided is a polypeptide having no more than 100 amino acids, which polypeptide comprises one or more sequences having at least 60% homology with any of SEQ ID 1-4, or comprises two or more epitopes having 7 amino acids or more, each epitope having at least 60% homology with a sub-sequence of any of SEQ ID 1-4 that has the same length as the epitope: SEQ ID 1 GDTWAGVEAIRILQQLLFHFRIGCQHSR; SEQ ID 2 KVGSLQYLALTALITPKKIKPPLPSVKKLTEDRWNKPQKT; SEQ ID 3 EPVPLQLPPLERLTLDCEDCGTSGTQ; SEQ ID 4 YKGALDLSHFLKEKGGLEGLIYSQKRQDILDWVYHTQGYFPD wherein, the polypeptide is immunogenic in a vertebrate expressing a major histocompatibility complex (MHC) allele, and wherein the polypeptide is not a complete HIV virus protein.



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



PCT



(43) International Publication Date
20 September 2007 (20.09.2007)

(10) International Publication Number
WO 2007/104932 A3

(51) International Patent Classification:

C07K 14/16 (2006.01) **A61P 31/18** (2006.01)
A61K 38/16 (2006.01)

(21) International Application Number:

PCT/GB2007/000812

(22) International Filing Date: 9 March 2007 (09.03.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0604920.9 10 March 2006 (10.03.2006) GB
0614260.8 18 July 2006 (18.07.2006) GB

(71) Applicant (for all designated States except US): **PEPT-CELL LIMITED** [GB/GB]; 100 Fetter Lane, London EC4A 1BN (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STOLOFF, Gregory, Alan** [AU/GB]; 32 Royal Avenue, London SW3 4QE (GB). **CAPARROS-WANDERLEY, Wilson, Romero** [ES/GB]; 30 Great Meadow Way, Aylesbury, Buckinghamshire HP19 7GE (GB).

(74) Agent: **HILL, Christopher, Michael**; Page White & Far-
rer, Bedford House, John Street, London WC1N 2BF (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
22 November 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PEPTIDES OF REGULATORY OR ACCESSORY PROTEINS OF HIV, COMPOSITIONS AND THE UTILIZATION THEREOF

(57) Abstract: Provided is a polypeptide having no more than 100 amino acids, which polypeptide comprises one or more sequences having at least 60% homology with any of SEQ ID 1-4, or comprises two or more epitopes having 7 amino acids or more, each epitope having at least 60% homology with a sub-sequence of any of SEQ ID 1-4 that has the same length as the epitope: SEQ ID 1 GDTWAGVEAIRILQQLLFHFRIGCQHSR; SEQ ID 2 KVGSLQYLALTALITPKKIKPPLPSVKKLTEDRWNPQKT; SEQ ID 3 EPVPLQLPPLERLTDCSEDCGTSQTQ; SEQ ID 4 YKGALDLSHFLKEKGGLEGLIYSQKRQDILDWVYHTQGYFPD wherein, the polypeptide is immunogenic in a vertebrate expressing a major histocompatibility complex (MHC) allele, and wherein the polypeptide is not a complete HIV virus protein.



WO 2007/104932 A3

DEMANDE OU BREVET VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET COMPREND PLUS D'UN TOME.

CECI EST LE TOME 1 DE 2
CONTENANT LES PAGES 1 À 164

NOTE : Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE THAN ONE VOLUME

THIS IS VOLUME 1 OF 2
CONTAINING PAGES 1 TO 164

NOTE: For additional volumes, please contact the Canadian Patent Office

NOM DU FICHER / FILE NAME :

NOTE POUR LE TOME / VOLUME NOTE:

PEPTIDE SEQUENCES AND COMPOSITIONS

The invention concerns peptide sequences, compositions comprising the peptide sequences, and in particular immunodeficiency virus vaccines, such as vaccines against human immunodeficiency virus (HIV) and/or other immunodeficiency viruses which may also be useful against acquired immunodeficiency syndrome (AIDS). The vaccines comprise the sequences and the compositions. The invention also relates to uses of the sequences and compositions. It is especially concerned with vaccines that are protective against a plurality of virus strains, including existing viruses as well as future viruses that have mutated from existing viruses (such as mutated forms of an existing HIV strain).

The defence against disease is critical for the survival of all animals, and the defence mechanism employed for this purpose is the animal immune system. Understanding the immune system is therefore a key to understanding the development of new and more sophisticated treatments for humans and animals alike.

The mechanism of operation of the immune system has been under investigation for many years. The system is composed of a number of cell types and a variety of molecules, making it extremely complex. Even after many years of study, the full extent of the immune system components, and their interaction with each other, is imperfectly understood.

Many years ago it was recognised that a person who recovers from a particular disease may acquire some protection in future against that disease, but not against a disease which that person has not yet contracted. This fundamental aspect of the immune system was interpreted at that time by considering that the immune system acquired a kind of 'memory' against certain pathogens once exposure to such pathogens had taken place, that memory being specific to a certain disease.

Gradually, it became known that exposure to less harmful variants of a pathogen could induce protection against more harmful variants (e.g. exposure to cowpox to protect against smallpox, or exposure to an inactivated anthrax to protect against live anthrax). Thus, the idea of vaccination against a disease arose.

It is now known that the immune system has at least two divisions: innate immunity and adaptive immunity. The innate system is fully functional before a pathogen enters the system, whilst the adaptive system is switched on after the pathogen enters the system. It then develops an attack specific to the pathogen. The innate system comprises a number of components, including phagocytes such as macrophages, which (as the name suggests) 'eat' or engulf foreign bodies such as pathogens.

Typically, but not exclusively, the present invention is concerned with the adaptive immune system, and unless specifically indicated otherwise, 'immune system' in the present context refers to the adaptive immune system.

In order to understand more fully how the immune system functions, the role of its individual components must be carefully considered. In respect of the adaptive immune system, it is well known that immunity against pathogens is provided by the action of lymphocytes, which constitute the most common cell type in the immune system. There are two types of lymphocyte: the B lymphocyte and the T lymphocyte. These are generally termed B cells and T cells respectively.

B cells have the ability to develop into plasma cells, which manufacture antibodies. Antibodies are very important components of the animal immune system. They are produced in response to some signature portion of the invading pathogen (an antigen of the pathogen – antigens here being defined as any foreign substance recognised by the immune system) and are usually specific to that pathogen. However, if two pathogens are very similar, or at least contain the same antigen, then antibodies produced against one can nevertheless be effective against the other (they may 'cross-react'). This explains why inoculation with cowpox may protect against smallpox. It is important to realise that the antibodies 'recognise' only a small portion of the antigenic molecule of the pathogen rather than the pathogen as a whole. These portions are termed epitopes.

T cells do not possess or produce antibodies. Instead, they recognise fragments (i.e. epitopes) of the foreign antigen complexed with major histocompatibility complex (MHC) (or in the

case of humans, human leucocyte antigen (HLA)) via a specialised receptor known as TCR (T cell receptor). T cells are themselves divisible into subsets which can have either a regulatory function or an effector function. The effector cells are involved with 'effecting' the removal of foreign substances. For example, cytotoxic T cells (CTL) are effector cells that are able to kill infected cells, as well as other unwanted species such as tumour cells. Regulatory T cells, on the other hand, play a role in helping effector T and B cells to become more effective. Due to this function, these regulatory T cells are often termed 'helper' T cells. Other regulatory T cells, termed 'suppressor' T cells, are thought to inhibit immune responses, but these are less well understood. Regulatory T cells may also interact with components of the innate immune system to boost their activity.

In a normal healthy individual, the lymphocytes in the immune system remain in an inactive 'resting' state until an immune response is triggered. When an immune response is required, the lymphocytes become activated, proliferate and begin to carry out their designated functions. For example, any resting T cell displaying on its surface a TCR that recognises an epitope of the invading pathogen complexed with a MHC molecule is activated, proliferates (this being termed clonal expansion) and the resulting offspring start to actively carry out their predetermined effector functions required to combat the invading organisms.

When the immune response is completed, (i.e. the pathogens and/or infected cells have been eliminated) the lymphocytes revert to a resting state once again. This resting state is not, however, equivalent to the initial inactive resting state. Activated, but resting lymphocytes, can be rapidly recruited and induced to proliferate in response to an infection by the same, or closely related, pathogen at a later time.

This ability of activated resting lymphocytes, to deliver a faster and more powerful response following a second encounter with an invading pathogen, effectively provides the immune system with 'memory'. The exploitation of the immune system's memory is the basis for all long-term immunoprophylactic drugs (e.g. vaccines) and remains the goal of much long-term immunotherapeutic drug development.

In order for cells to perform their functions within the complex systems of an animal, the cells need to have 'receptors' on their surfaces. These receptors are capable of 'recognising' specific substances that control various essential processes such as activation, proliferation and adherence to other cells or substrates. For example, in the case of the immune system, the receptors on T and B cells allow them not only to recognise antigen but also to interact with each other and thus regulate their activities. Without these receptors, the cells would lack an essential means of communication and would be unable to act effectively in the concerted way that is essential for the immune system of a multicellular organism.

In order to be able to specifically recognise and deal with the wide range of pathogens present in the environment, the immune system has developed two types of highly variable antigen receptor on lymphocytes: antibodies in B cells and T cell receptors, or TCRs, in T cells.

There are a great many different possible antigen receptors present in the body, to enable the immune system to recognise a wide variety of invading pathogens. In fact there are approximately 10^{12} different B cells and T cell receptors in an individual. Each individual B cell has only one type of receptor, and so to deal with a particular pathogen, a B cell having the 'best fitting' receptor for an antigen of that pathogen must be selected. This process is termed 'clonal selection'. In theory, only a single clone may respond (a monoclonal response) or several (an oligoclonal response) or many (a polyclonal response) depending on the number of antigens/epitopes exhibited by the pathogen, and the specificity of the various selected B cells to these antigen/epitopes.

There is a major difference between the types of antigen that can be recognised by B cells and T cells. As far as it is known, only the receptors on the surface of B lymphocytes (i.e. antibodies) are capable of directly recognising antigens such as proteins on viruses and bacteria, or foreign molecules dissolved in body fluid. Antibodies can also be produced in a soluble form by the B cells when they are activated and develop into plasma cells. The antibodies are also termed immunoglobulins (abbreviated to Ig). T cell receptors, on the other hand, recognise only short peptides, also known as T-cell epitopes, on the surface of cells of the body. These T-cell epitopes are produced by degradation of larger proteins that are either self (i.e. naturally occurring body proteins) or non-self (i.e. derived from foreign

organisms infecting the body). Only those derived from foreign proteins, i.e. antigens, are normally capable of inducing an immune response in the body. Once produced, these epitopes are bound to a special type of molecule, the MHC (major histocompatibility complex) and the resulting complex is then presented on the cell surface for binding the T-cell receptor.

It should be clear that due to the destructive nature of the immune response, the response has to act only against foreign pathogens, not against the body's own cells or proteins. Thus, the immune system needs to distinguish between 'self' and 'non-self'. It has been proposed that although clones of lymphocytes reacting against self are produced, they are deleted before any reaction can occur. This process is termed 'clonal deletion'. It has also been proposed that any self-reacting lymphocytes could be retained but only in a 'switched-off' state. This mechanism is termed 'clonal anergy'. Whatever the process considered, it remains unclear what is the exact underlying mechanism allowing lymphoid tissues, such as the thymus, to identify individual T cell clones reacting against self from the pool of T lymphocytes reacting only against non-self. The present inventors have now investigated more fully the mechanism of self/non-self discrimination, which has led to the development of the present invention. The inventors have now established a method of predicting the immunogenicity of a substance such as a peptide, which has enabled quicker identification of immunogenic peptide sequences within large proteins.

It has been known for many years that the major histocompatibility complex (MHC) plays a key role in the immune system of animals. The MHC molecules enable T cells to recognise antigens, as has already been discussed above. There are three general types of MHC molecule, class I, class II and class III. Class I and class II MHC molecules are glycoproteins that are present on the surface of the cell, whilst class III are usually soluble molecules present inside the cell. There are a large number of different types of MHC molecule. For example in humans (where MHC is termed HLA, or Human Leukocyte Antigen) there are several hundred different alleles of the genes coding for MHC molecules, meaning that in the human population there are many different types of HLA. The MHCs of different species are typically named according to different conventions, thus MHC for mouse is termed H-2, for

rat RT1 and for rabbit RLA. The different gene regions coding for different MHC molecules in an individual are usually individually named, such as HLA-A, HLA-C etc. in humans.

The MHC molecule is a critical immune system molecule, since it is this molecule that presents the epitopes of the antigens to the immune system. For example, if a T cell is to respond to a particular pathogen, the pathogen must have at least one antigen (such as a protein) that has at least one epitope (such as a peptide portion of the protein) that can bind to an MHC molecule on the surface of a cell and thus interact with a T cell which binds to the MHC-peptide complex. Thus, the immune response is dependent on the ability of the MHC to bind to an epitope. If there is no epitope that the MHC will bind to, or if there is no T cell which will bind to the MHC-peptide complex, then no immune response will occur.

In respect of 'self' proteins, however, one of several epitopes may be able to bind to the MHC molecule and hence potentially induce an immune response. On these occasions a specific "signal" must be provided for the self-reacting lymphocyte clones to be deleted or "switched off".

Since, as indicated above, both self and foreign (i.e. non-self) peptides can bind to MHC molecules, the binding of various peptides to MHC molecules has received particular scrutiny in the immunology field. Many investigations have sought to calculate or predict the strength of binding between certain MHC (particularly HLA and H-2) types and peptide sequences, to try to account for immune responses, or the lack of them (i.e. the "signal" required for discrimination between self and foreign). Examples of these include the following:

Altuvia Y, Schueler O, Margalit H. 1995. "Ranking potential binding peptides to MHC molecules by a computational threading approach". *J. Mol. Biol.*, 249:244–250.

Altuvia Y, Sette A, Sidney J, Southwood S, Margalit H. 1997. "A structure-based algorithm to predict potential binding peptides to MHC molecules with hydrophobic binding pockets". *Hum. Immunol.* 58:1–11.

G.E. Meister, C.G.P. Roberts, J.A. Berzofsky, A.S. De Groot, "Two novel T cell epitope prediction algorithms based on MHC-binding motifs; comparison of predicted and published epitopes from *Mycobacterium tuberculosis* and HIV protein sequences" *Vaccine*, 13:581-591, (1995).

Gulukota K, Sidney J, Sette A, DeLisi C. 1997. "Two complementary methods for predicting peptides binding major histocompatibility complex molecules". *J. Mol. Biol.* 267:1258–1267.

Pamer EG, Harty JT, Bevan MJ. "Precise prediction of a dominant class I MHC-restricted epitope of *Listeria monocytogenes*". *Nature* 1991; 353: 852 –855.

Parker KC, Bednarek MA, Coligan JE. 1994. "Scheme for ranking potential HLA-A2 binding peptides based on independent binding of individual peptide side-chains". *J. Immunol.* 152:163–175.

Rammensee HG, Friede T, Stevanović S. 1995. "MHC ligands and peptide motifs: First listing". *Immunogenetics* 41:178–228.

Ruppert J, Sidney J, Celis E, Kubo RT, Grey HM, Sette A. 1993. "Prominent role of secondary anchor residues in peptide binding to HLA-A2.1 molecules". *Cell* 74:929–937.

Schueler-Furman O, Elber R, Margalit H. 1998. "Knowledge-based structure prediction of MHC class I bound peptides: A study of 23 complexes". *Fold Des.* 3:549–564.

Sette A, Buus S, Appella E, Smith JA, Chesnut R, Miles C, Colon SM, Grey HM. 1989. "Prediction of major histocompatibility complex binding regions of protein antigens by sequence pattern analysis". *Proc. Natl. Acad. Sci. USA* 86:3296–3300.

Sette A, Sidney J, del Guercio MF, Southwood S, Ruppert J, Dahlberg C, Grey HM, Kubo RT. 1994a. "Peptide binding to the most frequent HLA-A class I alleles measured by quantitative molecular binding assays". *Mol. Immunol.* 31:813–822.

Sette A, Vitiello A, Reherman B, Fowler P, Nayersina R, Kast WM, Melief CJM, Oseroff C, Yuan L, Ruppert J, et al. 1994b. "The relationship between class I binding affinity and immunogenicity of potential cytotoxic T cell epitopes". J. Immunol. 153:5586–5592.

Stefan Stevanovic (2002): "Structural basis of immunogenicity", Transplant Immunology 10 133–136

Sturniolo T, Bono E, Ding J, Raddrizzani L, Tuereci O, Sahin U, Braxenthaler M, Gallazzi F, Protti MP, Sinigaglia F, Hammer J. 1999. "Generation of tissue-specific and promiscuous HLA ligand databases using DNA microarrays and virtual HLA class II matrices". Nat. Biotechnol. 17:555–561.

T. Sudo, N. Kamikawaji, A. Kimura, Y. Date, C.J. Savoie, H. Nakashima, E. Furuichi, S. Kuhara, and T. Sasazuki, "Differences in MHC Class I self peptide repertoires among HLA-A2 subtypes." J. Immunol.: 155: 4749-4756, (1995).

T. Tana, N. Kamikawaji, C.J.Savoie, T. Sudo, Y. Kinoshita, T. Sasazuki, "A HLA binding motif-aided peptide epitope library: A novel library design for the screening of HLA-DR4-restricted antigenic peptides recognized by CD4+ T cells." J. Human Genet., 43:14-21 (1998).

K. Falk, *et al.* "Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules", Nature, Vol. 351, 290-297 (1991).

T Elliott *et al.* "Peptide-induced conformational change of the class I heavy chain", Nature, Vol. 351, 402-407, (1991).

P. Parham, "Deconstructing the MHC", Nature, Vol. 360, 300-301, (1992).

Hwai-Chen Guo *et al.*, "Different length peptides bind to HLA-Aw68 similarly at their ends but bulge out in the middle", Nature, Vol. 360, 364-367, (1992).

Y. Chen *et al.* "Naturally processed peptides longer than nine amino acid residues bind to the class I MHC molecule HLA-A2.1 with high affinity and in different conformations", J. Immunol., 152, 2874-2881, (1994).

D. F. Hunt *et al.* "Characterization of peptides bound to the class I MHC molecule HLA-A2.1 by mass spectrometry", Science, Vol. 255, 1261-1263, (1992).

Generally, the prior art attempts to predict the immunogenicity of particular peptides by calculating the strength of binding between that peptide and the known binding environment of a particular MHC molecule. The binding environment involves a 'pocket' in the MHC molecule that is adapted to accept a peptide of a certain length (such as 7-15 amino acids). The structure of the pocket may already be known from previous X-ray crystallographic studies. This strength may be calculated mathematically using appropriate algorithms for atomic and molecular interaction. Alternatively, the prior art may attempt to 'score' the binding strength of a peptide based upon motifs existing in the peptide, such as particular amino acids being present at particular positions in a peptide of a certain length, e.g. a proline present at position 3 in an 8-amino acid peptide binding to a particular known HLA molecule. Generally these approaches have met with limited success.

The present inventors believe that they have improved upon the above theories from a better understanding of how T cells reacting against self-substances such as self-proteins are identified prior to their elimination (clonal deletion) or silencing (clonal anergy). Accordingly, the inventors have been able to identify specific immunogenic peptide sequences that may provide protection against specific pathogens, and have developed vaccines to these pathogens, using the identified sequences. In the case of the present invention, the inventors have developed peptides useful in HIV vaccines eliciting a T cell response.

For many years HIV infection was not a condition susceptible of treatment. When the disease was identified in 1981, existing anti-viral therapies were ineffective in controlling the damage that the virus would cause to a patient's immune system. The virus causes direct and indirect destruction of CD4 positive T cells, which are essential for a fully functioning

immune system. As a patient's CD4+ T cell count diminishes, the disease becomes progressively worse. When the CD4+ T cell count falls below a certain level, the patient is considered to have deteriorated to the point of having full-blown AIDS. Definitions of the point at which this occurs vary, but it is generally considered that it is arrived at in healthy HIV positive people with a CD4 + T cell count of less than 200 per ml of blood. More recently, anti-viral therapies have improved, and the progression of the disease has been slowed considerably. Modern combinatorial therapies may (in some patients) delay the onset of full-blown AIDS indefinitely. However, these therapies are expensive, and place a burden on the patient requiring him or her to take a significant number tablets per day (many patients find it difficult to remember to take the required medicine) and in many cases leading to unpleasant side-effects (unsurprising when taking a cocktail containing many different pharmaceuticals, which has to be taken for life). Not only do current therapies suffer from these problems, but they are not curative, merely delaying onset of full-blown AIDS. Moreover, in recent years there has been increased number of reports indicating the appearance and spread of drug-resistant HIV drugs. Accordingly, there is a real and urgent need for a vaccine which could prevent and/or cure immunodeficiency viruses, such as HIV, and also prevent and/or cure AIDS.

Previously, attempts to develop HIV vaccines have been made by identifying an existing HIV strain and then producing a vaccine specific to that virus. Generally, vaccines have been based upon a B cell (antibody) response, the antibody being reactive with the surface antigens of the specific HIV strain against which it has been developed. Typically, the surface proteins comprising the antigens are variable from one HIV strain to the next, since mutation of the virus to produce a new virus tends to occur in the surface proteins. The consequence of this is that conventional HIV vaccines, if they were functional at all, would generally protect only against one specific virus strain, and not against a new strain that results from a mutation. Thus, a new vaccine would be required for protection against an emerging strain. The period of time between emergence of the new virus strain by mutation is very short. Within an infected individual new strains are arising all the time, as a result of the selective pressure imposed by that individual's immune system. As a result, the viral population found in an infected individual changes with time (over a period of weeks, months and years) without any requirement for re-infection due to the high mutation rate. Thus, the only likely

way to target immunodeficiency virus infection in an individual, or to target potential new virus strains that might infect or develop in an individual, is to target a conserved region of the proteome. This approach is inherently problematic, since the dominant immune response to HIV is directed to sections that are themselves under a high rate of mutation, due to (a) immunological pressure and (b) low fidelity rates of the replicative machinery of the virus.

A number of studies directed at developing vaccines to immunodeficiency viruses (including vaccines to HIV) have been undertaken in the past. These have for the most part antibody based and concentrated on vaccines based upon HIV glycoprotein 120 and glycoprotein 160 (thought to be the best candidates for an HIV vaccine). Particularly relevant studies are listed in the following:

Blood. 2006 Feb 7; "HIV nonprogressors preferentially maintain highly functional HIV-specific CD8+ T-cells". Betts MR, Nason MC, West SM, De Rosa SC, Migueles SA, Abraham J, Lederman MM, Benito JM, Goepfert PA, Connors M, Roederer M, Koup RA.

Indian J Med Res. 2005 Apr;121(4):287-314. "Impact of genetic diversity of HIV-1 on diagnosis, antiretroviral therapy & vaccine development". Lal RB, Chakrabarti S, Yang C.

J Virol. 2005 Apr;79(8):4580-8. "Vaccine-elicited memory cytotoxic T lymphocytes contribute to Mamu-A*01-associated control of simian/human immunodeficiency virus 89.6P replication in rhesus monkeys". Seaman MS, Santra S, Newberg MH, Philippon V, Manson K, Xu L, Gelman RS, Panicali D, Mascola JR, Nabel GJ, Letvin NL.

J Infect Dis. 2005 Mar 1;191(5):666-77. Epub 2005 Jan 27. "Correlation between immunologic responses to a recombinant glycoprotein 120 vaccine and incidence of HIV-1 infection in a phase 3 HIV-1 preventive vaccine trial". Gilbert PB, Peterson ML, Follmann D, Hudgens MG, Francis DP, Gurwith M, Heyward WL, Jobes DV, Popovic V, Self SG, Sinangil F, Burke D, Berman PW.

J Infect Dis. 2005 Mar 1;191(5):654-65. Epub 2005 Jan 27. "Placebo-controlled phase 3 trial of a recombinant glycoprotein 120 vaccine to prevent HIV-1 infection". Flynn NM, Forthal DN, Harro CD, Judson FN, Mayer KH, Para MF.

J Exp Med. 2004 Jun 21;199(12):1709-18. "Cytotoxic T lymphocyte-based control of simian immunodeficiency virus replication in a preclinical AIDS vaccine trial". Matano T, Kobayashi M, Igarashi H, Takeda A, Nakamura H, Kano M, Sugimoto C, Mori K, Iida A, Hirata T, Hasegawa M, Yuasa T, Miyazawa M, Takahashi Y, Yasunami M, Kimura A, O'Connor DH, Watkins DI, Nagai Y.

Immunol Res. 2004;29(1-3):161-74. "Insights into the role of host genetic and T-cell factors in resistance to HIV transmission from studies of highly HIV-exposed Thais". McNicholl JM, Promadej N.

J. Virol. 2005 Dec; 9(24):15368-75: "Genetic and Stochastic influences on the interaction of human immunodeficiency virus type 1 and cytotoxic T lymphocytes in identical twins". Yang OO, Church J, Kitchen CM, Kilpatrick R, Ali A, Geng Y, Killian MS, Sabado RL, Ng H, Suen J, Bryson Y, Jamieson BD, Krogstad P.

J. Virol. 2005 Sep. 79 (17):11523-8. "Human immunodeficiency virus mutations during the first month of infection are preferentially found in known cytotoxic T-lymphocyte epitopes". Bernardin F, Kong D, Peddada L, Baxter-Lowe LA, Delwart E

However, although known epitopes have been studied extensively, none has yet been satisfactory for forming the basis of an HIV vaccine. Moreover, vaccines based upon any single epitope, even if it were to provide some protection, would likely be specific for a particular HLA, making the vaccine ineffective in a large proportion of the human population.

Accordingly, it is an aim of the present invention to solve the problems associated with the known prior art as set out above. It is a further aim of the present invention to provide a polypeptide that is capable of eliciting a CTL immune response in vertebrates against a

plurality of immunodeficiency virus strains and/or in a plurality of individuals expressing differing MHCs (HLAs). It is a further aim of the present invention to provide an immunodeficiency virus vaccine (such as an HIV vaccine) using the polypeptide of the invention. Preferably the vaccine is capable of protection against a plurality of virus strains and/or is effective in a plurality of individuals expressing differing MHCs (HLAs).

Accordingly, the present invention provides a polypeptide having no more than 100 amino acids, which polypeptide comprises one or more sequences having at least 60% homology with any of SEQ ID 1-4, or comprises two or more epitopes having 7 amino acids or more, each epitope having at least 60% homology with a sub-sequence of any of SEQ ID 1-4 that has the same length as the epitope:

SEQ ID 1	GDTWAGVEAIRILQQLLFHFRIGCQHSR
SEQ ID 2	KVGSLQYLALTALITPKKIKPPLPSVKKLTEDRWNPQKT
SEQ ID 3	EPVPLQLPPLERLTLDCEDCGTSGTQ
SEQ ID 4	YKGALDLSHFLKEKGGLEGLIYSQKRQDILDLWVYHTQGYFPD

wherein, the polypeptide is immunogenic in a vertebrate expressing a major histocompatibility complex (MHC) allele, and wherein the polypeptide is not a complete HIV virus protein.

Thus, the polypeptide is one that may comprise the whole of (or may comprise at least two 7 or more residue parts of) any of the above sequences, but cannot have more than 100 amino acid residues in total. The polypeptide must also be immunogenic in a vertebrate expressing an MHC (HLA in humans) allele. An immunogenic polypeptide is understood in the present context to mean a polypeptide that elicits an immune response in a vertebrate, such as by binding to a vertebrate MHC and causing it to react with a cytotoxic T cell lymphocyte. One method for determining whether a polypeptide possesses immunogenicity is set out in Experiment 1 below. However, the present invention is not limited to such methods, and the skilled person may select any known method for determining immunogenicity, as desired.

As mentioned above, the polypeptide may be one comprising two 7 or more residue epitopes that react with one or more MHCs and so elicit a broad CTL response. The response may be in a single individual or may be in at least two different individuals (the individuals may be of the same species or different species). Thus, the polypeptide may comprise at least two different 7 or more residue epitopes, each of which individually provides a response to a different subject. An epitope in the context of the present invention is a part of a polypeptide which is capable of binding to an MHC in a vertebrate, preferably eliciting an immune response, such as by causing the MHC-epitope complex to react with a CTL. One method for determining whether a polypeptide is an epitope is set out in Experiment 1 below. However, the present invention is not limited to such methods, and the skilled person may select any known method for determining whether a polypeptide is an epitope, as desired.

The present inventors have found that the above sequences comprise a plurality of CTL epitopes, which may afford protection against immunodeficiency viruses, especially HIV, for a wide variety of vertebrates in a population, and for a wide cross-section of the human population. In addition, the inventors have analysed all known HIV strain sequences, and have found that the specified sequences are remarkably conserved across all known HIV strains. As such, these sequences are very unlikely to be significantly altered in new strains resulting from mutation of existing strains. Accordingly, the epitopes within these sequences that provide protection are highly likely to be present in unchanged form in new strains, since mutation does not normally occur in these regions. Consequently, these epitopes provide excellent opportunity not only for providing protection against existing HIV strains (such as reference strains, e.g. in the case of HIV-1 Clade B, the standard reference HXB-2 - more information on reference strains can be found in the <http://hiv-web.lanl.gov> database), but also protecting against as yet unknown strains, such as mutated forms of the above reference strains.

As discussed above, the sequences have been identified after analysis of all known HIV strain sequences. The sequences are thus consensus sequences developed from the above analysis. Despite being consensus sequences, the sequences in some cases correspond exactly to natural sequences in some of the known HIV strains. Due to the remarkable conservation in the sequences across all viruses, the consensus sequences, even when differing from actual

sequences, only differ in a small number of residues, and thus contain many smaller epitopes (8-mers, 9-mers, 10-mers etc.) for which there are no differences from natural sequences. The above consensus sequences as a whole thus contain many effective epitopes that are the same as the natural epitopes, as well as effective epitopes that differ only slightly from natural epitopes. It will be apparent to the skilled person that the invention extends not only to the consensus sequences and their epitopes, but also to the corresponding actual sequences in any immunodeficiency virus (e.g. HIV) strains. Thus, sequences with some homology to the consensus sequences are also within the scope of the invention. Such homology allows substitution of, for example, up to 3 amino acids in an 8-mer epitope (62.5% homology) or in a 9-mer, 10-mer, or 11-mer epitope. It is preferred that no more than 10 such substitutions are identifiable in a sequence of the invention corresponding to the full sequences of SEQ ID 1-4 (66.6% homology for a 30-mer). Such substitutions are preferably conservative substitutions in line with known substitution schemes.

Having in mind that the invention extends from the consensus sequence to the corresponding natural sequences, then the invention also provides a polypeptide having no more than 100 amino acids, which polypeptide comprises one or more sequences defined by the following amino acid residues of an HIV virus protein, or comprises two or more epitopes having 7 amino acids or more from a sequence defined by the following amino acid residues of an HIV virus protein:

residues 51-80	of a VPR protein
residues 142-181	of a VIF protein
residues 69-95	of an REV protein
residues 81-123	of a NEF protein

wherein, the polypeptide is immunogenic in a vertebrate expressing a major histocompatibility complex (MHC) allele, and wherein the polypeptide is not a complete HIV protein.

The sequence numbering referred to in the present invention is defined according to well-recognised principles. Thus, the numbering begins at 1 from the recognised translation

initiation codon (ATG). This corresponds to a Methionine (M), for the segment of the HIV virus genome coding for the protein of interest. In other words, it begins at 1 in respect of the Methionine shown as the first amino acid in the protein sequence of interest as used and defined by the databases in which the sequences have been set forth (i.e. GenBank, SwissProt, etc.).

The present invention will be described in more detail by way of example only with reference to the following Figures, in which:

Figure 1 shows IFN- γ production by primary splenocyte cultures of HIV-v and NRP vaccinated mice stimulated with Con A (10 μ g/ml), soluble Lysozyme (5 μ g/ml), purified soluble polypeptides (P1, P2, P3 and P4; 5 μ g/ml) and HLA-matched T1 (T1) and mismatched JURKAT (Ju) human cells transfected with either Lysozyme, P1, P2, P3 or P4 according to the protocol described in the text (splenocyte to transfected cell ratio is 10:1); IFN- γ production is represented as the differential between the level of production in response to the antigen considered minus the IFN- γ produced in response to either soluble Lysozyme or the corresponding cell transfected with Lysozyme. Background levels of Lysozyme mediated production of IFN- γ were for soluble antigen 25 ± 10 pg/ml, for antigen in T1 316 ± 43 pg/ml, and for antigen in Jurkat 19 ± 6 pg/ml;

Figure 2 shows IFN- γ production by primary splenocyte cultures of HIV-v and NRP vaccinated mice stimulated with Con A (10 μ g/ml), soluble Lysozyme (5 μ g/ml), purified equimolar solution of recombinant HIV proteins (5 μ g/ml) and HLA-matched T1 (T1) and mismatched JURKAT (Ju) human cells transfected with either Lysozyme or purified equimolar solution of recombinant HIV proteins according to the protocol described in the text (splenocyte to transfected cell ratio is 10:1); IFN- γ production is represented as the differential between the level of production in response to the antigen considered minus the IFN- γ produced in response to either soluble Lysozyme or the corresponding cell transfected with Lysozyme; background levels of Lysozyme mediated production of IFN- γ were for soluble antigen 25 ± 10 pg/ml, for antigen in T1 316 ± 43 pg/ml, and for antigen in Jurkat 19 ± 6 pg/ml.

Figure 3 shows similar IFN- γ production as to Figures 1 and 2 in respect of test group 3, confirming reactivity of the peptide of SEQ ID 3;

Figure 4 shows similar IFN- γ production as to Figures 1 and 2 in respect of test group 4, confirming reactivity of the peptide of SEQ ID 4;

Figure 5 shows similar IFN- γ production as to Figures 1 and 2 in respect of test group 5, confirming reactivity of the antigens derived from complete VIF, REV and NEF HIV proteins; and

Figure 6 shows IFN- γ production by primary splenocyte cultures of HIV-v and NRP-v vaccinated mice stimulated with either Ionomycin (0.78 $\mu\text{g/ml}$) and PMA (0.05 $\mu\text{g/ml}$), Con A (5 $\mu\text{g/ml}$) or HLA-matched CEM human cells infected with D clade (UG21-R5) or A clade (UG-29-X4) HIV-1 isolates according to the protocol described in the Examples (splenocyte to infected cell ratio is 10:1). IFN- γ production is represented as the number of IFN- γ -producing cells in the HIV-v group minus the number of IFN- γ -producing cells in the NRP-v group. The number of IFN- γ -producing cells values for both HIV-v and NRP-v splenocytes stimulated with Con A or Ionomycin and PMA were over 4900 and over 8000 respectively. Statistical significance was established by non-parametric Mann-Whitney analysis of the established IFN- γ values for the HIV-v and NRP-v groups.

The polypeptides of the invention described above typically comprise one or more (preferably two or more) epitopes. These epitopes are preferably T cell epitopes, such as cytotoxic T lymphocyte (CTL) epitopes. Generally the polypeptide is immunogenic to an immunodeficiency virus strain (preferably HIV), and preferably to a plurality of such strains. In the present context, a polypeptide immunogenic to an immunodeficiency virus strain is understood to mean a polypeptide that is part of a virus protein and that elicits an immune response, such as by exhibiting CTL reactivity when bound to an MHC. One method for determining whether a polypeptide possesses such immunogenicity is set out in Experiment 1 below. However, the present invention is not limited to such methods, and the skilled person may select any known method for determining immunogenicity, as desired.

In the present invention, the polypeptide comprises two or more sequences as described above. Typically, two, three, four, five or more such sequences may be present in the polypeptide, if desired. The more such epitopes are present, the greater the breadth of protection afforded within a population of humans and/or animal individuals with differing HLAs or MHCs.

The polypeptide according to the present invention may also comprise one or more further sequences that are not epitopes, if desired. Typically the further sequences are from one or more immunodeficiency virus proteins (preferably HIV proteins). These sequences may be situated between two or more of the sequences (the epitopes) described above, and/or may be situated at one or both ends of the polypeptide. The presence of such further sequences should not affect the function of the polypeptide, provided that the polypeptide as a whole does not become too large, interfering with the presentation of the epitopes in the vertebrate's immune system. In specific embodiments of the invention, when the polypeptide is homologous to SEQ ID 1, the further sequences are preferably one or more from a VPR protein (preferably from an HIV strain), when the polypeptide is homologous to SEQ ID 2, the further sequences are preferably one or more from a VIF protein (preferably from an HIV strain), when the polypeptide is homologous to SEQ ID 3, the further sequences are preferably one or more from a REV protein (preferably from an HIV strain), and when the polypeptide is homologous to SEQ ID 4, the further sequences are preferably one or more from a NEF protein (preferably from an HIV strain).

In the most preferred embodiments, the further sequences from the above-mentioned proteins are ones within the following consensus sequences, or ones having at least 60% homology with a sequence within the following consensus sequences:

VPR HIV Consensus – SEQ ID 5

MEQAPEDQGPQREPYNEWTLLEELKNEAVRHFPRPWLHGLGQHIYETYGDTWA
GVEAIIRILQQLLFIHFRIGCQHSRIGIIRQRRARNGASRS

VIF HIV Consensus – SEQ ID 6

MENRWQVMIVWQVDRMRIRTWKSLVKHHMYISKKAKGWFYRHHYESTHPRISSEV
HIPLGDDAKLVITTYWGLHTGERDWHLGQGVSIIEWRKKRYSTQVDPDLADQLIHLY
YFDCFSESAIRKAILGHIVSPRCEYQAGHNKVGSLQYLALTALITPKKIKPPLPSVKKL
TEDRWNPQKTKGHRGSHTMNGH

REV HIV Consensus– SEQ ID 7

MAGRSGDSDEELLKAVRIKILYQSNPYPSPEGTRQARRNRRRRWRARQRQIRSISERI
LSTCLGRPAEPVPLQLPPLERLTLDCEDCGTSGTQQSQGTEEGVGSPQILVESPTVLE
SGTKE

NEF HIV Consensus– SEQ ID 8

MGGKWSKSSVVGWPAVRERMRRRAEPAAEGVGAVSRDLEKHGAITSSNTAANNAD
CAWLEAQEEEEVGFPVRPQVPLRPMTYKGALDLSHFLKEKGGLEGLIYSQKRQDILD
LWVYHTQGYFPDWQNYTPGPGIRYPLTFGWCFKLVPVEPEKVEEANEGENNCLLHP
MSQHGMEDPEREVLVWKFDSRLAFHHMARELHPEYYKDC

The homology referred to above in respect of these sequences is preferably 75%, 85%, 95% or substantially 100%.

In the present invention, the immunodeficiency virus strain is not especially limited, and the polypeptides may be immunogenic against, and/or derived from, any known HIV virus strain. Future strains that have mutated from any of these existing strains may also be ones against which the polypeptides are immunogenic, or from which the polypeptides are derived.

The sequences defining the polypeptides of the present invention are situated within the VPR, VIF, REV and NEF proteins from any HIV virus strain (the consensus sequences of which for all analysed sequences, or alternatively the positions of which within the protein, are described above). The following specific sequences were analysed by the inventors, and preferably the HIV sequences referred to in the invention are selected from these specific sequences, or mutations from these sequences. Thus, the specific sequences homologous to SEQ ID 1-4 described above are preferably the ones at the appropriate positions within the

following proteins. Similarly, the sequences of the present invention defined by the residue positions within proteins from any virus strain, namely residues 51-80 of VPR protein, residues 142-181 of VIF protein, residues 69-95 of REV protein, and residues 81-123 of NEF protein. The list is in the form |version number (gi number)|database identification (e.g. gb for GenBank)|NCBI accession number|optional further information (e.g. the accession number of the nucleotide sequence from which the protein sequence is derived). The sequences and corresponding virus strains from which they derive can all be found from the public NCBI protein database, which may be accessed online at the following URL address <http://www.ncbi.nlm.nih.gov/entrez/query/static/help/helpdoc.html#Protein>. The protein database contains sequence data from the translated coding regions from DNA sequences in GenBank, EMBL, and DDBJ as well as protein sequences submitted to Protein Information Resource (PIR), SWISS-PROT, Protein Research Foundation (PRF), and Protein Data Bank (PDB) (sequences from solved structures).

VPR proteins

|1469310|gb|AAB05046.1|, |77167539|gb|ABA62729.1|, |77168205|gb|ABA63062.1|,
|3218154|emb|CAB05081.1|, |3218152|emb|CAB05080.1|, |22596296|gb|AAN03081.1|AF45,
|32351105|gb|AAP76513.1|, |25166839|gb|AAN73627.1|AF48, |77168298|gb|ABA63108.1|,
|77167711|gb|ABA62815.1|, |77167347|gb|ABA62633.1|, |77167789|gb|ABA62854.1|,
|77167745|gb|ABA62832.1|, |77167607|gb|ABA62763.1|, |77167449|gb|ABA62684.1|,
|77167961|gb|ABA62940.1|, |77167707|gb|ABA62813.1|, |77167457|gb|ABA62688.1|,
|77167317|gb|ABA62618.1|, |77167535|gb|ABA62727.1|, |49472934|gb|AAT66278.1|,
|6910971|gb|AAF31322.1|AF146, |77167947|gb|ABA62933.1|, |77167787|gb|ABA62853.1|,
|77167611|gb|ABA62765.1|, |71726015|gb|AAZ39146.1|, |82283746|sp|Q66MS0|Q66MS0_9,
|77168227|gb|ABA63073.1|, |57545334|gb|AAW51570.1|, |77167367|gb|ABA62643.1|,
|77167381|gb|ABA62650.1|, |221480|dbj|BAA00995.1|, |77167689|gb|ABA62804.1|,
|57545338|gb|AAW51572.1|, |77168272|gb|ABA63095.1|, |77167513|gb|ABA62716.1|,
|46254407|gb|AAS86166.1|, |2570312|gb|AAC97573.1|8, |77167533|gb|ABA62726.1|,
|77168366|gb|ABA63142.1|, |5001943|gb|AAD37222.1|, |5001933|gb|AAD37217.1|,
|5001923|gb|AAD37212.1|, |5001913|gb|AAD37207.1|, |82307194|sp|Q9W9L8|Q9W9L8_9,
|5001953|gb|AAD37227.1|, |74273444|gb|ABA01428.1|, |74273434|gb|ABA01419.1|,
|74273424|gb|ABA01410.1|, |55735953|gb|AAV59686.1|, |77168009|gb|ABA62964.1|,
|77167979|gb|ABA62949.1|, |77167519|gb|ABA62719.1|, |77167451|gb|ABA62685.1|,
|77168089|gb|ABA63004.1|, |77167847|gb|ABA62883.1|, |77168197|gb|ABA63058.1|,
|77167795|gb|ABA62857.1|, |16118321|gb|AAL12694.1|, |83026816|gb|ABB96451.1|,
|82284686|sp|Q6EFW3|Q6EFW3_9, |37677907|gb|AAQ97572.1|,
|37677897|gb|AAQ97563.1|, |37682582|gb|AAQ98264.1|, |77167595|gb|ABA62757.1|,
|77167345|gb|ABA62632.1|, |77167841|gb|ABA62880.1|, |55735961|gb|AAV59693.1|,
|71725995|gb|AAZ39128.1|, |57545372|gb|AAW51589.1|, |57545370|gb|AAW51588.1|,
|77168264|gb|ABA63091.1|, |77167867|gb|ABA62893.1|, |77167967|gb|ABA62943.1|,
|3193275|gb|AAD03328.1|, |77167499|gb|ABA62709.1|, |5738569|emb|CAB53045.1|,

46254431 gb AAS86184.1 ,	77167929 gb ABA62924.1 ,	77167319 gb ABA62619.1 ,
77167553 gb ABA62736.1 ,	77167547 gb ABA62733.1 ,	77168101 gb ABA63010.1 ,
77168262 gb ABA63090.1 ,	77167509 gb ABA62714.1 ,	77168336 gb ABA63127.1 ,
77167385 gb ABA62652.1 ,	77168015 gb ABA62967.1 ,	77167899 gb ABA62909.1 ,
77167567 gb ABA62743.1 ,	2393853 gb AAB70154.1 ,	71726025 gb AAZ39155.1 ,
77168378 gb ABA63148.1 ,	77168294 gb ABA63106.1 ,	77168035 gb ABA62977.1 ,
77167721 gb ABA62820.1 ,	77167565 gb ABA62742.1 ,	31559665 dbj BAC77489.1 ,
1688186 gb AAB51055.1 ,	1688182 gb AAB51053.1 ,	15407036 gb AAG32142.1 ,
15407034 gb AAG32141.1 ,	15407038 gb AAG32143.1 ,	77168394 gb ABA63156.1 ,
31559655 dbj BAC77480.1 ,	77167455 gb ABA62687.1 ,	77168217 gb ABA63068.1 ,
77168260 gb ABA63089.1 ,	77167773 gb ABA62846.1 ,	77168059 gb ABA62989.1 ,
77167431 gb ABA62675.1 ,	77168057 gb ABA62988.1 ,	77167427 gb ABA62673.1 ,
2570305 gb AAC63086.1 ,	77168127 gb ABA63023.1 ,	77168087 gb ABA63003.1 ,
77167443 gb ABA62681.1 ,	77167463 gb ABA62691.1 ,	77168380 gb ABA63149.1 ,
77167517 gb ABA62718.1 ,	77167705 gb ABA62812.1 ,	55735988 gb AAV59717.1 ,
77168019 gb ABA62969.1 ,	77168406 gb ABA63162.1 ,	77168203 gb ABA63061.1 ,
77168007 gb ABA62963.1 ,	77168073 gb ABA62996.1 ,	77167603 gb ABA62761.1 ,
77167447 gb ABA62683.1 ,	77168169 gb ABA63044.1 ,	77168005 gb ABA62962.1 ,
77167637 gb ABA62778.1 ,	77167515 gb ABA62717.1 ,	77168143 gb ABA63031.1 ,
77168031 gb ABA62975.1 ,	77168085 gb ABA63002.1 ,	77167785 gb ABA62852.1 ,
77167727 gb ABA62823.1 ,	2944130 gb AAC05237.1 ,	3002833 gb AAD03193.1 ,
5001969 gb AAD37235.1 ,	57869572 gb AAW57622.1 ,	1185514 gb AAA87861.1 ,
1185512 gb AAA87860.1 ,	62956369 gb AAY23504.1 ,	25166899 gb AAN73681.1 AF48,
18074002 emb CAC86567.1 ,	38570392 gb AAR24634.1 ,	57545362 gb AAW51584.1 ,
3218473 emb CAB05069.1 ,	57545320 gb AAW51563.1 ,	77167325 gb ABA62622.1 ,
6651484 gb AAF22332.1 AF193,		6651476 gb AAF22324.1 AF193,
18699224 gb AAL78471.1 AF41,		83026808 gb ABB96444.1 ,
18699231 gb AAL78477.1 AF41,		18699251 gb AAL78492.1 AF41,
29119299 gb AAO63217.1 ,	829465 gb AAA79594.1 ,	829458 gb AAA79588.1 ,
77168402 gb ABA63160.1 ,	77167963 gb ABA62941.1 ,	77168179 gb ABA63049.1 ,
77167551 gb ABA62735.1 ,	77168117 gb ABA63018.1 ,	77168213 gb ABA63066.1 ,
77167919 gb ABA62919.1 ,	77167635 gb ABA62777.1 ,	77167793 gb ABA62856.1 ,
77167371 gb ABA62645.1 ,	77168039 gb ABA62979.1 ,	77167557 gb ABA62738.1 ,
77167369 gb ABA62644.1 ,	77167699 gb ABA62809.1 ,	12964721 gb AAK11289.1 ,
12964719 gb AAK11288.1 ,	328434 gb AAB04039.1 ,	77167623 gb ABA62771.1 ,
7416686 dbj BAA93983.1 ,	7416688 dbj BAA93984.1 ,	77168326 gb ABA63122.1 ,
77167675 gb ABA62797.1 ,	57545276 gb AAW51541.1 ,	12964727 gb AAK11292.1 ,
12964725 gb AAK11291.1 ,	12964731 gb AAK11294.1 ,	12964733 gb AAK11295.1 ,
12964729 gb AAK11293.1 ,	77167767 gb ABA62843.1 ,	12964723 gb AAK11290.1 ,
12964717 gb AAK11287.1 ,	77168284 gb ABA63101.1 ,	77167813 gb ABA62866.1 ,
77167765 gb ABA62842.1 ,	77167331 gb ABA62625.1 ,	12964715 gb AAK11286.1 ,
77168362 gb ABA63140.1 ,	77167949 gb ABA62934.1 ,	3694864 gb AAC62478.1 ,
77167679 gb ABA62799.1 ,	25167049 gb AAN73816.1 AF48,	77168316 gb ABA63117.1 ,
77167391 gb ABA62655.1 ,	37683040 gb AAQ98596.1 ,	38491794 gb AAR22172.1 ,
77167737 gb ABA62828.1 ,	77168340 gb ABA63129.1 ,	77168223 gb ABA63071.1 ,
77168207 gb ABA63063.1 ,	77167831 gb ABA62875.1 ,	77167585 gb ABA62752.1 ,
38570402 gb AAR24639.1 ,	31559693 dbj BAC77514.1 ,	77168268 gb ABA63093.1 ,
78172844 gb ABB29376.1 ,	77167693 gb ABA62806.1 ,	77168065 gb ABA62992.1 ,

77167529 gb ABA62724.1 ,	77167797 gb ABA62858.1 ,	77167687 gb ABA62803.1 ,
77167473 gb ABA62696.1 ,	77167337 gb ABA62628.1 ,	77168308 gb ABA63113.1 ,
77168165 gb ABA63042.1 ,	77167491 gb ABA62705.1 ,	77167477 gb ABA62698.1 ,
77167615 gb ABA62767.1 ,	77167511 gb ABA62715.1 ,	77167441 gb ABA62680.1 ,
77167429 gb ABA62674.1 ,	77168370 gb ABA63144.1 ,	77168159 gb ABA63039.1 ,
77168193 gb ABA63056.1 ,	77168360 gb ABA63139.1 ,	77167985 gb ABA62952.1 ,
77167857 gb ABA62888.1 ,	77168390 gb ABA63154.1 ,	77168278 gb ABA63098.1 ,
77168258 gb ABA63088.1 ,	77167941 gb ABA62930.1 ,	77167593 gb ABA62756.1 ,
77167815 gb ABA62867.1 ,	77168091 gb ABA63005.1 ,	77167671 gb ABA62795.1 ,
77168306 gb ABA63112.1 ,	77167407 gb ABA62663.1 ,	77167329 gb ABA62624.1 ,
77168338 gb ABA63128.1 ,	77168163 gb ABA63041.1 ,	77167739 gb ABA62829.1 ,
77168003 gb ABA62961.1 ,	77167641 gb ABA62780.1 ,	77167917 gb ABA62918.1 ,
77168239 gb ABA63079.1 ,	77167893 gb ABA62906.1 ,	77167839 gb ABA62879.1 ,
77167621 gb ABA62770.1 ,	77168119 gb ABA63019.1 ,	77167895 gb ABA62907.1 ,
2281656 gb AAB64166.1 ,	77168095 gb ABA63007.1 ,	24753975 gb AAN64098.1 ,
77168318 gb ABA63118.1 ,	25166799 gb AAN73591.1 AF48,	77168233 gb ABA63076.1 ,
77167587 gb ABA62753.1 ,	51572116 gb AAU06764.1 ,	37677797 gb AAQ97473.1 ,
37677787 gb AAQ97464.1 ,	77168155 gb ABA63037.1 ,	77167995 gb ABA62957.1 ,
39777407 gb AAR30986.1 ,	77167981 gb ABA62950.1 ,	31559617 dbj BAC77446.1 ,
77168107 gb ABA63013.1 ,	66864684 gb AAV57412.1 ,	55925130 gb AAV67935.1 ,
55925122 gb AAV67928.1 ,	55925114 gb AAV67921.1 ,	55925138 gb AAV67942.1 ,
77168392 gb ABA63155.1 ,	77167823 gb ABA62871.1 ,	77168312 gb ABA63115.1 ,
77167409 gb ABA62664.1 ,	77167343 gb ABA62631.1 ,	77167669 gb ABA62794.1 ,
77167811 gb ABA62865.1 ,	77167665 gb ABA62792.1 ,	77167657 gb ABA62788.1 ,
1185550 gb AAA87879.1 ,	32399660 emb CAD58637.1 ,	11761313 dbj BAB19248.1 ,
11761306 dbj BAB19242.1 ,	77168093 gb ABA63006.1 ,	77167485 gb ABA62702.1 ,
77167915 gb ABA62917.1 ,	83026778 gb ABB96417.1 ,	77167525 gb ABA62722.1 ,
57545344 gb AAW51575.1 ,	77168330 gb ABA63124.1 ,	77167755 gb ABA62837.1 ,
77168053 gb ABA62986.1 ,	77167731 gb ABA62825.1 ,	37725250 gb AAR02312.1 ,
37725240 gb AAR02303.1 ,	37725220 gb AAR02285.1 ,	37725200 gb AAR02267.1 ,
37725190 gb AAR02258.1 ,	37725230 gb AAR02294.1 ,	37725210 gb AAR02276.1 ,
77168396 gb ABA63157.1 ,	77167817 gb ABA62868.1 ,	77167881 gb ABA62900.1 ,
77167423 gb ABA62671.1 ,	77167939 gb ABA62929.1 ,	77167411 gb ABA62665.1 ,
1160019 emb CAA92863.1 ,	77167591 gb ABA62755.1 ,	77167425 gb ABA62672.1 ,
77167907 gb ABA62913.1 ,	3218477 emb CAB05071.1 ,	16118294 gb AAL12670.1 ,
139395 sp P05954 VPR_HV1RH,	328571 gb AAA45055.1 ,	3114559 gb AAD03178.1 ,
1160021 emb CAA92864.1 ,	1477880 gb AAB05523.1 ,	1477796 gb AAB05481.1 ,
55735979 gb AAV59709.1 ,	25166859 gb AAN73645.1 AF48,	38570394 gb AAR24635.1 ,
77168001 gb ABA62960.1 ,	37677867 gb AAQ97536.1 ,	37677857 gb AAQ97527.1 ,
139394 sp P20891 VPR_HV1OY,	328446 gb AAA83394.1 ,	1160107 emb CAA92907.1 ,
77168081 gb ABA63000.1 ,	74273383 gb ABA01374.1 ,	74273375 gb ABA01367.1 ,
74273358 gb ABA01353.1 ,	74273349 gb ABA01345.1 ,	57545296 gb AAW51551.1 ,
1160039 emb CAA92873.1 ,	1160091 emb CAA92899.1 ,	57545312 gb AAW51559.1 ,
57545282 gb AAW51544.1 ,	1465784 gb AAB05601.1 ,	77168372 gb ABA63145.1 ,
77168037 gb ABA62978.1 ,	57545330 gb AAW51568.1 ,	1151163 gb AAA85233.1 ,
5805265 gb AAD51914.1 ,	57545354 gb AAW51580.1 ,	1160035 emb CAA92871.1 ,
7416664 dbj BAA93972.1 ,	7416674 dbj BAA93977.1 ,	7416666 dbj BAA93973.1 ,
7416670 dbj BAA93975.1 ,	7416672 dbj BAA93976.1 ,	7416668 dbj BAA93974.1 ,

|7416708|dbj|BAA93994.1|, |27446736|gb|AAL62481.1|, |2286137|gb|AAB64283.1|,
 |2286128|gb|AAB64275.1|, |82279710|sp|O42084|O42084_9, |4205075|gb|AAD10946.1|,
 |4205066|gb|AAD10938.1|, |4205057|gb|AAD10930.1|, |4205048|gb|AAD10922.1|,
 |4205039|gb|AAD10914.1|, |4205030|gb|AAD10906.1|, |4205021|gb|AAD10898.1|,
 |4205012|gb|AAD10890.1|, |4205003|gb|AAD10882.1|, |4204994|gb|AAD10874.1|,
 |38570406|gb|AAR24641.1|, |38570388|gb|AAR24632.1|, |139386|sp|P05928|VPR_HV1BR,
 |326422|gb|AAB59749.1|, |28872817|ref|NP_057852.2|, |551171|gb|AAA21763.1|,
 |902802|gb|AAB60574.1|, |1351413|sp|P12520|VPR_HV1N5, |328421|gb|AAA44990.1|,
 |14269050|gb|AAK58007.1|AF36, |77168111|gb|ABA63015.1|, |8218029|emb|CAB92789.1|,
 |77167761|gb|ABA62840.1|, |77167403|gb|ABA62661.1|, |55740259|gb|AAV63830.1|,
 |55740249|gb|AAV63821.1|, |139384|sp|P12519|VPR_HV1Z2, |329383|gb|AAA45368.1|,
 |61102539|gb|AAX37685.1|, |61102531|gb|AAX37678.1|, |2570294|gb|AAC32650.1|,
 |77167825|gb|ABA62872.1|, |77168105|gb|ABA63012.1|, |38570408|gb|AAR24642.1|,
 |77167507|gb|ABA62713.1|, |37682493|gb|AAQ98184.1|, |55740239|gb|AAV63812.1|,
 |55740229|gb|AAV63803.1|, |328160|gb|AAA44871.1|, |25166719|gb|AAN73519.1|AF48,
 |38491814|gb|AAR22190.1|, |24181481|gb|AAN47103.1|, |139392|sp|P05955|VPR_HV1MA,
 |77168025|gb|ABA62972.1|, |37677887|gb|AAQ97554.1|, |37677877|gb|AAQ97545.1|,
 |139389|sp|P05956|VPR_HV1EL, |326681|gb|AAA44327.1|, |57901101|gb|AAW57866.1|,
 |32399669|emb|CAD58646.1|, |38491804|gb|AAR22181.1|, |77168368|gb|ABA63143.1|,
 |3002880|gb|AAD03235.1|, |77168061|gb|ABA62990.1|, |77168133|gb|ABA63026.1|,
 |77167879|gb|ABA62899.1|, |16118274|gb|AAL12652.1|, |37681544|gb|AAQ97653.1|,
 |37677847|gb|AAQ97518.1|, |57545326|gb|AAW51566.1|, |57545322|gb|AAW51564.1|,
 |77168071|gb|ABA62995.1|, |23394922|gb|AAN31644.1|, |62956358|gb|AAV23494.1|,
 |45360202|gb|AAS59234.1|, |83026788|gb|ABB96426.1|, |77167749|gb|ABA62834.1|,
 |829450|gb|AAA79581.1|, |829435|gb|AAA79568.1|, |829443|gb|AAA79575.1|,
 |829427|gb|AAA79561.1|, |829419|gb|AAA79554.1|, |829411|gb|AAA79547.1|,
 |77167571|gb|ABA62745.1|, |57545304|gb|AAW51555.1|, |37677767|gb|AAQ97446.1|,
 |37677757|gb|AAQ97437.1|, |7416660|dbj|BAA93970.1|, |16118325|gb|AAL12697.1|,
 |47060058|gb|AAT09644.1|, |1185518|gb|AAA87863.1|, |82295315|sp|Q89493|Q89493_9,
 |1477852|gb|AAB05509.1|, |1185546|gb|AAA87877.1|, |82295327|sp|Q89588|Q89588_9,
 |1477854|gb|AAB05510.1|, |1185538|gb|AAA87873.1|, |1477860|gb|AAB05513.1|,
 |1185526|gb|AAA87867.1|, |1185522|gb|AAA87865.1|, |1185544|gb|AAA87876.1|,
 |1477848|gb|AAB05507.1|, |1477846|gb|AAB05506.1|, |1477858|gb|AAB05512.1|,
 |1477856|gb|AAB05511.1|, |82305555|sp|Q9PWZ2|Q9PWZ2_9, |1185540|gb|AAA87874.1|,
 |1185528|gb|AAA87868.1|, |1477850|gb|AAB05508.1|, |1185530|gb|AAA87869.1|,
 |57545360|gb|AAW51583.1|, |57545358|gb|AAW51582.1|, |3218166|emb|CAB05087.1|,
 |3218164|emb|CAB05086.1|, |3218170|emb|CAB05089.1|, |1160103|emb|CAA92905.1|,
 |77168248|gb|ABA63083.1|, |77167771|gb|ABA62845.1|, |77167633|gb|ABA62776.1|,
 |77167933|gb|ABA62926.1|, |77168320|gb|ABA63119.1|, |3218168|emb|CAB05088.1|,
 |1160083|emb|CAA92895.1|, |57545294|gb|AAW51550.1|, |11177392|gb|AAG32258.1|,
 |11177372|gb|AAG32248.1|, |11177390|gb|AAG32257.1|, |11177426|gb|AAG32275.1|,
 |11177424|gb|AAG32274.1|, |11177420|gb|AAG32272.1|, |11177416|gb|AAG32270.1|,
 |11177414|gb|AAG32269.1|, |11177412|gb|AAG32268.1|, |11177410|gb|AAG32267.1|,
 |11177404|gb|AAG32264.1|, |11177400|gb|AAG32262.1|, |11177396|gb|AAG32260.1|,
 |11177388|gb|AAG32256.1|, |11177386|gb|AAG32255.1|, |11177384|gb|AAG32254.1|,
 |11177382|gb|AAG32253.1|, |11177380|gb|AAG32252.1|, |11177378|gb|AAG32251.1|,
 |11177376|gb|AAG32250.1|, |11177374|gb|AAG32249.1|, |11177370|gb|AAG32247.1|,
 |11177368|gb|AAG32246.1|, |11177365|gb|AAG32245.1|, |11177363|gb|AAG32244.1|,

|11177361|gb|AAG32243.1|, |11177359|gb|AAG32242.1|, |11177406|gb|AAG32265.1|,
 |11177394|gb|AAG32259.1|, |11177422|gb|AAG32273.1|, |11177402|gb|AAG32263.1|,
 |11177398|gb|AAG32261.1|, |11177418|gb|AAG32271.1|, |11177408|gb|AAG32266.1|,
 |1160069|emb|CAA92888.1|, |1477810|gb|AAB05488.1|, |57901072|gb|AAW57840.1|,
 |77167733|gb|ABA62826.1|, |82286715|sp|Q6SZT1|Q6SZT1_9, |38570404|gb|AAR24640.1|,
 |38570378|gb|AAR24627.1|, |54124762|gb|AAV30102.1|, |77167697|gb|ABA62808.1|,
 |3327763|gb|AAC41171.1|, |3327755|gb|AAC41167.1|, |3327765|gb|AAC41172.1|,
 |3327757|gb|AAC41168.1|, |3327771|gb|AAC41175.1|, |3327769|gb|AAC41174.1|,
 |3327749|gb|AAC41164.1|, |3327743|gb|AAC41161.1|, |3327734|gb|AAC41157.1|,
 |3327747|gb|AAC41163.1|, |3327736|gb|AAC41158.1|, |3327738|gb|AAC41159.1|,
 |3327761|gb|AAC41170.1|, |3327759|gb|AAC41169.1|, |3327745|gb|AAC41162.1|,
 |3327767|gb|AAC41173.1|, |3327740|gb|AAC41160.1|, |3327753|gb|AAC41166.1|,
 |22596557|gb|AAN03313.1|AF45, |1160095|emb|CAA92901.1|, |77167559|gb|ABA62739.1|,
 |3327751|gb|AAC41165.1|, |3218186|emb|CAB05097.1|, |3218172|emb|CAB05090.1|,
 |1160101|emb|CAA92904.1|, |1160077|emb|CAA92892.1|, |1160063|emb|CAA92885.1|,
 |23392783|emb|CAD26729.1|, |23392781|emb|CAD26728.1|, |23392779|emb|CAD26727.1|,
 |1160097|emb|CAA92902.1|, |1160105|emb|CAA92906.1|, |3218148|emb|CAB05078.1|,
 |1160081|emb|CAA92894.1|, |1160085|emb|CAA92896.1|, |57545284|gb|AAW51545.1|,
 |1160093|emb|CAA92900.1|, |1160073|emb|CAA92890.1|, |57545310|gb|AAW51558.1|,
 |77167461|gb|ABA62690.1|, |22596303|gb|AAN03087.1|AF45, |3218150|emb|CAB05079.1|,
 |77167561|gb|ABA62740.1|, |1160067|emb|CAA92887.1|, |1160059|emb|CAA92883.1|,
 |1160061|emb|CAA92884.1|, |1160079|emb|CAA92893.1|, |36365466|gb|AAQ86678.1|,
 |82283750|sp|Q66MS8|Q66MS8_9, |36365538|gb|AAQ86742.1|,
 |36365493|gb|AAQ86702.1|, |36365484|gb|AAQ86694.1|, |36365403|gb|AAQ86622.1|,
 |36365457|gb|AAQ86670.1|, |36365448|gb|AAQ86662.1|, |36365421|gb|AAQ86638.1|,
 |36365412|gb|AAQ86630.1|, |36365394|gb|AAQ86614.1|, |36365385|gb|AAQ86606.1|,
 |36365376|gb|AAQ86598.1|, |36365439|gb|AAQ86654.1|, |36365430|gb|AAQ86646.1|,
 |36365547|gb|AAQ86750.1|, |36365529|gb|AAQ86734.1|, |36365502|gb|AAQ86710.1|,
 |36365511|gb|AAQ86718.1|, |36365475|gb|AAQ86686.1|, |36365520|gb|AAQ86726.1|,
 |82295424|sp|Q8AC16|Q8AC16_9, |23392753|emb|CAD26714.1|,
 |23392751|emb|CAD26713.1|, |23392749|emb|CAD26712.1|, |57545350|gb|AAW51578.1|,
 |57545318|gb|AAW51562.1|, |57545292|gb|AAW51549.1|, |47118233|gb|AAT11231.1|,
 |3327730|gb|AAC41155.1|, |3327728|gb|AAC41154.1|, |3327682|gb|AAC41131.1|,
 |3327680|gb|AAC41130.1|, |3327732|gb|AAC41156.1|, |3327714|gb|AAC41147.1|,
 |3327726|gb|AAC41153.1|, |3327722|gb|AAC41151.1|, |3327716|gb|AAC41148.1|,
 |3327702|gb|AAC41141.1|, |3327700|gb|AAC41140.1|, |3327698|gb|AAC41139.1|,
 |3327696|gb|AAC41138.1|, |3327694|gb|AAC41137.1|, |3327692|gb|AAC41136.1|,
 |3327686|gb|AAC41133.1|, |3327684|gb|AAC41132.1|, |3327678|gb|AAC41129.1|,
 |3327712|gb|AAC41146.1|, |3327690|gb|AAC41135.1|, |3327720|gb|AAC41150.1|,
 |3327710|gb|AAC41145.1|, |3327706|gb|AAC41143.1|, |3327688|gb|AAC41134.1|,
 |3327704|gb|AAC41142.1|, |3327718|gb|AAC41149.1|, |3327708|gb|AAC41144.1|,
 |3327724|gb|AAC41152.1|, |38570400|gb|AAR24638.1|, |77168075|gb|ABA62997.1|,
 |77167969|gb|ABA62944.1|, |3218162|emb|CAB05085.1|, |3218160|emb|CAB05084.1|,
 |3218481|emb|CAB05073.1|, |77168123|gb|ABA63021.1|, |77168067|gb|ABA62993.1|,
 |23392777|emb|CAD26726.1|, |23392775|emb|CAD26725.1|, |23392773|emb|CAD26724.1|,
 |77168131|gb|ABA63025.1|, |57545342|gb|AAW51574.1|, |57545272|gb|AAW51539.1|,
 |77168342|gb|ABA63130.1|, |27446734|gb|AAL62480.1|, |24753986|gb|AAN64107.1|,
 |12964709|gb|AAK11283.1|, |77168215|gb|ABA63067.1|, |77167989|gb|ABA62954.1|,

|10436172|gb|AAG16846.1|, |10436115|gb|AAG16796.1|, |10436105|gb|AAG16787.1|,
 |3163933|emb|CAA06949.1|, |10436143|gb|AAG16821.1|, |10436162|gb|AAG16838.1|,
 |10436153|gb|AAG16830.1|, |10436134|gb|AAG16813.1|, |10436124|gb|AAG16804.1|,
 |1160089|emb|CAA92898.1|, |77167465|gb|ABA62692.1|, |77168079|gb|ABA62999.1|,
 |3218182|emb|CAB05095.1|, |3218180|emb|CAB05094.1|, |49472952|gb|AAT66294.1|,
 |1123016|gb|AAC54645.1|, |255649|gb|AAB23297.1|, |1123006|gb|AAC54636.1|,
 |3098586|gb|AAC68853.1|, |549427|sp|P35967|VPR_HV1Y2,
 |139385|sp|P05952|VPR_HV1A2, |328664|gb|AAB59878.1|, |3098576|gb|AAC68844.1|,
 |23392771|emb|CAD26723.1|, |23392769|emb|CAD26722.1|, |23392767|emb|CAD26721.1|,
 |78172816|gb|ABB29351.1|, |77168302|gb|ABA63110.1|, |77167723|gb|ABA62821.1|,
 |77167645|gb|ABA62782.1|, |77167521|gb|ABA62720.1|, |77168021|gb|ABA62970.1|,
 |77167983|gb|ABA62951.1|, |77167437|gb|ABA62678.1|, |77167987|gb|ABA62953.1|,
 |27446730|gb|AAL62478.1|, |77168237|gb|ABA63078.1|, |55275259|gb|AAV49471.1|,
 |59710499|gb|AAW88729.1|, |59710503|gb|AAW88731.1|, |59710501|gb|AAW88730.1|,
 |59710494|gb|AAW88727.1|, |59710490|gb|AAW88725.1|, |55275129|gb|AAV49354.1|,
 |55275119|gb|AAV49345.1|, |59710492|gb|AAW88726.1|, |59710488|gb|AAW88724.1|,
 |59710496|gb|AAW88728.1|, |55275139|gb|AAV49363.1|, |55275249|gb|AAV49462.1|,
 |55275239|gb|AAV49453.1|, |55275189|gb|AAV49408.1|, |55275199|gb|AAV49417.1|,
 |59710560|gb|AAW88757.1|, |59710564|gb|AAW88759.1|, |59710558|gb|AAW88756.1|,
 |59710556|gb|AAW88755.1|, |59710566|gb|AAW88760.1|, |59710562|gb|AAW88758.1|,
 |55275219|gb|AAV49435.1|, |59710548|gb|AAW88752.1|, |59710546|gb|AAW88751.1|,
 |59710538|gb|AAW88748.1|, |55275229|gb|AAV49444.1|, |59710554|gb|AAW88754.1|,
 |59710552|gb|AAW88753.1|, |59710542|gb|AAW88749.1|, |55275209|gb|AAV49426.1|,
 |59710544|gb|AAW88750.1|, |59710518|gb|AAW88738.1|, |59710516|gb|AAW88737.1|,
 |59710520|gb|AAW88739.1|, |55275179|gb|AAV49399.1|, |59710505|gb|AAW88732.1|,
 |55275159|gb|AAV49381.1|, |59710507|gb|AAW88733.1|, |59710528|gb|AAW88743.1|,
 |55275149|gb|AAV49372.1|, |59710509|gb|AAW88734.1|, |59710522|gb|AAW88740.1|,
 |59710513|gb|AAW88736.1|, |59710526|gb|AAW88742.1|, |59710524|gb|AAW88741.1|,
 |55275169|gb|AAV49390.1|, |59710536|gb|AAW88747.1|, |59710532|gb|AAW88745.1|,
 |59710530|gb|AAW88744.1|, |59710534|gb|AAW88746.1|, |57545352|gb|AAW51579.1|,
 |62548201|gb|AAX86752.1|, |62548181|gb|AAX86734.1|, |62548191|gb|AAX86743.1|,
 |77167709|gb|ABA62814.1|, |62548171|gb|AAX86725.1|, |62548161|gb|AAX86716.1|,
 |77168274|gb|ABA63096.1|, |77167799|gb|ABA62859.1|, |77167803|gb|ABA62861.1|,
 |77167729|gb|ABA62824.1|, |7416646|dbj|BAA93963.1|, |7416648|dbj|BAA93964.1|,
 |30027257|gb|AAP06260.1|, |7416678|dbj|BAA93979.1|, |7416676|dbj|BAA93978.1|,
 |7416682|dbj|BAA93981.1|, |7416680|dbj|BAA93980.1|, |1160087|emb|CAA92897.1|,
 |77167865|gb|ABA62892.1|, |1185542|gb|AAA87875.1|, |1477844|gb|AAB05505.1|,
 |77167493|gb|ABA62706.1|, |3327542|gb|AAC41064.1|, |3327524|gb|AAC41056.1|,
 |17046525|gb|AAL34565.1|, |17902151|gb|AAL47814.1|, |17864054|gb|AAL47047.1|,
 |2570332|gb|AAC32659.1|, |38491483|gb|AAR21895.1|, |62361772|gb|AAX81420.1|,
 |52421750|gb|AAU45386.1|, |57545374|gb|AAW51590.1|, |74315742|gb|ABA02468.1|,
 |62467702|gb|AAX83957.1|, |17902129|gb|AAL47796.1|, |17902107|gb|AAL47778.1|,
 |17902118|gb|AAL47787.1|, |17864034|gb|AAL47029.1|, |17902140|gb|AAL47805.1|,
 |17902096|gb|AAL47769.1|, |3403229|gb|AAC29062.1|, |31980439|dbj|BAC77758.1|,
 |31980429|dbj|BAC77749.1|, |4262340|gb|AAD14576.1|, |7321147|emb|CAB82229.1|,
 |74315752|gb|ABA02477.1|, |60218867|gb|AAX14845.1|, |74315782|gb|ABA02504.1|,
 |74315735|gb|ABA02462.1|, |17864044|gb|AAL47038.1|, |62467712|gb|AAX83966.1|,
 |25166949|gb|AAN73726.1|AF48, |22596351|gb|AAN03130.1|AF45,

|15281443|gb|AAK94231.1|AF36, |39777387|gb|AAR30968.1|, |39777377|gb|AAR30959.1|,
 |82284358|sp|Q69GS5|Q69GS5_9, |61102671|gb|AAX37799.1|, |3808282|gb|AAC69308.1|,
 |22596547|gb|AAN03304.1|AF45, |25166869|gb|AAN73654.1|AF48,
 |39777437|gb|AAR31013.1|, |33331478|gb|AAQ10922.1|, |33331458|gb|AAQ10904.1|,
 |33331468|gb|AAQ10913.1|, |61102686|gb|AAX37812.1|, |37682444|gb|AAQ98140.1|,
 |25166647|gb|AAN73455.1|AF48, |22596517|gb|AAN03277.1|AF45,
 |22596537|gb|AAN03295.1|AF45, |29409329|gb|AAM67405.1|,
 |71794578|emb|CAI28820.1|, |29409317|gb|AAM67395.1|, |29409298|gb|AAM67378.1|,
 |71794607|emb|CAI28847.1|, |71794598|emb|CAI28838.1|, |29409310|gb|AAM67389.1|,
 |71794588|emb|CAI28829.1|, |25166889|gb|AAN73672.1|AF48,
 |22596507|gb|AAN03268.1|AF45, |14530266|gb|AAK65996.1|AF31,
 |22596235|gb|AAN03027.1|AF45, |5668926|gb|AAD46078.1|AF076,
 |62467719|gb|AAX83972.1|, |5733956|gb|AAD49793.1|AF107,
 |5059053|gb|AAD38892.1|AF119, |3947929|gb|AAC82619.1|,
 |5059044|gb|AAD38884.1|AF119, |1732488|gb|AAB38835.1|,
 |6690777|gb|AAF24336.1|AF197, |37683030|gb|AAQ98587.1|, |37683020|gb|AAQ98578.1|,
 |25166739|gb|AAN73537.1|AF48, |77167783|gb|ABA62851.1|, |49472943|gb|AAT66286.1|,
 |77167541|gb|ABA62730.1|, |77167311|gb|ABA62615.1|, |1185516|gb|AAA87862.1|,
 |2801507|gb|AAC82595.1|, |62291052|sp|P69729|VPR_HV1P,
 |62291051|sp|P69728|VPR_HV11, |62291050|sp|P69727|VPR_HV1H,
 |62291049|sp|P69726|VPR_HV1H, |62291048|sp|P69725|VPR_HV1B,
 |328557|gb|AAB59869.1|, |326390|gb|AAA44203.1|, |328455|gb|AAA44998.1|,
 |139383|sp|P05927|VPR_HV1B5, |327463|gb|AAA44655.1|, |32261273|gb|AAP74173.1|,
 |37677817|gb|AAQ97491.1|, |37677807|gb|AAQ97482.1|, |32261269|gb|AAP74170.1|,
 |5001959|gb|AAD37230.1|, |5001949|gb|AAD37225.1|, |5001939|gb|AAD37220.1|,
 |5001929|gb|AAD37215.1|, |5001919|gb|AAD37210.1|, |77167845|gb|ABA62882.1|,
 |77167653|gb|ABA62786.1|, |59710511|gb|AAW88735.1|, |77167355|gb|ABA62637.1|,
 |77167757|gb|ABA62838.1|, |3378125|gb|AAC28448.1|, |77167605|gb|ABA62762.1|,
 |57901082|gb|AAW57849.1|, |77168137|gb|ABA63028.1|, |57869582|gb|AAW57631.1|,
 |74273414|gb|ABA01401.1|, |74273394|gb|ABA01383.1|, |74273404|gb|ABA01392.1|,
 |77167851|gb|ABA62885.1|, |77167751|gb|ABA62835.1|, |4324913|gb|AAD17177.1|,
 |4324907|gb|AAD17171.1|, |4324919|gb|AAD17183.1|, |17046685|gb|AAL34709.1|,
 |22596412|gb|AAN03184.1|AF45, |25166909|gb|AAN73690.1|AF48,
 |25166999|gb|AAN73771.1|AF48, |38491939|gb|AAR22302.1|, |11177449|gb|AAG32286.1|,
 |11177445|gb|AAG32284.1|, |11177440|gb|AAG32282.1|, |11177438|gb|AAG32281.1|,
 |11177436|gb|AAG32280.1|, |11177434|gb|AAG32279.1|, |11177432|gb|AAG32278.1|,
 |11177430|gb|AAG32277.1|, |11177443|gb|AAG32283.1|, |11177447|gb|AAG32285.1|,
 |11177428|gb|AAG32276.1|, |11177451|gb|AAG32287.1|, |77168346|gb|ABA63132.1|,
 |22596225|gb|AAN03018.1|AF45, |77167597|gb|ABA62758.1|, |2393861|gb|AAB70158.1|,
 |2393855|gb|AAB70155.1|, |40021886|gb|AAR37196.1|, |40021716|gb|AAR37077.1|,
 |40021876|gb|AAR37189.1|, |40021866|gb|AAR37182.1|, |40021856|gb|AAR37175.1|,
 |40021836|gb|AAR37161.1|, |40021826|gb|AAR37154.1|, |40021806|gb|AAR37140.1|,
 |40021796|gb|AAR37133.1|, |40021776|gb|AAR37119.1|, |40021766|gb|AAR37112.1|,
 |40021736|gb|AAR37091.1|, |40021726|gb|AAR37084.1|, |40021706|gb|AAR37070.1|,
 |40021846|gb|AAR37168.1|, |40021746|gb|AAR37098.1|, |40021696|gb|AAR37063.1|,
 |40021756|gb|AAR37105.1|, |40021816|gb|AAR37147.1|, |40021786|gb|AAR37126.1|,
 |26518640|gb|AAN83914.1|, |77168358|gb|ABA63138.1|, |77167889|gb|ABA62904.1|,
 |77167659|gb|ABA62789.1|, |77168129|gb|ABA63024.1|, |77167763|gb|ABA62841.1|,

|77167677|gb|ABA62798.1|, |4324801|gb|AAD17065.1|, |4324785|gb|AAD17049.1|,
 |4324794|gb|AAD17058.1|, |4324776|gb|AAD17040.1|, |4324768|gb|AAD17032.1|,
 |77168400|gb|ABA63159.1|, |77167701|gb|ABA62810.1|, |77167617|gb|ABA62768.1|,
 |77167379|gb|ABA62649.1|, |7416654|dbj|BAA93967.1|, |7416652|dbj|BAA93966.1|,
 |25166677|gb|AAN73482.1|AF48, |37677837|gb|AAQ97509.1|, |7416714|dbj|BAA93997.1|,
 |7416710|dbj|BAA93995.1|, |7416712|dbj|BAA93996.1|, |62461846|gb|AAX83062.1|,
 |67552989|gb|AAY68587.1|, |16118284|gb|AAL12661.1|, |77167833|gb|ABA62876.1|,
 |77168145|gb|ABA63032.1|, |77167927|gb|ABA62923.1|, |71725965|gb|AAZ39101.1|,
 |77167433|gb|ABA62676.1|, |77167759|gb|ABA62839.1|, |77167753|gb|ABA62836.1|,
 |7416706|dbj|BAA93993.1|, |7416704|dbj|BAA93992.1|, |818218|gb|AAB47930.1|,
 |77168270|gb|ABA63094.1|, |45361092|gb|AAS59317.1|, |77168374|gb|ABA63146.1|,
 |25166749|gb|AAN73546.1|AF48, |16118387|gb|AAL12751.1|, |77167537|gb|ABA62728.1|,
 |15788300|gb|AAL07747.1|, |77167991|gb|ABA62955.1|, |57545336|gb|AAW51571.1|,
 |57545332|gb|AAW51569.1|, |77168352|gb|ABA63135.1|, |77168115|gb|ABA63017.1|,
 |57545328|gb|AAW51567.1|, |1185536|gb|AAA87872.1|, |1477842|gb|AAB05504.1|,
 |1477838|gb|AAB05502.1|, |1477834|gb|AAB05500.1|, |1477840|gb|AAB05503.1|,
 |1477832|gb|AAB05499.1|, |1477822|gb|AAB05494.1|, |1477828|gb|AAB05497.1|,
 |1185534|gb|AAA87871.1|, |82295316|sp|Q89494|Q89494_9, |1477826|gb|AAB05496.1|,
 |1477824|gb|AAB05495.1|, |1477906|gb|AAB05536.1|, |1477904|gb|AAB05535.1|,
 |1477894|gb|AAB05530.1|, |1477908|gb|AAB05537.1|, |1477900|gb|AAB05533.1|,
 |1477898|gb|AAB05532.1|, |1477902|gb|AAB05534.1|, |1477896|gb|AAB05531.1|,
 |1477892|gb|AAB05529.1|, |24753956|gb|AAN64083.1|, |1185532|gb|AAA87870.1|,
 |1477866|gb|AAB05516.1|, |1477868|gb|AAB05517.1|, |1477816|gb|AAB05491.1|,
 |1477814|gb|AAB05490.1|, |1477830|gb|AAB05498.1|, |1477864|gb|AAB05515.1|,
 |1477862|gb|AAB05514.1|, |1477818|gb|AAB05492.1|, |1477836|gb|AAB05501.1|,
 |1477820|gb|AAB05493.1|, |25166959|gb|AAN73735.1|AF48,
 |82286714|sp|Q6SZS8|Q6SZS8_9, |38570410|gb|AAR24643.1|, |38570398|gb|AAR24637.1|,
 |1477812|gb|AAB05489.1|, |25167079|gb|AAN73843.1|AF48, |77167955|gb|ABA62937.1|,
 |61102652|gb|AAX37783.1|, |61102644|gb|AAX37776.1|, |61102580|gb|AAX37720.1|,
 |7021461|gb|AAF35360.1|, |83026798|gb|ABB96435.1|, |1477890|gb|AAB05528.1|,
 |1477888|gb|AAB05527.1|, |2393851|gb|AAB70153.1|, |1477886|gb|AAB05526.1|,
 |1477878|gb|AAB05522.1|, |13540185|gb|AAK29351.1|, |13569231|gb|AAK30975.1|AF28,
 |67633319|gb|AAY78571.1|, |66473533|gb|AAY46413.1|, |67633313|gb|AAY78566.1|,
 |54124752|gb|AAV30093.1|, |77168221|gb|ABA63070.1|, |77168199|gb|ABA63059.1|,
 |37682464|gb|AAQ98158.1|, |13540175|gb|AAK29342.1|, |34330005|gb|AAO65891.1|,
 |26245452|gb|AAN77382.1|, |59003551|gb|AAW83558.1|, |25167069|gb|AAN73834.1|AF48,
 |17046555|gb|AAL34592.1|, |67553064|gb|AAY68654.1|, |1185520|gb|AAA87864.1|,
 |57869638|gb|AAW57681.1|, |77168364|gb|ABA63141.1|, |17046785|gb|AAL34799.1|,
 |15281463|gb|AAK94249.1|AF36, |77168398|gb|ABA63158.1|, |38892719|gb|AAR27716.1|,
 |73913924|gb|AAZ91892.1|, |4324891|gb|AAD17155.1|, |4324882|gb|AAD17146.1|,
 |4324900|gb|AAD17164.1|, |67553054|gb|AAY68645.1|, |4324759|gb|AAD17023.1|,
 |4324750|gb|AAD17014.1|, |4324741|gb|AAD17005.1|, |58220953|gb|AAW68136.1|,
 |68522067|gb|AAY98661.1|, |58221030|gb|AAW68205.1|, |82571312|gb|ABB84079.1|,
 |38892739|gb|AAR27734.1|, |68522117|gb|AAY98706.1|, |68522077|gb|AAY98670.1|,
 |37682413|gb|AAQ98112.1|, |17046815|gb|AAL34826.1|, |82571272|gb|ABB84043.1|,
 |73913836|gb|AAZ91813.1|, |59003670|gb|AAW83665.1|, |55139323|gb|AAV41339.1|,
 |11761292|dbj|BAB19230.1|, |73913866|gb|AAZ91840.1|, |38892648|gb|AAR27653.1|,
 |12957271|gb|AAK09117.1|AF32, |12957265|gb|AAK09112.1|AF32,

|82301933|sp|Q98VM8|Q98VM8_9,
 |73913826|gb|AAZ91804.1|, |59003640|gb|AAW83638.1|, |16751252|gb|AAL05328.1|,
 |16751232|gb|AAL05310.1|, |17046695|gb|AAL34718.1|, |16751242|gb|AAL05319.1|,
 |38892602|gb|AAR27612.1|, |68522156|gb|AAZ91795.1|, |73913816|gb|AAZ91795.1|,
 |59003561|gb|AAW83567.1|, |26245472|gb|AAL34745.1|, |17046725|gb|AAL34745.1|,
 |46486649|gb|AAS98754.1|, |15281492|gb|AAN77400.1|, |17046535|gb|AAL34574.1|,
 |58221020|gb|AAW68196.1|, |26245462|gb|AAL34574.1|, |58220963|gb|AAW68145.1|,
 |58220973|gb|AAW68154.1|, |55139352|gb|AAV41365.1|, |67553008|gb|AAW68145.1|,
 |37682513|gb|AAQ98202.1|, |77167647|gb|AAV41365.1|, |17046645|gb|AAW68145.1|,
 |67553074|gb|AAQ98202.1|, |82571409|gb|ABA62783.1|, |57869611|gb|AAW57657.1|,
 |17046891|gb|AAL34894.1|, |24181511|gb|ABB84166.1|, |26000267|gb|AAW57657.1|,
 |38892776|gb|AAR27767.1|, |63098403|gb|AAB84166.1|, |24181501|gb|AAN75301.1|,
 |56131603|gb|AAV80383.1|, |68521977|gb|AAN47130.1|, |24181501|gb|AAN47121.1|,
 |17046565|gb|AAL34601.1|, |4324849|gb|AAY32444.1|, |17046575|gb|AAL34610.1|,
 |4324816|gb|AAD17080.1|, |68521977|gb|AAY98580.1|, |37682424|gb|AAQ98122.1|,
 |11761269|dbj|BAB19211.1|, |4324810|gb|AAD17113.1|, |58221002|gb|AAW68180.1|,
 |12957301|gb|AAK09142.1|AF32, |4324810|gb|AAD17074.1|, |11761299|dbj|BAB19236.1|,
 |23986254|gb|AAL12203.1|, |6016891|dbj|BAA85228.1|, |12957307|gb|AAK09147.1|AF32,
 |23986224|gb|AAL12185.1|, |23986210|gb|AAL12176.1|, |3252940|gb|AAD12090.1|,
 |3252970|gb|AAD12117.1|, |11761283|dbj|BAB19223.1|, |23986238|gb|AAL12194.1|,
 |63098355|gb|AAY32401.1|, |57869620|gb|BAB19223.1|, |3252950|gb|AAD12099.1|,
 |12957283|gb|AAK09127.1|AF32, |3252922|gb|AAD12074.1|, |3252922|gb|AAD12074.1|,
 |11761276|dbj|BAB19217.1|, |17046901|gb|AAL34903.1|, |12957295|gb|AAK09137.1|AF32,
 |11761574|gb|AAG38905.1|, |13569291|gb|AAL34903.1|, |13569291|gb|AAK31029.1|AF28,
 |62956379|gb|AAY23513.1|, |31559673|dbj|BAC77496.1|, |11761584|gb|AAG38914.1|,
 |27227844|dbj|BAC45018.1|, |27227854|dbj|BAC45027.1|, |62956389|gb|AAY23522.1|,
 |17046755|gb|AAL34772.1|, |82571223|gb|BAC45027.1|, |62956379|gb|AAY23513.1|,
 |51572107|gb|AAU06756.1|, |82571223|gb|ABB83999.1|, |67553084|gb|AAY23513.1|,
 |57338558|gb|AAW49353.1|, |3252930|gb|AAB83999.1|, |67553084|gb|AAY23513.1|,
 |59003660|gb|AAW83656.1|, |13569251|gb|AAB83999.1|, |67553084|gb|AAY23513.1|,
 |15281423|gb|AAK94213.1|AF36, |67553084|gb|AAY23513.1|, |67553084|gb|AAY23513.1|,
 |12957337|gb|AAK09172.1|AF32, |67553084|gb|AAY23513.1|, |67553084|gb|AAY23513.1|,
 |55139282|gb|AAV41303.1|, |73913757|gb|AAL34772.1|, |12957331|gb|AAK09167.1|AF32,
 |58220873|gb|AAW68064.1|, |17046861|gb|AAL34867.1|, |59003630|gb|AAW83629.1|,
 |38892692|gb|AAR27692.1|, |68521967|gb|AAL34867.1|, |59003521|gb|AAW83531.1|,
 |55139274|gb|AAV41296.1|, |38892673|gb|AAY98571.1|, |55139302|gb|AAV41321.1|,
 |12957367|gb|AAK09197.1|AF32, |3252960|gb|AAY98571.1|, |12957373|gb|AAK09202.1|AF32,
 |4324873|gb|AAD17137.1|, |3252960|gb|AAD12108.1|, |62956398|gb|AAY23530.1|,
 |17046841|gb|AAL34849.1|, |4324864|gb|AAD17128.1|, |68522057|gb|AAY98652.1|,
 |58220863|gb|AAW68055.1|, |68522147|gb|AAY98733.1|, |58220883|gb|AAW68073.1|,
 |63098423|gb|AAY32462.1|, |17046911|gb|AAL34912.1|, |13569321|gb|AAK31056.1|AF28,
 |58220992|gb|AAW68171.1|, |82571352|gb|ABB84115.1|, |73913846|gb|AAZ91822.1|,
 |82571214|gb|ABB83991.1|, |37682602|gb|AAQ98282.1|, |37682553|gb|AAQ98238.1|,
 |38892612|gb|AAR27621.1|, |38892629|gb|AAR27636.1|, |63098316|gb|AAY32366.1|,
 |17046705|gb|AAL34727.1|, |38892657|gb|AAR27661.1|, |68522027|gb|AAY98625.1|,
 |63098393|gb|AAY32435.1|, |73913968|gb|AAZ91931.1|, |63098288|gb|AAY32341.1|,
 |38892701|gb|AAR27700.1|, |17046625|gb|AAL34655.1|, |82571342|gb|ABB84106.1|,
 |73913895|gb|AAZ91866.1|, |59003650|gb|AAW83647.1|, |67553034|gb|AAY68627.1|,
 |63098298|gb|AAY32350.1|, |16751262|gb|AAL05337.1|,

|82571302|gb|ABB84070.1|, |55139332|gb|AAV41347.1|, |68521987|gb|AAV98589.1|,
 |59003511|gb|AAW83522.1|, |63098336|gb|AAV32384.1|, |37909405|gb|AAO65566.1|,
 |59003621|gb|AAW83621.1|, |73913987|gb|AAZ91948.1|, |73913885|gb|AAZ91857.1|,
 |38892785|gb|AAR27775.1|, |59003611|gb|AAW83612.1|, |59003571|gb|AAW83576.1|,
 |59003591|gb|AAW83594.1|, |17046765|gb|AAL34781.1|, |67552999|gb|AAV68596.1|,
 |68521937|gb|AAV98544.1|, |57338544|gb|AAW49341.1|, |46486630|gb|AAS98737.1|,
 |63098365|gb|AAV32410.1|, |55139255|gb|AAV41279.1|, |82571204|gb|ABB83982.1|,
 |82571194|gb|ABB83973.1|, |82571372|gb|ABB84133.1|, |58220913|gb|AAW68100.1|,
 |63098308|gb|AAV32359.1|, |73913856|gb|AAZ91831.1|, |82571362|gb|ABB84124.1|,
 |68521957|gb|AAV98562.1|, |68521997|gb|AAV98598.1|, |13569221|gb|AAK30966.1|AF28,
 |73913787|gb|AAZ91769.1|, |82571243|gb|ABB84017.1|, |57869628|gb|AAW57672.1|,
 |59003581|gb|AAW83585.1|, |73913905|gb|AAZ91875.1|, |73913777|gb|AAZ91760.1|,
 |68522017|gb|AAV98616.1|, |67553017|gb|AAV68612.1|, |38892639|gb|AAR27645.1|,
 |73913934|gb|AAZ91901.1|, |55139311|gb|AAV41329.1|, |73913797|gb|AAZ91778.1|,
 |58220903|gb|AAW68091.1|, |17046871|gb|AAL34876.1|, |67553114|gb|AAV68699.1|,
 |17046605|gb|AAL34637.1|, |55139343|gb|AAV41357.1|, |12957349|gb|AAK09182.1|AF32,
 |12957343|gb|AAK09177.1|AF32, |18643013|gb|AAL74048.1|, |67553104|gb|AAV68690.1|,
 |67552979|gb|AAV68578.1|, |82571322|gb|ABB84088.1|, |68522087|gb|AAV98679.1|,
 |58220933|gb|AAW68118.1|, |67553044|gb|AAV68636.1|, |73913807|gb|AAZ91787.1|,
 |38892665|gb|AAR27668.1|, |38892683|gb|AAR27684.1|, |17046825|gb|AAL34835.1|,
 |82571332|gb|ABB84097.1|, |68521947|gb|AAV98553.1|, |17046615|gb|AAL34646.1|,
 |59003541|gb|AAW83549.1|, |32344849|gb|AAM82304.1|, |17046595|gb|AAL34628.1|,
 |58220943|gb|AAW68127.1|, |37935584|gb|AAO65557.1|, |38892729|gb|AAR27725.1|,
 |12957325|gb|AAK09162.1|AF32, |22596255|gb|AAN03045.1|AF45,
 |68522097|gb|AAV98688.1|, |78172827|gb|ABB29361.1|, |58221040|gb|AAW68214.1|,
 |58220923|gb|AAW68109.1|, |82571233|gb|ABB84008.1|, |12957259|gb|AAK09107.1|AF32,
 |12957247|gb|AAK09097.1|AF32, |26000257|gb|AAN75292.1|, |63098413|gb|AAV32453.1|,
 |17046795|gb|AAL34808.1|, |13172885|gb|AAK14233.1|, |11321011|gb|AAG34004.1|,
 |82303319|sp|Q9DQ13|Q9DQ13_9, |11321021|gb|AAG34013.1|,
 |11321031|gb|AAG34022.1|, |11321001|gb|AAG33995.1|, |32344839|gb|AAM82295.1|,
 |38892622|gb|AAR27630.1|, |37682563|gb|AAQ98247.1|, |12957277|gb|AAK09122.1|AF32,
 |68522007|gb|AAV98607.1|, |82571399|gb|ABB84157.1|, |82571253|gb|ABB84026.1|,
 |38892757|gb|AAR27750.1|, |15281502|gb|AAK94284.1|AF36, |63098374|gb|AAV32418.1|,
 |63098326|gb|AAV32375.1|, |51572097|gb|AAU06747.1|, |82571282|gb|ABB84052.1|,
 |73913876|gb|AAZ91849.1|, |1353864|gb|AAB36503.1|, |17046585|gb|AAL34619.1|,
 |32261488|gb|AAP76550.1|, |17046665|gb|AAL34691.1|, |68522127|gb|AAV98715.1|,
 |57338551|gb|AAW49347.1|, |46486657|gb|AAS98761.1|, |82571382|gb|ABB84142.1|,
 |37682484|gb|AAQ98176.1|, |11761286|dbj|BAB19225.1|, |32261468|gb|AAP76532.1|,
 |37682503|gb|AAQ98193.1|, |12957313|gb|AAK09152.1|AF32,
 |12957289|gb|AAK09132.1|AF32, |7321137|emb|CAB82220.1|, |17046921|gb|AAL34921.1|,
 |32261459|gb|AAP76524.1|, |68522037|gb|AAV98634.1|, |13569261|gb|AAK31002.1|AF28,
 |59003601|gb|AAW83603.1|, |56193060|gb|AAV84139.1|, |57901091|gb|AAW57857.1|,
 |56193007|gb|AAV84112.1|, |55139293|gb|AAV41313.1|, |32261498|gb|AAP76559.1|,
 |22596311|gb|AAN03094.1|AF45, |45738223|gb|AAS75881.1|, |45738213|gb|AAS75872.1|,
 |17046851|gb|AAL34858.1|, |82571292|gb|ABB84061.1|, |59003531|gb|AAW83540.1|,
 |68522047|gb|AAV98643.1|, |15281473|gb|AAK94258.1|AF36, |63098433|gb|AAV32471.1|,
 |82571390|gb|ABB84149.1|, |13569331|gb|AAK31065.1|AF28, |57338566|gb|AAW49360.1|,
 |46486639|gb|AAS98745.1|, |58220982|gb|AAW68162.1|, |73913767|gb|AAZ91751.1|,

|13569301|gb|AAK31038.1|AF28, |13569241|gb|AAK30984.1|AF28,
 |30269369|gb|AAP29647.1|, |13569281|gb|AAK31020.1|AF28, |45361078|gb|AAS59308.1|,
 |31559645|dbj|BAC77471.1|, |17046881|gb|AAL34885.1|, |17046715|gb|AAL34736.1|,
 |56193078|gb|AAV84148.1|, |31559627|dbj|BAC77455.1|, |61102604|gb|AAX37741.1|,
 |61102596|gb|AAX37734.1|, |61102588|gb|AAX37727.1|, |38892766|gb|AAR27758.1|,
 |55139264|gb|AAV41287.1|, |22596527|gb|AAN03286.1|AF45, |56193043|gb|AAV84130.1|,
 |17046735|gb|AAL34754.1|, |37682592|gb|AAQ98273.1|, |17046655|gb|AAL34682.1|,
 |26000277|gb|AAN75310.1|, |12957319|gb|AAK09157.1|AF32, |73913978|gb|AAZ91940.1|,
 |14530230|gb|AAK65964.1|AF28, |17981622|gb|AAL51092.1|,
 |12957361|gb|AAK09192.1|AF32, |12957355|gb|AAK09187.1|AF32,
 |12957253|gb|AAK09102.1|AF32, |67553094|gb|AAV68681.1|, |77167543|gb|ABA62731.1|,
 |77168161|gb|ABA63040.1|, |77167837|gb|ABA62878.1|, |77167563|gb|ABA62741.1|,
 |68522137|gb|AAV98724.1|, |56193094|gb|AAV84157.1|, |63081180|gb|AAV30342.1|,
 |48476376|gb|AAT44410.1|, |1477916|gb|AAB05541.1|, |1477910|gb|AAB05538.1|,
 |5668957|gb|AAD46101.1|AF076, |1477914|gb|AAB05540.1|, |1477912|gb|AAB05539.1|,
 |1477884|gb|AAB05525.1|, |1477882|gb|AAB05524.1|, |2393857|gb|AAB70156.1|,
 |82278725|sp|O36205|O36205_9, |2393865|gb|AAB70160.1|, |2393863|gb|AAB70159.1|,
 |82279702|sp|O42054|O42054_9, |24753964|gb|AAN64089.1|, |2393867|gb|AAB70161.1|,
 |1477798|gb|AAB05482.1|, |1477794|gb|AAB05480.1|, |1477876|gb|AAB05521.1|,
 |1477870|gb|AAB05518.1|, |1477874|gb|AAB05520.1|, |1477872|gb|AAB05519.1|,
 |2393859|gb|AAB70157.1|, |56193026|gb|AAV84121.1|, |77167479|gb|ABA62699.1|,
 |77168047|gb|ABA62983.1|, |77168250|gb|ABA63084.1|, |77168175|gb|ABA63047.1|,
 |57545356|gb|AAW51581.1|, |77167375|gb|ABA62647.1|, |77167373|gb|ABA62646.1|,
 |25166809|gb|AAN73600.1|AF48, |2194190|gb|AAB61128.1|, |77167581|gb|ABA62750.1|,
 |66864704|gb|AAV57430.1|, |66864694|gb|AAV57421.1|, |77168141|gb|ABA63030.1|,
 |4324834|gb|AAD17098.1|, |4324825|gb|AAD17089.1|, |4324840|gb|AAD17104.1|,
 |17046635|gb|AAL34664.1|, |17046775|gb|AAL34790.1|, |77168167|gb|ABA63043.1|,
 |77167327|gb|ABA62623.1|, |77167523|gb|ABA62721.1|, |37682454|gb|AAQ98149.1|,
 |77168282|gb|ABA63100.1|, |77167501|gb|ABA62710.1|, |77167871|gb|ABA62895.1|,
 |77167549|gb|ABA62734.1|, |77167527|gb|ABA62723.1|, |77167975|gb|ABA62947.1|,
 |77167631|gb|ABA62775.1|, |17046805|gb|AAL34817.1|, |17046545|gb|AAL34583.1|,
 |77168296|gb|ABA63107.1|, |25167039|gb|AAN73807.1|AF48, |61102678|gb|AAX37805.1|,
 |25167029|gb|AAN73798.1|AF48, |55735970|gb|AAV59701.1|, |45361068|gb|AAS59299.1|,
 |57901061|gb|AAW57830.1|, |15788250|gb|AAL07702.1|, |25166657|gb|AAN73464.1|AF48,
 |25166667|gb|AAN73473.1|AF48, |22596577|gb|AAN03331.1|AF45,
 |77168384|gb|ABA63151.1|, |77168187|gb|ABA63053.1|, |77167339|gb|ABA62629.1|,
 |61102636|gb|AAX37769.1|, |61102628|gb|AAX37762.1|, |57869657|gb|AAW57698.1|,
 |57869591|gb|AAW57639.1|, |25167059|gb|AAN73825.1|AF48,
 |25166819|gb|AAN73609.1|AF48, |82307224|sp|Q9WA46|Q9WA46_9,
 |4539050|emb|CAB39740.1|, |4539037|emb|CAB39919.1|, |25166697|gb|AAN73500.1|AF48,
 |3287165|emb|CAA75986.1|0, |37935902|gb|AAO47148.1|0, |3287129|emb|CAA75962.1|0,
 |3287124|emb|CAA75958.1|0, |3287160|emb|CAA75982.1|0, |3287119|emb|CAA75954.1|0,
 |14041639|emb|CAC38423.1|0, |14041629|emb|CAC38432.1|0,
 |3287083|emb|CAA75938.1|0, |37935843|gb|AAO47096.1|0, |463061|gb|AAA99881.1|,
 |13172678|gb|AAK14191.1|0, |13172696|gb|AAK14206.1|0, |13172690|gb|AAK14201.1|0,
 |3287114|emb|CAA75950.1|, |51599142|gb|AAU08226.1|0, |37935972|gb|AAO47210.1|0,
 |45644392|gb|AAS72946.1|0, |37935913|gb|AAO47157.1|0, |37935943|gb|AAO47184.1|0,
 |13172702|gb|AAK14211.1|0, |3287149|emb|CAA75978.1|0, |37935893|gb|AAO47140.1|0,

|3287144|emb|CAA75974.1|0, |37935873|gb|AAO47123.1|0, |13172708|gb|AAK14216.1|0,
 |3287104|emb|CAA75942.1|0, |3287109|emb|CAA75946.1|0, |3287139|emb|CAA75970.1|0,
 |37935953|gb|AAO47193.1|0, |37935923|gb|AAO47166.1|0, |469243|gb|AAA44862.1|0,
 |37935863|gb|AAO47114.1|0, |3287134|emb|CAA75966.1|0, |16755647|gb|AAL28059.1|0,
 |13172714|gb|AAK14221.1|, |37935982|gb|AAO47219.1|0, |3287078|emb|CAA75934.1|0,
 |37935962|gb|AAO47201.1|0, |37935882|gb|AAO47131.1|0, |37935933|gb|AAO47175.1|0,
 |13172684|gb|AAK14196.1|0, |37935853|gb|AAO47105.1|0, |77168332|gb|ABA63125.1|,
 |77167725|gb|ABA62822.1|, |77168211|gb|ABA63065.1|, |51572126|gb|AAU06773.1|,
 |15281453|gb|AAK94240.1|AF36, |77167821|gb|ABA62870.1|,
 |5668884|gb|AAD46046.1|AF075, |38679152|gb|AAR26405.1|,
 |22596321|gb|AAN03103.1|AF45, |1160071|emb|CAA92889.1|, |77167897|gb|ABA62908.1|,
 |25166969|gb|AAN73744.1|AF48, |37682474|gb|AAQ98167.1|,
 |25166989|gb|AAN73762.1|AF48, |1160099|emb|CAA92903.1|, |39777397|gb|AAR30977.1|,
 |38326773|gb|AAR17515.1|, |25166632|gb|AAN73441.1|AF48,
 |25167019|gb|AAN73789.1|AF48, |25167009|gb|AAN73780.1|AF48,
 |25166829|gb|AAN73618.1|AF48, |25166779|gb|AAN73573.1|AF48,
 |13569311|gb|AAK31047.1|AF28, |71726035|gb|AAZ39164.1|, |32261478|gb|AAP76541.1|,
 |38892747|gb|AAR27741.1|, |63098346|gb|AAY32393.1|, |71725955|gb|AAZ39092.1|,
 |77167891|gb|ABA62905.1|, |78172834|gb|ABB29367.1|, |1160043|emb|CAA92875.1|,
 |29119339|gb|AAO63253.1|, |77168382|gb|ABA63150.1|, |77167873|gb|ABA62896.1|,
 |77168386|gb|ABA63152.1|, |77168147|gb|ABA63033.1|, |3327803|gb|AAC41191.1|,
 |3327801|gb|AAC41190.1|, |3327799|gb|AAC41189.1|, |3327797|gb|AAC41188.1|,
 |3327795|gb|AAC41187.1|, |3327793|gb|AAC41186.1|, |3327791|gb|AAC41185.1|,
 |3327787|gb|AAC41183.1|, |3327783|gb|AAC41181.1|, |3327779|gb|AAC41179.1|,
 |3327777|gb|AAC41178.1|, |3327775|gb|AAC41177.1|, |3327789|gb|AAC41184.1|,
 |3327781|gb|AAC41180.1|, |3327785|gb|AAC41182.1|, |3327773|gb|AAC41176.1|,
 |3327560|gb|AAC41072.1|, |3327558|gb|AAC41071.1|, |3327564|gb|AAC41074.1|,
 |3327570|gb|AAC41077.1|, |3327555|gb|AAC41070.1|, |3327552|gb|AAC41069.1|,
 |3327546|gb|AAC41066.1|, |3327544|gb|AAC41065.1|, |3327548|gb|AAC41067.1|,
 |3327568|gb|AAC41076.1|, |3327550|gb|AAC41068.1|, |3327566|gb|AAC41075.1|,
 |3327562|gb|AAC41073.1|, |25166709|gb|AAN73510.1|AF48, |38679161|gb|AAR26413.1|,
 |13540165|gb|AAK29333.1|, |5001987|gb|AAD37244.1|, |5001977|gb|AAD37239.1|,
 |5001967|gb|AAD37234.1|, |5001957|gb|AAD37229.1|, |5001985|gb|AAD37243.1|,
 |5001975|gb|AAD37238.1|, |5001965|gb|AAD37233.1|, |5001955|gb|AAD37228.1|,
 |5001947|gb|AAD37224.1|, |5001945|gb|AAD37223.1|, |5001937|gb|AAD37219.1|,
 |5001935|gb|AAD37218.1|, |5001927|gb|AAD37214.1|, |5001925|gb|AAD37213.1|,
 |5001917|gb|AAD37209.1|, |5001915|gb|AAD37208.1|, |82307158|sp|Q9W8N4|Q9W8N4_9,
 |5001973|gb|AAD37237.1|, |5001963|gb|AAD37232.1|, |5001983|gb|AAD37242.1|,
 |25166879|gb|AAN73663.1|AF48, |1772628|gb|AAC32296.1|, |57545368|gb|AAW51587.1|,
 |77167953|gb|ABA62936.1|, |77167333|gb|ABA62626.1|, |33438571|gb|AAA45066.2|,
 |73919591|sp|P19555|VPR_HV1S, |1171168|gb|AAA86249.1|, |38570384|gb|AAR24630.1|,
 |77167545|gb|ABA62732.1|, |77167393|gb|ABA62656.1|, |57545316|gb|AAW51561.1|,
 |77167323|gb|ABA62621.1|, |11177344|gb|AAG32241.1|, |11177336|gb|AAG32237.1|,
 |11177334|gb|AAG32236.1|, |11177332|gb|AAG32235.1|, |11177330|gb|AAG32234.1|,
 |11177328|gb|AAG32233.1|, |11177326|gb|AAG32232.1|, |11177324|gb|AAG32231.1|,
 |11177320|gb|AAG32229.1|, |11177317|gb|AAG32228.1|, |11177340|gb|AAG32239.1|,
 |11177322|gb|AAG32230.1|, |11177342|gb|AAG32240.1|, |11177338|gb|AAG32238.1|,
 |27446728|gb|AAL62477.1|, |24754007|gb|AAN64125.1|, |77168256|gb|ABA63087.1|,

|45360161|gb|AAS59197.1|, |77168286|gb|ABA63102.1|, |77167883|gb|ABA62901.1|,
 |77167609|gb|ABA62764.1|, |77167743|gb|ABA62831.1|, |77167911|gb|ABA62915.1|,
 |77167775|gb|ABA62847.1|, |77167713|gb|ABA62816.1|, |77167505|gb|ABA62712.1|,
 |71726005|gb|AAZ39137.1|, |77167819|gb|ABA62869.1|, |71725985|gb|AAZ39119.1|,
 |71725975|gb|AAZ39110.1|, |77168183|gb|ABA63051.1|, |71726045|gb|AAZ39173.1|,
 |77167629|gb|ABA62774.1|, |1185548|gb|AAA87878.1|, |2393816|gb|AAB70135.1|,
 |2393812|gb|AAB70133.1|, |2393808|gb|AAB70131.1|, |82279708|sp|O42077|O42077_9,
 |2393810|gb|AAB70132.1|, |2393806|gb|AAB70130.1|, |2393802|gb|AAB70128.1|,
 |2393798|gb|AAB70126.1|, |2393794|gb|AAB70124.1|, |2393792|gb|AAB70123.1|,
 |82279700|sp|O42035|O42035_9, |2393800|gb|AAB70127.1|, |2393804|gb|AAB70129.1|,
 |2393796|gb|AAB70125.1|, |2393790|gb|AAB70122.1|, |2393814|gb|AAB70134.1|,
 |77167577|gb|ABA62748.1|, |57545288|gb|AAW51547.1|, |57545286|gb|AAW51546.1|,
 |7416698|dbj|BAA93989.1|, |7416692|dbj|BAA93986.1|, |1160053|emb|CAA92880.1|,
 |1160051|emb|CAA92879.1|, |5001941|gb|AAD37221.1|, |5001931|gb|AAD37216.1|,
 |5001921|gb|AAD37211.1|, |5001911|gb|AAD37206.1|, |5001989|gb|AAD37245.1|,
 |5001979|gb|AAD37240.1|, |77167827|gb|ABA62873.1|, |38570386|gb|AAR24631.1|,
 |38570380|gb|AAR24628.1|, |7416696|dbj|BAA93988.1|, |77168069|gb|ABA62994.1|,
 |34811837|gb|AAO40780.1|, |77167843|gb|ABA62881.1|, |38570396|gb|AAR24636.1|,
 |38570376|gb|AAR24626.1|, |38570382|gb|AAR24629.1|, |7416694|dbj|BAA93987.1|,
 |7416690|dbj|BAA93985.1|, |38570390|gb|AAR24633.1|, |77167383|gb|ABA62651.1|,
 |77168292|gb|ABA63105.1|, |3218174|emb|CAB05091.1|, |57545300|gb|AAW51553.1|,
 |77167747|gb|ABA62833.1|, |1477808|gb|AAB05487.1|, |1477806|gb|AAB05486.1|,
 |1477804|gb|AAB05485.1|, |1477800|gb|AAB05483.1|, |1477802|gb|AAB05484.1|,
 |77168322|gb|ABA63120.1|, |77167925|gb|ABA62922.1|, |77167569|gb|ABA62744.1|,
 |139391|sp|P05950|VPR_HV1MN, |328035|gb|AAA44855.1|, |57545348|gb|AAW51577.1|,
 |77168027|gb|ABA62973.1|, |77167935|gb|ABA62927.1|, |77168041|gb|ABA62980.1|,
 |77167453|gb|ABA62686.1|, |22532144|gb|AAM97855.1|AF46,
 |22532134|gb|AAM97846.1|AF46, |38491784|gb|AAR22163.1|, |17352347|gb|AAL01566.1|,
 |62467692|gb|AAX83948.1|, |51950723|gb|AAU14915.1|, |14290032|gb|AAK59215.1|,
 |51950713|gb|AAU14906.1|, |15788241|gb|AAL07694.1|, |9931093|emb|CAC05364.1|,
 |37682533|gb|AAQ98220.1|, |6651458|gb|AAF22310.1|AF193, |74315725|gb|ABA02453.1|,
 |38491902|gb|AAR22269.1|, |38679144|gb|AAR26398.1|, |38679135|gb|AAR26390.1|,
 |22596487|gb|AAN03250.1|AF45, |5668914|gb|AAD46068.1|AF076,
 |8886635|gb|AAF80534.1|AF179, |15209255|emb|CAC51034.1|, |38491757|gb|AAR22139.1|,
 |38491737|gb|AAR22121.1|, |18073404|emb|CAC87995.1|, |38491873|gb|AAR22243.1|,
 |22596467|gb|AAN03232.1|AF45, |15281433|gb|AAK94222.1|AF36,
 |61102563|gb|AAX37706.1|, |22596371|gb|AAN03148.1|AF45, |57869545|gb|AAW57598.1|,
 |22596422|gb|AAN03193.1|AF45, |77167931|gb|ABA62925.1|,
 |22596477|gb|AAN03241.1|AF45, |5305345|gb|AAD41599.1|AF071,
 |3808274|gb|AAD13361.1|, |3808264|gb|AAC69300.1|, |3808254|gb|AAC69291.1|,
 |61102663|gb|AAX37792.1|, |61102570|gb|AAX37712.1|, |61102547|gb|AAX37692.1|,
 |1890687|gb|AAC97544.1|, |25166929|gb|AAN73708.1|AF48, |37682523|gb|AAQ98211.1|,
 |31980419|dbj|BAC77740.1|, |31980409|dbj|BAC77731.1|, |57869554|gb|AAW57606.1|,
 |25166769|gb|AAN73564.1|AF48, |38491883|gb|AAR22252.1|,
 |22596265|gb|AAN03054.1|AF45, |22596401|gb|AAN03175.1|AF45,
 |22596331|gb|AAN03112.1|AF45, |22596434|gb|AAN03203.1|AF45,
 |61102620|gb|AAX37755.1|, |61102612|gb|AAX37748.1|, |22596381|gb|AAN03157.1|AF45,
 |61102555|gb|AAX37699.1|, |61102523|gb|AAX37671.1|, |22596361|gb|AAN03139.1|AF45,

|22596286|gb|AAN03072.1|AF45, |22596245|gb|AAN03036.1|AF45,
 |25166687|gb|AAN73491.1|AF48, |25166789|gb|AAN73582.1|AF48,
 |22596275|gb|AAN03063.1|AF45, |3808244|gb|AAC69282.1|, |39777417|gb|AAR30995.1|,
 |22596447|gb|AAN03214.1|AF45, |39777427|gb|AAR31004.1|,
 |22596567|gb|AAN03322.1|AF45, |5305481|gb|AAD41669.1|AF075,
 |71148571|gb|AAZ28902.1|, |22596391|gb|AAN03166.1|AF45, |38491774|gb|AAR22154.1|,
 |38491747|gb|AAR22130.1|, |22532295|gb|AAM97888.1|AF49, |46946847|gb|AAT06637.1|,
 |18699152|gb|AAL78423.1|AF41, |56609314|gb|AAW03268.1|,
 |18699129|gb|AAL78403.1|AF41, |18699189|gb|AAL78449.1|AF41,
 |18699137|gb|AAL78410.1|AF41, |18699144|gb|AAL78416.1|AF41,
 |56609330|gb|AAW03282.1|, |56609324|gb|AAW03277.1|, |56609274|gb|AAW03232.1|,
 |56609264|gb|AAW03223.1|, |56609244|gb|AAW03205.1|, |56609304|gb|AAW03259.1|,
 |41353555|gb|AAS01342.1|, |56609294|gb|AAW03250.1|, |78172854|gb|ABB29385.1|,
 |22596457|gb|AAN03223.1|AF45, |45361158|gb|AAS59367.1|,
 |25166979|gb|AAN73753.1|AF48, |38491503|gb|AAR21913.1|,
 |22596497|gb|AAN03259.1|AF45, |13560262|dbj|BAB40913.1|0,
 |38491765|gb|AAR22146.1|, |22532285|gb|AAM97879.1|AF49,
 |18073414|emb|CAC88004.1|, |1899133|gb|AAC57013.1|, |46946838|gb|AAT06629.1|,
 |46946829|gb|AAT06621.1|, |14530240|gb|AAK65973.1|AF28, |24181491|gb|AAN47112.1|,
 |14530248|gb|AAK65980.1|AF28, |37682434|gb|AAQ98131.1|, |74315762|gb|ABA02486.1|,
 |5733945|gb|AAD49783.1|AF107, |7452902|emb|CAB86368.1|, |45361178|gb|AAS59379.1|,
 |1478060|gb|AAB51139.1|, |45361169|gb|AAS59373.1|, |38491716|gb|AAR22103.1|,
 |5531678|gb|AAD44397.1|AF055, |5305562|gb|AAD41698.1|AF097,
 |5531654|gb|AAD44376.1|AF055, |5305570|gb|AAD41705.1|AF097,
 |3132814|gb|AAC29080.1|, |3132804|gb|AAC29071.1|, |46946862|gb|AAT06650.1|,
 |33390882|gb|AAQ17101.1|, |38491569|gb|AAR21972.1|, |25807940|gb|AAN74527.1|,
 |25807930|gb|AAN74518.1|, |74315772|gb|ABA02495.1|, |5531670|gb|AAD44390.1|AF055,
 |5531662|gb|AAD44383.1|AF055, |5305578|gb|AAD41712.1|AF097,
 |5531646|gb|AAD44369.1|AF055, |38491599|gb|AAR21999.1|, |56609341|gb|AAW03291.1|,
 |56609284|gb|AAW03241.1|, |56609254|gb|AAW03214.1|, |38491641|gb|AAR22036.1|,
 |7657892|emb|CAB89146.1|, |38491726|gb|AAR22112.1|, |38491493|gb|AAR21904.1|,
 |71794616|emb|CAI28856.1|, |14289986|gb|AAK59174.1|, |38491671|gb|AAR22063.1|,
 |38491651|gb|AAR22045.1|, |38491513|gb|AAR21922.1|, |6466843|gb|AAF13058.1|,
 |38491631|gb|AAR22027.1|, |13517086|dbj|BAB40424.1|, |38491621|gb|AAR22018.1|,
 |45361190|gb|AAS59384.1|, |7452912|emb|CAB86377.1|, |38491559|gb|AAR21963.1|,
 |38491698|gb|AAR22087.1|, |38491616|gb|AAR22014.1|, |38491522|gb|AAR21930.1|,
 |38491579|gb|AAR21981.1|, |38491530|gb|AAR21937.1|, |38491608|gb|AAR22007.1|,
 |38491690|gb|AAR22080.1|, |1732479|gb|AAB38827.1|, |45361126|gb|AAS59344.1|,
 |6690770|gb|AAF24329.1|AF197, |38491706|gb|AAR22094.1|, |15982648|gb|AAL09936.1|,
 |45644384|gb|AAS72939.1|, |38491844|gb|AAR22217.1|, |71794626|emb|CAI28865.1|,
 |38491912|gb|AAR22278.1|, |38491549|gb|AAR21954.1|, |38491589|gb|AAR21990.1|,
 |38491892|gb|AAR22260.1|, |23194122|gb|AAN15030.1|, |37683001|gb|AAQ98561.1|,
 |37682981|gb|AAQ98543.1|, |37682892|gb|AAQ98464.1|, |33328323|gb|AAQ09612.1|2,
 |38491863|gb|AAR22234.1|, |38491854|gb|AAR22226.1|, |38491681|gb|AAR22072.1|,
 |38491539|gb|AAR21945.1|, |38491661|gb|AAR22054.1|, |14289996|gb|AAK59183.1|,
 |37496501|emb|CAD48457.1|, |37496485|emb|CAD48443.1|, |1537054|gb|AAC55462.1|,
 |5931495|dbj|BAA84672.1|, |6690756|gb|AAF24315.1|AF197,
 |28933405|gb|AAO62619.1|AF46, |11066501|gb|AAG28616.1|AF25,

|11066491|gb|AAG28607.1|AF25,
 |6690763|gb|AAF24322.1|AF197, |11761604|gb|AAG38932.1|, |14209301|dbj|BAB55910.1|,
 |37682971|gb|AAQ98534.1|, |37682824|gb|AAQ98405.1|, |37682814|gb|AAQ98396.1|,
 |37682804|gb|AAQ98387.1|, |37682734|gb|AAQ98324.1|, |37682991|gb|AAQ98552.1|,
 |18844740|dbj|BAB85462.1|, |18844730|dbj|BAB85453.1|, |37682744|gb|AAQ98333.1|,
 |37682882|gb|AAQ98455.1|, |37682864|gb|AAQ98441.1|, |45361116|gb|AAS59335.1|,
 |37682871|gb|AAQ98447.1|, |45361150|gb|AAS59362.1|, |19908410|gb|AAL96765.1|,
 |33328191|gb|AAQ09540.1|, |22297043|gb|AAM94499.1|, |37682931|gb|AAQ98498.1|,
 |37682714|gb|AAQ98306.1|, |37682961|gb|AAQ98525.1|, |37682774|gb|AAQ98360.1|,
 |82284899|sp|Q6JNE4|Q6JNE4_9, |45361138|gb|AAS59353.1|, |30720410|gb|AAP33678.1|,
 |57869667|gb|AAW57707.1|, |57869732|gb|AAW57765.1|, |57869723|gb|AAW57757.1|,
 |57869687|gb|AAW57725.1|, |37682913|gb|AAQ98482.1|, |37682754|gb|AAQ98342.1|,
 |37682764|gb|AAQ98351.1|, |77167661|gb|ABA62790.1|, |31559683|dbj|BAC77505.1|,
 |31559635|dbj|BAC77462.1|, |37682724|gb|AAQ98315.1|, |37682704|gb|AAQ98297.1|,
 |37682844|gb|AAQ98423.1|, |78100203|gb|ABB20906.1|, |57869714|gb|AAW57749.1|,
 |57869696|gb|AAW57733.1|, |45361202|gb|AAS59393.1|, |5931486|dbj|BAA84664.1|,
 |38491834|gb|AAR22208.1|, |57869677|gb|AAW57716.1|, |37682951|gb|AAQ98516.1|,
 |45361104|gb|AAS59326.1|, |37682903|gb|AAQ98473.1|, |37683011|gb|AAQ98570.1|,
 |37682941|gb|AAQ98507.1|, |37682794|gb|AAQ98378.1|, |37682784|gb|AAQ98369.1|,
 |37682921|gb|AAQ98489.1|, |37682834|gb|AAQ98414.1|, |37682854|gb|AAQ98432.1|,
 |33328201|gb|AAQ09549.1|, |57901111|gb|AAW57875.1|, |3676492|gb|AAC61996.1|,
 |46243167|gb|AAS83693.1|, |46243159|gb|AAS83686.1|, |38491929|gb|AAR22293.1|,
 |3676484|gb|AAC61989.1|, |14290023|gb|AAK59207.1|, |14290014|gb|AAK59199.1|,
 |52421739|gb|AAU45378.1|, |37496493|emb|CAD48450.1|, |57545340|gb|AAW51573.1|,
 |3779264|gb|AAD03312.1|, |9368382|emb|CAB98171.1|, |4336343|gb|AAD17769.1|,
 |4336333|gb|AAD17759.1|, |46946854|gb|AAT06643.1|, |22596341|gb|AAN03121.1|AF45,
 |6580989|gb|AAF18398.1|AF190, |3114568|gb|AAD03186.1|, |37682543|gb|AAQ98229.1|,
 |8920155|emb|CAB96341.1|, |3288392|emb|CAA06812.1|, |47027391|gb|AAT08771.1|,
 |3403219|gb|AAC29053.1|, |3403211|gb|AAC29046.1|, |14579615|gb|AAK69332.1|,
 |3114551|gb|AAD03171.1|, |47118223|gb|AAT11213.1|, |47118253|gb|AAT11240.1|,
 |16118377|gb|AAL12742.1|, |45360171|gb|AAS59206.1|, |14579595|gb|AAK69314.1|,
 |15788280|gb|AAL07729.1|, |16118353|gb|AAL12721.1|, |15787962|gb|AAL07552.1|,
 |45360141|gb|AAS59179.1|, |45360151|gb|AAS59188.1|, |29119327|gb|AAO63242.1|,
 |29119318|gb|AAO63234.1|, |16118367|gb|AAL12733.1|, |16118314|gb|AAL12688.1|,
 |47118213|gb|AAT11204.1|, |16118331|gb|AAL12702.1|, |6090968|gb|AAF03415.1|AF075,
 |16118343|gb|AAL12712.1|, |5668942|gb|AAD46090.1|AF077, |15788290|gb|AAL07738.1|,
 |47118263|gb|AAT11249.1|, |16118264|gb|AAL12643.1|, |45360212|gb|AAS59243.1|,
 |16118397|gb|AAL12760.1|, |15788260|gb|AAL07711.1|, |14579605|gb|AAK69323.1|,
 |15788270|gb|AAL07720.1|, |6643029|gb|AAF20390.1|, |9368372|emb|CAB98189.1|,
 |45360192|gb|AAS59225.1|, |14290005|gb|AAK59191.1|, |38491824|gb|AAR22199.1|,
 |47118243|gb|AAT11222.1|, |16118304|gb|AAL12679.1|, |45360181|gb|AAS59215.1|,
 |32189802|gb|AAP75713.1|, |5305357|gb|AAD41609.1|AF071, |62946404|gb|AAY22381.1|,
 |37682572|gb|AAQ98255.1|, |77168097|gb|ABA63008.1|, |77168049|gb|ABA62984.1|,
 |77167909|gb|ABA62914.1|, |77168219|gb|ABA63069.1|, |77167495|gb|ABA62707.1|,
 |77167993|gb|ABA62956.1|, |77167777|gb|ABA62848.1|, |77168051|gb|ABA62985.1|,
 |77167435|gb|ABA62677.1|, |82295417|sp|Q8AC04|Q8AC04_9,
 |23392759|emb|CAD26717.1|, |23392757|emb|CAD26716.1|, |23392755|emb|CAD26715.1|,
 |27446732|gb|AAL62479.1|, |77168276|gb|ABA63097.1|, |77167691|gb|ABA62805.1|,

|77167791|gb|ABA62855.1|, |77167599|gb|ABA62759.1|, |77167309|gb|ABA62614.1|,
 |77168189|gb|ABA63054.1|, |77167695|gb|ABA62807.1|, |77167419|gb|ABA62669.1|,
 |1072090|gb|AAC54546.1|, |3002889|gb|AAD03243.1|, |3002853|gb|AAD03211.1|,
 |37681534|gb|AAQ97644.1|, |37677777|gb|AAQ97455.1|, |77167807|gb|ABA62863.1|,
 |12964713|gb|AAK11285.1|, |1160049|emb|CAA92878.1|, |77167481|gb|ABA62700.1|,
 |77167467|gb|ABA62693.1|, |12964711|gb|AAK11284.1|, |77168125|gb|ABA63022.1|,
 |7416700|dbj|BAA93990.1|, |7416702|dbj|BAA93991.1|, |3327504|gb|AAC41047.1|,
 |3327540|gb|AAC41063.1|, |3327490|gb|AAC41040.1|, |3327538|gb|AAC41062.1|,
 |3327536|gb|AAC41061.1|, |3327534|gb|AAC41060.1|, |3327532|gb|AAC41059.1|,
 |3327521|gb|AAC41055.1|, |3327519|gb|AAC41054.1|, |3327517|gb|AAC41053.1|,
 |3327514|gb|AAC41052.1|, |3327510|gb|AAC41050.1|, |3327496|gb|AAC41043.1|,
 |3327488|gb|AAC41039.1|, |3327528|gb|AAC41057.1|, |3327486|gb|AAC41038.1|,
 |3327530|gb|AAC41058.1|, |3327506|gb|AAC41048.1|, |3327500|gb|AAC41045.1|,
 |3327498|gb|AAC41044.1|, |3327512|gb|AAC41051.1|, |3327502|gb|AAC41046.1|,
 |3327494|gb|AAC41042.1|, |3327508|gb|AAC41049.1|, |3327492|gb|AAC41041.1|,
 |55735997|gb|AAV59725.1|, |50404191|gb|AAT76861.1|, |77168334|gb|ABA63126.1|,
 |25166759|gb|AAN73555.1|AF48, |77167703|gb|ABA62811.1|, |77167401|gb|ABA62660.1|,
 |38491919|gb|AAR22284.1|, |23394930|gb|AAN31651.1|, |1160057|emb|CAA92882.1|,
 |16118254|gb|AAL12634.1|, |7416684|dbj|BAA93982.1|, |3002871|gb|AAD03227.1|,
 |77167717|gb|ABA62818.1|, |77168149|gb|ABA63034.1|, |46254439|gb|AAS86190.1|,
 |77168083|gb|ABA63001.1|, |46254417|gb|AAS86175.1|, |3002843|gb|AAD03202.1|,
 |57869601|gb|AAW57648.1|, |77167583|gb|ABA62751.1|, |77167413|gb|ABA62666.1|,
 |77167395|gb|ABA62657.1|, |77167861|gb|ABA62890.1|, |77167405|gb|ABA62662.1|,
 |7416722|dbj|BAA94001.1|, |7416718|dbj|BAA93999.1|, |7416716|dbj|BAA93998.1|,
 |82283749|sp|Q66MS6|Q66MS6_9, |29119345|gb|AAO63258.1|,
 |82283743|sp|Q66MR4|Q66MR4_9, |7416720|dbj|BAA94000.1|, |77168225|gb|ABA63072.1|,
 |77167903|gb|ABA62911.1|, |77167651|gb|ABA62785.1|, |77168310|gb|ABA63114.1|,
 |77168288|gb|ABA63103.1|, |77167869|gb|ABA62894.1|, |77167489|gb|ABA62704.1|,
 |77167335|gb|ABA62627.1|, |77168201|gb|ABA63060.1|, |77168195|gb|ABA63057.1|,
 |77167357|gb|ABA62638.1|, |77167905|gb|ABA62912.1|, |77168304|gb|ABA63111.1|,
 |77168181|gb|ABA63050.1|, |1160045|emb|CAA92876.1|, |29119279|gb|AAO63199.1|,
 |3002862|gb|AAD03219.1|, |77167779|gb|ABA62849.1|, |57545324|gb|AAW51565.1|,
 |77167863|gb|ABA62891.1|, |15281483|gb|AAK94267.1|AF36, |1160109|emb|CAA92908.1|,
 |30038317|gb|AAP12630.1|, |1160111|emb|CAA92909.1|, |11641109|gb|AAG38459.1|,
 |11641105|gb|AAG38457.1|, |11641099|gb|AAG38454.1|, |11641107|gb|AAG38458.1|,
 |11641103|gb|AAG38456.1|, |11641101|gb|AAG38455.1|, |15407144|gb|AAG32145.1|,
 |15407142|gb|AAG32144.1|, |57545302|gb|AAW51554.1|, |1185524|gb|AAA87866.1|,
 |57545298|gb|AAW51552.1|, |77167613|gb|ABA62766.1|, |3218146|emb|CAB05077.1|,
 |77167781|gb|ABA62850.1|, |57545290|gb|AAW51548.1|, |3218184|emb|CAB05096.1|,
 |1055033|gb|AAA81039.1|, |14278628|pdb|1ESX|A, |3218475|emb|CAB05070.1|,
 |77167421|gb|ABA62670.1|, |77167377|gb|ABA62648.1|, |77167959|gb|ABA62939.1|,
 |2393846|gb|AAB70150.1|, |2393842|gb|AAB70148.1|, |2393828|gb|AAB70141.1|,
 |77167649|gb|ABA62784.1|, |77167341|gb|ABA62630.1|, |57545274|gb|AAW51540.1|,
 |77168023|gb|ABA62971.1|, |3218479|emb|CAB05072.1|, |3218144|emb|CAB05076.1|,
 |77167353|gb|ABA62636.1|, |77167853|gb|ABA62886.1|, |77167769|gb|ABA62844.1|,
 |77167805|gb|ABA62862.1|, |77167497|gb|ABA62708.1|, |77167351|gb|ABA62635.1|,
 |1160065|emb|CAA92886.1|, |25166919|gb|AAN73699.1|AF48, |3218140|emb|CAB05074.1|,
 |25166729|gb|AAN73528.1|AF48, |77168191|gb|ABA63055.1|, |77167997|gb|ABA62958.1|,

49472925 gb AAT66270.1 ,	77168235 gb ABA63077.1 ,	77168135 gb ABA63027.1 ,
77167663 gb ABA62791.1 ,	77167445 gb ABA62682.1 ,	77167735 gb ABA62827.1 ,
77167741 gb ABA62830.1 ,	2393838 gb AAB70146.1 ,	2393834 gb AAB70144.1 ,
2393830 gb AAB70142.1 ,	82279701 sp O42045 O42045_9 ,	2393871 gb AAB70163.1 ,
2393840 gb AAB70147.1 ,	2393832 gb AAB70143.1 ,	2393869 gb AAB70162.1 ,
2393836 gb AAB70145.1 ,	2393824 gb AAB70139.1 ,	77167627 gb ABA62773.1 ,
77167573 gb ABA62746.1 ,	1160027 emb CAA92867.1 ,	77168314 gb ABA63116.1 ,
57545314 gb AAW51560.1 ,	77168328 gb ABA63123.1 ,	77168356 gb ABA63137.1 ,
77168029 gb ABA62974.1 ,	77168324 gb ABA63121.1 ,	77167715 gb ABA62817.1 ,
77167875 gb ABA62897.1 ,	77167829 gb ABA62874.1 ,	77167809 gb ABA62864.1 ,
829583 gb AAA79679.1 ,	829569 gb AAA79667.1 ,	829562 gb AAA79661.1 ,
829389 gb AAA79528.1 ,	829546 gb AAA79647.1 ,	829538 gb AAA79640.1 ,
829526 gb AAA79632.1 ,	829518 gb AAA79625.1 ,	829510 gb AAA79618.1 ,
829403 gb AAA79540.1 ,	829396 gb AAA79534.1 ,	829381 gb AAA79521.1 ,
829576 gb AAA79673.1 ,	327817 gb AAB03747.1 ,	139388 sp P20883 VPR_HV1JR ,
829554 gb AAA79654.1 ,	1160033 emb CAA92870.1 ,	7416650 dbj BAA93965.1 ,
3218178 emb CAB05093.1 ,	3218176 emb CAB05092.1 ,	328412 gb AAA44983.1 ,
1160075 emb CAA92891.1 ,	24753997 gb AAN64116.1 ,	57545280 gb AAW51543.1 ,
25166849 gb AAN73636.1 AF48 ,	29893418 gb AAP03071.1 ,	77168254 gb ABA63086.1 ,
1160041 emb CAA92874.1 ,	1160031 emb CAA92869.1 ,	7416658 dbj BAA93969.1 ,
7416656 dbj BAA93968.1 ,	1160055 emb CAA92881.1 ,	77167363 gb ABA62641.1 ,
29119308 gb AAO63225.1 ,	77168300 gb ABA63109.1 ,	57545278 gb AAW51542.1 ,
1160023 emb CAA92865.1 ,	29119259 gb AAO63181.1 ,	3327628 gb AAC41104.1 ,
3327626 gb AAC41103.1 ,	3327622 gb AAC41101.1 ,	3327618 gb AAC41099.1 ,
3327612 gb AAC41097.1 ,	3327610 gb AAC41096.1 ,	3327608 gb AAC41095.1 ,
3327606 gb AAC41094.1 ,	3327604 gb AAC41093.1 ,	3327602 gb AAC41092.1 ,
3327600 gb AAC41091.1 ,	3327598 gb AAC41090.1 ,	3327596 gb AAC41089.1 ,
3327594 gb AAC41088.1 ,	3327592 gb AAC41087.1 ,	3327590 gb AAC41086.1 ,
3327588 gb AAC41085.1 ,	3327584 gb AAC41083.1 ,	3327577 gb AAC41080.1 ,
3327573 gb AAC41078.1 ,	3327624 gb AAC41102.1 ,	3327614 gb AAC41098.1 ,
3327620 gb AAC41100.1 ,	3327575 gb AAC41079.1 ,	3327586 gb AAC41084.1 ,
3327580 gb AAC41081.1 ,	3327582 gb AAC41082.1 ,	77168229 gb ABA63074.1 ,
77167685 gb ABA62802.1 ,	5001981 gb AAD37241.1 ,	5001971 gb AAD37236.1 ,
5001951 gb AAD37226.1 ,	5001961 gb AAD37231.1 ,	3218158 emb CAB05083.1 ,
3218156 emb CAB05082.1 ,	77167639 gb ABA62779.1 ,	1160037 emb CAA92872.1 ,
77168252 gb ABA63085.1 ,	77168011 gb ABA62965.1 ,	77167643 gb ABA62781.1 ,
77167389 gb ABA62654.1 ,	77167361 gb ABA62640.1 ,	3327676 gb AAC41128.1 ,
3327674 gb AAC41127.1 ,	3327672 gb AAC41126.1 ,	3327668 gb AAC41124.1 ,
3327664 gb AAC41122.1 ,	3327662 gb AAC41121.1 ,	3327656 gb AAC41118.1 ,
3327652 gb AAC41116.1 ,	3327646 gb AAC41113.1 ,	3327642 gb AAC41111.1 ,
3327638 gb AAC41109.1 ,	3327636 gb AAC41108.1 ,	3327634 gb AAC41107.1 ,
3327632 gb AAC41106.1 ,	3327666 gb AAC41123.1 ,	3327630 gb AAC41105.1 ,
3327660 gb AAC41120.1 ,	3327654 gb AAC41117.1 ,	3327658 gb AAC41119.1 ,
3327648 gb AAC41114.1 ,	3327644 gb AAC41112.1 ,	3327670 gb AAC41125.1 ,
3327640 gb AAC41110.1 ,	3327650 gb AAC41115.1 ,	77167913 gb ABA62916.1 ,
77167923 gb ABA62921.1 ,	77167801 gb ABA62860.1 ,	77167469 gb ABA62694.1 ,
77167601 gb ABA62760.1 ,	77167487 gb ABA62703.1 ,	77167315 gb ABA62617.1 ,
77168348 gb ABA63133.1 ,	77167625 gb ABA62772.1 ,	77167877 gb ABA62898.1 ,

|77167399|gb|ABA62659.1|, |77168157|gb|ABA63038.1|, |77167619|gb|ABA62769.1|,
 |77167321|gb|ABA62620.1|, |77167415|gb|ABA62667.1|, |139396|sp|P05951|VPR_HV1SC,
 |328637|gb|AAA45062.1|, |77167937|gb|ABA62928.1|, |77167483|gb|ABA62701.1|,
 |2393844|gb|AAB70149.1|, |2393826|gb|AAB70140.1|, |2393822|gb|AAB70138.1|,
 |2393820|gb|AAB70137.1|, |82279707|sp|O42071|O42071_9, |77168033|gb|ABA62976.1|,
 |29119269|gb|AAO63190.1|, |77168246|gb|ABA63082.1|, |77167973|gb|ABA62946.1|,
 |77168404|gb|ABA63161.1|, |77167475|gb|ABA62697.1|, |77167901|gb|ABA62910.1|,
 |77168121|gb|ABA63020.1|, |77168103|gb|ABA63011.1|, |77167849|gb|ABA62884.1|,
 |77167971|gb|ABA62945.1|, |57545308|gb|AAW51557.1|, |77167921|gb|ABA62920.1|,
 |77167313|gb|ABA62616.1|, |77167681|gb|ABA62800.1|, |1160047|emb|CAA92877.1|,
 |77168388|gb|ABA63153.1|, |77168244|gb|ABA63081.1|, |77168185|gb|ABA63052.1|,
 |1160029|emb|CAA92868.1|, |77167503|gb|ABA62711.1|, |7416662|dbj|BAA93971.1|,
 |77168045|gb|ABA62982.1|, |82295423|sp|Q8AC14|Q8AC14_9,
 |23392765|emb|CAD26720.1|, |23392763|emb|CAD26719.1|, |23392761|emb|CAD26718.1|,
 |77167965|gb|ABA62942.1|, |77167999|gb|ABA62959.1|, |77167957|gb|ABA62938.1|,
 |77167439|gb|ABA62679.1|, |77167719|gb|ABA62819.1|, |57545346|gb|AAW51576.1|,
 |57545364|gb|AAW51585.1|, |1160025|emb|CAA92866.1|, |77168231|gb|ABA63075.1|,
 |77167885|gb|ABA62902.1|, |77168055|gb|ABA62987.1|0, |77167555|gb|ABA62737.1|0,
 |77167589|gb|ABA62754.1|, |77167365|gb|ABA62642.1|, |77167859|gb|ABA62889.1|,
 |77168173|gb|ABA63046.1|, |77168376|gb|ABA63147.1|, |77167575|gb|ABA62747.1|,
 |77168171|gb|ABA63045.1|, |77167945|gb|ABA62932.1|, |77167579|gb|ABA62749.1|,
 |77167977|gb|ABA62948.1|, |77167307|gb|ABA62613.1|, |77167855|gb|ABA62887.1|,
 |77167683|gb|ABA62801.1|, |3218142|emb|CAB05075.1|, |77167349|gb|ABA62634.1|,
 |77168113|gb|ABA63016.1|, |29119289|gb|AAO63208.1|, |57545306|gb|AAW51556.1|,
 |11095914|gb|AAG30118.1|AF28, |1176378|gb|AAA86733.1|, |77167417|gb|ABA62668.1|,
 |77168266|gb|ABA63092.1|, |77168344|gb|ABA63131.1|, |77168241|gb|ABA63080.1|,
 |77168109|gb|ABA63014.1|, |77167951|gb|ABA62935.1|, |77168354|gb|ABA63136.1|,
 |77167835|gb|ABA62877.1|, |77168017|gb|ABA62968.1|, |77167471|gb|ABA62695.1|,
 |77168290|gb|ABA63104.1|, |77168209|gb|ABA63064.1|, |77167655|gb|ABA62787.1|,
 |77168043|gb|ABA62981.1|, |77167397|gb|ABA62658.1|, |77168063|gb|ABA62991.1|,
 |77168077|gb|ABA62998.1|, |77167887|gb|ABA62903.1|, |77167359|gb|ABA62639.1|,
 |77167943|gb|ABA62931.1|, |77167459|gb|ABA62689.1|, |77168177|gb|ABA63048.1|,
 |77168013|gb|ABA62966.1|, |77167673|gb|ABA62796.1|, |77167387|gb|ABA62653.1|,
 |77167531|gb|ABA62725.1|, |74273483|gb|ABA01463.1|, |74273454|gb|ABA01437.1|,
 |74273473|gb|ABA01454.1|, |74273463|gb|ABA01445.1|, |77168151|gb|ABA63035.1|,
 |77168153|gb|ABA63036.1|, |57869647|gb|AAW57689.1|,
 |82283742|sp|Q66MR2|Q66MR2_9, |77168350|gb|ABA63134.1|,
 |82283738|sp|Q66MQ4|Q66MQ4_9, |82283739|sp|Q66MQ6|Q66MQ6_9,
 |82283736|sp|Q66MQ0|Q66MQ0_9, |82283741|sp|Q66MR0|Q66MR0_9,
 |82283735|sp|Q66MP5|Q66MP5_9

VIF proteins

|1857262|gb|AAB54105.1|, |38491783|gb|AAR22162.1|, |29409328|gb|AAM67404.1|,
 |29409297|gb|AAM67377.1|, |38491862|gb|AAR22233.1|, |38491853|gb|AAR22225.1|,
 |17352346|gb|AAL01565.1|, |14290031|gb|AAK59214.1|, |38491928|gb|AAR22292.1|,
 |38491938|gb|AAR22301.1|, |38491793|gb|AAR22171.1|, |70633594|gb|AAZ06076.1|,
 |70633592|gb|AAZ06075.1|, |70633590|gb|AAZ06074.1|, |38491813|gb|AAR22189.1|,

38491803 gb AAR22180.1 ,	2570293 gb AAC32649.1 ,	1568312 emb CAA02186.1 ,
38491918 gb AAR22283.1 ,	57901100 gb AAW57865.1 ,	38326772 gb AAR17514.1 ,
57901060 gb AAW57829.1 ,	5668883 gb AAD46045.1 AF075,	2570311 gb AAC97572.1 ,
7021458 gb AAF35357.1 ,	83026797 gb ABB96434.1 ,	70633584 gb AAZ06071.1 ,
83026787 gb ABB96425.1 ,	70633670 gb AAZ06114.1 ,	70633668 gb AAZ06113.1 ,
70633660 gb AAZ06109.1 ,	70633658 gb AAZ06108.1 ,	62461845 gb AAZ06107.1 ,
70633656 gb AAZ06107.1 ,	70633662 gb AAZ06110.1 ,	70633666 gb AAZ06112.1 ,
70633664 gb AAZ06111.1 ,	70633588 gb AAZ06073.1 ,	70633586 gb AAZ06072.1 ,
70633466 gb AAZ06013.1 ,	70633464 gb AAZ06012.1 ,	70633468 gb AAZ06014.1 ,
70633558 gb AAZ06058.1 ,	70633556 gb AAZ06057.1 ,	70633582 gb AAZ06070.1 ,
70633580 gb AAZ06069.1 ,	70633578 gb AAZ06068.1 ,	70633576 gb AAZ06067.1 ,
70633572 gb AAZ06065.1 ,	70633574 gb AAZ06066.1 ,	70633504 gb AAZ06031.1 ,
70633498 gb AAZ06028.1 ,	70633502 gb AAZ06030.1 ,	70633500 gb AAZ06029.1 ,
70633552 gb AAZ06055.1 ,	70633550 gb AAZ06054.1 ,	70633554 gb AAZ06056.1 ,
70633528 gb AAZ06043.1 ,	70633526 gb AAZ06042.1 ,	70633540 gb AAZ06049.1 ,
70633538 gb AAZ06048.1 ,	70633602 gb AAZ06080.1 ,	83026807 gb ABB96443.1 ,
70633642 gb AAZ06100.1 ,	70633604 gb AAZ06081.1 ,	70633620 gb AAZ06089.1 ,
70633616 gb AAZ06087.1 ,	70633618 gb AAZ06088.1 ,	70633614 gb AAZ06086.1 ,
70633514 gb AAZ06036.1 ,	70633512 gb AAZ06035.1 ,	70633516 gb AAZ06037.1 ,
70633476 gb AAZ06017.1 ,	70633474 gb AAZ06016.1 ,	83026777 gb ABB96416.1 ,
70633494 gb AAZ06026.1 ,	70633492 gb AAZ06025.1 ,	70633496 gb AAZ06027.1 ,
70633634 gb AAZ06096.1 ,	70633632 gb AAZ06095.1 ,	70633630 gb AAZ06094.1 ,
70633636 gb AAZ06097.1 ,	83026815 gb ABB96450.1 ,	70633640 gb AAZ06099.1 ,
70633638 gb AAZ06098.1 ,	70633564 gb AAZ06061.1 ,	70633562 gb AAZ06060.1 ,
70633560 gb AAZ06059.1 ,	70633644 gb AAZ06101.1 ,	70633674 gb AAZ06116.1 ,
70633672 gb AAZ06115.1 ,	70633610 gb AAZ06084.1 ,	70633608 gb AAZ06083.1 ,
70633606 gb AAZ06082.1 ,	70633622 gb AAZ06090.1 ,	70633524 gb AAZ06041.1 ,
70633522 gb AAZ06040.1 ,	70633520 gb AAZ06039.1 ,	70633518 gb AAZ06038.1 ,
70633462 gb AAZ06011.1 ,	70633460 gb AAZ06010.1 ,	70633488 gb AAZ06023.1 ,
70633486 gb AAZ06022.1 ,	70633490 gb AAZ06024.1 ,	45361201 gb AAS59392.1 ,
70633472 gb AAZ06015.1 ,	6580987 gb AAF18396.1 AF190,	46254430 gb AAS86183.1 ,
70633544 gb AAZ06051.1 ,	70633542 gb AAZ06050.1 ,	70633546 gb AAZ06052.1 ,
70633548 gb AAZ06053.1 ,	70633508 gb AAZ06033.1 ,	70633506 gb AAZ06032.1 ,
70633510 gb AAZ06034.1 ,	328433 gb AAB04038.1 ,	902801 gb AAB60573.1 ,
2154663 dbj BAA20319.1 ,	2154653 dbj BAA20315.1 ,	2154659 dbj BAA20318.1 ,
2154657 dbj BAA20317.1 ,	2154655 dbj BAA20316.1 ,	2154665 dbj BAA20320.1 ,
78172843 gb ABB29375.1 ,	18699230 gb AAL78476.1 AF41,	1151162 gb AAA85232.1 ,
2154671 dbj BAA20323.1 ,	2154667 dbj BAA20321.1 ,	2154673 dbj BAA20324.1 ,
74273413 gb ABA01400.1 ,	74273403 gb ABA01391.1 ,	74273393 gb ABA01382.1 ,
78172815 gb ABB29350.1 ,	70905447 gb AAZ14782.1 ,	70905445 gb AAZ14781.1 ,
70633568 gb AAZ06063.1 ,	70633566 gb AAZ06062.1 ,	70633570 gb AAZ06064.1 ,
70905433 gb AAZ14775.1 ,	70905431 gb AAZ14774.1 ,	70905429 gb AAZ14773.1 ,
7416538 dbj BAA93914.1 ,	57648405 gb AAW55906.1 ,	7416548 dbj BAA93919.1 ,
8218028 emb CAB92788.1 ,	1072089 gb AAC54545.1 ,	46254406 gb AAS86165.1 ,
70633628 gb AAZ06093.1 ,	70633626 gb AAZ06092.1 ,	70633624 gb AAZ06091.1 ,
829449 gb AAA79580.1 ,	829410 gb AAA79546.1 ,	829418 gb AAA79553.1 ,
829442 gb AAA79574.1 ,	829426 gb AAA79560.1 ,	829434 gb AAA79567.1 ,
2944132 gb AAC05239.1 ,	62956363 gb AAZ23499.1 ,	62956368 gb AAZ23503.1 ,

|73625136|gb|AAZ79333.1|, |73625126|gb|AAZ79328.1|, |73625098|gb|AAZ79314.1|,
|73625108|gb|AAZ79319.1|, |73625082|gb|AAZ79306.1|, |73625096|gb|AAZ79313.1|,
|73625100|gb|AAZ79315.1|, |73625084|gb|AAZ79307.1|, |73625130|gb|AAZ79330.1|,
|73625102|gb|AAZ79316.1|, |73625090|gb|AAZ79310.1|, |73625094|gb|AAZ79312.1|,
|73625092|gb|AAZ79311.1|, |73625118|gb|AAZ79324.1|, |73625134|gb|AAZ79332.1|,
|73625110|gb|AAZ79320.1|, |73625086|gb|AAZ79308.1|, |73625120|gb|AAZ79325.1|,
|73625128|gb|AAZ79329.1|, |73625088|gb|AAZ79309.1|, |73625112|gb|AAZ79321.1|,
|73625106|gb|AAZ79318.1|, |73625122|gb|AAZ79326.1|, |73625116|gb|AAZ79323.1|,
|73625124|gb|AAZ79327.1|, |73625132|gb|AAZ79331.1|, |73625114|gb|AAZ79322.1|,
|73625104|gb|AAZ79317.1|, |60195|emb|CAA77623.1|, |7416592|dbj|BAA93941.1|,
|7416584|dbj|BAA93937.1|, |74273482|gb|ABA01462.1|, |74273472|gb|ABA01453.1|,
|74273462|gb|ABA01444.1|, |74273453|gb|ABA01436.1|, |74273382|gb|ABA01373.1|,
|74273374|gb|ABA01366.1|, |74273357|gb|ABA01352.1|, |74273348|gb|ABA01344.1|,
|70905451|gb|AAZ14784.1|, |70905449|gb|AAZ14783.1|, |57901110|gb|AAW57874.1|,
|70633650|gb|AAZ06104.1|, |70633646|gb|AAZ06102.1|, |70633648|gb|AAZ06103.1|,
|70633446|gb|AAZ06003.1|, |70633454|gb|AAZ06007.1|, |70633452|gb|AAZ06006.1|,
|70633456|gb|AAZ06008.1|, |55275138|gb|AAV49362.1|, |55275128|gb|AAV49353.1|,
|55275258|gb|AAV49470.1|, |55275118|gb|AAV49344.1|, |55275178|gb|AAV49398.1|,
|55275158|gb|AAV49380.1|, |55275148|gb|AAV49371.1|, |55275168|gb|AAV49389.1|,
|55275238|gb|AAV49452.1|, |55275188|gb|AAV49407.1|, |55275198|gb|AAV49416.1|,
|55275248|gb|AAV49461.1|, |55275228|gb|AAV49443.1|, |55275218|gb|AAV49434.1|,
|55275208|gb|AAV49425.1|, |2154633|dbj|BAA20305.1|, |2154631|dbj|BAA20304.1|,
|2154628|dbj|BAA20303.1|, |2154626|dbj|BAA20302.1|, |2154635|dbj|BAA20306.1|,
|2154624|dbj|BAA20301.1|, |57901081|gb|AAW57848.1|, |57901071|gb|AAW57839.1|,
|2154651|dbj|BAA20314.1|, |2154639|dbj|BAA20308.1|, |2154645|dbj|BAA20311.1|,
|2154643|dbj|BAA20310.1|, |2154647|dbj|BAA20312.1|, |2154641|dbj|BAA20309.1|,
|2154637|dbj|BAA20307.1|, |2154649|dbj|BAA20313.1|, |70633482|gb|AAZ06020.1|,
|70633478|gb|AAZ06018.1|, |70633480|gb|AAZ06019.1|, |70633484|gb|AAZ06021.1|,
|1123015|gb|AAC54644.1|, |255648|gb|AAB23296.1|, |1123005|gb|AAC54635.1|,
|70633442|gb|AAZ06001.1|, |70633440|gb|AAZ06000.1|, |70633438|gb|AAZ05999.1|,
|70633444|gb|AAZ06002.1|, |46254438|gb|AAS86189.1|, |46254416|gb|AAS86174.1|,
|665535|gb|AAA76687.1|, |1398967|dbj|BAA12998.1|, |9629361|ref|NP_057851.1|,
|1398976|dbj|BAA12990.1|, |2801506|gb|AAC82594.1|, |3098585|gb|AAC68852.1|,
|3098575|gb|AAC68843.1|, |70633536|gb|AAZ06047.1|, |70633534|gb|AAZ06046.1|,
|70633532|gb|AAZ06045.1|, |70633530|gb|AAZ06044.1|, |829464|gb|AAA79593.1|,
|829457|gb|AAA79587.1|, |2154685|dbj|BAA20329.1|, |2154681|dbj|BAA20327.1|,
|2154683|dbj|BAA20328.1|, |2154677|dbj|BAA20326.1|, |2154688|dbj|BAA20330.1|,
|829582|gb|AAA79678.1|, |829568|gb|AAA79666.1|, |829561|gb|AAA79660.1|,
|829395|gb|AAA79533.1|, |829380|gb|AAA79520.1|, |829402|gb|AAA79539.1|,
|829517|gb|AAA79624.1|, |829388|gb|AAA79527.1|, |829525|gb|AAA79631.1|,
|829575|gb|AAA79672.1|, |829553|gb|AAA79653.1|, |829545|gb|AAA79646.1|,
|74273443|gb|ABA01427.1|, |74273433|gb|ABA01418.1|, |74273423|gb|ABA01409.1|,
|70905427|gb|AAZ14772.1|, |70905423|gb|AAZ14770.1|, |70905425|gb|AAZ14771.1|,
|70905421|gb|AAZ14769.1|, |70905419|gb|AAZ14768.1|, |18307192|gb|AAL65581.1|,
|70633450|gb|AAZ06005.1|, |70633448|gb|AAZ06004.1|, |1176377|gb|AAA86732.1|,
|70905439|gb|AAZ14778.1|, |70905435|gb|AAZ14776.1|, |70905437|gb|AAZ14777.1|,
|45686211|gb|AAS75787.1|, |2154621|dbj|BAA20300.1|, |2154619|dbj|BAA20299.1|,
|70905443|gb|AAZ14780.1|, |70905441|gb|AAZ14779.1|, |78172833|gb|ABB29366.1|,

|6580997|gb|AAF18405.1|AF190, |3114567|gb|AAD03185.1|, |3114558|gb|AAD03177.1|,
 |6090967|gb|AAF03414.1|AF075, |3114550|gb|AAD03170.1|, |14579621|gb|AAK69338.1|,
 |16118263|gb|AAL12642.1|, |5668941|gb|AAD46089.1|AF077, |14579601|gb|AAK69320.1|,
 |14579611|gb|AAK69329.1|, |16118253|gb|AAL12633.1|, |6636488|gb|AAF20195.1|AF200,
 |5668956|gb|AAD46100.1|AF076, |6651457|gb|AAF22309.1|AF193,
 |38491756|gb|AAR22138.1|, |38491736|gb|AAR22120.1|, |8886634|gb|AAF80533.1|AF179,
 |38491773|gb|AAR22153.1|, |38491746|gb|AAR22129.1|, |14290004|gb|AAK59190.1|,
 |38491823|gb|AAR22198.1|, |14290022|gb|AAK59206.1|, |6466842|gb|AAF13057.1|,
 |70633458|gb|AAZ06009.1|, |45361168|gb|AAS59372.1|, |1478059|gb|AAB51138.1|,
 |38491670|gb|AAR22062.1|, |38491650|gb|AAR22044.1|, |45644383|gb|AAS72938.1|,
 |14289985|gb|AAK59173.1|, |5733944|gb|AAD49782.1|AF107, |2570322|gb|AAC97582.1|,
 |70633654|gb|AAZ06106.1|, |70633652|gb|AAZ06105.1|, |38491660|gb|AAR22053.1|,
 |38491492|gb|AAR21903.1|, |45361189|gb|AAS59383.1|, |14289995|gb|AAK59182.1|,
 |38491725|gb|AAR22111.1|, |38491689|gb|AAR22079.1|, |38491715|gb|AAR22102.1|,
 |38491620|gb|AAR22017.1|, |38491558|gb|AAR21962.1|, |38491697|gb|AAR22086.1|,
 |38491615|gb|AAR22013.1|, |38491502|gb|AAR21912.1|, |38491640|gb|AAR22035.1|,
 |38491630|gb|AAR22026.1|, |38491607|gb|AAR22006.1|, |38491578|gb|AAR21980.1|,
 |38491568|gb|AAR21971.1|, |38491548|gb|AAR21953.1|, |38491705|gb|AAR22093.1|,
 |38491588|gb|AAR21989.1|, |38491538|gb|AAR21944.1|, |38491680|gb|AAR22071.1|,
 |38491512|gb|AAR21921.1|, |38491764|gb|AAR22145.1|, |38491529|gb|AAR21936.1|,
 |38491521|gb|AAR21929.1|, |3808281|gb|AAC69307.1|, |3808243|gb|AAC69281.1|,
 |6636492|gb|AAF20197.1|AF200, |5305344|gb|AAD41598.1|AF071,
 |3808273|gb|AAD13360.1|, |70633612|gb|AAZ06085.1|, |3808263|gb|AAC69299.1|,
 |3808253|gb|AAC69290.1|, |38491882|gb|AAR22251.1|, |5733953|gb|AAD49790.1|AF107,
 |45361067|gb|AAS59298.1|, |6636490|gb|AAF20196.1|AF200, |74315771|gb|ABA02494.1|,
 |74315761|gb|ABA02485.1|, |13560261|dbj|BAB40912.1|, |11993204|gb|AAG42636.1|,
 |45361149|gb|AAS59361.1|, |37683029|gb|AAQ98586.1|, |37683019|gb|AAQ98577.1|,
 |37682960|gb|AAQ98524.1|, |37682773|gb|AAQ98359.1|, |37682853|gb|AAQ98431.1|,
 |37682833|gb|AAQ98413.1|, |37682920|gb|AAQ98488.1|, |45361137|gb|AAS59352.1|,
 |45361115|gb|AAS59334.1|, |37682881|gb|AAQ98454.1|, |45361103|gb|AAS59325.1|,
 |37682980|gb|AAQ98542.1|, |37682891|gb|AAQ98463.1|, |37682843|gb|AAQ98422.1|,
 |37682753|gb|AAQ98341.1|, |14209300|dbj|BAB55909.1|, |37682940|gb|AAQ98506.1|,
 |37682743|gb|AAQ98332.1|, |1537053|gb|AAC55461.1|, |37682990|gb|AAQ98551.1|,
 |37682723|gb|AAQ98314.1|, |37682703|gb|AAQ98296.1|, |37682930|gb|AAQ98497.1|,
 |37682713|gb|AAQ98305.1|, |37682793|gb|AAQ98377.1|, |37682783|gb|AAQ98368.1|,
 |37682763|gb|AAQ98350.1|, |37682863|gb|AAQ98440.1|, |37682970|gb|AAQ98533.1|,
 |37682823|gb|AAQ98404.1|, |37682813|gb|AAQ98395.1|, |37682733|gb|AAQ98323.1|,
 |37682803|gb|AAQ98386.1|, |37682912|gb|AAQ98481.1|, |37683000|gb|AAQ98560.1|,
 |37683010|gb|AAQ98569.1|, |37682950|gb|AAQ98515.1|, |37682902|gb|AAQ98472.1|,
 |37683039|gb|AAQ98595.1|, |45361125|gb|AAS59343.1|, |2570331|gb|AAC32658.1|,
 |38491482|gb|AAR21894.1|, |3403218|gb|AAC29052.1|, |74315781|gb|ABA02503.1|,
 |74315751|gb|ABA02476.1|, |74315741|gb|ABA02467.1|, |74315734|gb|ABA02461.1|,
 |14290013|gb|AAK59198.1|, |38491901|gb|AAR22268.1|, |74315724|gb|ABA02452.1|,
 |18699151|gb|AAL78422.1|AF41, |18699143|gb|AAL78415.1|AF41,
 |18699136|gb|AAL78409.1|AF41, |18699133|gb|AAL78407.1|AF41,
 |78172853|gb|ABB29384.1|, |38491872|gb|AAR22242.1|, |70633600|gb|AAZ06079.1|,
 |70633596|gb|AAZ06077.1|, |70633598|gb|AAZ06078.1|, |38491843|gb|AAR22216.1|,
 |38491833|gb|AAR22207.1|, |38491911|gb|AAR22277.1|, |6016890|dbj|BAA85227.1|,

|62956397|gb|AAAY23529.1|, |62956388|gb|AAAY23521.1|, |62956378|gb|AAAY23512.1|,
 |1353863|gb|AAB36502.1|, |2570300|gb|AAC63081.1|, |4324899|gb|AAD17163.1|,
 |4324881|gb|AAD17145.1|, |4324890|gb|AAD17154.1|, |4324872|gb|AAD17136.1|,
 |4324863|gb|AAD17127.1|, |4324848|gb|AAD17112.1|, |4324749|gb|AAD17013.1|,
 |4324740|gb|AAD17004.1|, |4324758|gb|AAD17022.1|, |78172826|gb|ABB29360.1|,
 |4324809|gb|AAD17073.1|, |45361077|gb|AAS59307.1|, |4324833|gb|AAD17097.1|,
 |57901090|gb|AAW57856.1|, |45361091|gb|AAS59316.1|, |4324800|gb|AAD17064.1|,
 |4324784|gb|AAD17048.1|, |4324793|gb|AAD17057.1|, |4324775|gb|AAD17039.1|,
 |4324767|gb|AAD17031.1|, |5305356|gb|AAD41608.1|AF071, |4324918|gb|AAD17182.1|,
 |4324912|gb|AAD17176.1|, |4324906|gb|AAD17170.1|, |62946403|gb|AAAY22380.1|,
 |8920154|emb|CAB96340.1|, |14041624|emb|CAC38390.1|, |3287123|emb|CAA75957.1|,
 |3287082|emb|CAA75937.1|, |3287164|emb|CAA75985.1|, |3287128|emb|CAA75961.1|,
 |3287159|emb|CAA75981.1|, |3287143|emb|CAA75973.1|, |3287148|emb|CAA75977.1|,
 |3287103|emb|CAA75941.1|, |3287108|emb|CAA75945.1|, |45644391|gb|AAS72945.1|,
 |3287118|emb|CAA75953.1|, |3287113|emb|CAA75949.1|, |3287138|emb|CAA75969.1|,
 |51599132|gb|AAU08217.1|, |51599141|gb|AAU08225.1|, |3287077|emb|CAA75933.1|,
 |3287133|emb|CAA75965.1|, |52421748|gb|AAU45384.1|, |52421743|gb|AAU45382.1|,
 |22596340|gb|AAN03120.1|AF45, |22596320|gb|AAN03102.1|AF45,
 |41353554|gb|AAS01341.1|, |22596295|gb|AAN03080.1|AF45,
 |22596556|gb|AAN03312.1|AF45, |328907|gb|AAA75020.1|,
 |22596411|gb|AAN03183.1|AF45, |22596224|gb|AAN03017.1|AF45,
 |7452911|emb|CAB86376.1|, |13517085|dbj|BAB40423.1|, |25807939|gb|AAN74526.1|,
 |25807929|gb|AAN74517.1|, |7452901|emb|CAB86367.1|, |7331129|gb|AAF60287.1|AF233,
 |46405261|gb|AAS93489.1|, |46405259|gb|AAS93488.1|, |459517|emb|CAA83114.1|,
 |4539049|emb|CAB39739.1|, |4539036|emb|CAB39918.1|, |19908409|gb|AAL96764.1|,
 |23394929|gb|AAN31650.1|, |22297042|gb|AAM94498.1|,
 |82318409|sp|Q6JNH2|Q6JNH2_9, |7188636|gb|AAF37823.1|AF215,
 |28933404|gb|AAO62618.1|AF46, |23394921|gb|AAN31643.1|, |37682542|gb|AAQ98228.1|,
 |37682433|gb|AAQ98130.1|, |39777416|gb|AAR30994.1|, |22596433|gb|AAN03202.1|AF45,
 |22596466|gb|AAN03231.1|AF45, |22596566|gb|AAN03321.1|AF45,
 |22596456|gb|AAN03222.1|AF45, |22596380|gb|AAN03156.1|AF45,
 |22596330|gb|AAN03111.1|AF45, |22596264|gb|AAN03053.1|AF45,
 |22596486|gb|AAN03249.1|AF45, |22596536|gb|AAN03294.1|AF45,
 |22596506|gb|AAN03267.1|AF45, |39777436|gb|AAR31012.1|,
 |22596496|gb|AAN03258.1|AF45, |37682443|gb|AAQ98139.1|,
 |22596350|gb|AAN03129.1|AF45, |39777386|gb|AAR30967.1|, |39777376|gb|AAR30958.1|,
 |22596516|gb|AAN03276.1|AF45, |22596546|gb|AAN03303.1|AF45,
 |39777426|gb|AAR31003.1|, |71148570|gb|AAZ28901.1|, |22596274|gb|AAN03062.1|AF45,
 |22596390|gb|AAN03165.1|AF45, |22596370|gb|AAN03147.1|AF45,
 |37682522|gb|AAQ98210.1|, |22596421|gb|AAN03192.1|AF45,
 |22596285|gb|AAN03071.1|AF45, |22596476|gb|AAN03240.1|AF45,
 |22596400|gb|AAN03174.1|AF45, |22596244|gb|AAN03035.1|AF45,
 |22596446|gb|AAN03213.1|AF45, |22596360|gb|AAN03138.1|AF45,
 |37682532|gb|AAQ98219.1|, |22596234|gb|AAN03026.1|AF45, |66473532|gb|AAAY46412.1|,
 |46405339|gb|AAS93528.1|, |46405341|gb|AAS93529.1|, |7331131|gb|AAF60288.1|AF233,
 |29119326|gb|AAO63241.1|, |29119317|gb|AAO63233.1|, |16118376|gb|AAL12741.1|,
 |45360180|gb|AAS59214.1|, |16118396|gb|AAL12759.1|, |16118342|gb|AAL12711.1|,
 |16118330|gb|AAL12701.1|, |16118303|gb|AAL12678.1|, |45360170|gb|AAS59205.1|,

16118313 gb AAL12687.1 ,	45360150 gb AAS59187.1 ,	45360140 gb AAS59178.1 ,
16118366 gb AAL12732.1 ,	16118352 gb AAL12720.1 ,	45360211 gb AAS59242.1 ,
45360191 gb AAS59224.1 ,	71726044 gb AAZ39172.1 ,	16118338 gb AAL12708.1 ,
57648397 gb AAW55902.1 ,	57648395 gb AAW55901.1 ,	57648393 gb AAW55900.1 ,
57648403 gb AAW55905.1 ,	57648391 gb AAW55899.1 ,	57648389 gb AAW55898.1 ,
57648387 gb AAW55897.1 ,	57648399 gb AAW55903.1 ,	459626 emb CAA83174.1 ,
459455 emb CAA83082.1 ,	7416542 dbj BAA93916.1 ,	7416540 dbj BAA93915.1 ,
7416536 dbj BAA93913.1 ,	82308945 sp O42061 O42061_9 ,	7416578 dbj BAA93934.1 ,
7416572 dbj BAA93931.1 ,	7416576 dbj BAA93933.1 ,	7416574 dbj BAA93932.1 ,
7416580 dbj BAA93935.1 ,	82309077 sp O57303 O57303_9 ,	56417608 gb AAV90746.1 ,
459624 emb CAA83173.1 ,	459620 emb CAA83171.1 ,	16118386 gb AAL12750.1 ,
49472924 gb AAT66269.1 ,	16118293 gb AAL12669.1 ,	29119258 gb AAO63180.1 ,
46405301 gb AAS93509.1 ,	46405299 gb AAS93508.1 ,	24753963 gb AAN64088.1 ,
24753955 gb AAN64082.1 ,	46405255 gb AAS93486.1 ,	46405253 gb AAS93485.1 ,
459449 emb CAA83079.1 ,	459527 emb CAA83119.1 ,	16118273 gb AAL12651.1 ,
459507 emb CAA83109.1 ,	459459 emb CAA83084.1 ,	459493 emb CAA83102.1 ,
459485 emb CAA83098.1 ,	459513 emb CAA83112.1 ,	29119344 gb AAO63257.1 ,
459481 emb CAA83096.1 ,	3002842 gb AAD03201.1 ,	459473 emb CAA83092.1 ,
29119268 gb AAO63189.1 ,	459465 emb CAA83088.1 ,	1171167 gb AAA86248.1 ,
459483 emb CAA83097.1 ,	459632 emb CAA83133.1 ,	459539 emb CAA83085.1 ,
459463 emb CAA83086.1 ,	459479 emb CAA83095.1 ,	459489 emb CAA83100.1 ,
459487 emb CAA83099.1 ,	459525 emb CAA83118.1 ,	459622 emb CAA83172.1 ,
49472942 gb AAT66285.1 ,	459447 emb CAA83078.1 ,	23392825 emb CAD26952.1 ,
23392823 emb CAD26951.1 ,	459497 emb CAA83104.1 ,	29119288 gb AAO63207.1 ,
23392835 emb CAD26957.1 ,	23392833 emb CAD26956.1 ,	23392837 emb CAD26958.1 ,
459596 emb CAA83159.1 ,	459521 emb CAA83116.1 ,	3378124 gb AAC28447.1 ,
459469 emb CAA83090.1 ,	29119298 gb AAO63216.1 ,	23392849 emb CAD26964.1 ,
23392847 emb CAD26963.1 ,		23392845 emb CAD26962.1 ,
82312473 sp Q8AC00 Q8AC00_9 ,	11177289 gb AAG32214.1 ,	11177263 gb AAG32201.1 ,
11177269 gb AAG32204.1 ,	11177277 gb AAG32208.1 ,	11177228 gb AAG32185.1 ,
11177275 gb AAG32207.1 ,	11177273 gb AAG32206.1 ,	11177255 gb AAG32197.1 ,
11177251 gb AAG32195.1 ,	11177249 gb AAG32194.1 ,	11177240 gb AAG32190.1 ,
11177232 gb AAG32186.1 ,	11177247 gb AAG32193.1 ,	11177236 gb AAG32188.1 ,
11177234 gb AAG32187.1 ,	11177253 gb AAG32196.1 ,	11177242 gb AAG32191.1 ,
11177238 gb AAG32189.1 ,	11177245 gb AAG32192.1 ,	11177265 gb AAG32202.1 ,
11177224 gb AAG32183.1 ,	11177257 gb AAG32198.1 ,	11177283 gb AAG32211.1 ,
11177261 gb AAG32200.1 ,	11177226 gb AAG32184.1 ,	11177267 gb AAG32203.1 ,
11177285 gb AAG32212.1 ,	11177281 gb AAG32210.1 ,	11177279 gb AAG32209.1 ,
11177259 gb AAG32199.1 ,	11177271 gb AAG32205.1 ,	11177287 gb AAG32213.1 ,
7416634 dbj BAA93962.1 ,	7416632 dbj BAA93961.1 ,	7416630 dbj BAA93960.1 ,
7416546 dbj BAA93918.1 ,	7416544 dbj BAA93917.1 ,	3002832 gb AAD03192.1 ,
459495 emb CAA83103.1 ,	11177315 gb AAG32227.1 ,	11177311 gb AAG32225.1 ,
11177307 gb AAG32223.1 ,	11177299 gb AAG32219.1 ,	11177295 gb AAG32217.1 ,
11177291 gb AAG32215.1 ,	11177301 gb AAG32220.1 ,	11177309 gb AAG32224.1 ,
11177305 gb AAG32222.1 ,	11177303 gb AAG32221.1 ,	11177297 gb AAG32218.1 ,
11177293 gb AAG32216.1 ,	11177313 gb AAG32226.1 ,	48762715 gb AAS93515.2 ,
48686726 gb AAS93520.2 ,	46405325 gb AAS93521.1 ,	46405365 gb AAS93541.1 ,
46405305 gb AAS93511.1 ,	46405303 gb AAS93510.1 ,	46405265 gb AAS93491.1 ,

46405263 gb AAS93490.1 ,	46405311 gb AAS93514.1 ,	46405317 gb AAS93517.1 ,
46405315 gb AAS93516.1 ,	46405269 gb AAS93493.1 ,	46405267 gb AAS93492.1 ,
46405355 gb AAS93536.1 ,	46405351 gb AAS93534.1 ,	46405353 gb AAS93535.1 ,
46405275 gb AAS93496.1 ,	46405273 gb AAS93495.1 ,	46405321 gb AAS93519.1 ,
46405319 gb AAS93518.1 ,	46405309 gb AAS93513.1 ,	46405307 gb AAS93512.1 ,
46405247 gb AAS93482.1 ,	46405175 gb AAS93447.1 ,	46405171 gb AAS93445.1 ,
46405173 gb AAS93446.1 ,	46405243 gb AAS93480.1 ,	46405241 gb AAS93479.1 ,
46405245 gb AAS93481.1 ,	46405209 gb AAS93464.1 ,	46405207 gb AAS93463.1 ,
46405165 gb AAS93442.1 ,	46405195 gb AAS93457.1 ,	46405193 gb AAS93456.1 ,
46405205 gb AAS93462.1 ,	46405203 gb AAS93461.1 ,	46405163 gb AAS93441.1 ,
46405161 gb AAS93440.1 ,	46405217 gb AAS93468.1 ,	46405215 gb AAS93467.1 ,
46405169 gb AAS93444.1 ,	46405167 gb AAS93443.1 ,	48686723 gb AAS93483.2 ,
46405251 gb AAS93484.1 ,	46405232 gb AAS93475.1 ,	46405183 gb AAS93451.1 ,
46405199 gb AAS93459.1 ,	46405197 gb AAS93458.1 ,	46405201 gb AAS93460.1 ,
46405237 gb AAS93477.1 ,	46405225 gb AAS93472.1 ,	46405223 gb AAS93471.1 ,
46405229 gb AAS93474.1 ,	46405227 gb AAS93473.1 ,	46405239 gb AAS93478.1 ,
46405221 gb AAS93470.1 ,	46405219 gb AAS93469.1 ,	46405281 gb AAS93499.1 ,
46405279 gb AAS93498.1 ,	46405277 gb AAS93497.1 ,	46405213 gb AAS93466.1 ,
46405211 gb AAS93465.1 ,	46405329 gb AAS93523.1 ,	46405327 gb AAS93522.1 ,
46405235 gb AAS93476.1 ,	46405349 gb AAS93533.1 ,	46405347 gb AAS93532.1 ,
46405343 gb AAS93530.1 ,	46405345 gb AAS93531.1 ,	46405191 gb AAS93455.1 ,
46405187 gb AAS93453.1 ,	46405189 gb AAS93454.1 ,	46405185 gb AAS93452.1 ,
46405271 gb AAS93494.1 ,	46405359 gb AAS93538.1 ,	46405357 gb AAS93537.1 ,
46405337 gb AAS93527.1 ,	46405335 gb AAS93526.1 ,	46405333 gb AAS93525.1 ,
46405331 gb AAS93524.1 ,	46405297 gb AAS93507.1 ,	46405293 gb AAS93505.1 ,
46405295 gb AAS93506.1 ,	46405291 gb AAS93504.1 ,	46405289 gb AAS93503.1 ,
46405287 gb AAS93502.1 ,	46405285 gb AAS93501.1 ,	46405283 gb AAS93500.1 ,
46405181 gb AAS93450.1 ,	46405179 gb AAS93449.1 ,	46405177 gb AAS93448.1 ,
71725984 gb AAZ39118.1 ,	71725974 gb AAZ39109.1 ,	71726024 gb AAZ39154.1 ,
71726014 gb AAZ39145.1 ,	71726004 gb AAZ39136.1 ,	17981621 gb AAL51091.1 ,
459602 emb CAA83162.1 ,	459600 emb CAA83161.1 ,	459604 emb CAA83163.1 ,
23392829 emb CAD26954.1 ,	23392827 emb CAD26953.1 ,	23392831 emb CAD26955.1 ,
23396014 emb CAD27178.1 ,	23392853 emb CAD26966.1 ,	23392851 emb CAD26965.1 ,
23392855 emb CAD26967.1 ,	29119340 gb AAO63254.1 ,	459519 emb CAA83115.1 ,
459610 emb CAA83166.1 ,	7416620 dbj BAA93955.1 ,	7416618 dbj BAA93954.1 ,
7416616 dbj BAA93953.1 ,	7416614 dbj BAA93952.1 ,	7416612 dbj BAA93951.1 ,
7416560 dbj BAA93925.1 ,	7416558 dbj BAA93924.1 ,	459509 emb CAA83110.1 ,
1465780 gb AAB05600.1 ,	459501 emb CAA83106.1 ,	459499 emb CAA83105.1 ,
46405257 gb AAS93487.1 ,	459505 emb CAA83108.1 ,	459616 emb CAA83169.1 ,
459614 emb CAA83168.1 ,	459471 emb CAA83091.1 ,	7416588 dbj BAA93939.1 ,
7416586 dbj BAA93938.1 ,	7416582 dbj BAA93936.1 ,	459491 emb CAA83101.1 ,
459606 emb CAA83164.1 ,	459475 emb CAA83093.1 ,	71726034 gb AAZ39163.1 ,
16118283 gb AAL12660.1 ,	71725994 gb AAZ39127.1 ,	71725964 gb AAZ39100.1 ,
71725954 gb AAZ39091.1 ,	45360201 gb AAS59233.1 ,	45360160 gb AAS59196.1 ,
49472951 gb AAT66293.1 ,	459467 emb CAA83089.1 ,	7416626 dbj BAA93958.1 ,
7416622 dbj BAA93956.1 ,	7416624 dbj BAA93957.1 ,	7416628 dbj BAA93959.1 ,
7416594 dbj BAA93942.1 ,	7416590 dbj BAA93940.1 ,	7416570 dbj BAA93930.1 ,
7416564 dbj BAA93927.1 ,	7416568 dbj BAA93929.1 ,	7416566 dbj BAA93928.1 ,

|7416562|dbj|BAA93926.1|, |7416554|dbj|BAA93922.1|, |7416552|dbj|BAA93921.1|,
 |7416556|dbj|BAA93923.1|, |7416550|dbj|BAA93920.1|, |459618|emb|CAA83170.1|,
 |459457|emb|CAA83083.1|, |459511|emb|CAA83111.1|, |459451|emb|CAA83080.1|,
 |459630|emb|CAA83176.1|, |818217|gb|AAB47929.1|, |459612|emb|CAA83167.1|,
 |46405363|gb|AAS93540.1|, |46405361|gb|AAS93539.1|, |459598|emb|CAA83160.1|,
 |11177209|gb|AAG32182.1|, |11177184|gb|AAG32170.1|, |11177204|gb|AAG32180.1|,
 |11177188|gb|AAG32172.1|, |11177206|gb|AAG32181.1|, |11177202|gb|AAG32179.1|,
 |11177190|gb|AAG32173.1|, |11177198|gb|AAG32177.1|, |11177186|gb|AAG32171.1|,
 |11177182|gb|AAG32169.1|, |11177200|gb|AAG32178.1|, |11177194|gb|AAG32175.1|,
 |11177196|gb|AAG32176.1|, |11177192|gb|AAG32174.1|, |82309078|sp|O57309|O57309_9,
 |29119307|gb|AAO63224.1|, |24753985|gb|AAN64106.1|, |24753974|gb|AAN64097.1|,
 |24753996|gb|AAN64115.1|, |24754006|gb|AAN64124.1|, |29119278|gb|AAO63198.1|,
 |7416598|dbj|BAA93944.1|, |7416596|dbj|BAA93943.1|, |7416600|dbj|BAA93945.1|,
 |459608|emb|CAA83165.1|, |459523|emb|CAA83117.1|, |459515|emb|CAA83113.1|,
 |459503|emb|CAA83107.1|, |459628|emb|CAA83175.1|, |459461|emb|CAA83087.1|,
 |459477|emb|CAA83094.1|, |459453|emb|CAA83081.1|, |23392843|emb|CAD26961.1|,
 |23392839|emb|CAD26959.1|, |23392841|emb|CAD26960.1|, |7416610|dbj|BAA93950.1|,
 |7416608|dbj|BAA93949.1|, |7416604|dbj|BAA93947.1|, |7416602|dbj|BAA93946.1|,
 |7416606|dbj|BAA93948.1|, |25166993|gb|AAN73765.1|AF48, |37682492|gb|AAQ98183.1|,
 |25166743|gb|AAN73540.1|AF48, |22596576|gb|AAN03330.1|AF45,
 |39777396|gb|AAR30976.1|, |39777406|gb|AAR30985.1|, |82571311|gb|ABB84078.1|,
 |73913776|gb|AAZ91759.1|, |37682601|gb|AAQ98281.1|, |82571232|gb|ABB84007.1|,
 |73913894|gb|AAZ91865.1|, |82571381|gb|ABB84141.1|, |82571398|gb|ABB84156.1|,
 |73913933|gb|AAZ91900.1|, |82571242|gb|ABB84016.1|, |73913967|gb|AAZ91930.1|,
 |82571252|gb|ABB84025.1|, |73913796|gb|AAZ91777.1|, |82571331|gb|ABB84096.1|,
 |73913786|gb|AAZ91768.1|, |32261506|gb|AAP76566.1|, |82571213|gb|ABB83990.1|,
 |82571301|gb|ABB84069.1|, |73913806|gb|AAZ91786.1|, |3252969|gb|AAD12116.1|,
 |3252929|gb|AAD12080.1|, |3252939|gb|AAD12089.1|, |82571321|gb|ABB84087.1|,
 |82571222|gb|ABB83998.1|, |73913875|gb|AAZ91848.1|, |73913825|gb|AAZ91803.1|,
 |73913855|gb|AAZ91830.1|, |73913815|gb|AAZ91794.1|, |82571203|gb|ABB83981.1|,
 |82571193|gb|ABB83972.1|, |82571291|gb|ABB84060.1|, |73913923|gb|AAZ91891.1|,
 |82571408|gb|ABB84165.1|, |82318458|sp|Q98VH0|Q98VH0_9, |32261467|gb|AAP76531.1|,
 |37682591|gb|AAQ98272.1|, |37682552|gb|AAQ98237.1|, |82571361|gb|ABB84123.1|,
 |82571351|gb|ABB84114.1|, |82571281|gb|ABB84051.1|, |82571341|gb|ABB84105.1|,
 |73913865|gb|AAZ91839.1|, |22596254|gb|AAN03044.1|AF45, |73913904|gb|AAZ91874.1|,
 |82571371|gb|ABB84132.1|, |73913995|gb|AAZ91955.1|, |37682483|gb|AAQ98175.1|,
 |32261497|gb|AAP76558.1|, |22596526|gb|AAN03285.1|AF45, |2194189|gb|AAB61127.1|,
 |63081179|gb|AAZ91839.1|, |37682473|gb|AAQ98166.1|, |37682512|gb|AAQ98201.1|,
 |37682463|gb|AAQ98157.1|, |32261487|gb|AAP76549.1|, |32261458|gb|AAP76523.1|,
 |22596310|gb|AAN03093.1|AF45, |37682412|gb|AAQ98111.1|, |82571271|gb|ABB84042.1|,
 |82571262|gb|ABB84034.1|, |73913835|gb|AAZ91812.1|, |37682502|gb|AAQ98192.1|,
 |32261477|gb|AAP76540.1|, |73913845|gb|AAZ91821.1|, |73913914|gb|AAZ91883.1|,
 |37682453|gb|AAQ98148.1|, |37682423|gb|AAQ98121.1|, |73913977|gb|AAZ91939.1|,
 |37682581|gb|AAQ98263.1|, |37682571|gb|AAQ98254.1|, |37682562|gb|AAQ98246.1|,
 |5305569|gb|AAD41704.1|AF097, |5305561|gb|AAD41697.1|AF097,
 |5305577|gb|AAD41711.1|AF097, |14041638|emb|CAC38422.1|,
 |14041628|emb|CAC38431.1|, |37935971|gb|AAO47209.1|, |37935901|gb|AAO47147.1|,
 |37935892|gb|AAO47139.1|, |37935872|gb|AAO47122.1|, |37935852|gb|AAO47104.1|,

|37935842|gb|AAO47095.1|, |37935912|gb|AAO47156.1|, |37935932|gb|AAO47174.1|,
 |37935952|gb|AAO47192.1|, |37935922|gb|AAO47165.1|, |37935961|gb|AAO47200.1|,
 |37935981|gb|AAO47218.1|, |37935881|gb|AAO47130.1|, |37935942|gb|AAO47183.1|,
 |37935862|gb|AAO47113.1|, |41223201|emb|CAD92650.1|, |47027390|gb|AAT08770.1|,
 |46243166|gb|AAS83692.1|, |46243156|gb|AAS83683.1|, |9368371|emb|CAB98188.1|,
 |6643028|gb|AAF20389.1|, |37496492|emb|CAD48449.1|, |5738568|emb|CAB53044.1|,
 |9368381|emb|CAB98170.1|, |3779263|gb|AAD03311.1|, |29409316|gb|AAM67394.1|,
 |29409309|gb|AAM67388.1|, |71794577|emb|CAI28819.1|,
 |22532133|gb|AAM97845.1|AF46, |38679143|gb|AAR26397.1|, |38679134|gb|AAR26389.1|,
 |24181480|gb|AAN47102.1|, |4336341|gb|AAD17767.1|, |4336332|gb|AAD17758.1|,
 |5019906|gb|AAD37900.1|, |5019878|gb|AAD37872.1|, |57869600|gb|AAW57647.1|,
 |5019905|gb|AAD37899.1|, |5019898|gb|AAD37892.1|, |30027256|gb|AAP06259.1|,
 |11095913|gb|AAG30117.1|AF28, |3694863|gb|AAC62477.1|, |3002879|gb|AAD03234.1|,
 |57869571|gb|AAW57621.1|, |5019890|gb|AAD37884.1|, |5019875|gb|AAD37869.1|,
 |5019871|gb|AAD37865.1|, |5019870|gb|AAD37864.1|, |2286136|gb|AAB64282.1|,
 |2286127|gb|AAB64274.1|, |15407026|gb|AAG41567.1|, |15407024|gb|AAG41566.1|,
 |15407021|gb|AAG41565.1|, |32261283|gb|AAP74182.1|, |32261272|gb|AAP74172.1|,
 |32261262|gb|AAP74163.1|, |5019919|gb|AAD37913.1|, |5019915|gb|AAD37909.1|,
 |5019877|gb|AAD37871.1|, |5019910|gb|AAD37904.1|, |6910970|gb|AAF31321.1|AF146,
 |5019916|gb|AAD37910.1|, |5019904|gb|AAD37898.1|, |5019912|gb|AAD37906.1|,
 |5019883|gb|AAD37877.1|, |5019914|gb|AAD37908.1|, |5019900|gb|AAD37894.1|,
 |5019897|gb|AAD37891.1|, |5019888|gb|AAD37882.1|, |5019891|gb|AAD37885.1|,
 |5019917|gb|AAD37911.1|, |5019913|gb|AAD37907.1|, |5019894|gb|AAD37888.1|,
 |5019892|gb|AAD37886.1|, |5019907|gb|AAD37901.1|, |5019903|gb|AAD37897.1|,
 |40021885|gb|AAR37195.1|, |40021825|gb|AAR37153.1|, |40021805|gb|AAR37139.1|,
 |40021775|gb|AAR37118.1|, |40021765|gb|AAR37111.1|, |40021735|gb|AAR37090.1|,
 |40021715|gb|AAR37076.1|, |40021865|gb|AAR37181.1|, |40021725|gb|AAR37083.1|,
 |40021795|gb|AAR37132.1|, |40021695|gb|AAR37062.1|, |40021845|gb|AAR37167.1|,
 |40021755|gb|AAR37104.1|, |40021855|gb|AAR37174.1|, |40021705|gb|AAR37069.1|,
 |40021745|gb|AAR37097.1|, |40021835|gb|AAR37160.1|, |40021815|gb|AAR37146.1|,
 |40021875|gb|AAR37188.1|, |5019889|gb|AAD37883.1|, |5019882|gb|AAD37876.1|,
 |5019895|gb|AAD37889.1|, |5019873|gb|AAD37867.1|, |5019887|gb|AAD37881.1|,
 |5019886|gb|AAD37880.1|, |5019901|gb|AAD37895.1|, |5019902|gb|AAD37896.1|,
 |5019880|gb|AAD37874.1|, |5019918|gb|AAD37912.1|, |5019879|gb|AAD37873.1|,
 |5019911|gb|AAD37905.1|, |5019876|gb|AAD37870.1|, |6651482|gb|AAF22330.1|AF193,
 |6651475|gb|AAF22323.1|AF193, |5019872|gb|AAD37866.1|, |3002870|gb|AAD03226.1|,
 |5019909|gb|AAD37903.1|, |5019899|gb|AAD37893.1|, |5019893|gb|AAD37887.1|,
 |5019896|gb|AAD37890.1|, |5019881|gb|AAD37875.1|, |5019874|gb|AAD37868.1|,
 |5019884|gb|AAD37878.1|, |57869581|gb|AAW57630.1|, |3002888|gb|AAD03242.1|,
 |3002852|gb|AAD03210.1|, |3002861|gb|AAD03218.1|, |57869562|gb|AAW57613.1|,
 |14269049|gb|AAK58006.1|AF36, |31559692|dbj|BAC77513.1|, |11761312|dbj|BAB19247.1|,
 |11761305|dbj|BAB19241.1|, |26518639|gb|AAN83913.1|, |31559616|dbj|BAC77445.1|,
 |31559664|dbj|BAC77488.1|, |34811836|gb|AAO40779.1|, |5019908|gb|AAD37902.1|,
 |55925129|gb|AAV67934.1|, |55925121|gb|AAV67927.1|, |55925113|gb|AAV67920.1|,
 |55925137|gb|AAV67941.1|, |15407136|gb|AAG41570.1|, |15407132|gb|AAG41568.1|,
 |15407134|gb|AAG41569.1|, |32189801|gb|AAP75712.1|, |30038316|gb|AAP12629.1|,
 |19072106|dbj|BAB85753.1|, |55740248|gb|AAV63820.1|, |55740228|gb|AAV63802.1|,
 |55740238|gb|AAV63811.1|, |18074001|emb|CAC86566.1|,

|25166893|gb|AAN73675.1|AF48, |5668913|gb|AAD46067.1|AF076,
 |17902150|gb|AAL47813.1|, |17864053|gb|AAL47046.1|, |17902128|gb|AAL47795.1|,
 |17902117|gb|AAL47786.1|, |17902106|gb|AAL47777.1|, |17864033|gb|AAL47028.1|,
 |17902139|gb|AAL47804.1|, |17902095|gb|AAL47768.1|, |17864043|gb|AAL47037.1|,
 |62361771|gb|AAX81419.1|, |71794625|emb|CAI28864.1|, |71794615|emb|CAI28855.1|,
 |71794606|emb|CAI28846.1|, |71794597|emb|CAI28837.1|, |37496484|emb|CAD48442.1|,
 |7321146|emb|CAB82228.1|, |7321136|emb|CAB82219.1|, |25166641|gb|AAN73449.1|AF48,
 |38679151|gb|AAR26404.1|, |25166943|gb|AAN73720.1|AF48,
 |15281442|gb|AAK94230.1|AF36, |57869544|gb|AAW57597.1|,
 |15281432|gb|AAK94221.1|AF36, |31980438|dbj|BAC77757.1|, |31980428|dbj|BAC77748.1|,
 |25166923|gb|AAN73702.1|AF48, |25166973|gb|AAN73747.1|AF48,
 |25166681|gb|AAN73485.1|AF48, |31980418|dbj|BAC77739.1|, |31980408|dbj|BAC77730.1|,
 |25166783|gb|AAN73576.1|AF48, |25166763|gb|AAN73558.1|AF48,
 |7657891|emb|CAB89145.1|, |33390881|gb|AAQ17100.1|, |1732477|gb|AAB38825.1|,
 |3676491|gb|AAC61995.1|, |62467713|gb|AAX83967.1|, |62467704|gb|AAX83959.1|,
 |15982650|gb|AAL09938.1|, |56609329|gb|AAW03281.1|, |56609263|gb|AAW03222.1|,
 |56609243|gb|AAW03204.1|, |56609303|gb|AAW03258.1|, |56609323|gb|AAW03276.1|,
 |56609293|gb|AAW03249.1|, |56609273|gb|AAW03231.1|, |56609313|gb|AAW03267.1|,
 |25166883|gb|AAN73666.1|AF48, |33331477|gb|AAQ10921.1|, |33331457|gb|AAQ10903.1|,
 |33331467|gb|AAQ10912.1|, |37496500|emb|CAD48456.1|,
 |25166863|gb|AAN73648.1|AF48, |57869722|gb|AAW57756.1|, |1732487|gb|AAB38834.1|,
 |11066500|gb|AAG28615.1|AF25, |11066490|gb|AAG28606.1|AF25,
 |7715904|gb|AAF68194.1|, |7715899|gb|AAF68190.1|, |7715894|gb|AAF68186.1|,
 |7715887|gb|AAF68181.1|, |7715891|gb|AAF68184.1|, |33328322|gb|AAQ09611.1|,
 |57869686|gb|AAW57724.1|, |18844739|dbj|BAB85461.1|, |18844729|dbj|BAB85452.1|,
 |33328200|gb|AAQ09548.1|, |57869676|gb|AAW57715.1|, |57869695|gb|AAW57732.1|,
 |57869713|gb|AAW57748.1|, |23194121|gb|AAN15029.1|, |57869704|gb|AAW57740.1|,
 |31559682|dbj|BAC77504.1|, |33328190|gb|AAQ09539.1|, |31559634|dbj|BAC77461.1|,
 |57869666|gb|AAW57706.1|, |57869731|gb|AAW57764.1|,
 |14530265|gb|AAK65995.1|AF31, |56609340|gb|AAW03290.1|,
 |56609253|gb|AAW03213.1|, |56609283|gb|AAW03240.1|,
 |14530247|gb|AAK65979.1|AF28, |14530239|gb|AAK65972.1|AF28,
 |14530256|gb|AAK65987.1|AF28, |14530229|gb|AAK65963.1|AF28,
 |51950722|gb|AAU14914.1|, |51950712|gb|AAU14905.1|, |71794587|emb|CAI28828.1|,
 |18073403|emb|CAC87994.1|, |15209254|emb|CAC51033.1|, |18073413|emb|CAC88003.1|,
 |22532294|gb|AAM97887.1|AF49, |22532284|gb|AAM97878.1|AF49,
 |59003610|gb|AAW83611.1|, |12957276|gb|AAK09121.1|AF32, |38892700|gb|AAR27699.1|,
 |73913756|gb|AAZ91741.1|, |55139310|gb|AAV41328.1|, |67553053|gb|AAZ91750.1|,
 |58220991|gb|AAW68170.1|, |63098335|gb|AAZ91741.1|, |67553053|gb|AAZ91750.1|,
 |12957264|gb|AAK09111.1|AF32, |63098432|gb|AAZ91741.1|, |67553053|gb|AAZ91750.1|,
 |37909404|gb|AAO65565.1|, |58220962|gb|AAW68144.1|, |12957324|gb|AAK09161.1|AF32,
 |63098307|gb|AAZ91741.1|, |11321030|gb|AAG34021.1|, |11321010|gb|AAG34003.1|,
 |11321020|gb|AAG34012.1|, |11321000|gb|AAG33994.1|, |13569290|gb|AAK31028.1|AF28,
 |58220942|gb|AAW68126.1|, |67552978|gb|AAZ91741.1|, |67552988|gb|AAZ91750.1|,
 |38892647|gb|AAR27652.1|, |51572106|gb|AAU06755.1|, |58220922|gb|AAW68108.1|,
 |18643012|gb|AAL74047.1|, |38892738|gb|AAR27733.1|, |68522036|gb|AAZ91750.1|,
 |46486629|gb|AAS98736.1|, |12957294|gb|AAK09136.1|AF32,
 |12957282|gb|AAK09126.1|AF32, |55139273|gb|AAV41295.1|, |73913766|gb|AAZ91750.1|,

|67553016|gb|AAAY68611.1|, |63098325|gb|AAAY32374.1|, |51572096|gb|AAU06746.1|,
 |58220892|gb|AAW68081.1|, |59003649|gb|AAW83646.1|, |59003510|gb|AAW83521.1|,
 |58221029|gb|AAW68204.1|, |63098392|gb|AAAY32434.1|, |38892691|gb|AAR27691.1|,
 |38892756|gb|AAR27749.1|, |67553024|gb|AAAY68618.1|, |63098422|gb|AAAY32461.1|,
 |58220872|gb|AAW68063.1|, |57869627|gb|AAW57671.1|, |68522146|gb|AAAY98732.1|,
 |59003620|gb|AAW83620.1|, |38892682|gb|AAR27683.1|, |38892656|gb|AAR27660.1|,
 |68522086|gb|AAAY98678.1|, |67552998|gb|AAAY68595.1|, |38892601|gb|AAR27611.1|,
 |68521996|gb|AAAY98597.1|, |67553103|gb|AAAY68689.1|, |58220912|gb|AAW68099.1|,
 |63098412|gb|AAAY32452.1|, |55139331|gb|AAV41346.1|, |55139263|gb|AAV41286.1|,
 |38892718|gb|AAR27715.1|, |58220882|gb|AAW68072.1|, |59003570|gb|AAW83575.1|,
 |12957336|gb|AAK09171.1|AF32, |12957330|gb|AAK09166.1|AF32,
 |55139351|gb|AAV41364.1|, |59003560|gb|AAW83566.1|, |58220932|gb|AAW68117.1|,
 |13569320|gb|AAK31055.1|AF28, |38892728|gb|AAR27724.1|, |68521956|gb|AAAY98561.1|,
 |58220862|gb|AAW68054.1|, |68522006|gb|AAAY98606.1|, |24181490|gb|AAN47111.1|,
 |13569220|gb|AAK30965.1|AF28, |38892664|gb|AAR27667.1|, |55139254|gb|AAV41278.1|,
 |12957288|gb|AAK09131.1|AF32, |68521986|gb|AAAY98588.1|, |67553083|gb|AAAY68671.1|,
 |58220972|gb|AAW68153.1|, |15281501|gb|AAK94283.1|AF36,
 |59003590|gb|AAW83593.1|, |59003530|gb|AAW83539.1|, |68522016|gb|AAAY98615.1|,
 |68521966|gb|AAAY98570.1|, |15281472|gb|AAK94257.1|AF36,
 |13569210|gb|AAK30956.1|AF28, |57869619|gb|AAW57664.1|,
 |13569270|gb|AAK31010.1|AF28, |13569280|gb|AAK31019.1|AF28,
 |13569240|gb|AAK30983.1|AF28, |30269368|gb|AAP29646.1|, |31559644|dbj|BAC77470.1|,
 |11761285|dbj|BAB19224.1|, |11761282|dbj|BAB19222.1|, |11761298|dbj|BAB19235.1|,
 |11761275|dbj|BAB19216.1|, |31559672|dbj|BAC77495.1|, |31559654|dbj|BAC77479.1|,
 |31559626|dbj|BAC77454.1|, |11761268|dbj|BAB19210.1|, |30720409|gb|AAP33677.1|,
 |13569300|gb|AAK31037.1|AF28, |23986253|gb|AAL12202.1|, |23986209|gb|AAL12175.1|,
 |23986237|gb|AAL12193.1|, |23986223|gb|AAL12184.1|, |58220902|gb|AAW68090.1|,
 |63098364|gb|AAAY32409.1|, |68522096|gb|AAAY98687.1|, |15281491|gb|AAK94274.1|AF36,
 |63098297|gb|AAAY32349.1|, |13569250|gb|AAK30992.1|AF28, |58221019|gb|AAW68195.1|,
 |59003629|gb|AAW83628.1|, |32344838|gb|AAM82294.1|, |16751251|gb|AAL05327.1|,
 |55139281|gb|AAV41302.1|, |38892621|gb|AAR27629.1|, |38892611|gb|AAR27620.1|,
 |63098373|gb|AAAY32417.1|, |59003540|gb|AAW83548.1|, |12957372|gb|AAK09201.1|AF32,
 |12957366|gb|AAK09196.1|AF32, |46486648|gb|AAS98753.1|, |24181500|gb|AAN47120.1|,
 |58221039|gb|AAW68213.1|, |16751261|gb|AAL05336.1|, |38892784|gb|AAR27774.1|,
 |38892638|gb|AAR27644.1|, |38892628|gb|AAR27635.1|, |38892765|gb|AAR27757.1|,
 |63098354|gb|AAAY32400.1|, |68522066|gb|AAAY98660.1|, |58220952|gb|AAW68135.1|,
 |68521936|gb|AAAY98543.1|, |46486656|gb|AAS98760.1|, |16751241|gb|AAL05318.1|,
 |38892775|gb|AAR27766.1|, |55139342|gb|AAV41356.1|, |59003600|gb|AAW83602.1|,
 |26000256|gb|AAN75291.1|, |12957246|gb|AAK09096.1|AF32, |51572115|gb|AAU06763.1|,
 |68522126|gb|AAAY98714.1|, |63098345|gb|AAAY32392.1|, |51572125|gb|AAU06772.1|,
 |57869637|gb|AAW57680.1|, |68522116|gb|AAAY98705.1|, |13569330|gb|AAK31064.1|AF28,
 |68522076|gb|AAAY98669.1|, |59003550|gb|AAW83557.1|, |67553093|gb|AAAY68680.1|,
 |15281452|gb|AAK94239.1|AF36, |26000276|gb|AAN75309.1|,
 |12957318|gb|AAK09156.1|AF32, |12957360|gb|AAK09191.1|AF32,
 |12957354|gb|AAK09186.1|AF32, |12957252|gb|AAK09101.1|AF32,
 |68522046|gb|AAAY98642.1|, |12957312|gb|AAK09151.1|AF32, |48476375|gb|AAT44409.1|,
 |13569260|gb|AAK31001.1|AF28, |45738212|gb|AAS75871.1|,
 |13569230|gb|AAK30974.1|AF28, |38892672|gb|AAR27674.1|, |59003639|gb|AAW83637.1|,

|68522136|gb|AAAY98723.1|, |13569310|gb|AAK31046.1|AF28, |57869646|gb|AAW57688.1|,
 |67553063|gb|AAAY68653.1|, |67553073|gb|AAAY68662.1|, |57869610|gb|AAW57656.1|,
 |26000266|gb|AAN75300.1|, |63098402|gb|AAAY32443.1|, |68522056|gb|AAAY98651.1|,
 |59003580|gb|AAW83584.1|, |67553113|gb|AAAY68698.1|, |12957306|gb|AAK09146.1|AF32,
 |12957300|gb|AAK09141.1|AF32, |59003520|gb|AAW83530.1|,
 |58221001|gb|AAW68179.1|, |38892709|gb|AAR27707.1|, |68522026|gb|AAAY98624.1|,
 |57338565|gb|AAW49359.1|, |46486638|gb|AAS98744.1|, |63098382|gb|AAAY32425.1|,
 |59003659|gb|AAW83655.1|, |55139292|gb|AAV41312.1|, |68521946|gb|AAAY98552.1|,
 |67553007|gb|AAAY68603.1|, |12957348|gb|AAK09181.1|AF32,
 |12957342|gb|AAK09176.1|AF32, |67553033|gb|AAAY68626.1|, |59003669|gb|AAW83664.1|,
 |32344848|gb|AAM82303.1|, |12957258|gb|AAK09106.1|AF32, |57338557|gb|AAW49352.1|,
 |46486665|gb|AAS98768.1|, |55139322|gb|AAV41338.1|, |24181510|gb|AAN47129.1|,
 |68522106|gb|AAAY98696.1|, |45738222|gb|AAS75880.1|, |68522155|gb|AAAY98740.1|,
 |68521976|gb|AAAY98579.1|, |15281462|gb|AAK94248.1|AF36, |67553043|gb|AAAY68635.1|,
 |63098287|gb|AAAY32340.1|, |57869656|gb|AAW57697.1|, |25166983|gb|AAN73756.1|AF48,
 |25166913|gb|AAN73693.1|AF48, |25167003|gb|AAN73774.1|AF48,
 |25166873|gb|AAN73657.1|AF48, |25166853|gb|AAN73639.1|AF48,
 |25166823|gb|AAN73612.1|AF48, |25166723|gb|AAN73522.1|AF48,
 |25166631|gb|AAN73440.1|AF48, |25166963|gb|AAN73738.1|AF48,
 |25166773|gb|AAN73567.1|AF48, |25166671|gb|AAN73476.1|AF48,
 |32351104|gb|AAP76512.1|, |25167013|gb|AAN73783.1|AF48,
 |25166793|gb|AAN73585.1|AF48, |25166843|gb|AAN73630.1|AF48,
 |25166803|gb|AAN73594.1|AF48, |25166833|gb|AAN73621.1|AF48,
 |25167063|gb|AAN73828.1|AF48, |25166903|gb|AAN73684.1|AF48,
 |25166703|gb|AAN73504.1|AF48, |25167023|gb|AAN73792.1|AF48,
 |25166691|gb|AAN73494.1|AF48, |25166753|gb|AAN73549.1|AF48,
 |25167043|gb|AAN73810.1|AF48, |25166713|gb|AAN73513.1|AF48,
 |25166661|gb|AAN73467.1|AF48, |25167073|gb|AAN73837.1|AF48,
 |25167033|gb|AAN73801.1|AF48, |38679160|gb|AAR26412.1|,
 |25167053|gb|AAN73819.1|AF48, |25166813|gb|AAN73603.1|AF48,
 |25166953|gb|AAN73729.1|AF48, |25166733|gb|AAN73531.1|AF48,
 |25166651|gb|AAN73458.1|AF48, |15281482|gb|AAK94266.1|AF36,
 |15281422|gb|AAK94212.1|AF36, |5059052|gb|AAD38891.1|AF119,
 |5059043|gb|AAD38883.1|AF119, |1899135|gb|AAC57015.1|,
 |18699186|gb|AAL78446.1|AF41, |3403228|gb|AAC29061.1|, |62467718|gb|AAX83971.1|,
 |6690761|gb|AAF24320.1|AF197, |5931485|dbj|BAA84663.1|, |11761603|gb|AAG38931.1|,
 |11761563|gb|AAG38895.1|, |6690755|gb|AAF24314.1|AF197, |5931494|dbj|BAA84671.1|,
 |78100202|gb|ABB20905.1|, |6690776|gb|AAF24335.1|AF197,
 |6690769|gb|AAF24328.1|AF197, |4262339|gb|AAD14575.1|,
 |138506|sp|P24737|VIF_HV1U4, |3132813|gb|AAC29079.1|, |3132803|gb|AAC29070.1|,
 |82309894|sp|Q6PT01|Q6PT01_9, |46946861|gb|AAT06649.1|, |46946853|gb|AAT06642.1|,
 |46946846|gb|AAT06636.1|, |46946837|gb|AAT06628.1|, |46946828|gb|AAT06620.1|,
 |61102685|gb|AAX37811.1|, |1107648|emb|CAA62718.1|, |1107656|emb|CAA62725.1|,
 |1107654|emb|CAA62724.1|, |61102670|gb|AAX37798.1|, |1107612|emb|CAA62723.1|,
 |1107608|emb|CAA62720.1|, |61102662|gb|AAX37791.1|, |61102546|gb|AAX37691.1|,
 |1107620|emb|CAA62699.1|, |1107604|emb|CAA62713.1|, |1107602|emb|CAA62712.1|,
 |1107600|emb|CAA62711.1|, |1107598|emb|CAA62710.1|, |1890686|gb|AAC97543.1|,
 |61102619|gb|AAX37754.1|, |61102611|gb|AAX37747.1|, |61102562|gb|AAX37705.1|,

|61102554|gb|AAX37698.1|, |61102522|gb|AAX37670.1|, |1107652|emb|CAA62721.1|,
 |1107610|emb|CAA62722.1|, |1107632|emb|CAA62697.1|, |1107630|emb|CAA62704.1|,
 |61102538|gb|AAX37684.1|, |61102530|gb|AAX37677.1|, |60218866|gb|AAX14844.1|,
 |61102603|gb|AAX37740.1|, |61102595|gb|AAX37733.1|, |61102587|gb|AAX37726.1|,
 |17046744|gb|AAL34762.1|, |56193006|gb|AAV84111.1|, |17046574|gb|AAL34609.1|,
 |56193042|gb|AAV84129.1|, |56193093|gb|AAV84156.1|, |56193077|gb|AAV84147.1|,
 |56193059|gb|AAV84138.1|, |56193025|gb|AAV84120.1|, |17046764|gb|AAL34780.1|,
 |17046564|gb|AAL34600.1|, |17046910|gb|AAL34911.1|, |17046694|gb|AAL34717.1|,
 |17046774|gb|AAL34789.1|, |17046664|gb|AAL34690.1|, |17046644|gb|AAL34672.1|,
 |17046920|gb|AAL34920.1|, |17046654|gb|AAL34681.1|, |17046544|gb|AAL34582.1|,
 |17046514|gb|AAL34555.1|, |17046900|gb|AAL34902.1|, |17046594|gb|AAL34627.1|,
 |17046754|gb|AAL34771.1|, |17046674|gb|AAL34699.1|, |17046734|gb|AAL34753.1|,
 |17046584|gb|AAL34618.1|, |26245471|gb|AAN77399.1|, |26245461|gb|AAN77390.1|,
 |17046794|gb|AAL34807.1|, |17046614|gb|AAL34645.1|, |17046724|gb|AAL34744.1|,
 |3252959|gb|AAD12107.1|, |3252949|gb|AAD12098.1|, |17046850|gb|AAL34857.1|,
 |17046834|gb|AAL34843.1|, |3252921|gb|AAD12073.1|, |17046890|gb|AAL34893.1|,
 |17046840|gb|AAL34848.1|, |13172884|gb|AAK14232.1|, |17046870|gb|AAL34875.1|,
 |17046860|gb|AAL34866.1|, |17046704|gb|AAL34726.1|, |17046784|gb|AAL34798.1|,
 |17046554|gb|AAL34591.1|, |17046824|gb|AAL34834.1|, |17046604|gb|AAL34636.1|,
 |56131602|gb|AAV80382.1|, |17046814|gb|AAL34825.1|, |17046804|gb|AAL34816.1|,
 |17046534|gb|AAL34573.1|, |17046624|gb|AAL34654.1|, |17046880|gb|AAL34884.1|,
 |17046714|gb|AAL34735.1|, |17046634|gb|AAL34663.1|, |17046684|gb|AAL34708.1|,
 |26245451|gb|AAN77381.1|, |17046524|gb|AAL34564.1|, |3676483|gb|AAC61988.1|,
 |5668925|gb|AAD46077.1|AF076, |1127913|gb|AAA83802.1|, |1127911|gb|AAA83801.1|,
 |1127909|gb|AAA83800.1|, |1127905|gb|AAA83798.1|, |1127903|gb|AAA83797.1|,
 |1127907|gb|AAA83799.1|, |3193274|gb|AAD03327.1|, |1127954|gb|AAA83822.1|,
 |2843169|gb|AAC02322.1|, |2843157|gb|AAC02316.1|, |2843159|gb|AAC02317.1|,
 |2843143|gb|AAC02309.1|, |2843167|gb|AAC02321.1|, |2843165|gb|AAC02320.1|,
 |2843127|gb|AAC02301.1|, |2843137|gb|AAC02306.1|, |2843135|gb|AAC02305.1|,
 |2843141|gb|AAC02308.1|, |2843129|gb|AAC02302.1|, |2843139|gb|AAC02307.1|,
 |2843131|gb|AAC02303.1|, |2843133|gb|AAC02304.1|, |2843149|gb|AAC02312.1|,
 |2843163|gb|AAC02319.1|, |2843161|gb|AAC02318.1|, |2843153|gb|AAC02314.1|,
 |2843147|gb|AAC02311.1|, |2843155|gb|AAC02315.1|, |2843151|gb|AAC02313.1|,
 |2843145|gb|AAC02310.1|, |62291047|sp|P69724|VIF_HV1P,
 |62291045|sp|P69722|VIF_HV11, |62291043|sp|P69720|VIF_HV1B,
 |328556|gb|AAB59868.1|, |62291046|sp|P69723|VIF_HV1H,
 |62291044|sp|P69721|VIF_HV1B, |401363|sp|P31820|VIF_HV1NA,
 |138494|sp|P04598|VIF_HV1B5, |1127952|gb|AAA83821.1|, |1127873|gb|AAA83782.1|,
 |1127865|gb|AAA83778.1|, |1127871|gb|AAA83781.1|, |1127867|gb|AAA83779.1|,
 |1055032|gb|AAA81038.1|, |1127968|gb|AAA83829.1|, |82317065|sp|Q5U8A2|Q5U8A2_9,
 |62548190|gb|AAX86742.1|, |62548180|gb|AAX86733.1|, |62548200|gb|AAX86751.1|,
 |62548170|gb|AAX86724.1|, |62548160|gb|AAX86715.1|, |1772627|gb|AAC32295.1|,
 |82317952|sp|Q6EG63|Q6EG63_9, |37677796|gb|AAQ97472.1|, |37677786|gb|AAQ97463.1|,
 |549324|sp|P35964|VIF_HV1Y2, |138496|sp|P03402|VIF_HV1A2, |327816|gb|AAB03746.1|,
 |138497|sp|P20877|VIF_HV1JR, |1127956|gb|AAA83823.1|, |37725229|gb|AAR02293.1|,
 |37725219|gb|AAR02284.1|, |37725199|gb|AAR02266.1|, |37725189|gb|AAR02257.1|,
 |82310551|sp|Q6TEA8|Q6TEA8_9, |37725209|gb|AAR02275.1|, |37725239|gb|AAR02302.1|,
 |37725249|gb|AAR02311.1|, |221479|dbj|BAA00994.1|, |687903|gb|AAB31804.1|,

687902 gb AAB31803.1 ,	138502 sp P12504 VIF_HV1N5,	1127944 gb AAA83817.1 ,
1127937 gb AAA83814.1 ,	1127939 gb AAA83815.1 ,	1127931 gb AAA83811.1 ,
1127933 gb AAA83812.1 ,	1127917 gb AAA83804.1 ,	1127915 gb AAA83803.1 ,
1127929 gb AAA83810.1 ,	1127921 gb AAA83806.1 ,	1127919 gb AAA83805.1 ,
1127925 gb AAA83808.1 ,	138504 sp P05900 VIF_HV1RH,	2853529 gb AAC02398.1 ,
2853520 gb AAC02394.1 ,	2853525 gb AAC02396.1 ,	2853522 gb AAC02395.1 ,
2853513 gb AAC02391.1 ,	2853500 gb AAC02385.1 ,	2853490 gb AAC02380.1 ,
2853506 gb AAC02388.1 ,	2853516 gb AAC02392.1 ,	2853502 gb AAC02386.1 ,
2853496 gb AAC02383.1 ,	2853504 gb AAC02387.1 ,	2853527 gb AAC02397.1 ,
2853498 gb AAC02384.1 ,	2853492 gb AAC02381.1 ,	2853508 gb AAC02389.1 ,
2853494 gb AAC02382.1 ,	2853518 gb AAC02393.1 ,	2853510 gb AAC02390.1 ,
138503 sp P20890 VIF_HV1OY,	1127948 gb AAA83819.1 ,	54124751 gb AAV30092.1 ,
18699250 gb AAL78491.1 AF41,	2281655 gb AAB64165.1 ,	1127942 gb AAA83816.1 ,
37677766 gb AAQ97445.1 ,	37677756 gb AAQ97436.1 ,	1127897 gb AAA83794.1 ,
1127893 gb AAA83792.1 ,	1127891 gb AAA83791.1 ,	1127881 gb AAA83786.1 ,
1127889 gb AAA83790.1 ,	1127885 gb AAA83788.1 ,	1127895 gb AAA83793.1 ,
1127879 gb AAA83785.1 ,	1127877 gb AAA83784.1 ,	1127887 gb AAA83789.1 ,
1127883 gb AAA83787.1 ,	2853482 gb AAC02376.1 ,	2853462 gb AAC02366.1 ,
2853466 gb AAC02368.1 ,	2853464 gb AAC02367.1 ,	2853447 gb AAC02359.1 ,
2853455 gb AAC02363.1 ,	2853488 gb AAC02379.1 ,	2853468 gb AAC02369.1 ,
2853478 gb AAC02374.1 ,	2853476 gb AAC02373.1 ,	2853486 gb AAC02378.1 ,
2853443 gb AAC02357.1 ,	2853439 gb AAC02355.1 ,	2853457 gb AAC02364.1 ,
2853451 gb AAC02361.1 ,	2853474 gb AAC02372.1 ,	2853484 gb AAC02377.1 ,
2853472 gb AAC02371.1 ,	2853445 gb AAC02358.1 ,	2853453 gb AAC02362.1 ,
2853449 gb AAC02360.1 ,	2853480 gb AAC02375.1 ,	2853437 gb AAC02354.1 ,
2853441 gb AAC02356.1 ,	2853470 gb AAC02370.1 ,	2853459 gb AAC02365.1 ,
82317942 sp Q6EFW4 Q6EFW4_9,		37677906 gb AAQ97571.1 ,
37677896 gb AAQ97562.1 ,	37681533 gb AAQ97643.1 ,	37677776 gb AAQ97454.1 ,
36365546 gb AAQ86749.1 ,	36365510 gb AAQ86717.1 ,	36365438 gb AAQ86653.1 ,
36365411 gb AAQ86629.1 ,	36365456 gb AAQ86669.1 ,	36365429 gb AAQ86645.1 ,
36365420 gb AAQ86637.1 ,	36365402 gb AAQ86621.1 ,	36365393 gb AAQ86613.1 ,
36365375 gb AAQ86597.1 ,	36365384 gb AAQ86605.1 ,	36365537 gb AAQ86741.1 ,
36365447 gb AAQ86661.1 ,	36365483 gb AAQ86693.1 ,	36365465 gb AAQ86677.1 ,
36365501 gb AAQ86709.1 ,	36365492 gb AAQ86701.1 ,	36365474 gb AAQ86685.1 ,
36365528 gb AAQ86733.1 ,	36365519 gb AAQ86725.1 ,	47118232 gb AAT11230.1 ,
4205074 gb AAD10945.1 ,	4205047 gb AAD10921.1 ,	4205065 gb AAD10937.1 ,
4205056 gb AAD10929.1 ,	4204993 gb AAD10873.1 ,	4205020 gb AAD10897.1 ,
4205002 gb AAD10881.1 ,	4205011 gb AAD10889.1 ,	4205029 gb AAD10905.1 ,
4205038 gb AAD10913.1 ,	2853583 gb AAC02424.1 ,	2853535 gb AAC02401.1 ,
2853563 gb AAC02414.1 ,	2853546 gb AAC02406.1 ,	2853577 gb AAC02421.1 ,
2853581 gb AAC02423.1 ,	2853573 gb AAC02419.1 ,	2853556 gb AAC02411.1 ,
2853559 gb AAC02412.1 ,	2853554 gb AAC02410.1 ,	2853569 gb AAC02417.1 ,
2853544 gb AAC02405.1 ,	2853539 gb AAC02403.1 ,	2853537 gb AAC02402.1 ,
2853575 gb AAC02420.1 ,	2853565 gb AAC02415.1 ,	2853548 gb AAC02407.1 ,
2853579 gb AAC02422.1 ,	2853567 gb AAC02416.1 ,	2853542 gb AAC02404.1 ,
2853561 gb AAC02413.1 ,	2853552 gb AAC02409.1 ,	2853533 gb AAC02400.1 ,
2853531 gb AAC02399.1 ,	2853571 gb AAC02418.1 ,	2853550 gb AAC02408.1 ,
1127901 gb AAA83796.1 ,	1127899 gb AAA83795.1 ,	50404190 gb AAT76860.1 ,

|1127830|gb|AAA83768.1|, |1127828|gb|AAA83767.1|, |37677866|gb|AAQ97535.1|,
 |37677856|gb|AAQ97526.1|, |1127970|gb|AAA83830.1|, |2853434|gb|AAC02353.1|,
 |2853407|gb|AAC02341.1|, |2853409|gb|AAC02342.1|, |2853423|gb|AAC02349.1|,
 |2853431|gb|AAC02352.1|, |2853429|gb|AAC02351.1|, |2853371|gb|AAC02324.1|,
 |2853369|gb|AAC02323.1|, |2853382|gb|AAC02329.1|, |2853427|gb|AAC02350.1|,
 |2853392|gb|AAC02334.1|, |2853388|gb|AAC02332.1|, |2853375|gb|AAC02326.1|,
 |2853384|gb|AAC02330.1|, |2853378|gb|AAC02327.1|, |2853405|gb|AAC02340.1|,
 |2853403|gb|AAC02339.1|, |2853380|gb|AAC02328.1|, |2853394|gb|AAC02335.1|,
 |2853415|gb|AAC02345.1|, |2853411|gb|AAC02343.1|, |2853400|gb|AAC02338.1|,
 |2853390|gb|AAC02333.1|, |2853386|gb|AAC02331.1|, |2853417|gb|AAC02346.1|,
 |2853373|gb|AAC02325.1|, |2853419|gb|AAC02347.1|, |2853413|gb|AAC02344.1|,
 |2853421|gb|AAC02348.1|, |2853398|gb|AAC02337.1|, |2853396|gb|AAC02336.1|,
 |1127960|gb|AAA83825.1|, |33359203|gb|AAQ17028.1|, |37681543|gb|AAQ97652.1|,
 |37677846|gb|AAQ97517.1|, |1127966|gb|AAA83828.1|, |1127964|gb|AAA83827.1|,
 |82317948|sp|Q6EG27|Q6EG27_9, |37677836|gb|AAQ97508.1|, |37677826|gb|AAQ97499.1|,
 |66864703|gb|AAAY57429.1|, |66864693|gb|AAAY57420.1|, |66864683|gb|AAAY57411.1|,
 |37677816|gb|AAQ97490.1|, |37677806|gb|AAQ97481.1|, |54124761|gb|AAV30101.1|,
 |82309893|sp|Q6PSX3|Q6PSX3_9, |82309892|sp|Q6PSV4|Q6PSV4_9,
 |82309895|sp|Q6PT24|Q6PT24_9, |1127857|gb|AAA83774.1|, |1127855|gb|AAA83773.1|,
 |1127853|gb|AAA83772.1|, |1127851|gb|AAA83771.1|, |3511262|gb|AAC33784.1|,
 |138500|sp|P05898|VIF_HV1MN, |1127950|gb|AAA83820.1|, |37677886|gb|AAQ97553.1|,
 |37677876|gb|AAQ97544.1|, |1127946|gb|AAA83818.1|, |1127958|gb|AAA83824.1|,
 |61102651|gb|AAX37782.1|, |61102643|gb|AAX37775.1|, |61102579|gb|AAX37719.1|,
 |61102635|gb|AAX37768.1|, |61102627|gb|AAX37761.1|, |1107636|emb|CAA62707.1|,
 |1107634|emb|CAA62706.1|, |5805264|gb|AAD51913.1|, |61102677|gb|AAX37804.1|,
 |1107670|emb|CAA62732.1|, |1107668|emb|CAA62731.1|, |1107664|emb|CAA62729.1|,
 |1107666|emb|CAA62730.1|, |1107662|emb|CAA62728.1|, |1107658|emb|CAA62726.1|,
 |1107660|emb|CAA62727.1|, |1107646|emb|CAA62717.1|, |1107644|emb|CAA62716.1|,
 |1107642|emb|CAA62714.1|, |1107606|emb|CAA62715.1|, |1107638|emb|CAA62708.1|,
 |13540184|gb|AAK29350.1|, |13540164|gb|AAK29332.1|, |13540174|gb|AAK29341.1|,
 |34330004|gb|AAO65890.1|, |34330000|gb|AAO65887.1|, |1107626|emb|CAA62702.1|,
 |1107622|emb|CAA62700.1|, |1107624|emb|CAA62701.1|, |1107628|emb|CAA62703.1|,
 |1107616|emb|CAA62705.1|, |1107614|emb|CAA62696.1|, |1107618|emb|CAA62698.1|,
 |138507|sp|P04596|VIF_HV1Z6, |138495|sp|P12503|VIF_HV1Z2,
 |138498|sp|P04597|VIF_HV1EL, |138499|sp|P18805|VIF_HV1ND,
 |32399668|emb|CAD58645.1|, |32399659|emb|CAD58636.1|, |47118252|gb|AAT11239.1|,
 |15788299|gb|AAL07746.1|, |15787961|gb|AAL07551.1|, |15788279|gb|AAL07728.1|,
 |15788249|gb|AAL07701.1|, |15788289|gb|AAL07737.1|, |15788269|gb|AAL07719.1|,
 |55735996|gb|AAV59724.1|, |47118262|gb|AAT11248.1|, |15788240|gb|AAL07693.1|,
 |47118242|gb|AAT11221.1|, |47118222|gb|AAT11212.1|, |47118212|gb|AAT11203.1|,
 |55735987|gb|AAV59716.1|, |55735952|gb|AAV59685.1|, |55735960|gb|AAV59692.1|,
 |15788259|gb|AAL07710.1|, |55735969|gb|AAV59700.1|, |55735978|gb|AAV59708.1|,
 |12407075|emb|CAC24836.1|, |12407065|emb|CAC24830.1|, |62467691|gb|AAX83947.1|,
 |138501|sp|P04599|VIF_HV1MA, |1107650|emb|CAA62719.1|, |1107640|emb|CAA62709.1|,
 |3288391|emb|CAA06811.1|, |138521|sp|P17284|VIF_SIVCZ, |463060|gb|AAA99880.1|,
 |13172677|gb|AAK14190.1|, |13172707|gb|AAK14215.1|, |13172695|gb|AAK14205.1|,
 |13172689|gb|AAK14200.1|, |13172683|gb|AAK14195.1|, |16755646|gb|AAL28058.1|,
 |13172701|gb|AAK14210.1|, |469242|gb|AAA44861.1|, |5531677|gb|AAD44396.1|AF055,

|5531653|gb|AAD44375.1|AF055, |5531669|gb|AAD44389.1|AF055,
 |5531645|gb|AAD44368.1|AF055, |5531661|gb|AAD44382.1|AF055

REV proteins

|60141|emb|CAA41586.1|, |32261463|gb|AAP76528.1|truncated, |17352349|gb|AAL01568.1|,
 |2944135|gb|AAC05242.1|, |4324921|gb|AAD17185.1|, |4324915|gb|AAD17179.1|,
 |4324909|gb|AAD17173.1|, |4324902|gb|AAD17166.1|, |4324893|gb|AAD17157.1|,
 |4324884|gb|AAD17148.1|, |4324875|gb|AAD17139.1|, |4324866|gb|AAD17130.1|,
 |4324857|gb|AAD17121.1|, |4324851|gb|AAD17115.1|, |4324842|gb|AAD17106.1|,
 |4324836|gb|AAD17100.1|, |4324827|gb|AAD17091.1|, |4324818|gb|AAD17082.1|,
 |4324812|gb|AAD17076.1|, |4324803|gb|AAD17067.1|, |4324796|gb|AAD17060.1|,
 |4324787|gb|AAD17051.1|, |4324778|gb|AAD17042.1|, |4324770|gb|AAD17034.1|,
 |4324761|gb|AAD17025.1|, |4324752|gb|AAD17016.1|, |4324743|gb|AAD17007.1|,
 |8886637|gb|AAF80536.1|AF179368_6, |3114565|gb|AAD03183.1|,
 |3114557|gb|AAD03176.1|, |3114548|gb|AAD03168.1|, |2570319|gb|AAC97579.1|,
 |2570310|gb|AAC97571.1|, |2570304|gb|AAC63085.1|, |1537056|gb|AAC55464.1|,
 |2570329|gb|AAC32657.1|, |2570291|gb|AAC32648.1|, |16555093|gb|AAL06141.1|,
 |16555085|gb|AAL06140.1|, |16555077|gb|AAL06139.1|, |16555069|gb|AAL06138.1|,
 |16555061|gb|AAL06137.1|, |16555053|gb|AAL06136.1|, |16555045|gb|AAL06135.1|,
 |16555037|gb|AAL06134.1|, |16555029|gb|AAL06133.1|, |16555013|gb|AAL06131.1|,
 |16555005|gb|AAL06130.1|, |16554997|gb|AAL06129.1|, |16554989|gb|AAL06128.1|,
 |13560264|dbj|BAB40915.1|, |6581000|gb|AAF18408.1|AF190128_8,
 |6580991|gb|AAF18400.1|AF190127_8, |14530267|gb|AAK65997.1|AF316544_6,
 |11993202|gb|AAG42634.1|, |11066503|gb|AAG28618.1|AF259955_6,
 |5733959|gb|AAD49796.1|AF107771_9, |5733949|gb|AAD49787.1|AF107770_9,
 |1209817|gb|AAB40974.1|, |1209815|gb|AAB40973.1|, |1209813|gb|AAB40972.1|,
 |1209811|gb|AAB40971.1|, |1209809|gb|AAB40970.1|, |1209807|gb|AAB40969.1|,
 |1209805|gb|AAB40968.1|, |1209803|gb|AAB40967.1|, |1209801|gb|AAB40966.1|,
 |1209799|gb|AAB40965.1|, |1209797|gb|AAB40964.1|, |1209795|gb|AAB40963.1|,
 |1209793|gb|AAB40962.1|, |1209791|gb|AAB40961.1|, |1209789|gb|AAB40960.1|,
 |1209787|gb|AAB40959.1|, |1209785|gb|AAB40958.1|, |1209783|gb|AAB40957.1|,
 |1209781|gb|AAB40956.1|, |1353866|gb|AAB36505.1|, |1575477|gb|AAB09539.1|,
 |82321217|sp|Q97255|Q97255_9HIV1, |82321193|sp|Q9YKM6|Q9YKM6_9HIV1,
 |82320058|sp|Q9YKX5|Q9YKX5_9HIV1, |82320057|sp|Q9YKX2|Q9YKX2_9HIV1,
 |82320056|sp|Q9YKW8|Q9YKW8_9HIV1, |82320055|sp|Q9YKW2|Q9YKW2_9HIV1,
 |82320054|sp|Q9YKV8|Q9YKV8_9HIV1, |82320053|sp|Q9YKV3|Q9YKV3_9HIV1,
 |82320052|sp|Q9YKU8|Q9YKU8_9HIV1, |82320051|sp|Q9YKU3|Q9YKU3_9HIV1,
 |82320050|sp|Q9YKS9|Q9YKS9_9HIV1, |82320049|sp|Q9YKS3|Q9YKS3_9HIV1,
 |82320048|sp|Q9YKR9|Q9YKR9_9HIV1, |82320047|sp|Q9YKR2|Q9YKR2_9HIV1,
 |82320046|sp|Q9YKP6|Q9YKP6_9HIV1, |82320045|sp|Q9YKN9|Q9YKN9_9HIV1,
 |82320044|sp|Q9YKN2|Q9YKN2_9HIV1, |82320040|sp|Q9YJK5|Q9YJK5_9HIV1,
 |82320039|sp|Q9YJH5|Q9YJH5_9HIV1, |82320034|sp|Q9YIJ7|Q9YIJ7_9HIV1,
 |82314776|sp|Q97063|Q97063_9HIV1, |82313586|sp|Q8UMQ0|Q8UMQ0_9HIV1,
 |82311083|sp|Q75006|Q75006_9HIV1, |82309089|sp|O70900|O70900_9HIV1,
 |82309088|sp|O70894|O70894_9HIV1, |82309087|sp|O70890|O70890_9HIV1,
 |82308941|sp|O41802|O41802_9HIV1, |82308940|sp|O41796|O41796_9HIV1,
 |82308939|sp|O41787|O41787_9HIV1, |82308938|sp|O41778|O41778_9HIV1,

|82308937|sp|O41770|O41770_9HIV1, |6466840|gb|AAF13055.1|,
 |7021459|gb|AAF35358.1|, |2801503|gb|AAC82592.1|, |1123018|gb|AAC54647.1|,
 |1123008|gb|AAC54638.1|, |1072092|gb|AAC54548.1|, |1151165|gb|AAA85235.1|,
 |665536|gb|AAA76688.1|, |9629359|ref|NP_057854.1|,
 |82319769|sp|Q9QRX3|Q9QRX3_9HIV1, |82319768|sp|Q9QRW4|Q9QRW4_9HIV1,
 |82319641|sp|Q9QEF5|Q9QEF5_9HIV1, |82319631|sp|Q9Q716|Q9Q716_9HIV1,
 |82319630|sp|Q9Q707|Q9Q707_9HIV1, |82319531|sp|Q9J0G7|Q9J0G7_9HIV1,
 |82319301|sp|Q9IMJ3|Q9IMJ3_9HIV1, |82318851|sp|Q9DSM0|Q9DSM0_9HIV1,
 |82318817|sp|Q9DHB3|Q9DHB3_9HIV1, |82318650|sp|Q998E7|Q998E7_9HIV1,
 |82314713|sp|Q90QJ8|Q90QJ8_9HIV1, |82313889|sp|Q900M7|Q900M7_9HIV1,
 |82313888|sp|Q900M6|Q900M6_9HIV1, |82313887|sp|Q900M5|Q900M5_9HIV1,
 |82313886|sp|Q900M4|Q900M4_9HIV1, |82313885|sp|Q900M3|Q900M3_9HIV1,
 |82313884|sp|Q900M2|Q900M2_9HIV1, |82313883|sp|Q900M1|Q900M1_9HIV1,
 |82313882|sp|Q900M0|Q900M0_9HIV1, |82313881|sp|Q900L9|Q900L9_9HIV1,
 |82313880|sp|Q900L8|Q900L8_9HIV1, |82313879|sp|Q900L7|Q900L7_9HIV1,
 |82313878|sp|Q900K2|Q900K2_9HIV1, |82313877|sp|Q900K1|Q900K1_9HIV1,
 |82313876|sp|Q900K0|Q900K0_9HIV1, |82311301|sp|Q77YF8|Q77YF8_9HIV1,
 |82311056|sp|Q74597|Q74597_9HIV1, |82311053|sp|Q74088|Q74088_9HIV1,
 |82311051|sp|Q73334|Q73334_9HIV1, |82309086|sp|O70677|O70677_9HIV1,
 |1568314|emb|CAA02188.1|, |1398979|dbj|BAA12993.1|, |1398970|dbj|BAA13001.1|,
 |255651|gb|AAB23299.1|, |16555021|gb|AAL06132.1|, |6016893|dbj|BAA85230.1|,
 |82311300|sp|Q77Y21|Q77Y21_9PLVG, |9629921|ref|NP_046128.1|,
 |2828043|gb|AAB99964.1|, |82319609|sp|Q9PXZ1|Q9PXZ1_9HIV1,
 |82319757|sp|Q9QN93|Q9QN93_9HIV1, |8218031|emb|CAB92791.1|,
 |3002873|gb|AAD03229.1|, |912750|gb|AAA82867.1|, |912747|gb|AAA82865.1|,
 |912744|gb|AAA82863.1|, |912739|gb|AAA82860.1|, |912736|gb|AAA82858.1|,
 |912733|gb|AAA82856.1|, |912730|gb|AAA82854.1|, |912727|gb|AAA82852.1|,
 |912724|gb|AAA82850.1|, |912721|gb|AAA82848.1|, |912718|gb|AAA82846.1|,
 |912715|gb|AAA82844.1|, |912710|gb|AAA82841.1|, |912707|gb|AAA82839.1|,
 |912704|gb|AAA82837.1|, |912701|gb|AAA82835.1|, |912698|gb|AAA82833.1|,
 |912695|gb|AAA82831.1|, |912692|gb|AAA82829.1|, |912689|gb|AAA82827.1|,
 |912686|gb|AAA82825.1|, |912683|gb|AAA82823.1|, |912680|gb|AAA82821.1|,
 |912677|gb|AAA82819.1|, |912674|gb|AAA82817.1|, |912671|gb|AAA82815.1|,
 |912668|gb|AAA82813.1|, |912665|gb|AAA82811.1|, |912662|gb|AAA82809.1|,
 |912659|gb|AAA82807.1|, |912656|gb|AAA82805.1|, |912653|gb|AAA82803.1|,
 |912650|gb|AAA82801.1|, |912647|gb|AAA82799.1|, |912644|gb|AAA82797.1|,
 |912641|gb|AAA82795.1|, |912638|gb|AAA82793.1|, |912635|gb|AAA82791.1|,
 |912632|gb|AAA82789.1|, |912629|gb|AAA82787.1|, |912626|gb|AAA82785.1|,
 |912623|gb|AAA82783.1|, |912620|gb|AAA82781.1|, |912617|gb|AAA82779.1|,
 |912614|gb|AAA82777.1|, |912611|gb|AAA82775.1|, |912608|gb|AAA82773.1|,
 |912605|gb|AAA82771.1|, |912602|gb|AAA82769.1|, |912599|gb|AAA82767.1|,
 |912596|gb|AAA82765.1|, |912593|gb|AAA82763.1|, |912590|gb|AAA82761.1|,
 |912587|gb|AAA82759.1|, |912584|gb|AAA82757.1|, |7416431|dbj|BAA93863.1|,
 |7416425|dbj|BAA93860.1|, |7416419|dbj|BAA93857.1|, |7416396|dbj|BAA93846.1|,
 |7416394|dbj|BAA93845.1|, |7416421|dbj|BAA93858.1|, |7416401|dbj|BAA93848.1|,
 |7416398|dbj|BAA93847.1|, |7416429|dbj|BAA93862.1|, |7416413|dbj|BAA93854.1|,
 |7416407|dbj|BAA93851.1|, |7416427|dbj|BAA93861.1|, |7416423|dbj|BAA93859.1|,
 |7416417|dbj|BAA93856.1|, |7416415|dbj|BAA93855.1|, |7416411|dbj|BAA93853.1|,

|7416409|dbj|BAA93852.1|, |7416405|dbj|BAA93850.1|, |7416403|dbj|BAA93849.1|,
 |18844742|dbj|BAB85464.1|, |1055035|gb|AAA81041.1|, |2745746|gb|AAC97530.1|,
 |3252972|gb|AAD12119.1|truncated, |3252962|gb|AAD12110.1|truncated,
 |3252952|gb|AAD12101.1|truncated, |3252932|gb|AAD12083.1|truncated,
 |3252924|gb|AAD12076.1|truncated, |3193277|gb|AAD03330.1|, |3193269|gb|AAD03323.1|,
 |1890689|gb|AAC97546.1|, |3378127|gb|AAC28450.1|,
 |20271245|gb|AAM18556.1|AF493673_1mutant,
 |20271243|gb|AAM18555.1|AF493672_1mutant, |17046923|gb|AAL34923.1|,
 |17046913|gb|AAL34914.1|, |17046903|gb|AAL34905.1|, |17046893|gb|AAL34896.1|,
 |17046873|gb|AAL34878.1|, |17046863|gb|AAL34869.1|, |17046853|gb|AAL34860.1|,
 |17046843|gb|AAL34851.1|, |17046827|gb|AAL34837.1|, |17046817|gb|AAL34828.1|,
 |17046807|gb|AAL34819.1|, |17046797|gb|AAL34810.1|, |17046787|gb|AAL34801.1|,
 |17046777|gb|AAL34792.1|, |17046767|gb|AAL34783.1|, |17046757|gb|AAL34774.1|,
 |17046747|gb|AAL34765.1|, |17046737|gb|AAL34756.1|, |17046727|gb|AAL34747.1|,
 |17046717|gb|AAL34738.1|, |17046707|gb|AAL34729.1|, |17046697|gb|AAL34720.1|,
 |17046687|gb|AAL34711.1|, |17046677|gb|AAL34702.1|, |17046667|gb|AAL34693.1|,
 |17046657|gb|AAL34684.1|, |17046647|gb|AAL34675.1|, |17046637|gb|AAL34666.1|,
 |17046627|gb|AAL34657.1|, |17046617|gb|AAL34648.1|, |17046607|gb|AAL34639.1|,
 |17046597|gb|AAL34630.1|, |17046587|gb|AAL34621.1|, |17046577|gb|AAL34612.1|,
 |17046567|gb|AAL34603.1|, |17046557|gb|AAL34594.1|, |17046547|gb|AAL34585.1|,
 |17046537|gb|AAL34576.1|, |17046527|gb|AAL34567.1|, |17046517|gb|AAL34558.1|,
 |1463017|gb|AAB05176.1|, |14209303|dbj|BAB55912.1|, |15788305|gb|AAL07752.1|,
 |15788295|gb|AAL07743.1|, |15788284|gb|AAL07733.1|, |15788275|gb|AAL07725.1|,
 |15788265|gb|AAL07716.1|, |15788255|gb|AAL07707.1|, |15788246|gb|AAL07699.1|,
 |15787963|gb|AAL07553.1|, |5805262|gb|AAD51911.1|, |13172886|gb|AAK14234.1|,
 |13540189|gb|AAK29355.1|, |13540179|gb|AAK29346.1|, |13540169|gb|AAK29337.1|,
 |11761601|gb|AAG38929.1|, |11761591|gb|AAG38920.1|truncated,
 |11761581|gb|AAG38911.1|truncated, |11761571|gb|AAG38902.1|truncated,
 |11761561|gb|AAG38893.1|, |3252942|gb|AAD12092.1|, |3947931|gb|AAC82621.1|,
 |3098588|gb|AAC68855.1|, |3098578|gb|AAC68846.1|, |1899132|gb|AAC57012.1|,
 |1899117|gb|AAC56999.1|, |1899111|gb|AAC56994.1|, |1899106|gb|AAC56990.1|,
 |1899101|gb|AAC56986.1|, |3511264|gb|AAC33786.1|, |1772630|gb|AAC32298.1|,
 |3403224|gb|AAC29058.1|, |3403215|gb|AAC29050.1|, |3132816|gb|AAC29082.1|,
 |3132806|gb|AAC29073.1|, |2351239|gb|AAB68449.1|, |2351233|gb|AAB68444.1|,
 |2351228|gb|AAB68438.1|, |2194192|gb|AAB61130.1|, |23986256|gb|AAL12205.1|truncated,
 |23986240|gb|AAL12196.1|truncated, |23986226|gb|AAL12187.1|truncated,
 |23986212|gb|AAL12178.1|truncated, |21616429|gb|AAM66251.1|,
 |21616425|gb|AAM66248.1|, |21616420|gb|AAM66244.1|, |21616415|gb|AAM66240.1|,
 |21616410|gb|AAM66236.1|, |21616405|gb|AAM66232.1|, |21616400|gb|AAM66228.1|,
 |21616395|gb|AAM66224.1|, |21616390|gb|AAM66220.1|, |21616385|gb|AAM66216.1|,
 |21616380|gb|AAM66212.1|, |21616375|gb|AAM66208.1|, |21616370|gb|AAM66204.1|,
 |21616366|gb|AAM66201.1|, |21616361|gb|AAM66197.1|, |18844732|dbj|BAB85455.1|,
 |18643015|gb|AAL74050.1|, |3462804|gb|AAC33102.1|, |3462800|gb|AAC33099.1|,
 |16751267|gb|AAL05342.1|, |16751257|gb|AAL05333.1|, |16751244|gb|AAL05321.1|,
 |16751234|gb|AAL05312.1|, |15281504|gb|AAK94286.1|AF361879_6,
 |15281494|gb|AAK94277.1|AF361878_6, |15281485|gb|AAK94269.1|AF361877_6,
 |15281475|gb|AAK94260.1|AF361876_6, |15281465|gb|AAK94251.1|AF361875_6,
 |15281455|gb|AAK94242.1|AF361874_6truncated, |15281445|gb|AAK94233.1|AF361873_6,

15281435 gb AAK94224.1 AF361872_6,	15281425 gb AAK94215.1 AF361871_6,
14530232 gb AAK65966.1 AF286236_6,	15982649 gb AAL09937.1 ,
3002845 gb AAD03204.1 ,	3002835 gb AAD03195.1 ,
5931488 dbj BAA84666.1 ,	5931497 dbj BAA84674.1 ,
13517088 dbj BAB40426.1 ,	3779270 gb AAD03318.1 ,
14530258 gb AAK65989.1 AF286239_6,	14530250 gb AAK65982.1 AF286238_6,
13569333 gb AAK31067.1 AF286235_6,	13569323 gb AAK31058.1 AF286234_6,
13569313 gb AAK31049.1 AF286233_6,	13569303 gb AAK31040.1 AF286232_6,
13569293 gb AAK31031.1 AF286231_6,	13569283 gb AAK31022.1 AF286230_6,
13569273 gb AAK31013.1 AF286229_6,	13569263 gb AAK31004.1 AF286228_6,
13569253 gb AAK30995.1 AF286227_6,	13569243 gb AAK30986.1 AF286226_6,
13569233 gb AAK30977.1 AF286225_6,	13569223 gb AAK30968.1 AF286224_6,
13569213 gb AAK30959.1 AF286223_6,	13194604 gb AAK15483.1 ,
13194602 gb AAK15482.1 ,	13194600 gb AAK15481.1 ,
13194596 gb AAK15479.1 ,	13194598 gb AAK15480.1 ,
13194594 gb AAK15478.1 ,	13194592 gb AAK15477.1 ,
11321033 gb AAG34024.1 ,	11321023 gb AAG34015.1 ,
11321003 gb AAG33997.1 ,	11321013 gb AAG34006.1 ,
11066493 gb AAG28609.1 AF259954_6,	11095916 gb AAG30120.1 AF286365_6,
5305359 gb AAD41611.1 AF071474_6,	3808284 gb AAC69310.1 ,
3808276 gb AAD13363.1 ,	5305347 gb AAD41601.1 AF071473_6,
3808266 gb AAC69302.1 ,	3808256 gb AAC69293.1 ,
3808246 gb AAC69284.1 ,	6651488 gb AAF22336.1 AF193277_9,
6651477 gb AAF22325.1 AF193276_7,	6643034 gb AAF20395.1 ,
6651463 gb AAF22315.1 AF193253_9,	6090970 gb AAF03417.1 AF075703_5,
5668959 gb AAD46103.1 AF076998_5,	5668944 gb AAD46092.1 AF077336_6,
6910973 gb AAF31324.1 AF146728_6,	5668928 gb AAD46080.1 AF076475_6,
5668915 gb AAD46069.1 AF076474_5,	5668885 gb AAD46047.1 AF075701_5,
5305482 gb AAD41670.1 AF075702_5,	5059055 gb AAD38894.1 AF119820_6,
5059046 gb AAD38886.1 AF119819_6,	3002891 gb AAD03245.1 ,
3002882 gb AAD03237.1 ,	3002864 gb AAD03221.1 ,
3002855 gb AAD03213.1 ,	3694866 gb AAC62480.1 ,
2281658 gb AAB64168.1 ,	1857266 gb AAB54109.1 ,
14290025 gb AAK59209.1 ,	14290016 gb AAK59201.1 ,
14290007 gb AAK59193.1 ,	14289998 gb AAK59185.1 ,
14289988 gb AAK59176.1 ,	912742 gb AAA82862.1 ,
62362596 gb AAX81604.1 ,	62362588 gb AAX81600.1 ,
82321178 sp Q72819 Q72819_9HIV1,	82320172 sp Q9YV23 Q9YV23_9HIV1,
82311052 sp Q73371 Q73371_9HIV1,	82311047 sp Q72857 Q72857_9HIV1,
82311045 sp Q72855 Q72855_9HIV1,	82311043 sp Q72853 Q72853_9HIV1,
82311041 sp Q72851 Q72851_9HIV1,	82311040 sp Q72850 Q72850_9HIV1,
82311038 sp Q72848 Q72848_9HIV1,	82311036 sp Q72846 Q72846_9HIV1,
82311034 sp Q72844 Q72844_9HIV1,	82311032 sp Q72842 Q72842_9HIV1,
82311030 sp Q72840 Q72840_9HIV1,	82311028 sp Q72838 Q72838_9HIV1,
82311026 sp Q72836 Q72836_9HIV1,	82311024 sp Q72834 Q72834_9HIV1,
82311021 sp Q72831 Q72831_9HIV1,	82311019 sp Q72829 Q72829_9HIV1,
82311017 sp Q72827 Q72827_9HIV1,	82311015 sp Q72825 Q72825_9HIV1,
82311013 sp Q72823 Q72823_9HIV1,	82311011 sp Q72821 Q72821_9HIV1,
82311009 sp Q72817 Q72817_9HIV1,	82311007 sp Q72815 Q72815_9HIV1,
82311005 sp Q72813 Q72813_9HIV1,	82311003 sp Q72811 Q72811_9HIV1,
82311001 sp Q72809 Q72809_9HIV1,	82310999 sp Q72807 Q72807_9HIV1,
82310997 sp Q72805 Q72805_9HIV1,	82310995 sp Q72803 Q72803_9HIV1,
82310993 sp Q72801 Q72801_9HIV1,	82310991 sp Q72799 Q72799_9HIV1,

|82310989|sp|Q72797|Q72797_9HIV1,
 |82310985|sp|Q72793|Q72793_9HIV1,
 |82310981|sp|Q72789|Q72789_9HIV1,
 |82310977|sp|Q72785|Q72785_9HIV1,
 |82310973|sp|Q72781|Q72781_9HIV1,
 |82310969|sp|Q72777|Q72777_9HIV1,
 |82310965|sp|Q72773|Q72773_9HIV1,
 |82310961|sp|Q72769|Q72769_9HIV1,
 |82310957|sp|Q72765|Q72765_9HIV1,
 |82310953|sp|Q72761|Q72761_9HIV1,
 |82310949|sp|Q72757|Q72757_9HIV1,
 |82310945|sp|Q72753|Q72753_9HIV1,
 |82310941|sp|Q72749|Q72749_9HIV1,
 |82309226|sp|P89696|P89696_9HIV1,
 |82309121|sp|O90154|O90154_9HIV1,
 |66864696|gb|AAV57423.1|, |66864686|gb|AAV57414.1|, |27526993|emb|CAD43152.1|,
 |27526991|emb|CAD43151.1|, |25166815|gb|AAN73605.1|AF484496_5,
 |25166765|gb|AAN73560.1|AF484491_5, |25166705|gb|AAN73506.1|AF484485_5truncated,
 |56417610|gb|AAV90748.1|, |56193096|gb|AAV84159.1|, |56193080|gb|AAV84150.1|,
 |56193062|gb|AAV84141.1|, |56193045|gb|AAV84132.1|, |56193009|gb|AAV84114.1|,
 |54124764|gb|AAV30104.1|, |54124754|gb|AAV30095.1|, |50404188|gb|AAT76858.1|,
 |47118265|gb|AAT11251.1|, |47118255|gb|AAT11242.1|, |47118245|gb|AAT11224.1|,
 |47118235|gb|AAT11233.1|, |47118225|gb|AAT11215.1|, |47118215|gb|AAT11206.1|,
 |1732490|gb|AAB38837.1|, |1732480|gb|AAB38828.1|, |16755648|gb|AAL28060.1|,
 |32261500|gb|AAP76561.1|truncated, |32261490|gb|AAP76552.1|truncated,
 |32261480|gb|AAP76543.1|truncated, |32261470|gb|AAP76534.1|truncated,
 |33359207|gb|AAQ17030.1|, |26245474|gb|AAN77402.1|, |26245464|gb|AAN77393.1|,
 |26245454|gb|AAN77384.1|, |1478062|gb|AAB51141.1|,
 |22596257|gb|AAN03047.1|AF457054_6, |6690779|gb|AAF24338.1|AF197341_5,
 |6690772|gb|AAF24331.1|AF197340_5, |6690765|gb|AAF24324.1|AF197339_3,
 |6690758|gb|AAF24317.1|AF197338_5, |17981624|gb|AAL51094.1|,
 |1469312|gb|AAB05048.1|, |328654|gb|AAA80322.1|, |14579617|gb|AAK69334.1|,
 |14579607|gb|AAK69325.1|, |16118399|gb|AAL12762.1|, |16118389|gb|AAL12753.1|,
 |16118379|gb|AAL12744.1|, |16118369|gb|AAL12735.1|, |16118361|gb|AAL12728.1|,
 |16118355|gb|AAL12723.1|, |16118345|gb|AAL12714.1|, |16118333|gb|AAL12704.1|,
 |16118316|gb|AAL12690.1|, |16118306|gb|AAL12681.1|, |16118296|gb|AAL12672.1|,
 |16118286|gb|AAL12663.1|, |16118276|gb|AAL12654.1|, |16118266|gb|AAL12645.1|,
 |16118256|gb|AAL12636.1|, |45360214|gb|AAS59245.1|, |45360204|gb|AAS59236.1|,
 |45360194|gb|AAS59227.1|, |45360183|gb|AAS59217.1|, |45360173|gb|AAS59208.1|,
 |45360163|gb|AAS59199.1|, |45360153|gb|AAS59190.1|, |45360143|gb|AAS59181.1|,
 |82320179|sp|Q9YX51|Q9YX51_9HIV1, |82320178|sp|Q9YW94|Q9YW94_9HIV1,
 |82320176|sp|Q9YV64|Q9YV64_9HIV1 truncated, |82319767|sp|Q9QRB3|Q9QRB3_9HIV1,
 |82319624|sp|Q9Q6I5|Q9Q6I5_9HIV1, |82319623|sp|Q9Q6H9|Q9Q6H9_9HIV1,
 |82319622|sp|Q9Q6H2|Q9Q6H2_9HIV1, |82319621|sp|Q9Q6G5|Q9Q6G5_9HIV1,
 |82319339|sp|Q9IQP6|Q9IQP6_9HIV1, |82319338|sp|Q9IQP5|Q9IQP5_9HIV1,
 |82319337|sp|Q9IQP4|Q9IQP4_9HIV1, |82319336|sp|Q9IQP3|Q9IQP3_9HIV1,
 |82319335|sp|Q9IQP2|Q9IQP2_9HIV1, |82319334|sp|Q9IQP1|Q9IQP1_9HIV1,
 |82319333|sp|Q9IQP0|Q9IQP0_9HIV1, |82319332|sp|Q9IQN9|Q9IQN9_9HIV1,

|82319331|sp|Q9IQN8|Q9IQN8_9HIV1,
 |82319329|sp|Q9IQN6|Q9IQN6_9HIV1,
 |82319327|sp|Q9IQN4|Q9IQN4_9HIV1,
 |82319325|sp|Q9IQN2|Q9IQN2_9HIV1,
 |82319323|sp|Q9IQN0|Q9IQN0_9HIV1,
 |82319321|sp|Q9IQM8|Q9IQM8_9HIV1,
 |82318824|sp|Q9DKG8|Q9DKG8_9HIV1,
 truncated, |82318822|sp|Q9DKF2|Q9DKF2_9HIV1 truncated,
 |82318821|sp|Q9DKE4|Q9DKE4_9HIV1 truncated,
 |82318820|sp|Q9DKD5|Q9DKD5_9HIV1,
 |82318620|sp|Q994C7|Q994C7_9HIV1,
 |82318618|sp|Q994A9|Q994A9_9HIV1,
 |82317958|sp|Q6EK22|Q6EK22_9HIV1,
 |82317956|sp|Q6EJV0|Q6EJV0_9HIV1,
 |82317954|sp|Q6EJQ2|Q6EJQ2_9HIV1,
 |82317879|sp|Q6E6X0|Q6E6X0_9HIV1,
 |82317877|sp|Q6E6V6|Q6E6V6_9HIV1,
 |82317875|sp|Q6E6U1|Q6E6U1_9HIV1,
 |82317054|sp|Q5S5D0|Q5S5D0_9HIV1,
 |82317052|sp|Q5S5B4|Q5S5B4_9HIV1,
 |82317050|sp|Q5S594|Q5S594_9HIV1,
 |82314204|sp|Q90DD7|Q90DD7_9HIV1,
 |82314069|sp|Q908N3|Q908N3_9HIV1,
 |82314067|sp|Q908L5|Q908L5_9HIV1,
 |82314065|sp|Q908J7|Q908J7_9HIV1,
 |82314063|sp|Q908H9|Q908H9_9HIV1,
 |82313861|sp|Q8UTT2|Q8UTT2_9HIV1,
 |82313859|sp|Q8UTR4|Q8UTR4_9HIV1,
 |82313857|sp|Q8UTP6|Q8UTP6_9HIV1,
 |82313855|sp|Q8UTM8|Q8UTM8_9HIV1,
 |82313853|sp|Q8UTL0|Q8UTL0_9HIV1,
 |82313850|sp|Q8UTJ2|Q8UTJ2_9HIV1,
 |82313848|sp|Q8UTH4|Q8UTH4_9HIV1,
 |82313846|sp|Q8UTF6|Q8UTF6_9HIV1,
 |82313844|sp|Q8UTD8|Q8UTD8_9HIV1,
 |82313842|sp|Q8UTC0|Q8UTC0_9HIV1,
 |82313840|sp|Q8UTA2|Q8UTA2_9HIV1,
 |82313838|sp|Q8UT84|Q8UT84_9HIV1,
 |82313836|sp|Q8UT66|Q8UT66_9HIV1,
 |82313834|sp|Q8UT48|Q8UT48_9HIV1,
 |82313832|sp|Q8UT30|Q8UT30_9HIV1,
 |82313830|sp|Q8UT12|Q8UT12_9HIV1,
 |82313827|sp|Q8USY9|Q8USY9_9HIV1,
 |82313825|sp|Q8USX1|Q8USX1_9HIV1,
 |82313822|sp|Q8USU4|Q8USU4_9HIV1,
 |82313820|sp|Q8USS6|Q8USS6_9HIV1,
 |82313386|sp|Q8Q2T1|Q8Q2T1_9HIV1mutant,
 |82313385|sp|Q8Q2T0|Q8Q2T0_9HIV1mutant,

|82319330|sp|Q9IQN7|Q9IQN7_9HIV1,
 |82319328|sp|Q9IQN5|Q9IQN5_9HIV1,
 |82319326|sp|Q9IQN3|Q9IQN3_9HIV1,
 |82319324|sp|Q9IQN1|Q9IQN1_9HIV1,
 |82319322|sp|Q9IQM9|Q9IQM9_9HIV1,
 |82319068|sp|Q9IBN5|Q9IBN5_9HIV1,
 |82318823|sp|Q9DKG0|Q9DKG0_9HIV1
 truncated,
 |82318682|sp|Q99BZ8|Q99BZ8_9HIV1,
 |82318619|sp|Q994B8|Q994B8_9HIV1,
 |82317959|sp|Q6EK38|Q6EK38_9HIV1,
 |82317957|sp|Q6EJW6|Q6EJW6_9HIV1,
 |82317955|sp|Q6EJR8|Q6EJR8_9HIV1,
 |82317880|sp|Q6E6X6|Q6E6X6_9HIV1,
 |82317878|sp|Q6E6W3|Q6E6W3_9HIV1,
 |82317876|sp|Q6E6U8|Q6E6U8_9HIV1,
 |82317307|sp|Q5VCT6|Q5VCT6_9HIV1,
 |82317053|sp|Q5S5C2|Q5S5C2_9HIV1,
 |82317051|sp|Q5S5A2|Q5S5A2_9HIV1,
 |82314773|sp|Q90VT0|Q90VT0_9HIV1,
 |82314155|sp|Q909R5|Q909R5_9HIV1,
 |82314068|sp|Q908M4|Q908M4_9HIV1,
 |82314066|sp|Q908K6|Q908K6_9HIV1,
 |82314064|sp|Q908I8|Q908I8_9HIV1,
 |82313862|sp|Q8UTU1|Q8UTU1_9HIV1,
 |82313860|sp|Q8UTS3|Q8UTS3_9HIV1,
 |82313858|sp|Q8UTQ5|Q8UTQ5_9HIV1,
 |82313856|sp|Q8UTN7|Q8UTN7_9HIV1,
 |82313854|sp|Q8UTL9|Q8UTL9_9HIV1,
 |82313852|sp|Q8UTK1|Q8UTK1_9HIV1,
 |82313849|sp|Q8UTI3|Q8UTI3_9HIV1,
 |82313847|sp|Q8UTG5|Q8UTG5_9HIV1,
 |82313845|sp|Q8UTE7|Q8UTE7_9HIV1,
 |82313843|sp|Q8UTC9|Q8UTC9_9HIV1,
 |82313841|sp|Q8UTB1|Q8UTB1_9HIV1,
 |82313839|sp|Q8UT93|Q8UT93_9HIV1,
 |82313837|sp|Q8UT75|Q8UT75_9HIV1,
 |82313835|sp|Q8UT57|Q8UT57_9HIV1,
 |82313833|sp|Q8UT39|Q8UT39_9HIV1,
 |82313831|sp|Q8UT21|Q8UT21_9HIV1,
 |82313828|sp|Q8USZ8|Q8USZ8_9HIV1,
 |82313826|sp|Q8USY0|Q8USY0_9HIV1,
 |82313823|sp|Q8USV3|Q8USV3_9HIV1,
 |82313821|sp|Q8UST5|Q8UST5_9HIV1,
 |82313632|sp|Q8UNF7|Q8UNF7_9HIV1,
 |82312603|sp|Q8AFF5|Q8AFF5_9HIV1,

82312602 sp Q8AFE6 Q8AFE6_9HIV1,	82312601 sp Q8AFD7 Q8AFD7_9HIV1,
82312212 sp Q80159 Q80159_9HIV1,	82311079 sp Q74904 Q74904_9HIV1,
82311078 sp Q74903 Q74903_9HIV1,	82311077 sp Q74902 Q74902_9HIV1,
82311076 sp Q74901 Q74901_9HIV1,	82311075 sp Q74900 Q74900_9HIV1,
82311074 sp Q74899 Q74899_9HIV1,	82311073 sp Q74898 Q74898_9HIV1,
82311072 sp Q74897 Q74897_9HIV1,	82311071 sp Q74896 Q74896_9HIV1,
82311070 sp Q74895 Q74895_9HIV1,	82311069 sp Q74894 Q74894_9HIV1,
82311068 sp Q74893 Q74893_9HIV1,	82311067 sp Q74892 Q74892_9HIV1,
82311066 sp Q74891 Q74891_9HIV1,	82311065 sp Q74890 Q74890_9HIV1,
82311064 sp Q74889 Q74889_9HIV1,	82311063 sp Q74888 Q74888_9HIV1,
82311062 sp Q74887 Q74887_9HIV1,	82311061 sp Q74886 Q74886_9HIV1,
82311058 sp Q74748 Q74748_9HIV1,	82311055 sp Q74457 Q74457_9HIV1,
82310819 sp Q70141 Q70141_9HIV1,	82310552 sp Q6TEB4 Q6TEB4_9HIV1,
82310550 sp Q6TEA5 Q6TEA5_9HIV1,	82310549 sp Q6TE96 Q6TE96_9HIV1,
82310548 sp Q6TE87 Q6TE87_9HIV1,	82310547 sp Q6TE78 Q6TE78_9HIV1,
82310546 sp Q6TE69 Q6TE69_9HIV1,	82310545 sp Q6TE60 Q6TE60_9HIV1,
82309402 sp Q5DID6 Q5DID6_9HIV1,	82309247 sp P90444 P90444_9HIV1,
82309232 sp P89834 P89834_9HIV1,	82309231 sp P89831 P89831_9HIV1,
82309230 sp P89828 P89828_9HIV1,	82309229 sp P89825 P89825_9HIV1,
82309228 sp P89822 P89822_9HIV1,	82309227 sp P89818 P89818_9HIV1,
82309220 sp P88160 P88160_9HIV1,	82309219 sp P88154 P88154_9HIV1,
82309194 sp O92940 O92940_9HIV1,	82309132 sp O91084 O91084_9HIV1,
82309124 sp O90292 O90292_9HIV1,	82309122 sp O90176 O90176_9HIV1,
82309120 sp O90094 O90094_9HIV1	truncated,
82309119 sp O90086 O90086_9HIV1truncated,	82309118 sp O90077 O90077_9HIV1,
82309117 sp O90068 O90068_9HIV1truncated,	82309116 sp O90061 O90061_9HIV1
truncated, 82309115 sp O89930 O89930_9HIV1,	82309104 sp O72617 O72617_9HIV1,
82309103 sp O72612 O72612_9HIV1,	82309102 sp O71969 O71969_9HIV1,
82308885 sp O12162 O12162_9HIV1,	74099687 gb AAZ28904.1 ,
78100205 gb ABB20908.1 ,	74273484 gb ABA01464.1 ,
74273465 gb ABA01447.1 ,	74273455 gb ABA01438.1 ,
74273436 gb ABA01421.1 ,	74273426 gb ABA01412.1 ,
74273406 gb ABA01394.1 ,	74273396 gb ABA01385.1 ,
74273364 gb ABA01358.1 ,	74273342 gb ABA01339.1 ,
74315774 gb ABA02497.1 truncated,	74315784 gb ABA02506.1 ,
74315754 gb ABA02479.1 ,	74315764 gb ABA02488.1 ,
64310622 gb AAY41252.1 ,	74315727 gb ABA02455.1 ,
62946406 gb AAY22383.1 ,	64310551 gb AAY41246.1 ,
57869716 gb AAW57751.1 ,	64310508 gb AAY41243.1 ,
57869706 gb AAW57742.1 ,	57869734 gb AAW57767.1 ,
57869689 gb AAW57727.1 ,	57869725 gb AAW57759.1 ,
57869659 gb AAW57700.1 ,	57869706 gb AAW57742.1 ,
57869622 gb AAW57667.1 ,	57869698 gb AAW57735.1 ,
57869593 gb AAW57641.1 ,	57869679 gb AAW57718.1 ,
57869564 gb AAW57615.1 ,	57869669 gb AAW57709.1 ,
18699245 gb AAL78487.1 AF414005_3,	57869649 gb AAW57691.1 ,
18699171 gb AAL78437.1 AF413981_4,	57869630 gb AAW57674.1 ,
60218869 gb AAX14847.1 ,	57869613 gb AAW57659.1 ,
55740231 gb AAV63805.1 ,	57869603 gb AAW57650.1 ,
	57869584 gb AAW57633.1 ,
	57869574 gb AAW57624.1 ,
	57869556 gb AAW57608.1 ,
	57869547 gb AAW57600.1 ,
	18699174 gb AAL78439.1 AF413982_2,
	18699165 gb AAL78432.1 AF413980_3,
	55740250 gb AAV63822.1 ,
	55740241 gb AAV63814.1 ,
	45361204 gb AAS59395.1 ,
	45361192 gb AAS59386.1 ,

45361179 gb AAS59380.1 ,	45361171 gb AAS59375.1 ,	45361159 gb AAS59368.1 ,
45361152 gb AAS59364.1 ,	45361140 gb AAS59355.1 ,	45361128 gb AAS59346.1 ,
45361118 gb AAS59337.1 ,	45361106 gb AAS59328.1 ,	45361094 gb AAS59319.1 ,
45361080 gb AAS59310.1 ,	45361070 gb AAS59301.1 ,	62467721 gb AAX83974.1 ,
62467716 gb AAX83970.1 ,	62467706 gb AAX83961.1 ,	52421753 gb AAU45389.1 ,
52421742 gb AAU45381.1 ,	62467696 gb AAX83952.1 ,	51950725 gb AAU14917.1 ,
51950715 gb AAU14908.1 ,	3288394 emb CAA06814.1 ,	26000279 gb AAN75312.1 ,
26000269 gb AAN75303.1 truncated,		26000259 gb AAN75294.1 ,
25167075 gb AAN73839.1 AF484522_5,	25167065 gb AAN73830.1 AF484521_5,	
25167055 gb AAN73821.1 AF484520_5,	25167045 gb AAN73812.1 AF484519_5,	
25167035 gb AAN73803.1 AF484518_5,	25167025 gb AAN73794.1 AF484517_5,	
25167015 gb AAN73785.1 AF484516_5,	25167005 gb AAN73776.1 AF484515_5,	
25166995 gb AAN73767.1 AF484514_5,	25166985 gb AAN73758.1 AF484513_5,	
25166975 gb AAN73749.1 AF484512_5,	25166965 gb AAN73740.1 AF484511_5,	
25166955 gb AAN73731.1 AF484510_5,	25166945 gb AAN73722.1 AF484509_5,	
25166935 gb AAN73713.1 AF484508_5,	25166925 gb AAN73704.1 AF484507_5,	
25166915 gb AAN73695.1 AF484506_5,	25166905 gb AAN73686.1 AF484505_5,	
25166895 gb AAN73677.1 AF484504_5,	25166885 gb AAN73668.1 AF484503_5,	
25166875 gb AAN73659.1 AF484502_5,	25166865 gb AAN73650.1 AF484501_5,	
25166855 gb AAN73641.1 AF484500_5,	25166845 gb AAN73632.1 AF484499_5,	
25166835 gb AAN73623.1 AF484498_5,	25166825 gb AAN73614.1 AF484497_5,	
25166805 gb AAN73596.1 AF484495_5,	25166795 gb AAN73587.1 AF484494_5,	
25166785 gb AAN73578.1 AF484493_5,	25166775 gb AAN73569.1 AF484492_5,	
25166755 gb AAN73551.1 AF484490_5,	25166745 gb AAN73542.1 AF484489_5,	
25166735 gb AAN73533.1 AF484488_5,	25166725 gb AAN73524.1 AF484487_5,	
25166715 gb AAN73515.1 AF484486_5,	25166699 gb AAN73501.1 AF484484_1,	
25166693 gb AAN73496.1 AF484483_5,	25166683 gb AAN73487.1 AF484482_5,	
25166673 gb AAN73478.1 AF484481_5,	25166663 gb AAN73469.1 AF484480_5,	
25166653 gb AAN73460.1 AF484479_5,	25166643 gb AAN73451.1 AF484478_5,	
25166634 gb AAN73443.1 AF484477_6,		23194117 gb AAN15025.1 ,
41400298 gb AAS01344.1 ,	55735999 gb AAV59727.1 ,	55735990 gb AAV59719.1 ,
55735981 gb AAV59711.1 ,	55735972 gb AAV59703.1 ,	55735963 gb AAV59695.1 ,
55735954 gb AAV59687.1 ,	45644394 gb AAS72948.1 ,	45644386 gb AAS72941.1 ,
36365549 gb AAQ86752.1 ,	36365540 gb AAQ86744.1 ,	36365531 gb AAQ86736.1 ,
36365522 gb AAQ86728.1 ,	36365513 gb AAQ86720.1 ,	36365504 gb AAQ86712.1 ,
36365495 gb AAQ86704.1 ,	36365486 gb AAQ86696.1 ,	36365477 gb AAQ86688.1 ,
36365468 gb AAQ86680.1 ,	36365459 gb AAQ86672.1 ,	36365450 gb AAQ86664.1 ,
36365441 gb AAQ86656.1 ,	36365432 gb AAQ86648.1 ,	36365423 gb AAQ86640.1 ,
36365414 gb AAQ86632.1 ,	36365405 gb AAQ86624.1 ,	36365396 gb AAQ86616.1 ,
36365387 gb AAQ86608.1 ,	36365378 gb AAQ86600.1 ,	56193028 gb AAV84123.1 ,
56131605 gb AAV80385.1 ,	46946856 gb AAT06645.1 ,	51599144 gb AAU08228.1 ,
51599134 gb AAU08219.1 ,	47027393 gb AAT08773.1 ,	29409331 gb AAM67407.1 ,
29409319 gb AAM67397.1 ,	29409311 gb AAM67390.1 ,	29409300 gb AAM67380.1 ,
39777439 gb AAR31015.1 ,	39777429 gb AAR31006.1 ,	39777419 gb AAR30997.1 ,
39777409 gb AAR30988.1 ,	39777399 gb AAR30979.1 ,	39777389 gb AAR30970.1 ,
39777379 gb AAR30961.1 ,	38491941 gb AAR22304.1 ,	38491931 gb AAR22295.1 ,
38491920 gb AAR22285.1 ,	38491904 gb AAR22271.1 ,	38491894 gb AAR22262.1 ,
38491885 gb AAR22254.1 ,	38491875 gb AAR22245.1 ,	38491865 gb AAR22236.1 ,

38491856 gb AAR22228.1 ,	38491846 gb AAR22219.1 ,	38491836 gb AAR22210.1 ,
38491826 gb AAR22201.1 ,	38491816 gb AAR22192.1 ,	38491806 gb AAR22183.1 ,
38491796 gb AAR22174.1 ,	38491786 gb AAR22165.1 ,	38491776 gb AAR22156.1 ,
38491767 gb AAR22148.1 ,	38491759 gb AAR22141.1 ,	38491749 gb AAR22132.1 ,
38491739 gb AAR22123.1 ,	38491728 gb AAR22114.1 ,	38491718 gb AAR22105.1 ,
38491708 gb AAR22096.1 ,	38491700 gb AAR22089.1 ,	38491692 gb AAR22082.1 ,
38491683 gb AAR22074.1 ,	38491673 gb AAR22065.1 ,	38491663 gb AAR22056.1 ,
38491653 gb AAR22047.1 ,	38491643 gb AAR22038.1 ,	38491633 gb AAR22029.1 ,
38491623 gb AAR22020.1 ,	38491617 gb AAR22015.1 ,	38491610 gb AAR22009.1 ,
38491601 gb AAR22001.1 ,	38491591 gb AAR21992.1 ,	38491581 gb AAR21983.1 ,
38491571 gb AAR21974.1 ,	38491561 gb AAR21965.1 ,	38491551 gb AAR21956.1 ,
38491541 gb AAR21947.1 ,	38491532 gb AAR21939.1 ,	38491524 gb AAR21932.1 ,
38491515 gb AAR21924.1 ,	38491505 gb AAR21915.1 ,	38491495 gb AAR21906.1 ,
38491485 gb AAR21897.1 ,	37683042 gb AAQ98598.1 ,	37683032 gb AAQ98589.1 ,
37683022 gb AAQ98580.1 ,	37683013 gb AAQ98572.1 ,	37683003 gb AAQ98563.1 ,
37682993 gb AAQ98554.1 ,	37682983 gb AAQ98545.1 ,	37682973 gb AAQ98536.1 ,
37682963 gb AAQ98527.1 ,	37682953 gb AAQ98518.1 ,	37682943 gb AAQ98509.1 ,
37682933 gb AAQ98500.1 ,	37682923 gb AAQ98491.1 ,	37682915 gb AAQ98484.1 ,
37682905 gb AAQ98475.1 ,	37682894 gb AAQ98466.1 ,	37682884 gb AAQ98457.1 ,
37682877 gb AAQ98451.1 ,	37682875 gb AAQ98450.1 ,	37682873 gb AAQ98449.1 ,
37682866 gb AAQ98443.1 ,	37682856 gb AAQ98434.1 ,	37682846 gb AAQ98425.1 ,
37682836 gb AAQ98416.1 ,	37682826 gb AAQ98407.1 ,	37682816 gb AAQ98398.1 ,
37682806 gb AAQ98389.1 ,	37682796 gb AAQ98380.1 ,	37682786 gb AAQ98371.1 ,
37682776 gb AAQ98362.1 ,	37682766 gb AAQ98353.1 ,	37682756 gb AAQ98344.1 ,
37682746 gb AAQ98335.1 ,	37682736 gb AAQ98326.1 ,	37682726 gb AAQ98317.1 ,
37682716 gb AAQ98308.1 ,	37682706 gb AAQ98299.1 ,	33331480 gb AAQ10924.1 ,
33331470 gb AAQ10915.1 ,	33331460 gb AAQ10906.1 ,	4336347 gb AAD17773.1 ,
4336338 gb AAD17764.1 ,	37935589 gb AAO65562.1 ,	37909410 gb AAO65571.1 ,
37935984 gb AAO47221.1 ,	37935974 gb AAO47212.1 ,	37935964 gb AAO47203.1 ,
37935955 gb AAO47195.1 ,	37935945 gb AAO47186.1 ,	37935935 gb AAO47177.1 ,
37935925 gb AAO47168.1 ,	37935915 gb AAO47159.1 ,	37935904 gb AAO47150.1 ,
37935895 gb AAO47142.1 ,	37935884 gb AAO47133.1 ,	37935875 gb AAO47125.1 ,
37935865 gb AAO47116.1 ,	37935855 gb AAO47107.1 ,	37935845 gb AAO47098.1 ,
30269371 gb AAP29649.1 ,	19908412 gb AAL96767.1 ,	34811838 gb AAO40781.1 ,
32189804 gb AAP75715.1 ,	28933407 gb AAO62621.1 AF468970_6,	
23394931 gb AAN31652.1 ,	23394924 gb AAN31646.1 ,	33390885 gb AAQ17104.1 ,
32344851 gb AAM82306.1 ,	32344841 gb AAM82297.1 ,	33328325 gb AAQ09614.1 ,
33328203 gb AAQ09551.1 ,	33328193 gb AAQ09542.1 ,	30720411 gb AAP33679.1 ,
25807942 gb AAN74529.1 ,	25807932 gb AAN74520.1 ,	30038319 gb AAP12632.1 ,
30027261 gb AAP06264.1 ,	29119347 gb AAO63260.1 ,	29119335 gb AAO63249.1 ,
29119329 gb AAO63244.1 ,	29119320 gb AAO63236.1 ,	29119310 gb AAO63227.1 ,
29119301 gb AAO63219.1 ,	29119291 gb AAO63210.1 ,	29119281 gb AAO63201.1 ,
29119271 gb AAO63192.1 ,	29119264 gb AAO63186.1 ,	26518642 gb AAN83916.1 ,
24754009 gb AAN64127.1 ,	24753999 gb AAN64118.1 ,	24753988 gb AAN64109.1 ,
24753977 gb AAN64100.1 ,	24753966 gb AAN64091.1 ,	24753954 gb AAN64081.1 ,
24181513 gb AAN47132.1 ,	24181503 gb AAN47123.1 ,	24181493 gb AAN47114.1 ,
24181483 gb AAN47105.1 ,	22596584 gb AAN03337.1 AF457091_1,	
22596579 gb AAN03333.1 AF457090_6,	22596569 gb AAN03324.1 AF457089_6,	

22596559 gb AAN03315.1 AF457088_6,	22596549 gb AAN03306.1 AF457087_6,
22596539 gb AAN03297.1 AF457086_6,	22596529 gb AAN03288.1 AF457085_6,
22596519 gb AAN03279.1 AF457084_6,	22596509 gb AAN03270.1 AF457083_6,
22596499 gb AAN03261.1 AF457082_6,	22596489 gb AAN03252.1 AF457081_6,
22596479 gb AAN03243.1 AF457080_6,	22596469 gb AAN03234.1 AF457079_6,
22596459 gb AAN03225.1 AF457078_6,	22596449 gb AAN03216.1 AF457077_6,
22596436 gb AAN03205.1 AF457075_6,	22596424 gb AAN03195.1 AF457073_6,
22596414 gb AAN03186.1 AF457072_6,	22596403 gb AAN03177.1 AF457070_6,
22596393 gb AAN03168.1 AF457069_6,	22596383 gb AAN03159.1 AF457068_6,
22596373 gb AAN03150.1 AF457067_6,	22596363 gb AAN03141.1 AF457066_6,
22596353 gb AAN03132.1 AF457065_6,	22596343 gb AAN03123.1 AF457064_6,
22596333 gb AAN03114.1 AF457063_6,	22596323 gb AAN03105.1 AF457062_6,
22596313 gb AAN03096.1 AF457061_6,	22596298 gb AAN03083.1 AF457059_6,
22596288 gb AAN03074.1 AF457058_6,	22596277 gb AAN03065.1 AF457056_6,
22596267 gb AAN03056.1 AF457055_6,	22596247 gb AAN03038.1 AF457053_6,
22596237 gb AAN03029.1 AF457052_6,	22596227 gb AAN03020.1 AF457051_6,
2286139 gb AAB64285.1 ,	2286130 gb AAB64277.1 ,
17902142 gb AAL47807.1 ,	17902131 gb AAL47798.1 ,
17902109 gb AAL47780.1 ,	17902098 gb AAL47771.1 ,
17864046 gb AAL47040.1 ,	17864056 gb AAL47049.1 ,
22532297 gb AAM97890.1 AF492624_6,	22532287 gb AAM97881.1 AF492623_6,
22532145 gb AAM97856.1 AF460974_6,	22532136 gb AAM97848.1 AF460972_6,
22297045 gb AAM94501.1 ,	902804 gb AAB60576.1 ,
1465782 gb AAB05603.1 ,	1171170 gb AAA86251.1 ,
60652141 gb AAX33205.1 ,	60652128 gb AAX33193.1 ,
60652108 gb AAX33175.1 ,	60652098 gb AAX33166.1 ,
60652078 gb AAX33148.1 ,	60652071 gb AAX33142.1 ,
60652050 gb AAX33123.1 ,	60652040 gb AAX33114.1 ,
60652020 gb AAX33096.1 ,	60652011 gb AAX33088.1 ,
60651991 gb AAX33070.1 ,	60651981 gb AAX33061.1 ,
60651961 gb AAX33043.1 ,	60651951 gb AAX33034.1 ,
60651931 gb AAX33016.1 ,	60651921 gb AAX33007.1 ,
60651902 gb AAX32990.1 ,	60651892 gb AAX32981.1 ,
60651872 gb AAX32963.1 ,	60651862 gb AAX32954.1 ,
60651843 gb AAX32937.1 ,	60651833 gb AAX32928.1 ,
60544782 gb AAX22728.1 ,	71726047 gb AAZ39175.1 ,
71726027 gb AAZ39157.1 ,	71726017 gb AAZ39148.1 ,
71725997 gb AAZ39130.1 ,	71725987 gb AAZ39121.1 ,
71725967 gb AAZ39103.1 ,	71725957 gb AAZ39094.1 ,
62956392 gb AAY23525.1 ,	62956381 gb AAY23515.1 ,
62956360 gb AAY23496.1 ,	83026818 gb ABB96453.1 ,
83026800 gb ABB96437.1 ,	83026790 gb ABB96428.1 ,
14579597 gb AAK69316.1 ,	82571411 gb ABB84168.1 ,
82571391 gb ABB84150.1 ,	82571384 gb ABB84144.1 ,
82571364 gb ABB84126.1 ,	82571354 gb ABB84117.1 ,
82571334 gb ABB84099.1 ,	82571324 gb ABB84090.1 ,
82571304 gb ABB84072.1 ,	82571294 gb ABB84063.1 ,
82571274 gb ABB84045.1 ,	82571265 gb ABB84037.1 ,
	818220 gb AAB47932.1 ,
	326428 gb AAA44219.1 ,
	60652118 gb AAX33184.1 ,
	60652088 gb AAX33157.1 ,
	60652060 gb AAX33132.1 ,
	60652030 gb AAX33105.1 ,
	60652001 gb AAX33079.1 ,
	60651971 gb AAX33052.1 ,
	60651941 gb AAX33025.1 ,
	60651911 gb AAX32998.1 ,
	60651882 gb AAX32972.1 ,
	60651852 gb AAX32945.1 ,
	60544792 gb AAX22737.1 ,
	71726037 gb AAZ39166.1 ,
	71726007 gb AAZ39139.1 ,
	71725977 gb AAZ39112.1 ,
	62956404 gb AAY23536.1 ,
	62956371 gb AAY23506.1 ,
	83026810 gb ABB96446.1 ,
	83026780 gb ABB96419.1 ,
	82571401 gb ABB84159.1 ,
	82571374 gb ABB84135.1 ,
	82571344 gb ABB84108.1 ,
	82571314 gb ABB84081.1 ,
	82571284 gb ABB84054.1 ,
	82571255 gb ABB84028.1 ,

|82571245|gb|ABB84019.1|, |82571235|gb|ABB84010.1|, |82571225|gb|ABB84001.1|,
 |82571206|gb|ABB83984.1|, |82571196|gb|ABB83975.1|,
 |82322076|sp|Q50D72|Q50D72_9HIV1, |82322073|sp|Q50D63|Q50D63_9HIV1,
 |82322070|sp|Q50D56|Q50D56_9HIV1, |82321311|sp|Q507F0|Q507F0_9HIV1,
 |82321307|sp|Q507E4|Q507E4_9HIV1, |82321303|sp|Q507C9|Q507C9_9HIV1,
 |82321301|sp|Q507C1|Q507C1_9HIV1, |82321298|sp|Q507B5|Q507B5_9HIV1,
 |82321027|sp|Q52VK9|Q52VK9_9HIV1, |82320177|sp|Q9YVF0|Q9YVF0_9HIV1,
 |82320171|sp|Q9YV16|Q9YV16_9HIV1, |82320170|sp|Q9YV02|Q9YV02_9HIV1,
 |82320169|sp|Q9YUZ5|Q9YUZ5_9HIV1, |82320029|sp|Q9WSF5|Q9WSF5_9HIV1,
 |82320028|sp|Q9WSE6|Q9WSE6_9HIV1, |82320027|sp|Q9WS47|Q9WS47_9HIV1,
 |82319988|sp|Q9WQI4|Q9WQI4_9HIV1, |82319987|sp|Q9WQH6|Q9WQH6_9HIV1,
 |82319978|sp|Q9WLH7|Q9WLH7_9HIV1, |82319977|sp|Q9WLH0|Q9WLH0_9HIV1,
 |82319893|sp|Q9WIR9|Q9WIR9_9HIV1, |82319794|sp|Q9WC67|Q9WC67_9HIV1,
 |82319793|sp|Q9WC58|Q9WC58_9HIV1, |82319774|sp|Q9QSU4|Q9QSU4_9HIV1,
 |82319773|sp|Q9QST5|Q9QST5_9HIV1, |82319772|sp|Q9QSS6|Q9QSS6_9HIV1,
 |82319771|sp|Q9QSR8|Q9QSR8_9HIV1, |82319770|sp|Q9QSQ9|Q9QSQ9_9HIV1,
 |82319756|sp|Q9QML7|Q9QML7_9HIV1, |82319755|sp|Q9QMK9|Q9QMK9_9HIV1,
 |82319754|sp|Q9QM85|Q9QM85_9HIV1, |82319629|sp|Q9Q6Y8|Q9Q6Y8_9HIV1,
 |82319628|sp|Q9Q6X1|Q9Q6X1_9HIV1, |82319627|sp|Q9Q6W0|Q9Q6W0_9HIV1,
 |82319626|sp|Q9Q6V2|Q9Q6V2_9HIV1, |82319545|sp|Q9JAC3|Q9JAC3_9HIV1,
 |82319476|sp|Q9IW65|Q9IW65_9HIV1, |82319475|sp|Q9IW48|Q9IW48_9HIV1,
 |82319473|sp|Q9IW39|Q9IW39_9HIV1, |82319470|sp|Q9IV99|Q9IV99_9HIV1,
 |82319469|sp|Q9IV90|Q9IV90_9HIV1, |82319468|sp|Q9IV14|Q9IV14_9HIV1,
 |82319102|sp|Q9IDV4|Q9IDV4_9HIV1, |82319101|sp|Q9IDA0|Q9IDA0_9HIV1,
 |82319100|sp|Q9ID91|Q9ID91_9HIV1, |82318835|sp|Q9DQ28|Q9DQ28_9HIV1,
 |82318834|sp|Q9DQ11|Q9DQ11_9HIV1, |82318833|sp|Q9DQ04|Q9DQ04_9HIV1,
 |82318812|sp|Q9DGV0|Q9DGV0_9HIV1, |82318651|sp|Q998H3|Q998H3_9HIV1,
 |82318634|sp|Q994R7|Q994R7_9HIV1, |82318633|sp|Q994Q8|Q994Q8_9HIV1,
 |82318632|sp|Q994P9|Q994P9_9HIV1, |82318631|sp|Q994P0|Q994P0_9HIV1,
 |82318630|sp|Q994N1|Q994N1_9HIV1, |82318629|sp|Q994M2|Q994M2_9HIV1,
 |82318627|sp|Q994L3|Q994L3_9HIV1, |82318626|sp|Q994K4|Q994K4_9HIV1,
 |82318625|sp|Q994J5|Q994J5_9HIV1, |82318624|sp|Q994I6|Q994I6_9HIV1,
 |82318623|sp|Q994H7|Q994H7_9HIV1, |82318622|sp|Q994G8|Q994G8_9HIV1,
 |82318621|sp|Q994F9|Q994F9_9HIV1, |82318611|sp|Q993N4|Q993N4_9HIV1,
 |82318610|sp|Q993N3|Q993N3_9HIV1, |82318609|sp|Q993N2|Q993N2_9HIV1,
 |82318608|sp|Q993N1|Q993N1_9HIV1, |82318607|sp|Q993N0|Q993N0_9HIV1,
 |82318606|sp|Q993M9|Q993M9_9HIV1, |82318605|sp|Q993M7|Q993M7_9HIV1,
 |82318433|sp|Q6JP20|Q6JP20_9HIV1, |82318432|sp|Q6JP11|Q6JP11_9HIV1,
 |82318431|sp|Q6JP02|Q6JP02_9HIV1, |82318430|sp|Q6JNY4|Q6JNY4_9HIV1,
 |82318429|sp|Q6JNX5|Q6JNX5_9HIV1, |82318428|sp|Q6JNW6|Q6JNW6_9HIV1,
 |82318427|sp|Q6JNV7|Q6JNV7_9HIV1, |82318426|sp|Q6JNU8|Q6JNU8_9HIV1,
 |82318425|sp|Q6JNT9|Q6JNT9_9HIV1, |82318424|sp|Q6JNT0|Q6JNT0_9HIV1,
 |82318423|sp|Q6JNS1|Q6JNS1_9HIV1, |82318422|sp|Q6JNR2|Q6JNR2_9HIV1,
 |82318421|sp|Q6JNQ3|Q6JNQ3_9HIV1, |82318420|sp|Q6JNP4|Q6JNP4_9HIV1,
 |82318419|sp|Q6JNN5|Q6JNN5_9HIV1, |82318418|sp|Q6JNM6|Q6JNM6_9HIV1,
 |82318417|sp|Q6JNM0|Q6JNM0_9HIV1, |82318416|sp|Q6JNL9|Q6JNL9_9HIV1,
 |82318415|sp|Q6JNL8|Q6JNL8_9HIV1, |82318414|sp|Q6JNL2|Q6JNL2_9HIV1,
 |82318413|sp|Q6JNK3|Q6JNK3_9HIV1, |82318412|sp|Q6JNJ4|Q6JNJ4_9HIV1,

|82318411|sp|Q6JN15|Q6JN15_9HIV1,
 |82318408|sp|Q6JNG9|Q6JNG9_9HIV1,
 |82318406|sp|Q6JNF1|Q6JNF1_9HIV1,
 |82318404|sp|Q6JNC4|Q6JNC4_9HIV1,
 |82318402|sp|Q6JNA6|Q6JNA6_9HIV1,
 |82318400|sp|Q6JN89|Q6JN89_9HIV1,
 |82318398|sp|Q6JN71|Q6JN71_9HIV1,
 |82317975|sp|Q6H1S9|Q6H1S9_9HIV1,
 |82317973|sp|Q6H1R1|Q6H1R1_9HIV1,
 |82317971|sp|Q6H1P3|Q6H1P3_9HIV1,
 |82317969|sp|Q6H1M5|Q6H1M5_9HIV1,
 |82317950|sp|Q6EG60|Q6EG60_9HIV1,
 |82317947|sp|Q6EG24|Q6EG24_9HIV1,
 |82317944|sp|Q6EFY8|Q6EFY8_9HIV1,
 |82317941|sp|Q6EFW1|Q6EFW1_9HIV1,
 |82317937|sp|Q6EFM3|Q6EFM3_9HIV1,
 |82317781|sp|Q69GT2|Q69GT2_9HIV1,
 |82317779|sp|Q69GR4|Q69GR4_9HIV1,
 |82317777|sp|Q69GP6|Q69GP6_9HIV1,
 |82317775|sp|Q69GM8|Q69GM8_9HIV1,
 |82317643|sp|Q673U6|Q673U6_9HIV1,
 |82317641|sp|Q672T7|Q672T7_9HIV1,
 |82317639|sp|Q672S1|Q672S1_9HIV1,
 |82317632|sp|Q66TS6|Q66TS6_9HIV1,
 |82317630|sp|Q66TQ7|Q66TQ7_9HIV1,
 |82317484|sp|Q5VGP8|Q5VGP8_9HIV1,
 |82317197|sp|Q5UEG7|Q5UEG7_9HIV1,
 |82317085|sp|Q5U9B2|Q5U9B2_9HIV1,
 |82317083|sp|Q5U995|Q5U995_9HIV1,
 |82317081|sp|Q5U980|Q5U980_9HIV1,
 |82317079|sp|Q5U962|Q5U962_9HIV1,
 |82317077|sp|Q5U940|Q5U940_9HIV1,
 |82317075|sp|Q5U8J8|Q5U8J8_9HIV1,
 |82317073|sp|Q5U8I0|Q5U8I0_9HIV1,
 |82317071|sp|Q5U8G2|Q5U8G2_9HIV1,
 |82317069|sp|Q5U8D5|Q5U8D5_9HIV1,
 |82317067|sp|Q5U8B7|Q5U8B7_9HIV1,
 |82317063|sp|Q5U890|Q5U890_9HIV1,
 |82317055|sp|Q5SFQ3|Q5SFQ3_9HIV1,
 |82315002|sp|Q5QCV0|Q5QCV0_9HIV1,
 |82315000|sp|Q5QCT2|Q5QCT2_9HIV1,
 |82314998|sp|Q5QCR4|Q5QCR4_9HIV1,
 |82314915|sp|Q5PYN9|Q5PYN9_9HIV1,
 |82314715|sp|Q90QP9|Q90QP9_9HIV1,
 |82314596|sp|Q90MM5|Q90MM5_9HIV1,
 |82314594|sp|Q90MK7|Q90MK7_9HIV1,
 |82314306|sp|Q90DU3|Q90DU3_9HIV1,
 |82314188|sp|Q90D17|Q90D17_9HIV1,

|82318410|sp|Q6JNH8|Q6JNH8_9HIV1,
 |82318407|sp|Q6JNG0|Q6JNG0_9HIV1,
 |82318405|sp|Q6JNE2|Q6JNE2_9HIV1,
 |82318403|sp|Q6JNB5|Q6JNB5_9HIV1,
 |82318401|sp|Q6JN97|Q6JN97_9HIV1,
 |82318399|sp|Q6JN80|Q6JN80_9HIV1,
 |82317976|sp|Q6H1T8|Q6H1T8_9HIV1,
 |82317974|sp|Q6H1S0|Q6H1S0_9HIV1,
 |82317972|sp|Q6H1Q2|Q6H1Q2_9HIV1,
 |82317970|sp|Q6H1N4|Q6H1N4_9HIV1,
 |82317953|sp|Q6EG87|Q6EG87_9HIV1,
 |82317949|sp|Q6EG42|Q6EG42_9HIV1,
 |82317945|sp|Q6EFZ7|Q6EFZ7_9HIV1,
 |82317943|sp|Q6EFX9|Q6EFX9_9HIV1,
 |82317938|sp|Q6EFN2|Q6EFN2_9HIV1,
 |82317782|sp|Q6B4P3|Q6B4P3_9HIV1,
 |82317780|sp|Q69GS3|Q69GS3_9HIV1,
 |82317778|sp|Q69GQ5|Q69GQ5_9HIV1,
 |82317776|sp|Q69GN7|Q69GN7_9HIV1,
 |82317644|sp|Q673V8|Q673V8_9HIV1,
 |82317642|sp|Q672U5|Q672U5_9HIV1,
 |82317640|sp|Q672S9|Q672S9_9HIV1,
 |82317633|sp|Q66TT6|Q66TT6_9HIV1,
 |82317631|sp|Q66TR8|Q66TR8_9HIV1,
 |82317628|sp|Q66Q72|Q66Q72_9HIV1,
 |82317198|sp|Q5UEH6|Q5UEH6_9HIV1,
 |82317086|sp|Q5U9C1|Q5U9C1_9HIV1,
 |82317084|sp|Q5U9A4|Q5U9A4_9HIV1,
 |82317082|sp|Q5U987|Q5U987_9HIV1,
 |82317080|sp|Q5U971|Q5U971_9HIV1,
 |82317078|sp|Q5U947|Q5U947_9HIV1,
 |82317076|sp|Q5U8K7|Q5U8K7_9HIV1,
 |82317074|sp|Q5U8I9|Q5U8I9_9HIV1,
 |82317072|sp|Q5U8H1|Q5U8H1_9HIV1,
 |82317070|sp|Q5U8F3|Q5U8F3_9HIV1,
 |82317068|sp|Q5U8C6|Q5U8C6_9HIV1,
 |82317066|sp|Q5U8A8|Q5U8A8_9HIV1,
 |82317062|sp|Q5U881|Q5U881_9HIV1,
 |82315003|sp|Q5QCV9|Q5QCV9_9HIV1,
 |82315001|sp|Q5QCU1|Q5QCU1_9HIV1,
 |82314999|sp|Q5QCS3|Q5QCS3_9HIV1,
 |82314916|sp|Q5PZV6|Q5PZV6_9HIV1,
 |82314914|sp|Q5PYM6|Q5PYM6_9HIV1,
 |82314714|sp|Q90QP2|Q90QP2_9HIV1,
 |82314595|sp|Q90ML6|Q90ML6_9HIV1,
 |82314307|sp|Q90DZ4|Q90DZ4_9HIV1,
 |82314189|sp|Q90D26|Q90D26_9HIV1,
 |82314187|sp|Q90D08|Q90D08_9HIV1,

82314186 sp Q90CZ9 Q90CZ9_9HIV1truncated,	82314185 sp Q90CZ0 Q90CZ0_9HIV1,
82314184 sp Q90CY1 Q90CY1_9HIV1,	82314183 sp Q90CX2 Q90CX2_9HIV1,
82314182 sp Q90CW4 Q90CW4_9HIV1,	82314181 sp Q90CV5 Q90CV5_9HIV1,
82314166 sp Q90CK8 Q90CK8_9HIV1,	82314165 sp Q90CJ9 Q90CJ9_9HIV1,
82314164 sp Q90CJ1 Q90CJ1_9HIV1,	82314163 sp Q90CI3 Q90CI3_9HIV1,
82314162 sp Q90CH5 Q90CH5_9HIV1,	82313943 sp Q902U4 Q902U4_9HIV1,
82313942 sp Q902T5 Q902T5_9HIV1,	82313941 sp Q902S6 Q902S6_9HIV1,
82313940 sp Q902R7 Q902R7_9HIV1,	82313939 sp Q902Q8 Q902Q8_9HIV1,
82313938 sp Q902P9 Q902P9_9HIV1,	82313937 sp Q902P0 Q902P0_9HIV1,
82313936 sp Q902N4 Q902N4_9HIV1,	82313935 sp Q902M6 Q902M6_9HIV1,
82313934 sp Q902L6 Q902L6_9HIV1,	82313933 sp Q902K7 Q902K7_9HIV1,
82313932 sp Q902K2 Q902K2_9HIV1,	82313931 sp Q902J5 Q902J5_9HIV1,
82313930 sp Q902I6 Q902I6_9HIV1,	82313929 sp Q902H7 Q902H7_9HIV1,
82313928 sp Q902G8 Q902G8_9HIV1,	82313927 sp Q902G1 Q902G1_9HIV1,
82313925 sp Q901Z2 Q901Z2_9HIV1,	82313924 sp Q901Y3 Q901Y3_9HIV1,
82313923 sp Q901X4 Q901X4_9HIV1,	82313922 sp Q901W5 Q901W5_9HIV1,
82313920 sp Q900Z6 Q900Z6_9HIV1,	82313919 sp Q900Y7 Q900Y7_9HIV1,
82313641 sp Q8UPQ7 Q8UPQ7_9HIV1,	82313640 sp Q8UPP9 Q8UPP9_9HIV1,
82313639 sp Q8UPP0 Q8UPP0_9HIV1,	82313638 sp Q8UPN2 Q8UPN2_9HIV1,
82313637 sp Q8UPM3 Q8UPM3_9HIV1,	82313636 sp Q8UPL4 Q8UPL4_9HIV1,
82313635 sp Q8UNM1 Q8UNM1_9HIV1,	82313634 sp Q8UNL2 Q8UNL2_9HIV1,
82313633 sp Q8UNK3 Q8UNK3_9HIV1,	82313585 sp Q8UMG7 Q8UMG7_9HIV1,
82313584 sp Q8UMF8 Q8UMF8_9HIV1,	82313581 sp Q8UMD6 Q8UMD6_9HIV1,
82313472 sp Q8QDF7 Q8QDF7_9HIV1,	82313467 sp Q8Q7Z2 Q8Q7Z2_9HIV1,
82313383 sp Q8Q2F4 Q8Q2F4_9HIV1,	82313382 sp Q8Q0Y4 Q8Q0Y4_9HIV1,
82313374 sp Q8JDM8 Q8JDM8_9HIV1,	82313373 sp Q8JDM4 Q8JDM4_9HIV1,
82313372 sp Q8JDM1 Q8JDM1_9HIV1,	82313371 sp Q8JDL7 Q8JDL7_9HIV1,
82313370 sp Q8JDL3 Q8JDL3_9HIV1,	82313369 sp Q8JDK9 Q8JDK9_9HIV1,
82313368 sp Q8JDK5 Q8JDK5_9HIV1,	82313367 sp Q8JDK1 Q8JDK1_9HIV1,
82313366 sp Q8JDJ7 Q8JDJ7_9HIV1,	82313365 sp Q8JDJ3 Q8JDJ3_9HIV1,
82313364 sp Q8JDI9 Q8JDI9_9HIV1,	82313363 sp Q8JDI5 Q8JDI5_9HIV1,
82313362 sp Q8JDI1 Q8JDI1_9HIV1,	82313361 sp Q8JDH7 Q8JDH7_9HIV1,
82313360 sp Q8JDH3 Q8JDH3_9HIV1,	82313338 sp Q8JC73 Q8JC73_9HIV1,
82313337 sp Q8JC64 Q8JC64_9HIV1,	82313336 sp Q8JC55 Q8JC55_9HIV1,
82313335 sp Q8JC46 Q8JC46_9HIV1,	82313334 sp Q8JC37 Q8JC37_9HIV1,
82313333 sp Q8JC28 Q8JC28_9HIV1,	82313332 sp Q8JC19 Q8JC19_9HIV1,
82313331 sp Q8JC10 Q8JC10_9HIV1,	82313330 sp Q8JBZ7 Q8JBZ7_9HIV1,
82313329 sp Q8JBY8 Q8JBY8_9HIV1,	82313328 sp Q8JBX9 Q8JBX9_9HIV1,
82313327 sp Q8JBX0 Q8JBX0_9HIV1,	82313326 sp Q8JBW1 Q8JBW1_9HIV1,
82313325 sp Q8JBV2 Q8JBV2_9HIV1,	82313324 sp Q8JBU3 Q8JBU3_9HIV1,
82313323 sp Q8JBT4 Q8JBT4_9HIV1,	82313322 sp Q8JBS5 Q8JBS5_9HIV1,
82313321 sp Q8JBR6 Q8JBR6_9HIV1,	82313320 sp Q8JBQ7 Q8JBQ7_9HIV1,
82313319 sp Q8JBP8 Q8JBP8_9HIV1,	82313318 sp Q8JBN8 Q8JBN8_9HIV1,
82313317 sp Q8JBM7 Q8JBM7_9HIV1,	82313316 sp Q8JBL8 Q8JBL8_9HIV1,
82313315 sp Q8JBK9 Q8JBK9_9HIV1,	82313314 sp Q8JBK0 Q8JBK0_9HIV1,
82313313 sp Q8JBJ1 Q8JBJ1_9HIV1,	82313312 sp Q8JBI2 Q8JBI2_9HIV1,
82313311 sp Q8JBH3 Q8JBH3_9HIV1,	82313310 sp Q8JBG4 Q8JBG4_9HIV1,
82313309 sp Q8JBF5 Q8JBF5_9HIV1,	82313308 sp Q8JBE6 Q8JBE6_9HIV1,

82313307 sp Q8JBD7 Q8JBD7_9HIV1,	82313306 sp Q8JBC8 Q8JBC8_9HIV1,
82313305 sp Q8JBB9 Q8JBB9_9HIV1,	82313304 sp Q8JBB0 Q8JBB0_9HIV1,
82313303 sp Q8JBA6 Q8JBA6_9HIV1,	82313302 sp Q8JAX8 Q8JAX8_9HIV1,
82313301 sp Q8JAX0 Q8JAX0_9HIV1,	82313290 sp Q8J9C0 Q8J9C0_9HIV1,
82313289 sp Q8J9B1 Q8J9B1_9HIV1,	82312946 sp Q8J3U5 Q8J3U5_9HIV1,
82312899 sp Q8AUI0 Q8AUI0_9HIV1,	82312898 sp Q8AU88 Q8AU88_9HIV1,
82312897 sp Q8AU79 Q8AU79_9HIV1,	82312896 sp Q8AU70 Q8AU70_9HIV1,
82312895 sp Q8AU61 Q8AU61_9HIV1,	82312859 sp Q8ATN9 Q8ATN9_9HIV1,
82312858 sp Q8ATN3 Q8ATN3_9HIV1,	82312853 sp Q8AQV9 Q8AQV9_9HIV1,
82312852 sp Q8AQV0 Q8AQV0_9HIV1,	82312851 sp Q8AQU1 Q8AQU1_9HIV1,
82312850 sp Q8AQT2 Q8AQT2_9HIV1,	82312849 sp Q8AQS3 Q8AQS3_9HIV1,
82312746 sp Q8AMN0 Q8AMN0_9HIV1	truncated,
82312732 sp Q8AK11 Q8AK11_9HIV1,	82312731 sp Q8AK02 Q8AK02_9HIV1,
82312587 sp Q8AF23 Q8AF23_9HIV1,	82312579 sp Q8AEW6 Q8AEW6_9HIV1,
82312541 sp Q8AE76 Q8AE76_9HIV1,	82312540 sp Q8AE68 Q8AE68_9HIV1,
82312539 sp Q8AE60 Q8AE60_9HIV1,	82312538 sp Q8AE52 Q8AE52_9HIV1,
82312537 sp Q8AE44 Q8AE44_9HIV1,	82312536 sp Q8AE36 Q8AE36_9HIV1,
82312535 sp Q8AE28 Q8AE28_9HIV1,	82312534 sp Q8AE24 Q8AE24_9HIV1,
82312533 sp Q8AE19 Q8AE19_9HIV1truncated,	82312532 sp Q8AE11 Q8AE11_9HIV1,
82312531 sp Q8AE03 Q8AE03_9HIV1,	82312530 sp Q8ADZ5 Q8ADZ5_9HIV1,
82312529 sp Q8ADY7 Q8ADY7_9HIV1,	82312528 sp Q8ADX9 Q8ADX9_9HIV1,
82312527 sp Q8ADX1 Q8ADX1_9HIV1,	82312526 sp Q8ADW3 Q8ADW3_9HIV1,
82312525 sp Q8ADV5 Q8ADV5_9HIV1,	82312524 sp Q8ADU7 Q8ADU7_9HIV1,
82312523 sp Q8ADT9 Q8ADT9_9HIV1,	82312522 sp Q8ADT1 Q8ADT1_9HIV1,
82312521 sp Q8ADS3 Q8ADS3_9HIV1,	82312520 sp Q8ADR5 Q8ADR5_9HIV1,
82312519 sp Q8ADQ7 Q8ADQ7_9HIV1,	82312518 sp Q8ADP9 Q8ADP9_9HIV1,
82312517 sp Q8ADP1 Q8ADP1_9HIV1,	82312516 sp Q8ADN3 Q8ADN3_9HIV1,
82312515 sp Q8ADM5 Q8ADM5_9HIV1,	82312514 sp Q8ADL7 Q8ADL7_9HIV1,
82312513 sp Q8ADK9 Q8ADK9_9HIV1,	82312511 sp Q8ADK1 Q8ADK1_9HIV1,
82312510 sp Q8ADJ3 Q8ADJ3_9HIV1,	82312509 sp Q8ADI5 Q8ADI5_9HIV1,
82312508 sp Q8ADH7 Q8ADH7_9HIV1,	82312507 sp Q8ADG9 Q8ADG9_9HIV1,
82312506 sp Q8ADG1 Q8ADG1_9HIV1,	82312505 sp Q8ADF3 Q8ADF3_9HIV1,
82312504 sp Q8ADE5 Q8ADE5_9HIV1,	82312503 sp Q8ADD7 Q8ADD7_9HIV1,
82312502 sp Q8ADC9 Q8ADC9_9HIV1,	82312501 sp Q8ADC1 Q8ADC1_9HIV1,
82312500 sp Q8ADB3 Q8ADB3_9HIV1,	82312499 sp Q8ADA5 Q8ADA5_9HIV1,
82312498 sp Q8AD97 Q8AD97_9HIV1,	82312497 sp Q8AD89 Q8AD89_9HIV1,
82312496 sp Q8AD81 Q8AD81_9HIV1,	82312495 sp Q8AD73 Q8AD73_9HIV1,
82312480 sp Q8ACA9 Q8ACA9_9HIV1,	82312477 sp Q8AC83 Q8AC83_9HIV1,
82312476 sp Q8AC75 Q8AC75_9HIV1truncated,	82312475 sp Q8AC67 Q8AC67_9HIV1,
82312474 sp Q8AC18 Q8AC18_9HIV1truncated,	82312179 sp Q7ZMI6 Q7ZMI6_9HIV1,
82312178 sp Q7ZMH7 Q7ZMH7_9HIV1,	82312177 sp Q7ZMG9 Q7ZMG9_9HIV1,
82312176 sp Q7ZMF9 Q7ZMF9_9HIV1,	82311990 sp Q7ZJJ3 Q7ZJJ3_9HIV1,
82311989 sp Q7ZJG3 Q7ZJG3_9HIV1,	82311988 sp Q7ZJF7 Q7ZJF7_9HIV1,
82311987 sp Q7ZJE8 Q7ZJE8_9HIV1,	82311986 sp Q7ZJD9 Q7ZJD9_9HIV1,
82311985 sp Q7ZJD0 Q7ZJD0_9HIV1,	82311984 sp Q7ZJC2 Q7ZJC2_9HIV1,
82311983 sp Q7ZJB3 Q7ZJB3_9HIV1,	82311982 sp Q7ZJA5 Q7ZJA5_9HIV1,
82311981 sp Q7ZJA0 Q7ZJA0_9HIV1,	82311980 sp Q7ZJ89 Q7ZJ89_9HIV1,
82311975 sp Q7ZGR6 Q7ZGR6_9HIV1,	82311700 sp Q7ZC22 Q7ZC22_9HIV1,

|82311695|sp|Q7ZBG3|Q7ZBG3_9HIV1,
|82311618|sp|Q7SV24|Q7SV24_9HIV1,
|82311616|sp|Q7SV06|Q7SV06_9HIV1,
|82311614|sp|Q7SUZ0|Q7SUZ0_9HIV1,
|82311612|sp|Q7SUX2|Q7SUX2_9HIV1,
|82311542|sp|Q7SQA9|Q7SQA9_9HIV1,
|82311539|sp|Q7SQ50|Q7SQ50_9HIV1,
|82311534|sp|Q7SPU4|Q7SPU4_9HIV1,
|82311518|sp|Q7SPQ5|Q7SPQ5_9HIV1,
|82311422|sp|Q7SKH5|Q7SKH5_9HIV1,
|82311420|sp|Q7SKF7|Q7SKF7_9HIV1,
|82311418|sp|Q7SII3|Q7SII3_9HIV1,
|82311089|sp|Q75759|Q75759_9HIV1,
|82311059|sp|Q74811|Q74811_9HIV1,
|82311049|sp|Q72982|Q72982_9HIV1,
|82310923|sp|Q71AY7|Q71AY7_9HIV1,
|82310921|sp|Q71AW9|Q71AW9_9HIV1,
|82310818|sp|Q6YA59|Q6YA59_9HIV1,
|82310814|sp|Q6Y934|Q6Y934_9HIV1,
|82310812|sp|Q6Y916|Q6Y916_9HIV1,
|82310810|sp|Q6Y8Z8|Q6Y8Z8_9HIV1,
|82310807|sp|Q6Y8Y0|Q6Y8Y0_9HIV1,
|82310805|sp|Q6Y8W2|Q6Y8W2_9HIV1,
|82310803|sp|Q6Y8U4|Q6Y8U4_9HIV1,
|82310801|sp|Q6Y8S7|Q6Y8S7_9HIV1,
|82310798|sp|Q6XKC7|Q6XKC7_9HIV1,
|82310791|sp|Q6X6X3|Q6X6X3_9HIV1,
|82310789|sp|Q6X6V5|Q6X6V5_9HIV1,
|82310786|sp|Q6X6T8|Q6X6T8_9HIV1,
|82310784|sp|Q6X6S0|Q6X6S0_9HIV1,
|82310780|sp|Q6X6Q4|Q6X6Q4_9HIV1,
|82310778|sp|Q6X6N6|Q6X6N6_9HIV1,
|82310774|sp|Q6X6L9|Q6X6L9_9HIV1,
|82310772|sp|Q6X6K1|Q6X6K1_9HIV1,
|82310768|sp|Q6X6I6|Q6X6I6_9HIV1,
|82310764|sp|Q6X6G9|Q6X6G9_9HIV1,
|82310656|sp|Q6V3T5|Q6V3T5_9HIV1,
|82310617|sp|Q6UFQ7|Q6UFQ7_9HIV1,
|82310615|sp|Q6UFN9|Q6UFN9_9HIV1,
|82310613|sp|Q6UFM2|Q6UFM2_9HIV1,
|82310611|sp|Q6UFK7|Q6UFK7_9HIV1,
|82310609|sp|Q6UFI9|Q6UFI9_9HIV1,
|82310607|sp|Q6UFH1|Q6UFH1_9HIV1,
|82310605|sp|Q6UFF3|Q6UFF3_9HIV1,
|82310603|sp|Q6UFD9|Q6UFD9_9HIV1,
|82310601|sp|Q6UFC5|Q6UFC5_9HIV1,
|82310599|sp|Q6UFA7|Q6UFA7_9HIV1,
|82310597|sp|Q6UF89|Q6UF89_9HIV1,

|82311619|sp|Q7SV40|Q7SV40_9HIV1,
|82311617|sp|Q7SV15|Q7SV15_9HIV1,
|82311615|sp|Q7SUZ7|Q7SUZ7_9HIV1,
|82311613|sp|Q7SUY1|Q7SUY1_9HIV1,
|82311606|sp|Q7SQN0|Q7SQN0_9HIV1,
|82311541|sp|Q7SQA4|Q7SQA4_9HIV1,
|82311538|sp|Q7SQ41|Q7SQ41_9HIV1,
|82311533|sp|Q7SPT4|Q7SPT4_9HIV1,
|82311515|sp|Q7SPP9|Q7SPP9_9HIV1,
|82311421|sp|Q7SKG6|Q7SKG6_9HIV1,
|82311419|sp|Q7SIJ3|Q7SIJ3_9HIV1,
|82311201|sp|Q76PP8|Q76PP8_9HIV1,
|82311060|sp|Q74839|Q74839_9HIV1,
|82311050|sp|Q72991|Q72991_9HIV1,
|82310929|sp|Q72501|Q72501_9HIV1,
|82310922|sp|Q71AX8|Q71AX8_9HIV1,
|82310902|sp|Q71817|Q71817_9HIV1,
|82310815|sp|Q6Y943|Q6Y943_9HIV1,
|82310813|sp|Q6Y925|Q6Y925_9HIV1,
|82310811|sp|Q6Y907|Q6Y907_9HIV1,
|82310808|sp|Q6Y8Y9|Q6Y8Y9_9HIV1,
|82310806|sp|Q6Y8X1|Q6Y8X1_9HIV1,
|82310804|sp|Q6Y8V3|Q6Y8V3_9HIV1,
|82310802|sp|Q6Y8T6|Q6Y8T6_9HIV1,
|82310800|sp|Q6Y8R8|Q6Y8R8_9HIV1,
|82310797|sp|Q6XKB8|Q6XKB8_9HIV1,
|82310790|sp|Q6X6W4|Q6X6W4_9HIV1,
|82310787|sp|Q6X6U7|Q6X6U7_9HIV1,
|82310785|sp|Q6X6S9|Q6X6S9_9HIV1,
|82310783|sp|Q6X6R3|Q6X6R3_9HIV1,
|82310779|sp|Q6X6P5|Q6X6P5_9HIV1,
|82310777|sp|Q6X6M8|Q6X6M8_9HIV1,
|82310773|sp|Q6X6L0|Q6X6L0_9HIV1,
|82310771|sp|Q6X6J4|Q6X6J4_9HIV1,
|82310767|sp|Q6X6H7|Q6X6H7_9HIV1,
|82310747|sp|Q6WS71|Q6WS71_9HIV1,
|82310655|sp|Q6V3S7|Q6V3S7_9HIV1,
|82310616|sp|Q6UFP8|Q6UFP8_9HIV1,
|82310614|sp|Q6UFN0|Q6UFN0_9HIV1,
|82310612|sp|Q6UFL5|Q6UFL5_9HIV1,
|82310610|sp|Q6UFJ8|Q6UFJ8_9HIV1,
|82310608|sp|Q6UFI0|Q6UFI0_9HIV1,
|82310606|sp|Q6UFG2|Q6UFG2_9HIV1,
|82310604|sp|Q6UFE5|Q6UFE5_9HIV1,
|82310602|sp|Q6UFD4|Q6UFD4_9HIV1,
|82310600|sp|Q6UFB6|Q6UFB6_9HIV1,
|82310598|sp|Q6UF98|Q6UF98_9HIV1,
|82310596|sp|Q6UF80|Q6UF80_9HIV1,

82310595 sp Q6UF72 Q6UF72_9HIV1,	82310594 sp Q6UF65 Q6UF65_9HIV1,
82310593 sp Q6UF58 Q6UF58_9HIV1,	82310592 sp Q6UF49 Q6UF49_9HIV1,
82310591 sp Q6UF40 Q6UF40_9HIV1,	82310590 sp Q6UF31 Q6UF31_9HIV1,
82310589 sp Q6UF22 Q6UF22_9HIV1,	82310588 sp Q6UF13 Q6UF13_9HIV1,
82310587 sp Q6UF06 Q6UF06_9HIV1,	82310586 sp Q6UEZ8 Q6UEZ8_9HIV1,
82310585 sp Q6UEY9 Q6UEY9_9HIV1,	82310584 sp Q6UEY0 Q6UEY0_9HIV1,
82310583 sp Q6UEX1 Q6UEX1_9HIV1,	82310582 sp Q6UEW2 Q6UEW2_9HIV1,
82310581 sp Q6UEV3 Q6UEV3_9HIV1,	82310580 sp Q6UEU4 Q6UEU4_9HIV1,
82310579 sp Q6UET5 Q6UET5_9HIV1,	82310578 sp Q6UES6 Q6UES6_9HIV1,
82310577 sp Q6UER8 Q6UER8_9HIV1,	82310576 sp Q6UEQ9 Q6UEQ9_9HIV1,
82310575 sp Q6UEQ0 Q6UEQ0_9HIV1,	82310574 sp Q6UEP2 Q6UEP2_9HIV1,
82310573 sp Q6UEN3 Q6UEN3_9HIV1,	82310572 sp Q6UEL8 Q6UEL8_9HIV1,
82310571 sp Q6UEK9 Q6UEK9_9HIV1,	82310570 sp Q6UEK0 Q6UEK0_9HIV1,
82310468 sp Q6S887 Q6S887_9HIV1,	82310467 sp Q6S878 Q6S878_9HIV1,
82310466 sp Q6S863 Q6S863_9HIV1,	82310465 sp Q6S854 Q6S854_9HIV1,
82310464 sp Q6S846 Q6S846_9HIV1,	82310463 sp Q6S838 Q6S838_9HIV1,
82310462 sp Q6S831 Q6S831_9HIV1,	82310461 sp Q6S824 Q6S824_9HIV1,
82310460 sp Q6S815 Q6S815_9HIV1,	82310459 sp Q6S807 Q6S807_9HIV1,
82310458 sp Q6S7Z9 Q6S7Z9_9HIV1,	82310457 sp Q6S7Z2 Q6S7Z2_9HIV1,
82310456 sp Q6S7Y3 Q6S7Y3_9HIV1,	82310455 sp Q6S7X4 Q6S7X4_9HIV1,
82310454 sp Q6S7W5 Q6S7W5_9HIV1,	82310453 sp Q6S7V8 Q6S7V8_9HIV1,
82310452 sp Q6S7U9 Q6S7U9_9HIV1,	82310451 sp Q6S7U1 Q6S7U1_9HIV1,
82310450 sp Q6S7T2 Q6S7T2_9HIV1,	82310449 sp Q6S7S4 Q6S7S4_9HIV1,
82310411 sp Q6RJG0 Q6RJG0_9HIV1,	82310408 sp Q6RJE6 Q6RJE6_9HIV1,
82310404 sp Q6RJD2 Q6RJD2_9HIV1,	82310402 sp Q6RJC5 Q6RJC5_9HIV1,
82310399 sp Q6RJB1 Q6RJB1_9HIV1,	82310394 sp Q6RJ83 Q6RJ83_9HIV1,
82310392 sp Q6RJ76 Q6RJ76_9HIV1,	82310389 sp Q6RJ69 Q6RJ69_9HIV1,
82310387 sp Q6RJ62 Q6RJ62_9HIV1,	82310382 sp Q6RFP3 Q6RFP3_9HIV1,
82310039 sp Q6QKY1 Q6QKY1_9HIV1,	82310038 sp Q6QKX2 Q6QKX2_9HIV1,
82309906 sp Q6Q462 Q6Q462_9HIV1,	82309905 sp Q6Q453 Q6Q453_9HIV1,
82309904 sp Q6Q436 Q6Q436_9HIV1,	82309903 sp Q6Q2V9 Q6Q2V9_9HIV1,
82309902 sp Q6Q2V0 Q6Q2V0_9HIV1,	82309891 sp Q6PR27 Q6PR27_9HIV1,
82309890 sp Q6PR19 Q6PR19_9HIV1,	82309889 sp Q6PR11 Q6PR11_9HIV1mutant,
82309887 sp Q6PR04 Q6PR04_9HIV1mutant,	82309886 sp Q6PQZ6 Q6PQZ6_9HIV1,
82309884 sp Q5MJ74 Q5MJ74_9HIV1,	82309835 sp Q5MH14 Q5MH14_9HIV1,
82309832 sp Q5MH05 Q5MH05_9HIV1,	82309829 sp Q5MGZ6 Q5MGZ6_9HIV1,
82309826 sp Q5MGY7 Q5MGY7_9HIV1,	82309823 sp Q5MGX8 Q5MGX8_9HIV1,
82309820 sp Q5MGW9 Q5MGW9_9HIV1,	82309817 sp Q5MGW1 Q5MGW1_9HIV1,
82309812 sp Q5MGT8 Q5MGT8_9HIV1,	82309773 sp Q5G7F3 Q5G7F3_9HIV1,
82309772 sp Q5G7E4 Q5G7E4_9HIV1,	82309770 sp Q5G7C7 Q5G7C7_9HIV1,
82309769 sp Q5G7B8 Q5G7B8_9HIV1,	82309768 sp Q5G7A9 Q5G7A9_9HIV1,
82309754 sp Q5FY40 Q5FY40_9HIV1,	82309753 sp Q5FY31 Q5FY31_9HIV1,
82309752 sp Q5FY22 Q5FY22_9HIV1,	82309751 sp Q5FY13 Q5FY13_9HIV1,
82309750 sp Q5FY04 Q5FY04_9HIV1,	82309749 sp Q5FXZ5 Q5FXZ5_9HIV1,
82309748 sp Q5FXY6 Q5FXY6_9HIV1,	82309747 sp Q5FXX7 Q5FXX7_9HIV1,
82309746 sp Q5FXW8 Q5FXW8_9HIV1,	82309745 sp Q5FXV9 Q5FXV9_9HIV1,
82309744 sp Q5FXV0 Q5FXV0_9HIV1,	82309743 sp Q5FXT3 Q5FXT3_9HIV1,
82309742 sp Q5FXS4 Q5FXS4_9HIV1,	82309741 sp Q5FXR5 Q5FXR5_9HIV1,

82309740 sp Q5FXQ8 Q5FXQ8_9HIV1,	82309739 sp Q5FXP9 Q5FXP9_9HIV1,
82309738 sp Q5FXP0 Q5FXP0_9HIV1,	82309737 sp Q5FXN1 Q5FXN1_9HIV1,
82309556 sp Q5EEJ2 Q5EEJ2_9HIV1,	82309555 sp Q5EEI3 Q5EEI3_9HIV1,
82309554 sp Q5EEH4 Q5EEH4_9HIV1,	82309553 sp Q5EEG6 Q5EEG6_9HIV1,
82309552 sp Q5EEF7 Q5EEF7_9HIV1,	82309551 sp Q5EEE8 Q5EEE8_9HIV1,
82309550 sp Q5EED9 Q5EED9_9HIV1,	82309549 sp Q5EED1 Q5EED1_9HIV1,
82309548 sp Q5EEC2 Q5EEC2_9HIV1,	82309547 sp Q5EEB3 Q5EEB3_9HIV1,
82309546 sp Q5EEA4 Q5EEA4_9HIV1,	82309545 sp Q5EE96 Q5EE96_9HIV1,
82309544 sp Q5EE88 Q5EE88_9HIV1,	82309543 sp Q5EE79 Q5EE79_9HIV1,
82309542 sp Q5EE72 Q5EE72_9HIV1,	82309541 sp Q5EE64 Q5EE64_9HIV1,
82309540 sp Q5EE56 Q5EE56_9HIV1,	82309383 sp Q5C9Y5 Q5C9Y5_9HIV1,
82309380 sp Q5C9X6 Q5C9X6_9HIV1,	82309244 sp P90241 P90241_9HIV1,
82309217 sp P87922 P87922_9HIV1,	82309198 sp O93023 O93023_9HIV1,
82309193 sp O92896 O92896_9HIV1,	82309192 sp O92889 O92889_9HIV1,
82309191 sp O92886 O92886_9HIV1,	82309190 sp O92881 O92881_9HIV1,
82309171 sp O92298 O92298_9HIV1,	82309128 sp O90597 O90597_9HIV1,
82309126 sp O90594 O90594_9HIV1,	82309097 sp O71278 O71278_9HIV1,
82309096 sp O71268 O71268_9HIV1,	82308946 sp O42063 O42063_9HIV1,
82308901 sp O40220 O40220_9HIV1,	82308772 sp Q56CX7 Q56CX7_9HIV1,
82308768 sp Q56CX3 Q56CX3_9HIV1,	82282692 sp Q5FXU1 Q5FXU1_9HIV1,
78172859 gb ABB29390.1 ,	78172849 gb ABB29381.1 ,
78172829 gb ABB29363.1 ,	78172839 gb ABB29372.1 ,
63081182 gb AAV30344.1 truncated,	78172821 gb ABB29356.1 ,
55275251 gb AAV49464.1 ,	55275261 gb AAV49473.1 ,
55275221 gb AAV49437.1 ,	55275241 gb AAV49455.1 ,
55275191 gb AAV49410.1 ,	55275231 gb AAV49446.1 ,
55275161 gb AAV49383.1 ,	55275211 gb AAV49428.1 ,
55275131 gb AAV49356.1 ,	55275181 gb AAV49401.1 ,
73913980 gb AAZ91942.1 ,	55275151 gb AAV49374.1 ,
73913936 gb AAZ91903.1 ,	55275121 gb AAV49347.1 ,
73913907 gb AAZ91877.1 ,	73913998 gb AAZ91958.1 ,
73913878 gb AAZ91851.1 ,	73913970 gb AAZ91933.1 ,
73913848 gb AAZ91824.1 ,	73913926 gb AAZ91894.1 ,
73913818 gb AAZ91797.1 ,	73913897 gb AAZ91868.1 ,
73913789 gb AAZ91771.1 ,	73913868 gb AAZ91842.1 ,
73913759 gb AAZ91744.1 ,	73913838 gb AAZ91815.1 ,
37681536 gb AAQ97646.1 ,	73913808 gb AAZ91788.1 ,
37677899 gb AAQ97565.1 ,	73913779 gb AAZ91762.1 ,
37677869 gb AAQ97538.1 ,	46243169 gb AAS83695.1 ,
37677839 gb AAQ97511.1 ,	46243161 gb AAS83688.1 ,
37677809 gb AAQ97484.1 ,	37677909 gb AAQ97574.1 ,
37677779 gb AAQ97457.1 ,	37677889 gb AAQ97556.1 ,
62361777 gb AAX81425.1 ,	37677859 gb AAQ97529.1 ,
71794608 emb CAI28849.1 ,	37677829 gb AAQ97502.1 ,
71794580 emb CAI28822.1 ,	37677799 gb AAQ97475.1 ,
57901095 gb AAW57861.1 ,	37677769 gb AAQ97448.1 ,
57901063 gb AAW57832.1 ,	71794618 emb CAI28858.1 ,
58221022 gb AAW68198.1 ,	71794599 emb CAI28840.1 ,
	71794590 emb CAI28831.1 ,
	57901114 gb AAW57878.1 ,
	57901073 gb AAW57841.1 ,
	58221042 gb AAW68216.1 ,
	58221032 gb AAW68207.1 ,
	58221004 gb AAW68182.1 ,

58220994 gb AAW68173.1 ,	58220984 gb AAW68164.1 ,	58220975 gb AAW68156.1 ,
58220965 gb AAW68147.1 ,	58220955 gb AAW68138.1 ,	58220945 gb AAW68129.1 ,
58220935 gb AAW68120.1 ,	58220925 gb AAW68111.1 ,	58220915 gb AAW68102.1 ,
58220905 gb AAW68093.1 ,	58220895 gb AAW68084.1 ,	58220885 gb AAW68075.1 ,
58220875 gb AAW68066.1 ,	58220865 gb AAW68057.1 ,	38892787 gb AAR27777.1 ,
38892778 gb AAR27769.1 ,	38892768 gb AAR27760.1 ,	38892759 gb AAR27752.1 ,
38892749 gb AAR27743.1 ,	38892741 gb AAR27736.1 ,	38892731 gb AAR27727.1 ,
38892721 gb AAR27718.1 ,	38892711 gb AAR27709.1 ,	38892703 gb AAR27702.1 ,
38892694 gb AAR27694.1 ,	38892685 gb AAR27686.1 ,	38892675 gb AAR27677.1 ,
38892667 gb AAR27670.1 ,	38892659 gb AAR27663.1 ,	38892650 gb AAR27655.1 ,
38892641 gb AAR27647.1 ,	38892631 gb AAR27638.1 ,	38892614 gb AAR27623.1 ,
38892604 gb AAR27614.1 ,	55139354 gb AAV41367.1 ,	55139345 gb AAV41359.1 ,
55139334 gb AAV41349.1 ,	55139325 gb AAV41341.1 ,	55139313 gb AAV41331.1 ,
55139304 gb AAV41323.1 ,	55139295 gb AAV41315.1 ,	55139284 gb AAV41305.1 ,
55139275 gb AAV41297.1 ,	55139266 gb AAV41289.1 ,	55139257 gb AAV41281.1 ,
68522158 gb AAV98743.1 ,	68522149 gb AAV98735.1 ,	68522139 gb AAV98726.1 ,
68522129 gb AAV98717.1 ,	68522119 gb AAV98708.1 ,	68522109 gb AAV98699.1 ,
68522099 gb AAV98690.1 ,	68522089 gb AAV98681.1 ,	68522079 gb AAV98672.1 ,
68522069 gb AAV98663.1 ,	68522059 gb AAV98654.1 ,	68522049 gb AAV98645.1 ,
68522039 gb AAV98636.1 ,	68522029 gb AAV98627.1 ,	68522019 gb AAV98618.1 ,
68522009 gb AAV98609.1 ,	68521999 gb AAV98600.1 ,	68521989 gb AAV98591.1 ,
68521979 gb AAV98582.1 ,	68521969 gb AAV98573.1 ,	68521959 gb AAV98564.1 ,
68521949 gb AAV98555.1 ,	68521939 gb AAV98546.1 ,	67553116 gb AAV68701.1 ,
67553106 gb AAV68692.1 ,	67553096 gb AAV68683.1 ,	67553086 gb AAV68674.1 ,
67553076 gb AAV68665.1 ,	67553066 gb AAV68656.1 ,	67553056 gb AAV68647.1 ,
67553046 gb AAV68638.1 ,	67553036 gb AAV68629.1 ,	67553026 gb AAV68620.1 ,
67553019 gb AAV68614.1 ,	67553010 gb AAV68606.1 ,	67553001 gb AAV68598.1 ,
67552991 gb AAV68589.1 ,	67552981 gb AAV68580.1 ,	63098435 gb AAV32473.1 ,
63098425 gb AAV32464.1 ,	63098415 gb AAV32455.1 ,	63098405 gb AAV32446.1 ,
63098395 gb AAV32437.1 ,	63098385 gb AAV32428.1 ,	63098376 gb AAV32420.1 ,
63098367 gb AAV32412.1 ,	63098357 gb AAV32403.1 ,	63098348 gb AAV32395.1 ,
63098338 gb AAV32386.1 ,	63098328 gb AAV32377.1 ,	63098318 gb AAV32368.1 ,
63098309 gb AAV32360.1 ,	63098300 gb AAV32352.1 ,	63098290 gb AAV32343.1 ,
56609346 gb AAW03296.1 ,	56609335 gb AAW03287.1 ,	56609319 gb AAW03273.1 ,
56609309 gb AAW03264.1 ,	56609299 gb AAW03255.1 ,	56609289 gb AAW03246.1 ,
56609279 gb AAW03237.1 ,	56609269 gb AAW03228.1 ,	56609259 gb AAW03219.1 ,
56609249 gb AAW03210.1 ,	60197 emb CAA77626.1 ,	3163935 emb CAA06951.1 ,
32399670 emb CAD58648.1 ,	32399661 emb CAD58639.1 ,	18074004 emb CAC86569.1 ,
18073419 emb CAC88009.1 ,	18073409 emb CAC88000.1 ,	15209260 emb CAC51039.1 ,
14041641 emb CAC38425.1 ,	14041631 emb CAC38434.1 ,	9368384 emb CAB98173.1 ,
9368374 emb CAB98191.1 ,	8920157 emb CAB96343.1 ,	7657894 emb CAB89148.1 ,
7630101 emb CAB53047.2 ,	7452914 emb CAB86379.1 ,	7452904 emb CAB86370.1 ,
7321149 emb CAB82231.1 ,	7321139 emb CAB82222.1 ,	4539039 emb CAB39921.1 ,
59003672 gb AAW83667.1 ,	59003662 gb AAW83658.1 ,	59003652 gb AAW83649.1 ,
59003642 gb AAW83640.1 ,	59003632 gb AAW83631.1 ,	59003623 gb AAW83623.1 ,
59003613 gb AAW83614.1 ,	59003603 gb AAW83605.1 ,	59003593 gb AAW83596.1 ,
59003583 gb AAW83587.1 ,	59003573 gb AAW83578.1 ,	59003563 gb AAW83569.1 ,
59003553 gb AAW83560.1 ,	59003543 gb AAW83551.1 ,	59003533 gb AAW83542.1 ,

|59003523|gb|AAW83533.1|, |59003513|gb|AAW83524.1|, |45738227|gb|AAS75885.1|,
 |45738217|gb|AAS75876.1|, |38326777|gb|AAR17519.1|, |55925140|gb|AAV67944.1|,
 |55925132|gb|AAV67937.1|, |55925124|gb|AAV67930.1|, |55925116|gb|AAV67923.1|,
 |51572131|gb|AAU06778.1|, |51572121|gb|AAU06769.1|, |51572112|gb|AAU06761.1|,
 |51572099|gb|AAU06749.1|, |47060061|gb|AAT09647.1|, |49472954|gb|AAT66296.1|,
 |49472945|gb|AAT66288.1|, |49472936|gb|AAT66280.1|, |49472927|gb|AAT66272.1|,
 |37682604|gb|AAQ98284.1|, |37682594|gb|AAQ98275.1|, |37682584|gb|AAQ98266.1|,
 |37682574|gb|AAQ98257.1|, |37682565|gb|AAQ98249.1|, |37682555|gb|AAQ98240.1|,
 |37682545|gb|AAQ98231.1|, |37682535|gb|AAQ98222.1|, |37682525|gb|AAQ98213.1|,
 |37682515|gb|AAQ98204.1|, |37682505|gb|AAQ98195.1|, |37682495|gb|AAQ98186.1|,
 |37682486|gb|AAQ98178.1|, |37682476|gb|AAQ98169.1|, |37682466|gb|AAQ98160.1|,
 |37682456|gb|AAQ98151.1|, |37682446|gb|AAQ98142.1|, |37682436|gb|AAQ98133.1|,
 |37682426|gb|AAQ98124.1|, |37682415|gb|AAQ98114.1|truncated,
 |46486668|gb|AAS98771.1|, |46486659|gb|AAS98763.1|mutant,
 |46486651|gb|AAS98756.1|mutant, |46486641|gb|AAS98747.1|, |46486631|gb|AAS98738.1|,
 |46254445|gb|AAS86195.1|, |46254421|gb|AAS86179.1|, |46254411|gb|AAS86170.1|,
 |38679163|gb|AAR26415.1|, |38679154|gb|AAR26407.1|, |19072109|dbj|BAB85756.1|,
 |32261286|gb|AAP74185.1|, |32261275|gb|AAP74175.1|, |32261264|gb|AAP74165.1|,
 |32351108|gb|AAP76516.1|, |31980441|dbj|BAC77760.1|, |31980431|dbj|BAC77751.1|,
 |31980421|dbj|BAC77742.1|, |31980411|dbj|BAC77733.1|, |31559695|dbj|BAC77516.1|,
 |31559685|dbj|BAC77507.1|, |31559675|dbj|BAC77498.1|, |31559667|dbj|BAC77491.1|,
 |31559657|dbj|BAC77482.1|, |31559647|dbj|BAC77473.1|, |31559637|dbj|BAC77464.1|,
 |31559619|dbj|BAC77448.1|, |132438|sp|P04618|REV_HV1H2,
 |548725|sp|P35960|REV_HV1Y2, |132425|sp|P19548|REV_HV1S1,
 |132424|sp|P19547|REV_HV1S3, |132437|sp|P05866|REV_HV1W2,
 |132418|sp|P05864|REV_HV1B8, |132420|sp|P04620|REV_HV1BR,
 |132414|sp|P04325|REV_HV112, |62288905|sp|P69719|REV_HV1PV,
 |62288904|sp|P69718|REV_HV1H3, |3024538|sp|Q70624|REV_HV1LW,
 |1350575|sp|P18803|REV_HV1ND, |132439|sp|P04619|REV_HV1Z6,
 |132435|sp|P05872|REV_HV1SC, |132432|sp|P20887|REV_HV1OY,
 |132431|sp|P04622|REV_HV1MA, |132428|sp|P12484|REV_HV1J3,
 |132427|sp|P12485|REV_HV1BN, |132423|sp|P04621|REV_HV1EL,
 |132422|sp|P20869|REV_HV1JR, |132421|sp|P05865|REV_HV1C4,
 |132419|sp|P04623|REV_HV1A2, |132417|sp|P12483|REV_HV1Z2,
 |132416|sp|P05869|REV_HV1Z8, |132413|sp|P04616|REV_HV1B1,
 |132434|sp|P05870|REV_HV1RH, |132430|sp|P05871|REV_HV1MN,
 |132426|sp|P05868|REV_HV1ZH, |132415|sp|P05867|REV_HV1Z3,
 |10436176|gb|AAG16850.1|, |10436164|gb|AAG16840.1|, |10436155|gb|AAG16832.1|,
 |10436145|gb|AAG16823.1|, |10436136|gb|AAG16815.1|, |10436126|gb|AAG16806.1|,
 |10436117|gb|AAG16798.1|, |10436107|gb|AAG16789.1|, |221476|dbj|BAA00997.1|,
 |326677|gb|AAA44323.1|, |329364|gb|AAB12992.1|, |326466|gb|AAA44310.1|,
 |328553|gb|AAB59871.1|, |327468|gb|AAA44659.1|, |4262344|gb|AAD14580.1|,
 |82313506|sp|Q8QDN6|Q8QDN6_9PLVG, |82311278|sp|Q77MH4|Q77MH4_9PLVG,
 |82308871|sp|O11406|O11406_9PLVG, |18766388|gb|AAL78994.1|AF465242_6,
 |10180809|gb|AAG14294.1|AF251194_2, |2895571|gb|AAD12140.1|,
 |62362853|gb|AAX81731.1|, |62362851|gb|AAX81730.1|, |62362849|gb|AAX81729.1|,
 |62362847|gb|AAX81728.1|, |62362845|gb|AAX81727.1|, |62362843|gb|AAX81726.1|,
 |62362841|gb|AAX81725.1|, |62362839|gb|AAX81724.1|, |62362837|gb|AAX81723.1|,

62362835 gb AAX81722.1 ,	62362833 gb AAX81721.1 ,	62362831 gb AAX81720.1 ,
62362829 gb AAX81719.1 ,	62362827 gb AAX81718.1 ,	62362825 gb AAX81717.1 ,
62362823 gb AAX81716.1 ,	62362821 gb AAX81715.1 ,	62362819 gb AAX81714.1 ,
62362817 gb AAX81713.1 ,	62362815 gb AAX81712.1 ,	62362813 gb AAX81711.1 ,
62362811 gb AAX81710.1 ,	62362809 gb AAX81709.1 ,	62362807 gb AAX81708.1 ,
62362805 gb AAX81707.1 ,	62362803 gb AAX81706.1 ,	62362801 gb AAX81705.1 ,
62362799 gb AAX81704.1 ,	62362797 gb AAX81703.1 ,	62362795 gb AAX81702.1 ,
62362793 gb AAX81701.1 ,	62362791 gb AAX81700.1 ,	62362789 gb AAX81699.1 ,
62362787 gb AAX81698.1 ,	62362785 gb AAX81697.1 ,	62362783 gb AAX81696.1 ,
62362781 gb AAX81695.1 ,	62362779 gb AAX81694.1 ,	62362777 gb AAX81693.1 ,
62362775 gb AAX81692.1 ,	62362773 gb AAX81691.1 ,	62362771 gb AAX81690.1 ,
62362769 gb AAX81689.1 ,	62362767 gb AAX81688.1 ,	62362765 gb AAX81687.1 ,
62362763 gb AAX81686.1 ,	62362761 gb AAX81685.1 ,	62362759 gb AAX81684.1 ,
62362757 gb AAX81683.1 ,	62362755 gb AAX81682.1 ,	62362753 gb AAX81681.1 ,
62362751 gb AAX81680.1 ,	62362749 gb AAX81679.1 ,	62362747 gb AAX81678.1 ,
62362745 gb AAX81677.1 ,	62362743 gb AAX81676.1 ,	62362741 gb AAX81675.1 ,
62362739 gb AAX81674.1 ,	62362737 gb AAX81673.1 ,	62362735 gb AAX81672.1 ,
62362733 gb AAX81671.1 ,	62362731 gb AAX81670.1 ,	62362729 gb AAX81669.1 ,
62362727 gb AAX81668.1 ,	62362725 gb AAX81667.1 ,	62362723 gb AAX81666.1 ,
62362721 gb AAX81665.1 ,	62362719 gb AAX81664.1 ,	62362717 gb AAX81663.1 ,
62362715 gb AAX81662.1 ,	62362713 gb AAX81661.1 ,	62362711 gb AAX81660.1 ,
62362709 gb AAX81659.1 ,	62362707 gb AAX81658.1 ,	62362705 gb AAX81657.1 ,
62362703 gb AAX81656.1 ,	62362701 gb AAX81655.1 ,	62362699 gb AAX81654.1 ,
62362697 gb AAX81653.1 ,	62362695 gb AAX81652.1 ,	62362693 gb AAX81651.1 ,
62362691 gb AAX81650.1 ,	62362689 gb AAX81649.1 ,	62362687 gb AAX81648.1 ,
62362685 gb AAX81647.1 ,	62362683 gb AAX81646.1 ,	62362681 gb AAX81645.1 ,
62362679 gb AAX81644.1 ,	62362677 gb AAX81643.1 ,	62362675 gb AAX81642.1 ,
62362673 gb AAX81641.1 ,	62362671 gb AAX81640.1 ,	62362669 gb AAX81639.1 ,
62362667 gb AAX81638.1 ,	62362665 gb AAX81637.1 ,	62362663 gb AAX81636.1 ,
62362661 gb AAX81635.1 ,	62362659 gb AAX81634.1 ,	62362657 gb AAX81633.1 ,
62362655 gb AAX81632.1 ,	62362653 gb AAX81631.1 ,	62362651 gb AAX81630.1 ,
62362649 gb AAX81629.1 ,	62362647 gb AAX81628.1 ,	62362645 gb AAX81627.1 ,
62362643 gb AAX81626.1 ,	62362641 gb AAX81625.1 ,	62362639 gb AAX81624.1 ,
62362637 gb AAX81623.1 ,	62362635 gb AAX81622.1 ,	62362633 gb AAX81621.1 ,
62362631 gb AAX81620.1 ,	62362629 gb AAX81619.1 ,	62362626 gb AAX81618.1 ,
62362624 gb AAX81617.1 ,	62362622 gb AAX81616.1 ,	62362620 gb AAX81615.1 ,
62362616 gb AAX81614.1 ,	62362614 gb AAX81613.1 ,	62362612 gb AAX81612.1 ,
62362610 gb AAX81611.1 ,	62362608 gb AAX81610.1 ,	62362606 gb AAX81609.1 ,
62362604 gb AAX81608.1 ,	62362602 gb AAX81607.1 ,	62362600 gb AAX81606.1 ,
62362598 gb AAX81605.1 ,	62362594 gb AAX81603.1 ,	62362592 gb AAX81602.1 ,
62362590 gb AAX81601.1 ,	18699254 gb AAL78495.1 AF414006_7,	
18699192 gb AAL78452.1 AF413987_7,		37725252 gb AAR02314.1 ,
37725242 gb AAR02305.1 ,	37725232 gb AAR02296.1 ,	37725222 gb AAR02287.1 ,
37725212 gb AAR02278.1 ,	37725202 gb AAR02269.1 ,	37725196 gb AAR02264.1 ,
27227856 dbj BAC45029.1 ,	27227846 dbj BAC45020.1 ,	328417 gb AAA44986.1 ,
326387 gb AAA44200.1 ,		16118323 gb AAL12696.1 ,
82318816 sp Q9DH39 Q9DH39_9HIV1,	82318815 sp Q9DH16 Q9DH16_9HIV1,	
82318814 sp Q9DGZ4 Q9DGZ4_9HIV1,	82318813 sp Q9DGW4 Q9DGW4_9HIV1,	

82312479 sp Q8ACA0 Q8ACA0_9HIV1,	82312478 sp Q8AC91 Q8AC91_9HIV1,
82311318 sp Q78232 Q78232_9HIV1,	74273388 gb ABA01378.1 ,
40021891 gb AAR37201.1 ,	40021881 gb AAR37194.1 ,
40021861 gb AAR37180.1 ,	40021851 gb AAR37173.1 ,
40021831 gb AAR37159.1 ,	40021841 gb AAR37166.1 ,
40021801 gb AAR37138.1 ,	40021821 gb AAR37152.1 ,
40021771 gb AAR37117.1 ,	40021811 gb AAR37145.1 ,
40021741 gb AAR37096.1 ,	40021791 gb AAR37131.1 ,
40021711 gb AAR37075.1 ,	40021781 gb AAR37124.1 ,
4205062 gb AAD10934.1 ,	40021761 gb AAR37110.1 ,
4205035 gb AAD10910.1 ,	40021751 gb AAR37103.1 ,
4205008 gb AAD10886.1 ,	40021730 gb AAR37088.1 ,
328660 gb AAB59880.1 ,	40021721 gb AAR37082.1 ,
327781 gb AAB03525.1 ,	4205071 gb AAD10942.1 ,
329391 gb AAA45375.1 ,	4205053 gb AAD10926.1 ,
328567 gb AAA45051.1 ,	4205044 gb AAD10918.1 ,
328032 gb AAA44852.1 ,	4205017 gb AAD10894.1 ,
326419 gb AAB59746.1 ,	4204999 gb AAD10878.1 ,
328442 gb AAA83396.1 ,	4204990 gb AAD10870.1 ,
329379 gb AAA45364.1 ,	329396 gb AAB53950.1 ,
328457 gb AAA45000.1 ,	329401 gb AAA45378.1 ,
327825 gb AAA44686.1 ,	328636 gb AAA45061.1 ,
327754 gb AAA44677.1 ,	328156 gb AAA44867.1 ,
82320737 sp Q52S67 Q52S67_9HIV1,	327754 gb AAA44677.1 ,
82320733 sp Q52S51 Q52S51_9HIV1,	82320736 sp Q52S60 Q52S60_9HIV1,
82320727 sp Q52S30 Q52S30_9HIV1,	82320730 sp Q52S41 Q52S41_9HIV1,
82320064 sp Q9YP36 Q9YP36_9HIV1,	82320166 sp Q9YTC6 Q9YTC6_9HIV1,
82319934 sp Q9WJW6 Q9WJW6_9HIV1,	82320063 sp Q9YP32 Q9YP32_9HIV1,
82319932 sp Q9WJV8 Q9WJV8_9HIV1,	82319933 sp Q9WJW2 Q9WJW2_9HIV1,
82319930 sp Q9WJV1 Q9WJV1_9HIV1,	82319931 sp Q9WJV6 Q9WJV6_9HIV1,
82319928 sp Q9WJU5 Q9WJU5_9HIV1,	82319929 sp Q9WJU9 Q9WJU9_9HIV1,
82311259 sp Q77689 Q77689_9HIV1,	82319927 sp Q9WJU2 Q9WJU2_9HIV1,
82308770 sp Q56CX5 Q56CX5_9HIV1,	82308771 sp Q56CX6 Q56CX6_9HIV1,
82308767 sp Q56CX2 Q56CX2_9HIV1,	82308769 sp Q56CX4 Q56CX4_9HIV1,
82308765 sp Q56CX0 Q56CX0_9HIV1,	82308766 sp Q56CX1 Q56CX1_9HIV1,
82308763 sp Q56CW8 Q56CW8_9HIV1,	82308764 sp Q56CW9 Q56CW9_9HIV1,
82308761 sp Q56CW6 Q56CW6_9HIV1,	82308762 sp Q56CW7 Q56CW7_9HIV1,
82308759 sp Q56CW4 Q56CW4_9HIV1,	82308760 sp Q56CW5 Q56CW5_9HIV1,
82308757 sp Q56CW2 Q56CW2_9HIV1,	82308758 sp Q56CW3 Q56CW3_9HIV1,
82308755 sp Q56CW0 Q56CW0_9HIV1,	82308756 sp Q56CW1 Q56CW1_9HIV1,
82308753 sp Q56CV8 Q56CV8_9HIV1,	82308754 sp Q56CV9 Q56CV9_9HIV1,
82308751 sp Q56CV6 Q56CV6_9HIV1,	82308752 sp Q56CV7 Q56CV7_9HIV1,
82308749 sp Q56CV4 Q56CV4_9HIV1,	82308750 sp Q56CV5 Q56CV5_9HIV1,
82308747 sp Q56CV2 Q56CV2_9HIV1,	82308748 sp Q56CV3 Q56CV3_9HIV1,
82308745 sp Q56CV0 Q56CV0_9HIV1,	82308746 sp Q56CV1 Q56CV1_9HIV1,
82308743 sp Q56CU8 Q56CU8_9HIV1,	82308744 sp Q56CU9 Q56CU9_9HIV1,
82308741 sp Q56CU6 Q56CU6_9HIV1,	82308742 sp Q56CU7 Q56CU7_9HIV1,
82308739 sp Q56CU4 Q56CU4_9HIV1,	82308740 sp Q56CU5 Q56CU5_9HIV1,
82308737 sp Q56CU2 Q56CU2_9HIV1,	82308738 sp Q56CU3 Q56CU3_9HIV1,
82308735 sp Q56CU0 Q56CU0_9HIV1,	82308736 sp Q56CU1 Q56CU1_9HIV1,
82308733 sp Q56CT8 Q56CT8_9HIV1,	82308734 sp Q56CT9 Q56CT9_9HIV1,
82308731 sp Q56CT6 Q56CT6_9HIV1,	82308732 sp Q56CT7 Q56CT7_9HIV1,
82308729 sp Q56CT4 Q56CT4_9HIV1,	82308730 sp Q56CT5 Q56CT5_9HIV1,
82308727 sp Q56CT2 Q56CT2_9HIV1,	82308728 sp Q56CT3 Q56CT3_9HIV1,
	82308726 sp Q56CT1 Q56CT1_9HIV1,

82308725 sp Q56CT0 Q56CT0_9HIV1,	82308724 sp Q56CS9 Q56CS9_9HIV1,
82308723 sp Q56CS8 Q56CS8_9HIV1,	82308722 sp Q56CS7 Q56CS7_9HIV1,
82308721 sp Q56CS6 Q56CS6_9HIV1,	82308720 sp Q56CS5 Q56CS5_9HIV1,
82308719 sp Q56CS4 Q56CS4_9HIV1,	82308718 sp Q56CS3 Q56CS3_9HIV1,
82308717 sp Q56CS2 Q56CS2_9HIV1,	82308716 sp Q56CS1 Q56CS1_9HIV1,
82308715 sp Q56CS0 Q56CS0_9HIV1,	82308714 sp Q56CR9 Q56CR9_9HIV1,
82308713 sp Q56CR8 Q56CR8_9HIV1,	82308712 sp Q56CR7 Q56CR7_9HIV1,
82308711 sp Q56CR6 Q56CR6_9HIV1,	82308710 sp Q56CR5 Q56CR5_9HIV1,
82308709 sp Q56CR4 Q56CR4_9HIV1,	82308708 sp Q56CR3 Q56CR3_9HIV1,
82308707 sp Q56CR2 Q56CR2_9HIV1,	82308706 sp Q56CR1 Q56CR1_9HIV1,
82308705 sp Q56CR0 Q56CR0_9HIV1,	82308704 sp Q56CQ9 Q56CQ9_9HIV1,
82308703 sp Q56CQ8 Q56CQ8_9HIV1,	82308702 sp Q56CQ7 Q56CQ7_9HIV1,
82308701 sp Q56CQ6 Q56CQ6_9HIV1,	82308700 sp Q56CQ5 Q56CQ5_9HIV1,
82308699 sp Q56CQ4 Q56CQ4_9HIV1,	82308698 sp Q56CQ3 Q56CQ3_9HIV1,
82308697 sp Q56CQ2 Q56CQ2_9HIV1,	82308696 sp Q56CQ1 Q56CQ1_9HIV1,
82308695 sp Q56CQ0 Q56CQ0_9HIV1,	82308694 sp Q56CP9 Q56CP9_9HIV1,
82308693 sp Q56CP8 Q56CP8_9HIV1,	82308692 sp Q56CP7 Q56CP7_9HIV1,
82308691 sp Q56CP6 Q56CP6_9HIV1,	82308690 sp Q56CP5 Q56CP5_9HIV1,
82308689 sp Q56CP4 Q56CP4_9HIV1,	82308688 sp Q56CP3 Q56CP3_9HIV1,
82308687 sp Q56CP2 Q56CP2_9HIV1,	82308686 sp Q56CP1 Q56CP1_9HIV1,
82308685 sp Q56CP0 Q56CP0_9HIV1,	82308684 sp Q56CN9 Q56CN9_9HIV1,
82308683 sp Q56CN8 Q56CN8_9HIV1,	82308682 sp Q56CN7 Q56CN7_9HIV1,
82308681 sp Q56CN6 Q56CN6_9HIV1,	82308680 sp Q56CN5 Q56CN5_9HIV1,
82308679 sp Q56CN4 Q56CN4_9HIV1,	82308678 sp Q56CN3 Q56CN3_9HIV1,
82308677 sp Q56CN2 Q56CN2_9HIV1,	82308676 sp Q56CN1 Q56CN1_9HIV1,
82308675 sp Q56CN0 Q56CN0_9HIV1,	82308674 sp Q56CM9 Q56CM9_9HIV1,
82308673 sp Q56CM8 Q56CM8_9HIV1,	82308672 sp Q56CM7 Q56CM7_9HIV1,
82308671 sp Q56CM6 Q56CM6_9HIV1,	82308670 sp Q56CM5 Q56CM5_9HIV1,
82308669 sp Q56CM4 Q56CM4_9HIV1,	82308668 sp Q56CM3 Q56CM3_9HIV1,
82308667 sp Q56CM2 Q56CM2_9HIV1,	82308666 sp Q56CM1 Q56CM1_9HIV1,
82308665 sp Q56CM0 Q56CM0_9HIV1,	82308664 sp Q56CL9 Q56CL9_9HIV1,
82308663 sp Q56CL8 Q56CL8_9HIV1,	82308662 sp Q56CL7 Q56CL7_9HIV1,
82308661 sp Q56CL6 Q56CL6_9HIV1,	82308660 sp Q56CL5 Q56CL5_9HIV1,
82308659 sp Q56CL4 Q56CL4_9HIV1,	82308658 sp Q56CL3 Q56CL3_9HIV1,
82308657 sp Q56CL2 Q56CL2_9HIV1,	82308656 sp Q56CL1 Q56CL1_9HIV1,
82308655 sp Q56CL0 Q56CL0_9HIV1,	82308654 sp Q56CK9 Q56CK9_9HIV1,
82308653 sp Q56CK8 Q56CK8_9HIV1,	82308652 sp Q56CK7 Q56CK7_9HIV1,
82308651 sp Q56CK6 Q56CK6_9HIV1,	82308650 sp Q56CK5 Q56CK5_9HIV1,
82308649 sp Q56CK4 Q56CK4_9HIV1,	82308648 sp Q56CK3 Q56CK3_9HIV1,
82308647 sp Q56CK2 Q56CK2_9HIV1,	82308646 sp Q56CK1 Q56CK1_9HIV1,
82308645 sp Q56CK0 Q56CK0_9HIV1,	82308644 sp Q56CJ9 Q56CJ9_9HIV1,
82308643 sp Q56CJ8 Q56CJ8_9HIV1,	82308642 sp Q56CJ7 Q56CJ7_9HIV1,
82308641 sp Q56CJ6 Q56CJ6_9HIV1,	62548203 gb AAX86754.1 ,
62548193 gb AAX86745.1 ,	62548183 gb AAX86736.1 ,
62548163 gb AAX86718.1 ,	62548173 gb AAX86727.1 ,
82319606 sp Q9PXH4 Q9PXH4_9HIV1 REV-TH	132436 sp P24739 REV_HV1U4,

NEF proteins

60114 emb CAA41585.1 ,	17352352 gb AAL01571.1 ,	6382040 dbj BAA86702.1 ,
6382038 dbj BAA86701.1 ,	6382036 dbj BAA86695.1 ,	6362237 dbj BAA86715.1 ,
6362230 dbj BAA86714.1 ,	6362226 dbj BAA86713.1 ,	6362224 dbj BAA86712.1 ,
6362222 dbj BAA86711.1 ,	6362220 dbj BAA86710.1 ,	6362218 dbj BAA86709.1 ,
6362216 dbj BAA86708.1 ,	6362214 dbj BAA86707.1 ,	6362209 dbj BAA86706.1 ,
6362203 dbj BAA86705.1 ,	6362197 dbj BAA86704.1 ,	6362192 dbj BAA86703.1 ,
6362111 dbj BAA86700.1 ,	6362105 dbj BAA86699.1 ,	6362099 dbj BAA86698.1 ,
6362058 dbj BAA86697.1 ,	6362052 dbj BAA86696.1 ,	6362035 dbj BAA86694.1 ,
6362029 dbj BAA86693.1 ,	6362024 dbj BAA86692.1 ,	6362018 dbj BAA86691.1 ,
606603 gb AAA58320.1 ,	606601 gb AAA58319.1 ,	606599 gb AAA58318.1 ,
606597 gb AAA58317.1 ,	606595 gb AAA58316.1 ,	606593 gb AAA58315.1 ,
606591 gb AAA58314.1 ,	606589 gb AAA58313.1 ,	606587 gb AAA58312.1 ,
606585 gb AAA58311.1 ,	606583 gb AAA58310.1 ,	606581 gb AAA58309.1 ,
606579 gb AAA58308.1 ,	606577 gb AAA58307.1 ,	606575 gb AAA58306.1 ,
606573 gb AAA58305.1 ,	606571 gb AAA58304.1 ,	606569 gb AAA58303.1 ,
606567 gb AAA58302.1 ,	606565 gb AAA58301.1 ,	606563 gb AAA58300.1 ,
606561 gb AAA58299.1 ,	606559 gb AAA58298.1 ,	606557 gb AAA58297.1 ,
606555 gb AAA58296.1 ,	606553 gb AAA58295.1 ,	606551 gb AAA58294.1 ,
606549 gb AAA58293.1 ,	606547 gb AAA58292.1 ,	606545 gb AAA58291.1 ,
606543 gb AAA58290.1 ,	606541 gb AAA58289.1 ,	606537 gb AAA58288.1 ,
606535 gb AAA58287.1 ,	606533 gb AAA58286.1 ,	606522 gb AAA58285.1 ,
606518 gb AAA58284.1 ,	606516 gb AAA58283.1 ,	606514 gb AAA58282.1 ,
606512 gb AAA58281.1 ,	606510 gb AAA58280.1 ,	606508 gb AAA58279.1 ,
606506 gb AAA58278.1 ,	606504 gb AAA58277.1 ,	606502 gb AAA58276.1 ,
606500 gb AAA58275.1 ,	606495 gb AAA58274.1 ,	606493 gb AAA58273.1 ,
606491 gb AAA58272.1 ,	606489 gb AAA58271.1 ,	606487 gb AAA58270.1 ,
606484 gb AAA58269.1 ,	606482 gb AAA58268.1 ,	606480 gb AAA58267.1 ,
606478 gb AAA58266.1 ,	606476 gb AAA58265.1 ,	606474 gb AAA58264.1 ,
606472 gb AAA58263.1 ,	606470 gb AAA58262.1 ,	606468 gb AAA58261.1 ,
606466 gb AAA58260.1 ,	606464 gb AAA58259.1 ,	606462 gb AAA58258.1 ,
2108041 gb AAC57215.1 ,	2108039 gb AAC57214.1 ,	2108037 gb AAC57213.1 ,
2108035 gb AAC57212.1 ,	2108031 gb AAC57210.1 ,	2108029 gb AAC57209.1 ,
2108027 gb AAC57208.1 ,	2108025 gb AAC57207.1 ,	2108023 gb AAC57206.1 ,
2108021 gb AAC57205.1 ,	2108019 gb AAC57204.1 ,	2108017 gb AAC57203.1 ,
2108015 gb AAC57202.1 ,	2108013 gb AAC57201.1 ,	2108011 gb AAC57200.1 ,
2108009 gb AAC57199.1 ,	2108007 gb AAC57198.1 ,	2108005 gb AAC57197.1 ,
2108000 gb AAC57195.1 ,	2107997 gb AAC57194.1 ,	2107995 gb AAC57193.1 ,
2107993 gb AAC57192.1 ,	2107989 gb AAC57190.1 ,	2107987 gb AAC57189.1 ,
2107985 gb AAC57188.1 ,	2107983 gb AAC57187.1 ,	2107981 gb AAC57186.1 ,
2107979 gb AAC57185.1 ,	2107977 gb AAC57184.1 ,	2107975 gb AAC57183.1 ,
2107973 gb AAC57182.1 ,	2107971 gb AAC57181.1 ,	2107967 gb AAC57179.1 ,
2107965 gb AAC57178.1 ,	2107963 gb AAC57177.1 ,	2107961 gb AAC57176.1 ,
2107959 gb AAC57175.1 ,	2107957 gb AAC57174.1 ,	2107955 gb AAC57173.1 ,
2107953 gb AAC57172.1 ,	2107951 gb AAC57171.1 ,	2107949 gb AAC57170.1 ,
16541334 gb AAL06127.1 ,	16541332 gb AAL06126.1 ,	16541330 gb AAL06125.1 ,

16541328 gb AAL06124.1 ,	16541326 gb AAL06123.1 ,	16541324 gb AAL06122.1 ,
16541322 gb AAL06121.1 ,	16541320 gb AAL06120.1 ,	16541318 gb AAL06119.1 ,
16541316 gb AAL06118.1 ,	16541314 gb AAL06117.1 ,	16541312 gb AAL06116.1 ,
16541310 gb AAL06115.1 ,		15430226 gb AAK98514.1 AF397575_1,
15430224 gb AAK98513.1 AF397574_1,		15430222 gb AAK98512.1 AF397573_1,
15430220 gb AAK98511.1 AF397572_1,		15430218 gb AAK98510.1 AF397571_1,
15430216 gb AAK98509.1 AF397570_1,		15430214 gb AAK98508.1 AF397569_1,
15430212 gb AAK98507.1 AF397568_1,		15430210 gb AAK98506.1 AF397567_1,
15430208 gb AAK98505.1 AF397566_1,		15430206 gb AAK98504.1 AF397565_1,
15430204 gb AAK98503.1 AF397564_1,		15430202 gb AAK98502.1 AF397563_1,
15430200 gb AAK98501.1 AF397562_1,		15430198 gb AAK98500.1 AF397561_1,
15430196 gb AAK98499.1 AF397560_1,		15430194 gb AAK98498.1 AF397559_1,
15430192 gb AAK98497.1 AF397558_1,		15430190 gb AAK98496.1 AF397557_1,
15430188 gb AAK98495.1 AF397556_1,		15430186 gb AAK98494.1 AF397555_1,
15430184 gb AAK98493.1 AF397554_1,		15430182 gb AAK98492.1 AF397553_1,
15430180 gb AAK98491.1 AF397552_1,		15430178 gb AAK98490.1 AF397551_1,
15430176 gb AAK98489.1 AF397550_1,		15430174 gb AAK98488.1 AF397549_1,
15430172 gb AAK98487.1 AF397548_1,		15430170 gb AAK98486.1 AF397547_1,
15430168 gb AAK98485.1 AF397546_1,		15430166 gb AAK98484.1 AF397545_1,
15430164 gb AAK98483.1 AF397544_1,		15430162 gb AAK98482.1 AF397543_1,
15430160 gb AAK98481.1 AF397542_1,		15430158 gb AAK98480.1 AF397541_1,
15430156 gb AAK98479.1 AF397540_1,		15430154 gb AAK98478.1 AF397539_1,
15430152 gb AAK98477.1 AF397538_1,		15430150 gb AAK98476.1 AF397537_1,
15430148 gb AAK98475.1 AF397536_1,		15430146 gb AAK98474.1 AF397535_1,
15430144 gb AAK98473.1 AF397534_1,		15430142 gb AAK98472.1 AF397533_1,
4324905 gb AAD17169.1 ,	4324896 gb AAD17160.1 ,	4324887 gb AAD17151.1 ,
4324878 gb AAD17142.1 ,	4324869 gb AAD17133.1 ,	4324860 gb AAD17124.1 ,
4324853 gb AAD17117.1 ,	4324845 gb AAD17109.1 ,	4324839 gb AAD17103.1 ,
4324830 gb AAD17094.1 ,	4324821 gb AAD17085.1 ,	4324815 gb AAD17079.1 ,
4324806 gb AAD17070.1 ,	4324799 gb AAD17063.1 ,	4324790 gb AAD17054.1 ,
4324781 gb AAD17045.1 ,	4324772 gb AAD17036.1 ,	4324764 gb AAD17028.1 ,
4324755 gb AAD17019.1 ,		4324746 gb AAD17010.1 ,
8886639 gb AAF80538.1 AF179368_8,		3114569 gb AAD03187.1 ,
3114561 gb AAD03180.1 ,	3114546 gb AAD03166.1 ,	2570313 gb AAC97574.1 ,
2570302 gb AAC63083.1 ,	1537059 gb AAC55467.1 ,	2570333 gb AAC32660.1 ,
2570296 gb AAC32652.1 ,		13560267 dbj BAB40918.1 ,
6580996 gb AAF18404.1 AF190128_3,		6580986 gb AAF18395.1 AF190127_3,
11993206 gb AAG42638.1 ,		5733954 gb AAD49791.1 AF107771_4,
5733947 gb AAD49785.1 AF107770_7,		3618020 emb CAA13474.1 ,
3617984 emb CAA13462.1 ,	3617934 emb CAA13441.1 ,	3617930 emb CAA13439.1 ,
3617964 emb CAA13455.1 ,	722234 gb AAA63883.1 ,	722232 gb AAA63882.1 ,
722230 gb AAA63881.1 ,	722228 gb AAA63880.1 ,	722226 gb AAA63879.1 ,
722224 gb AAA63878.1 ,	722222 gb AAA63877.1 ,	722220 gb AAA63876.1 ,
722218 gb AAA63875.1 ,	722216 gb AAA63874.1 ,	722214 gb AAA63873.1 ,
722212 gb AAA63872.1 ,	722210 gb AAA63871.1 ,	722208 gb AAA63870.1 ,
722205 gb AAA63869.1 ,	722203 gb AAA63868.1 ,	722201 gb AAA63867.1 ,
722199 gb AAA63866.1 ,	722197 gb AAA63865.1 ,	722195 gb AAA63864.1 ,
722193 gb AAA63863.1 ,	722191 gb AAA63862.1 ,	722188 gb AAA63861.1 ,

722186 gb AAA63860.1 ,	722184 gb AAA63859.1 ,	722182 gb AAA63858.1 ,
722180 gb AAA63857.1 ,	722178 gb AAA63856.1 ,	722176 gb AAA63855.1 ,
722174 gb AAA63854.1 ,	722172 gb AAA63853.1 ,	722170 gb AAA63852.1 ,
722167 gb AAA63851.1 ,	722165 gb AAA63850.1 ,	722163 gb AAA63849.1 ,
722161 gb AAA63848.1 ,	722159 gb AAA63847.1 ,	722157 gb AAA63846.1 ,
722155 gb AAA63845.1 ,	722153 gb AAA63844.1 ,	722151 gb AAA63843.1 ,
722149 gb AAA63842.1 ,	722147 gb AAA63841.1 ,	722145 gb AAA63840.1 ,
722142 gb AAA63839.1 ,	722140 gb AAA63838.1 ,	722138 gb AAA63837.1 ,
722136 gb AAA63836.1 ,	722134 gb AAA63835.1 ,	722132 gb AAA63834.1 ,
722130 gb AAA63833.1 ,	722128 gb AAA63832.1 ,	722126 gb AAA63831.1 ,
722124 gb AAA63830.1 ,	722122 gb AAA63829.1 ,	722120 gb AAA63828.1 ,
722117 gb AAA63827.1 ,	722115 gb AAA63826.1 ,	722113 gb AAA63825.1 ,
722111 gb AAA63824.1 ,	722109 gb AAA63823.1 ,	722107 gb AAA63822.1 ,
722105 gb AAA63821.1 ,	722103 gb AAA63820.1 ,	722101 gb AAA63819.1 ,
722099 gb AAA63818.1 ,	722097 gb AAA63817.1 ,	722095 gb AAA63816.1 ,
722093 gb AAA63815.1 ,	722091 gb AAA63814.1 ,	722089 gb AAA63813.1 ,
722086 gb AAA63812.1 ,	722084 gb AAA63811.1 ,	722082 gb AAA63810.1 ,
722080 gb AAA63809.1 ,	722077 gb AAA63808.1 ,	722074 gb AAA63807.1 ,
722070 gb AAA63806.1 ,	722068 gb AAA63805.1 ,	722066 gb AAA63804.1 ,
349694 gb AAA02668.1 ,	306071 gb AAA02672.1 ,	306069 gb AAA02671.1 ,
306067 gb AAA02670.1 ,	306058 gb AAA02665.1 ,	306056 gb AAA02664.1 ,
306054 gb AAA02663.1 ,	306052 gb AAA02662.1 ,	306041 gb AAA02657.1 ,
306039 gb AAA02656.1 ,	306037 gb AAA02655.1 ,	306028 gb AAA02651.1 ,
306026 gb AAA02650.1 ,	306023 gb AAA02649.1 ,	306021 gb AAA02648.1 ,
306019 gb AAA02647.1 ,	306017 gb AAA02646.1 ,	306013 gb AAA02644.1 ,
306011 gb AAA02643.1 ,	306009 gb AAA02642.1 ,	306007 gb AAA02641.1 ,
306005 gb AAA02640.1 ,	306003 gb AAA02639.1 ,	306001 gb AAA02638.1 ,
305999 gb AAA02637.1 ,	305997 gb AAA02636.1 ,	305995 gb AAA02635.1 ,
305993 gb AAA02633.1 ,	305991 gb AAA02634.1 ,	6448459 dbj BAA86906.1 ,
6448457 dbj BAA86905.1 ,	6448455 dbj BAA86904.1 ,	6448453 dbj BAA86903.1 ,
6448451 dbj BAA86902.1 ,		
82307532 sp Q9WIR4 Q9WIR4_9HIV1 ,	82307533 sp Q9WIR5 Q9WIR5_9HIV1 ,	
82307530 sp Q9WIR2 Q9WIR2_9HIV1 ,	82307531 sp Q9WIR3 Q9WIR3_9HIV1 ,	
82307528 sp Q9WIR0 Q9WIR0_9HIV1 ,	82307529 sp Q9WIR1 Q9WIR1_9HIV1 ,	
82307526 sp Q9WIQ8 Q9WIQ8_9HIV1 ,	82307527 sp Q9WIQ9 Q9WIQ9_9HIV1 ,	
82307524 sp Q9WIQ6 Q9WIQ6_9HIV1 ,	82307525 sp Q9WIQ7 Q9WIQ7_9HIV1 ,	
82307522 sp Q9WIQ4 Q9WIQ4_9HIV1 ,	82307523 sp Q9WIQ5 Q9WIQ5_9HIV1 ,	
82307520 sp Q9WIQ2 Q9WIQ2_9HIV1 ,	82307521 sp Q9WIQ3 Q9WIQ3_9HIV1 ,	
82307518 sp Q9WIQ0 Q9WIQ0_9HIV1 ,	82307519 sp Q9WIQ1 Q9WIQ1_9HIV1 ,	
82307516 sp Q9WIP8 Q9WIP8_9HIV1 ,	82307517 sp Q9WIP9 Q9WIP9_9HIV1 ,	
82307514 sp Q9WIP6 Q9WIP6_9HIV1 ,	82307515 sp Q9WIP7 Q9WIP7_9HIV1 ,	
82307512 sp Q9WIP4 Q9WIP4_9HIV1 ,	82307513 sp Q9WIP5 Q9WIP5_9HIV1 ,	
82307510 sp Q9WIP2 Q9WIP2_9HIV1 ,	82307511 sp Q9WIP3 Q9WIP3_9HIV1 ,	
82307508 sp Q9WIP0 Q9WIP0_9HIV1 ,	82307509 sp Q9WIP1 Q9WIP1_9HIV1 ,	
82307506 sp Q9WIN8 Q9WIN8_9HIV1 ,	82307507 sp Q9WIN9 Q9WIN9_9HIV1 ,	
82307504 sp Q9WIN6 Q9WIN6_9HIV1 ,	82307505 sp Q9WIN7 Q9WIN7_9HIV1 ,	
82307502 sp Q9WIN4 Q9WIN4_9HIV1 ,	82307503 sp Q9WIN5 Q9WIN5_9HIV1 ,	
82307500 sp Q9WIN2 Q9WIN2_9HIV1 ,	82307501 sp Q9WIN3 Q9WIN3_9HIV1 ,	
	82307499 sp Q9WIN1 Q9WIN1_9HIV1 ,	

82307498 sp Q9WIN0 Q9WIN0_9HIV1,	82307497 sp Q9WIM9 Q9WIM9_9HIV1,
82307496 sp Q9WIM8 Q9WIM8_9HIV1,	82307495 sp Q9WIM7 Q9WIM7_9HIV1,
82307494 sp Q9WIM6 Q9WIM6_9HIV1,	82307493 sp Q9WIM5 Q9WIM5_9HIV1,
82307492 sp Q9WIM4 Q9WIM4_9HIV1,	82307491 sp Q9WIM3 Q9WIM3_9HIV1,
82307490 sp Q9WIM2 Q9WIM2_9HIV1,	82307489 sp Q9WIM1 Q9WIM1_9HIV1,
82307488 sp Q9WIM0 Q9WIM0_9HIV1,	82307487 sp Q9WIL9 Q9WIL9_9HIV1,
82307486 sp Q9WIL8 Q9WIL8_9HIV1,	82307485 sp Q9WIL7 Q9WIL7_9HIV1,
82307212 sp Q9W9W3 Q9W9W3_9HIV1,	82307199 sp Q9W9N5 Q9W9N5_9HIV1,
82307197 sp Q9W9N0 Q9W9N0_9HIV1,	82307171 sp Q9W908 Q9W908_9HIV1,
82307166 sp Q9W8U5 Q9W8U5_9HIV1,	82307156 sp Q9W8M8 Q9W8M8_9HIV1,
82306521 sp Q9QMF6 Q9QMF6_9HIV1,	82306520 sp Q9QMF5 Q9QMF5_9HIV1,
82306519 sp Q9QMF4 Q9QMF4_9HIV1,	82305566 sp Q9PX37 Q9PX37_9HIV1,
82305554 sp Q9PWX9 Q9PWX9_9HIV1,	82301533 sp Q97066 Q97066_9HIV1,
82295336 sp Q89665 Q89665_9HIV1,	82289663 sp Q75752 Q75752_9HIV1,
82289631 sp Q75718 Q75718_9HIV1,	82289626 sp Q75713 Q75713_9HIV1,
3618026 emb CAA13477.1 ,	3618018 emb CAA13473.1 ,
3618010 emb CAA13469.1 ,	3618008 emb CAA13468.1 ,
3618004 emb CAA13466.1 ,	3617996 emb CAA13464.1 ,
3617972 emb CAA13459.1 ,	3617970 emb CAA13458.1 ,
3617962 emb CAA13454.1 ,	3617958 emb CAA13452.1 ,
3617948 emb CAA13448.1 ,	3617946 emb CAA13447.1 ,
3617942 emb CAA13445.1 ,	3617940 emb CAA13444.1 ,
3617936 emb CAA13442.1 ,	3617928 emb CAA13438.1 ,
475669 gb AAB04094.1 ,	475666 gb AAB04092.1 ,
475660 gb AAB04088.1 ,	475657 gb AAB04086.1 ,
475651 gb AAB04082.1 ,	475648 gb AAB04080.1 ,
475643 gb AAB17018.1 ,	475640 gb AAB04077.1 ,
475635 gb AAB04074.1 ,	475632 gb AAB04072.1 ,
475626 gb AAB04068.1 ,	475623 gb AAB04066.1 ,
3618024 emb CAA13476.1 ,	3618022 emb CAA13475.1 ,
3618012 emb CAA13470.1 ,	3618000 emb CAA13465.1 ,
3617974 emb CAA13460.1 ,	3617968 emb CAA13457.1 ,
3617952 emb CAA13450.1 ,	3617950 emb CAA13449.1 ,
1177210 gb AAB38220.1 ,	1177208 gb AAB38219.1 ,
1177204 gb AAB38217.1 ,	1177202 gb AAB38216.1 ,
1177198 gb AAB38214.1 ,	1177196 gb AAB38213.1 ,
1177192 gb AAB38211.1 ,	1177190 gb AAB38210.1 ,
1177183 gb AAB38207.1 ,	1177181 gb AAB38206.1 ,
1177177 gb AAB38204.1 ,	1177175 gb AAB38203.1 ,
1177171 gb AAB38201.1 ,	1177169 gb AAB38200.1 ,
1177165 gb AAB38198.1 ,	1177163 gb AAB38197.1 ,
1177159 gb AAB38195.1 ,	1353869 gb AAB36508.1 ,
487255 gb AAB05026.1 ,	1458084 gb AAB04753.1 ,
1458080 gb AAB04751.1 ,	1458078 gb AAB04750.1 ,
1458074 gb AAB04748.1 ,	1458072 gb AAB04747.1 ,
1458068 gb AAB04745.1 ,	1458066 gb AAB04744.1 ,
1458062 gb AAB04742.1 ,	1458060 gb AAB04741.1 ,
1458056 gb AAB04739.1 ,	1458054 gb AAB04738.1 ,
	3618014 emb CAA13471.1 ,
	3618006 emb CAA13467.1 ,
	3617978 emb CAA13461.1 ,
	3617966 emb CAA13456.1 ,
	3617956 emb CAA13451.1 ,
	3617944 emb CAA13446.1 ,
	3617938 emb CAA13443.1 ,
	3617926 emb CAA13437.1 ,
	475663 gb AAB04090.1 ,
	475654 gb AAB04084.1 ,
	475645 gb AAB04078.1 ,
	475638 gb AAB04076.1 ,
	475629 gb AAB04070.1 ,
	475620 gb AAB04064.1 ,
	3618016 emb CAA13472.1 ,
	3617990 emb CAA13463.1 ,
	3617960 emb CAA13453.1 ,
	3617932 emb CAA13440.1 ,
	1177206 gb AAB38218.1 ,
	1177200 gb AAB38215.1 ,
	1177194 gb AAB38212.1 ,
	1177188 gb AAB38209.1 ,
	1177179 gb AAB38205.1 ,
	1177173 gb AAB38202.1 ,
	1177167 gb AAB38199.1 ,
	1177161 gb AAB38196.1 ,
	487258 gb AAB05028.1 ,
	1458082 gb AAB04752.1 ,
	1458076 gb AAB04749.1 ,
	1458070 gb AAB04746.1 ,
	1458064 gb AAB04743.1 ,
	1458058 gb AAB04740.1 ,
	1458052 gb AAB04737.1 ,

1458050 gb AAB04736.1 ,	1458048 gb AAB04735.1 ,	1458046 gb AAB04734.1 ,
1458044 gb AAB04733.1 ,	1458042 gb AAB04732.1 ,	1458040 gb AAB04731.1 ,
1458038 gb AAB04730.1 ,	1458036 gb AAB04729.1 ,	1458034 gb AAB04728.1 ,
1458032 gb AAB04727.1 ,	1458030 gb AAB04726.1 ,	1458028 gb AAB04725.1 ,
1458026 gb AAB04724.1 ,	1458024 gb AAB04723.1 ,	1458015 gb AAB04719.1 ,
1458013 gb AAB04718.1 ,	1458009 gb AAB04717.1 ,	1458007 gb AAB04716.1 ,
1458005 gb AAB04715.1 ,	1458003 gb AAB04714.1 ,	1458001 gb AAB04713.1 ,
1457999 gb AAB04712.1 ,	1457997 gb AAB04711.1 ,	1457995 gb AAB04710.1 ,
1457989 gb AAB04707.1 ,	1457987 gb AAB04706.1 ,	1457985 gb AAB04705.1 ,
1457983 gb AAB04704.1 ,	1457981 gb AAB04703.1 ,	1457979 gb AAB04702.1 ,
1457977 gb AAB04701.1 ,	1457975 gb AAB04700.1 ,	1457973 gb AAB04699.1 ,
1457971 gb AAB04698.1 ,	1457969 gb AAB04697.1 ,	1457967 gb AAB04696.1 ,
1457965 gb AAB04695.1 ,	327820 gb AAB03750.1 ,	829488 gb AAA79607.1 ,
829486 gb AAA79606.1 ,	829484 gb AAA79605.1 ,	829482 gb AAA79604.1 ,
829480 gb AAA79603.1 ,	829478 gb AAA79602.1 ,	829475 gb AAA79601.1 ,
829473 gb AAA79600.1 ,	829471 gb AAA79599.1 ,	328677 gb AAA45073.1 ,
28872818 ref NP_057857.2 ,	14579620 gb AAK69337.1 ,	14579610 gb AAK69328.1 ,
82311082 sp Q75000 Q75000_9HIV1,	82308082 sp Q9YKU0 Q9YKU0_9HIV1,	
82308080 sp Q9YKT6 Q9YKT6_9HIV1,	82308078 sp Q9YKT3 Q9YKT3_9HIV1,	
82308077 sp Q9YKS7 Q9YKS7_9HIV1,	82308075 sp Q9YKR6 Q9YKR6_9HIV1,	
82308073 sp Q9YKR0 Q9YKR0_9HIV1,	82308068 sp Q9YKP3 Q9YKP3_9HIV1,	
82308066 sp Q9YKN6 Q9YKN6_9HIV1,	82308064 sp Q9YKM9 Q9YKM9_9HIV1,	
82307351 sp Q9WF95 Q9WF95_9HIV1,	82307349 sp Q9WF91 Q9WF91_9HIV1,	
82307347 sp Q9WF88 Q9WF88_9HIV1,	82307344 sp Q9WF83 Q9WF83_9HIV1,	
82307341 sp Q9WF76 Q9WF76_9HIV1,	82307339 sp Q9WF73 Q9WF73_9HIV1,	
82307337 sp Q9WF70 Q9WF70_9HIV1,	82307335 sp Q9WF67 Q9WF67_9HIV1,	
82307333 sp Q9WF64 Q9WF64_9HIV1,	82307331 sp Q9WF61 Q9WF61_9HIV1,	
82307330 sp Q9WF58 Q9WF58_9HIV1,	82300238 sp Q90B86 Q90B86_9HIV1,	
82300237 sp Q90B85 Q90B85_9HIV1,	82300236 sp Q90B84 Q90B84_9HIV1,	
82300235 sp Q90B83 Q90B83_9HIV1,	82300234 sp Q90B82 Q90B82_9HIV1,	
82300233 sp Q90B81 Q90B81_9HIV1,	82300232 sp Q90B80 Q90B80_9HIV1,	
82300231 sp Q90B79 Q90B79_9HIV1,	82300230 sp Q90B78 Q90B78_9HIV1,	
82300229 sp Q90B77 Q90B77_9HIV1,	82300228 sp Q90B76 Q90B76_9HIV1,	
82300227 sp Q90B75 Q90B75_9HIV1,	82300226 sp Q90B74 Q90B74_9HIV1,	
82300225 sp Q90B73 Q90B73_9HIV1,	82300224 sp Q90B72 Q90B72_9HIV1,	
82300223 sp Q90B71 Q90B71_9HIV1,	82300222 sp Q90B70 Q90B70_9HIV1,	
82300221 sp Q90B69 Q90B69_9HIV1,	82300220 sp Q90B68 Q90B68_9HIV1,	
82300219 sp Q90B67 Q90B67_9HIV1,	82300218 sp Q90B66 Q90B66_9HIV1,	
82300217 sp Q90B65 Q90B65_9HIV1,	82300216 sp Q90B64 Q90B64_9HIV1,	
82300215 sp Q90B63 Q90B63_9HIV1,	82300214 sp Q90B62 Q90B62_9HIV1,	
82300213 sp Q90B61 Q90B61_9HIV1,	82300212 sp Q90B60 Q90B60_9HIV1,	
82300211 sp Q90B59 Q90B59_9HIV1,	82300210 sp Q90B58 Q90B58_9HIV1,	
82300209 sp Q90B57 Q90B57_9HIV1,	82300208 sp Q90B56 Q90B56_9HIV1,	
82300207 sp Q90B55 Q90B55_9HIV1,	82300206 sp Q90B54 Q90B54_9HIV1,	
82300205 sp Q90B53 Q90B53_9HIV1,	82300204 sp Q90B52 Q90B52_9HIV1,	
82300203 sp Q90B51 Q90B51_9HIV1,	82300202 sp Q90B50 Q90B50_9HIV1,	
82300201 sp Q90B49 Q90B49_9HIV1,	82300200 sp Q90B48 Q90B48_9HIV1,	
82300199 sp Q90B47 Q90B47_9HIV1,	82300198 sp Q90B46 Q90B46_9HIV1,	

82300197 sp Q90B45 Q90B45_9HIV1,	82300196 sp Q90B44 Q90B44_9HIV1,	
82299526 sp Q901V1 Q901V1_9HIV1,	82299525 sp Q901V0 Q901V0_9HIV1,	
82299524 sp Q901U9 Q901U9_9HIV1,	82299523 sp Q901U8 Q901U8_9HIV1,	
82299522 sp Q901U7 Q901U7_9HIV1,	82299521 sp Q901U6 Q901U6_9HIV1,	
82299520 sp Q901U5 Q901U5_9HIV1,	82299519 sp Q901U4 Q901U4_9HIV1,	
82299518 sp Q901U3 Q901U3_9HIV1,	82299517 sp Q901U2 Q901U2_9HIV1,	
82299516 sp Q901U1 Q901U1_9HIV1,	82299515 sp Q901U0 Q901U0_9HIV1,	
82299514 sp Q901T9 Q901T9_9HIV1,	82298954 sp Q8UMP7 Q8UMP7_9HIV1,	
82295323 sp Q89561 Q89561_9HIV1,	82289533 sp Q75009 Q75009_9HIV1,	
82289530 sp Q74927 Q74927_9HIV1,	82289529 sp Q74926 Q74926_9HIV1,	
82289528 sp Q74925 Q74925_9HIV1,	82289527 sp Q74924 Q74924_9HIV1,	
82289526 sp Q74923 Q74923_9HIV1,	82289525 sp Q74922 Q74922_9HIV1,	
82289524 sp Q74921 Q74921_9HIV1,	82289523 sp Q74920 Q74920_9HIV1,	
82289522 sp Q74919 Q74919_9HIV1,	82289521 sp Q74918 Q74918_9HIV1,	
82289520 sp Q74917 Q74917_9HIV1,	82289519 sp Q74916 Q74916_9HIV1,	
82289518 sp Q74915 Q74915_9HIV1,	82289517 sp Q74914 Q74914_9HIV1,	
82289516 sp Q74913 Q74913_9HIV1,	82289515 sp Q74912 Q74912_9HIV1,	
82289514 sp Q74911 Q74911_9HIV1,	82289513 sp Q74910 Q74910_9HIV1,	
82289512 sp Q74909 Q74909_9HIV1,	82289511 sp Q74908 Q74908_9HIV1,	
82289510 sp Q74907 Q74907_9HIV1,	82289509 sp Q74906 Q74906_9HIV1,	
82289508 sp Q74905 Q74905_9HIV1,	82288075 sp Q70201 Q70201_9HIV1,	
82288074 sp Q70199 Q70199_9HIV1,	82288046 sp Q70021 Q70021_9HIV1,	
82288045 sp Q70019 Q70019_9HIV1,	82288044 sp Q70017 Q70017_9HIV1,	
82288043 sp Q70015 Q70015_9HIV1,	82288042 sp Q70013 Q70013_9HIV1,	
82288041 sp Q70011 Q70011_9HIV1,	82288040 sp Q70009 Q70009_9HIV1,	
82288039 sp Q70007 Q70007_9HIV1,	82288038 sp Q70005 Q70005_9HIV1,	
82288037 sp Q70004 Q70004_9HIV1,	82288036 sp Q70002 Q70002_9HIV1,	
82288035 sp Q70001 Q70001_9HIV1,	82284332 sp Q69999 Q69999_9HIV1,	
82284331 sp Q69997 Q69997_9HIV1,	82284330 sp Q69995 Q69995_9HIV1,	
82284329 sp Q69993 Q69993_9HIV1,	82284328 sp Q69991 Q69991_9HIV1,	
82284327 sp Q69989 Q69989_9HIV1,	82280443 sp O89293 O89293_9HIV1,	
82279844 sp O70903 O70903_9HIV1,	82279842 sp O70896 O70896_9HIV1,	
82279692 sp O41804 O41804_9HIV1,	82279690 sp O41790 O41790_9HIV1,	
82279687 sp O41781 O41781_9HIV1,	82279685 sp O41773 O41773_9HIV1,	
2276306 emb CAB10831.1 ,	2276304 emb CAB10830.1 ,	2276302 emb CAB10829.1 ,
2276300 emb CAB10828.1 ,	2276298 emb CAB10827.1 ,	2276296 emb CAB10826.1 ,
2276294 emb CAB10825.1 ,	2276292 emb CAB10824.1 ,	2276290 emb CAB10823.1 ,
2276288 emb CAB10822.1 ,	2276286 emb CAB10821.1 ,	2276284 emb CAB10820.1 ,
2276282 emb CAB10819.1 ,	2276280 emb CAB10818.1 ,	2276278 emb CAB10817.1 ,
2276276 emb CAB10816.1 ,	2276274 emb CAB10815.1 ,	60116 emb CAA44766.1 ,
6466845 gb AAF13060.1 ,	7021462 gb AAF35361.1 ,	2801509 gb AAC82597.1 ,
1123021 gb AAC54650.1 ,	1123011 gb AAC54641.1 ,	1171192 gb AAB47920.1 ,
554990 gb AAB04042.1 ,	60237 emb CAA44771.1 ,	1176382 gb AAA86737.1 ,
1171196 gb AAA86259.1 ,	1171194 gb AAA86258.1 ,	1171172 gb AAA86253.1 ,
1151168 gb AAA85238.1 ,	665534 gb AAA76691.1 ,	326372 gb AAA44192.1 ,
14579600 gb AAK69319.1 ,	82318849 sp Q9DSL7 Q9DSL7_9HIV1,	
82306993 sp Q9QRX0 Q9QRX0_9HIV1,	82306991 sp Q9QRW1 Q9QRW1_9HIV1,	
82306102 sp Q9QEF2 Q9QEF2_9HIV1,	82305934 sp Q9Q713 Q9Q713_9HIV1,	

82305932 sp Q9Q704 Q9Q704_9HIV1,	82305168 sp Q9J0G4 Q9J0G4_9HIV1,
82304876 sp Q9IMJ1 Q9IMJ1_9HIV1,	82302367 sp Q998E4 Q998E4_9HIV1,
82300665 sp Q90MM2 Q90MM2_9HIV1,	82300663 sp Q90ML3 Q90ML3_9HIV1,
82300661 sp Q90MK4 Q90MK4_9HIV1,	82295355 sp Q89896 Q89896_9HIV1,
82295352 sp Q89880 Q89880_9HIV1,	82295344 sp Q89766 Q89766_9HIV1,
82295322 sp Q89553 Q89553_9HIV1,	82289664 sp Q75753 Q75753_9HIV1,
82289662 sp Q75751 Q75751_9HIV1,	82289661 sp Q75750 Q75750_9HIV1,
82289660 sp Q75749 Q75749_9HIV1,	82289659 sp Q75748 Q75748_9HIV1,
82289658 sp Q75747 Q75747_9HIV1,	82289657 sp Q75746 Q75746_9HIV1,
82289656 sp Q75745 Q75745_9HIV1,	82289655 sp Q75744 Q75744_9HIV1,
82289654 sp Q75743 Q75743_9HIV1,	82289653 sp Q75742 Q75742_9HIV1,
82289652 sp Q75741 Q75741_9HIV1,	82289651 sp Q75740 Q75740_9HIV1,
82289650 sp Q75739 Q75739_9HIV1,	82289649 sp Q75738 Q75738_9HIV1,
82289648 sp Q75737 Q75737_9HIV1,	82289647 sp Q75736 Q75736_9HIV1,
82289646 sp Q75735 Q75735_9HIV1,	82289645 sp Q75734 Q75734_9HIV1,
82289644 sp Q75733 Q75733_9HIV1,	82289643 sp Q75732 Q75732_9HIV1,
82289639 sp Q75728 Q75728_9HIV1,	82289638 sp Q75727 Q75727_9HIV1,
82289637 sp Q75726 Q75726_9HIV1,	82289636 sp Q75725 Q75725_9HIV1,
82289635 sp Q75724 Q75724_9HIV1,	82289634 sp Q75723 Q75723_9HIV1,
82289633 sp Q75722 Q75722_9HIV1,	82289632 sp Q75719 Q75719_9HIV1,
82289630 sp Q75717 Q75717_9HIV1,	82289629 sp Q75716 Q75716_9HIV1,
82289628 sp Q75715 Q75715_9HIV1,	82289627 sp Q75714 Q75714_9HIV1,
82289497 sp Q74842 Q74842_9HIV1,	82288908 sp Q73328 Q73328_9HIV1,
82288768 sp Q72496 Q72496_9HIV1,	3850011 emb CAA76050.1 ,
3618131 emb CAA13528.1 ,	3618129 emb CAA13527.1 ,
3618125 emb CAA13525.1 ,	3618123 emb CAA13524.1 ,
3618118 emb CAA13522.1 ,	3618116 emb CAA13521.1 ,
3618112 emb CAA13519.1 ,	3618108 emb CAA13518.1 ,
3618104 emb CAA13516.1 ,	3618102 emb CAA13515.1 ,
3618098 emb CAA13513.1 ,	3618096 emb CAA13512.1 ,
3618090 emb CAA13509.1 ,	3618088 emb CAA13508.1 ,
3618084 emb CAA13506.1 ,	3618082 emb CAA13505.1 ,
3618078 emb CAA13503.1 ,	3618076 emb CAA13502.1 ,
3618072 emb CAA13500.1 ,	3618070 emb CAA13499.1 ,
3618066 emb CAA13497.1 ,	3618064 emb CAA13496.1 ,
3618060 emb CAA13494.1 ,	3618058 emb CAA13493.1 ,
3618054 emb CAA13491.1 ,	3618052 emb CAA13490.1 ,
3618048 emb CAA13488.1 ,	3618046 emb CAA13487.1 ,
3618042 emb CAA13485.1 ,	3618040 emb CAA13484.1 ,
3618034 emb CAA13481.1 ,	3618032 emb CAA13480.1 ,
3618028 emb CAA13478.1 ,	1568317 emb CAA02191.1 ,
3850015 emb CAA76052.1 ,	3850013 emb CAA76051.1 ,
3618038 emb CAA13483.1 ,	299712 gb AAB26291.1 ,
5070579 gb AAD39193.1 ,	5070578 gb AAD39192.1 ,
5070576 gb AAD39190.1 ,	5070575 gb AAD39189.1 ,
5070573 gb AAD39187.1 ,	5070572 gb AAD39186.1 ,
5070570 gb AAD39184.1 ,	5730861 gb AAD48750.1 AF120923_1 ,
5730860 gb AAD48749.1 AF120922_1 ,	5730859 gb AAD48748.1 AF120920_1 ,
	3850017 emb CAA76053.1 ,
	3618092 emb CAA13510.1 ,
	255653 gb AAB23301.1 ,
	5070577 gb AAD39191.1 ,
	5070574 gb AAD39188.1 ,
	5070571 gb AAD39185.1 ,

|5730858|gb|AAD48747.1|AF120919_1,
|5730856|gb|AAD48745.1|AF120917_1,
|5730854|gb|AAD48743.1|AF120915_1,
|5730852|gb|AAD48741.1|AF120913_1,
|5730850|gb|AAD48739.1|AF120911_1,
|5730848|gb|AAD48737.1|AF120908_1,
|5730846|gb|AAD48735.1|AF120906_1,
|5730844|gb|AAD48733.1|AF120904_1,
|5730842|gb|AAD48731.1|AF120896_1,
|5730840|gb|AAD48729.1|AF120894_1,
|5730838|gb|AAD48727.1|AF120892_1,
|5730836|gb|AAD48725.1|AF120890_1,
|5730834|gb|AAD48723.1|AF120888_1,
|5730832|gb|AAD48721.1|AF120886_1,
|5730830|gb|AAD48719.1|AF120884_1,
|5730828|gb|AAD48717.1|AF120882_1,
|5730826|gb|AAD48715.1|AF120880_1,
|5730824|gb|AAD48713.1|AF120878_1,
|5730822|gb|AAD48711.1|AF120876_1,
|5730820|gb|AAD48709.1|AF120874_1,
|5730818|gb|AAD48707.1|AF120872_1,
|5730816|gb|AAD48705.1|AF120870_1,
|5730814|gb|AAD48703.1|AF120868_1,
|5730812|gb|AAD48701.1|AF120865_1,
|5730810|gb|AAD48699.1|AF120863_1,
|5730808|gb|AAD48697.1|AF120861_1,
|5730806|gb|AAD48695.1|AF120859_1,
|5730804|gb|AAD48693.1|AF120857_1,
|5730802|gb|AAD48691.1|AF120855_1,
|5730800|gb|AAD48689.1|AF120853_1,
|5730798|gb|AAD48687.1|AF120851_1,
|5730796|gb|AAD48685.1|AF120847_1,
|5730794|gb|AAD48683.1|AF120839_1,
|5730792|gb|AAD48681.1|AF120837_1,
|5730790|gb|AAD48679.1|AF120835_1,
|5730788|gb|AAD48677.1|AF120833_1,
|5730786|gb|AAD48675.1|AF120831_1,
|5730784|gb|AAD48673.1|AF120829_1,
|5730782|gb|AAD48671.1|AF120827_1,
|5730780|gb|AAD48669.1|AF120825_1,
|5730778|gb|AAD48667.1|AF120821_1,
|5730776|gb|AAD48665.1|AF120817_1,
|5730774|gb|AAD48663.1|AF120814_1,
|5730772|gb|AAD48661.1|AF120810_1,
|5730770|gb|AAD48659.1|AF120808_1,
|5730768|gb|AAD48657.1|AF120805_1,
|5730766|gb|AAD48655.1|AF120803_1,
|5730764|gb|AAD48653.1|AF120801_1,

|5730857|gb|AAD48746.1|AF120918_1,
|5730855|gb|AAD48744.1|AF120916_1,
|5730853|gb|AAD48742.1|AF120914_1,
|5730851|gb|AAD48740.1|AF120912_1,
|5730849|gb|AAD48738.1|AF120909_1,
|5730847|gb|AAD48736.1|AF120907_1,
|5730845|gb|AAD48734.1|AF120905_1,
|5730843|gb|AAD48732.1|AF120897_1,
|5730841|gb|AAD48730.1|AF120895_1,
|5730839|gb|AAD48728.1|AF120893_1,
|5730837|gb|AAD48726.1|AF120891_1,
|5730835|gb|AAD48724.1|AF120889_1,
|5730833|gb|AAD48722.1|AF120887_1,
|5730831|gb|AAD48720.1|AF120885_1,
|5730829|gb|AAD48718.1|AF120883_1,
|5730827|gb|AAD48716.1|AF120881_1,
|5730825|gb|AAD48714.1|AF120879_1,
|5730823|gb|AAD48712.1|AF120877_1,
|5730821|gb|AAD48710.1|AF120875_1,
|5730819|gb|AAD48708.1|AF120873_1,
|5730817|gb|AAD48706.1|AF120871_1,
|5730815|gb|AAD48704.1|AF120869_1,
|5730813|gb|AAD48702.1|AF120867_1,
|5730811|gb|AAD48700.1|AF120864_1,
|5730809|gb|AAD48698.1|AF120862_1,
|5730807|gb|AAD48696.1|AF120860_1,
|5730805|gb|AAD48694.1|AF120858_1,
|5730803|gb|AAD48692.1|AF120856_1,
|5730801|gb|AAD48690.1|AF120854_1,
|5730799|gb|AAD48688.1|AF120852_1,
|5730797|gb|AAD48686.1|AF120850_1,
|5730795|gb|AAD48684.1|AF120846_1,
|5730793|gb|AAD48682.1|AF120838_1,
|5730791|gb|AAD48680.1|AF120836_1,
|5730789|gb|AAD48678.1|AF120834_1,
|5730787|gb|AAD48676.1|AF120832_1,
|5730785|gb|AAD48674.1|AF120830_1,
|5730783|gb|AAD48672.1|AF120828_1,
|5730781|gb|AAD48670.1|AF120826_1,
|5730779|gb|AAD48668.1|AF120822_1,
|5730777|gb|AAD48666.1|AF120818_1,
|5730775|gb|AAD48664.1|AF120815_1,
|5730773|gb|AAD48662.1|AF120811_1,
|5730771|gb|AAD48660.1|AF120809_1,
|5730769|gb|AAD48658.1|AF120806_1,
|5730767|gb|AAD48656.1|AF120804_1,
|5730765|gb|AAD48654.1|AF120802_1,
|5730763|gb|AAD48652.1|AF120800_1,

|5730762|gb|AAD48651.1|AF120799_1,
 |5730760|gb|AAD48649.1|AF120797_1,
 |5730758|gb|AAD48647.1|AF120795_1,
 |5730756|gb|AAD48645.1|AF120793_1,
 |5730754|gb|AAD48643.1|AF120790_1,
 |5730752|gb|AAD48641.1|AF120787_1,
 |5730750|gb|AAD48639.1|AF120785_1,
 |5730748|gb|AAD48637.1|AF120777_1,
 |5730746|gb|AAD48635.1|AF120774_1,
 |5730744|gb|AAD48633.1|AF120772_1,
 |5730742|gb|AAD48631.1|AF120770_1,
 |5730740|gb|AAD48629.1|AF120768_1,
 |5730738|gb|AAD48627.1|AF120766_1,
 |5730736|gb|AAD48625.1|AF120752_1,
 |5730734|gb|AAD48623.1|AF120749_1,
 |5730732|gb|AAD48621.1|AF120746_1,
 |6016896|dbj|BAA85233.1|,
 |82307834|sp|Q9WP19|Q9WP19_9HIV1,
 |82307832|sp|Q9WP17|Q9WP17_9HIV1,
 |82307830|sp|Q9WP15|Q9WP15_9HIV1,
 |82307828|sp|Q9WP13|Q9WP13_9HIV1,
 |82307826|sp|Q9WP11|Q9WP11_9HIV1,
 |82306989|sp|Q9QRL6|Q9QRL6_9HIV1,
 |82306987|sp|Q9QRL4|Q9QRL4_9HIV1,
 |82306985|sp|Q9QRL2|Q9QRL2_9HIV1,
 |82306983|sp|Q9QRL0|Q9QRL0_9HIV1,
 |82306981|sp|Q9QRK8|Q9QRK8_9HIV1,
 |82306979|sp|Q9QRK6|Q9QRK6_9HIV1,
 |82306977|sp|Q9QRK4|Q9QRK4_9HIV1,
 |82306975|sp|Q9QRK2|Q9QRK2_9HIV1,
 |82306973|sp|Q9QRK0|Q9QRK0_9HIV1,
 |82306971|sp|Q9QRJ8|Q9QRJ8_9HIV1,
 |82306969|sp|Q9QRJ6|Q9QRJ6_9HIV1,
 |82306967|sp|Q9QRJ4|Q9QRJ4_9HIV1,
 |82306965|sp|Q9QRJ2|Q9QRJ2_9HIV1,
 |82306963|sp|Q9QRJ0|Q9QRJ0_9HIV1,
 |82306961|sp|Q9QRI8|Q9QRI8_9HIV1,
 |82306959|sp|Q9QRI6|Q9QRI6_9HIV1,
 |82306957|sp|Q9QRI4|Q9QRI4_9HIV1,
 |82306955|sp|Q9QRI2|Q9QRI2_9HIV1,
 |82306953|sp|Q9QRI0|Q9QRI0_9HIV1,
 |82306951|sp|Q9QRH8|Q9QRH8_9HIV1,
 |82306949|sp|Q9QRH6|Q9QRH6_9HIV1,
 |82306947|sp|Q9QRH4|Q9QRH4_9HIV1,
 |82306945|sp|Q9QRH2|Q9QRH2_9HIV1,
 |82306943|sp|Q9QRH0|Q9QRH0_9HIV1,
 |82306941|sp|Q9QRG8|Q9QRG8_9HIV1,
 |82306939|sp|Q9QRG6|Q9QRG6_9HIV1,

|5730761|gb|AAD48650.1|AF120798_1,
 |5730759|gb|AAD48648.1|AF120796_1,
 |5730757|gb|AAD48646.1|AF120794_1,
 |5730755|gb|AAD48644.1|AF120792_1,
 |5730753|gb|AAD48642.1|AF120789_1,
 |5730751|gb|AAD48640.1|AF120786_1,
 |5730749|gb|AAD48638.1|AF120778_1,
 |5730747|gb|AAD48636.1|AF120776_1,
 |5730745|gb|AAD48634.1|AF120773_1,
 |5730743|gb|AAD48632.1|AF120771_1,
 |5730741|gb|AAD48630.1|AF120769_1,
 |5730739|gb|AAD48628.1|AF120767_1,
 |5730737|gb|AAD48626.1|AF120761_1,
 |5730735|gb|AAD48624.1|AF120751_1,
 |5730733|gb|AAD48622.1|AF120747_1,
 |5730731|gb|AAD48620.1|AF120745_1,
 |82307835|sp|Q9WP20|Q9WP20_9HIV1,
 |82307833|sp|Q9WP18|Q9WP18_9HIV1,
 |82307831|sp|Q9WP16|Q9WP16_9HIV1,
 |82307829|sp|Q9WP14|Q9WP14_9HIV1,
 |82307827|sp|Q9WP12|Q9WP12_9HIV1,
 |82306990|sp|Q9QRL7|Q9QRL7_9HIV1,
 |82306988|sp|Q9QRL5|Q9QRL5_9HIV1,
 |82306986|sp|Q9QRL3|Q9QRL3_9HIV1,
 |82306984|sp|Q9QRL1|Q9QRL1_9HIV1,
 |82306982|sp|Q9QRK9|Q9QRK9_9HIV1,
 |82306980|sp|Q9QRK7|Q9QRK7_9HIV1,
 |82306978|sp|Q9QRK5|Q9QRK5_9HIV1,
 |82306976|sp|Q9QRK3|Q9QRK3_9HIV1,
 |82306974|sp|Q9QRK1|Q9QRK1_9HIV1,
 |82306972|sp|Q9QRJ9|Q9QRJ9_9HIV1,
 |82306970|sp|Q9QRJ7|Q9QRJ7_9HIV1,
 |82306968|sp|Q9QRJ5|Q9QRJ5_9HIV1,
 |82306966|sp|Q9QRJ3|Q9QRJ3_9HIV1,
 |82306964|sp|Q9QRJ1|Q9QRJ1_9HIV1,
 |82306962|sp|Q9QRI9|Q9QRI9_9HIV1,
 |82306960|sp|Q9QRI7|Q9QRI7_9HIV1,
 |82306958|sp|Q9QRI5|Q9QRI5_9HIV1,
 |82306956|sp|Q9QRI3|Q9QRI3_9HIV1,
 |82306954|sp|Q9QRI1|Q9QRI1_9HIV1,
 |82306952|sp|Q9QRH9|Q9QRH9_9HIV1,
 |82306950|sp|Q9QRH7|Q9QRH7_9HIV1,
 |82306948|sp|Q9QRH5|Q9QRH5_9HIV1,
 |82306946|sp|Q9QRH3|Q9QRH3_9HIV1,
 |82306944|sp|Q9QRH1|Q9QRH1_9HIV1,
 |82306942|sp|Q9QRG9|Q9QRG9_9HIV1,
 |82306940|sp|Q9QRG7|Q9QRG7_9HIV1,
 |82306938|sp|Q9QRG5|Q9QRG5_9HIV1,

82306937 sp Q9QRG4 Q9QRG4_9HIV1,	82306936 sp Q9QRG3 Q9QRG3_9HIV1,
82306935 sp Q9QRG2 Q9QRG2_9HIV1,	82306934 sp Q9QRG1 Q9QRG1_9HIV1,
82306933 sp Q9QRG0 Q9QRG0_9HIV1,	82306932 sp Q9QRF9 Q9QRF9_9HIV1,
82306931 sp Q9QRF8 Q9QRF8_9HIV1,	82306930 sp Q9QRF7 Q9QRF7_9HIV1,
82306929 sp Q9QRF6 Q9QRF6_9HIV1,	82306928 sp Q9QRF5 Q9QRF5_9HIV1,
82306927 sp Q9QRF4 Q9QRF4_9HIV1,	82306926 sp Q9QRF3 Q9QRF3_9HIV1,
82306925 sp Q9QRF2 Q9QRF2_9HIV1,	82306924 sp Q9QRF1 Q9QRF1_9HIV1,
82306923 sp Q9QRF0 Q9QRF0_9HIV1,	82306922 sp Q9QRE9 Q9QRE9_9HIV1,
82306921 sp Q9QRE8 Q9QRE8_9HIV1,	82306920 sp Q9QRE7 Q9QRE7_9HIV1,
82306919 sp Q9QRE6 Q9QRE6_9HIV1,	82306918 sp Q9QRE5 Q9QRE5_9HIV1,
82306917 sp Q9QRE4 Q9QRE4_9HIV1,	82306916 sp Q9QRE3 Q9QRE3_9HIV1,
82306915 sp Q9QRE2 Q9QRE2_9HIV1,	82306914 sp Q9QRE1 Q9QRE1_9HIV1,
82306913 sp Q9QRE0 Q9QRE0_9HIV1,	82306912 sp Q9QRD9 Q9QRD9_9HIV1,
82306911 sp Q9QRD8 Q9QRD8_9HIV1,	82306910 sp Q9QRD7 Q9QRD7_9HIV1,
82306909 sp Q9QRD6 Q9QRD6_9HIV1,	82306908 sp Q9QRD5 Q9QRD5_9HIV1,
82306907 sp Q9QRD4 Q9QRD4_9HIV1,	82306906 sp Q9QRD3 Q9QRD3_9HIV1,
82306905 sp Q9QRD2 Q9QRD2_9HIV1,	82306904 sp Q9QRD1 Q9QRD1_9HIV1,
82306903 sp Q9QRD0 Q9QRD0_9HIV1,	82306902 sp Q9QRC9 Q9QRC9_9HIV1,
82306901 sp Q9QRC8 Q9QRC8_9HIV1,	82306900 sp Q9QRC7 Q9QRC7_9HIV1,
82305574 sp Q9PXA5 Q9PXA5_9HIV1,	82305573 sp Q9PX97 Q9PX97_9HIV1,
82305572 sp Q9PX78 Q9PX78_9HIV1,	82305570 sp Q9PX56 Q9PX56_9HIV1,
82305569 sp Q9PX55 Q9PX55_9HIV1,	82305568 sp Q9PX48 Q9PX48_9HIV1,
82305562 sp Q9PX09 Q9PX09_9HIV1,	82305561 sp Q9PX04 Q9PX04_9HIV1,
82305557 sp Q9PWZ7 Q9PWZ7_9HIV1,	82305556 sp Q9PWZ6 Q9PWZ6_9HIV1,
82305552 sp Q9PWW5 Q9PWW5_9HIV1,	82305551 sp Q9PWW2 Q9PWW2_9HIV1,
82305550 sp Q9PWW0 Q9PWW0_9HIV1,	82305549 sp Q9PWV8 Q9PWV8_9HIV1,
82305548 sp Q9PWV2 Q9PWV2_9HIV1,	82305547 sp Q9PWT7 Q9PWT7_9HIV1,
82306540 sp Q9QN90 Q9QN90_9HIV1,	8218034 emb CAB92794.1 ,
3252975 gb AAD12122.1	elongated,
7416180 dbj BAA93741.1 ,	7416170 dbj BAA93736.1 ,
1688184 gb AAB51054.1 ,	1688180 gb AAB51052.1 ,
7416240 dbj BAA93771.1 ,	7416238 dbj BAA93770.1 ,
7416234 dbj BAA93768.1 ,	7416232 dbj BAA93767.1 ,
7416228 dbj BAA93765.1 ,	7416226 dbj BAA93764.1 ,
7416222 dbj BAA93762.1 ,	7416220 dbj BAA93761.1 ,
7416216 dbj BAA93759.1 ,	7416214 dbj BAA93758.1 ,
7416210 dbj BAA93756.1 ,	7416208 dbj BAA93755.1 ,
7416204 dbj BAA93753.1 ,	7416202 dbj BAA93752.1 ,
7416198 dbj BAA93750.1 ,	7416194 dbj BAA93748.1 ,
7416190 dbj BAA93746.1 ,	7416188 dbj BAA93745.1 ,
7416184 dbj BAA93743.1 ,	7416182 dbj BAA93742.1 ,
7416176 dbj BAA93739.1 ,	7416174 dbj BAA93738.1 ,
7416168 dbj BAA93735.1 ,	7416166 dbj BAA93734.1 ,
7416162 dbj BAA93732.1 ,	7416160 dbj BAA93731.1 ,
7416156 dbj BAA93729.1 ,	7416154 dbj BAA93728.1 ,
7416148 dbj BAA93725.1 ,	7416146 dbj BAA93724.1 ,
7416142 dbj BAA93722.1 ,	7416140 dbj BAA93721.1 ,
6382034 dbj BAA86687.1 ,	6382032 dbj BAA86661.1 ,
	7416196 dbj BAA93749.1 ,
	7416150 dbj BAA93726.1 ,
	7416242 dbj BAA93772.1 ,
	7416236 dbj BAA93769.1 ,
	7416230 dbj BAA93766.1 ,
	7416224 dbj BAA93763.1 ,
	7416218 dbj BAA93760.1 ,
	7416212 dbj BAA93757.1 ,
	7416206 dbj BAA93754.1 ,
	7416200 dbj BAA93751.1 ,
	7416192 dbj BAA93747.1 ,
	7416186 dbj BAA93744.1 ,
	7416178 dbj BAA93740.1 ,
	7416172 dbj BAA93737.1 ,
	7416164 dbj BAA93733.1 ,
	7416158 dbj BAA93730.1 ,
	7416152 dbj BAA93727.1 ,
	7416144 dbj BAA93723.1 ,
	1055038 gb AAA81044.1 ,
	6362012 dbj BAA86690.1 ,

6362006 dbj BAA86689.1 ,	6362000 dbj BAA86688.1 ,	6361979 dbj BAA86686.1 ,
6361973 dbj BAA86685.1 ,	6361967 dbj BAA86684.1 ,	6361962 dbj BAA86683.1 ,
6361957 dbj BAA86682.1 ,	6361951 dbj BAA86681.1 ,	6361945 dbj BAA86680.1 ,
6361940 dbj BAA86679.1 ,	6361934 dbj BAA86678.1 ,	6361928 dbj BAA86677.1 ,
6361922 dbj BAA86676.1 ,	6361916 dbj BAA86675.1 ,	6361910 dbj BAA86674.1 ,
6361904 dbj BAA86673.1 ,	6361898 dbj BAA86672.1 ,	6361892 dbj BAA86671.1 ,
6361886 dbj BAA86670.1 ,	6361880 dbj BAA86669.1 ,	6361871 dbj BAA86668.1 ,
6361865 dbj BAA86667.1 ,	6361859 dbj BAA86666.1 ,	6361853 dbj BAA86665.1 ,
6361848 dbj BAA86664.1 ,	6361842 dbj BAA86663.1 ,	6361837 dbj BAA86662.1 ,
6361801 dbj BAA86660.1 ,	6361795 dbj BAA86659.1 ,	4868331 gb AAD31265.1 ,
4868329 gb AAD31264.1 ,	4868327 gb AAD31263.1 ,	4868325 gb AAD31262.1 ,
4868323 gb AAD31261.1 ,	4868321 gb AAD31260.1 ,	4868319 gb AAD31259.1 ,
4868317 gb AAD31258.1 ,	4868315 gb AAD31257.1 ,	4868313 gb AAD31256.1 ,
4868311 gb AAD31255.1 ,	4868309 gb AAD31254.1 ,	4868307 gb AAD31253.1 ,
4868305 gb AAD31252.1 ,	4868303 gb AAD31251.1 ,	4868301 gb AAD31250.1 ,
4868299 gb AAD31249.1 ,	4868297 gb AAD31248.1 ,	4868295 gb AAD31247.1 ,
4868293 gb AAD31246.1 ,	4868291 gb AAD31245.1 ,	4868289 gb AAD31244.1 ,
4868287 gb AAD31243.1 ,	4868285 gb AAD31242.1 ,	4868283 gb AAD31241.1 ,
4868281 gb AAD31240.1 ,	4868279 gb AAD31239.1 ,	4868277 gb AAD31238.1 ,
4868275 gb AAD31237.1 ,	4868273 gb AAD31236.1 ,	4868271 gb AAD31235.1 ,
4868269 gb AAD31234.1 ,	4868267 gb AAD31233.1 ,	4868265 gb AAD31232.1 ,
4868263 gb AAD31231.1 ,	4868261 gb AAD31230.1 ,	4868259 gb AAD31229.1 ,
4868257 gb AAD31228.1 ,	4868255 gb AAD31227.1 ,	4868253 gb AAD31226.1 ,
4868251 gb AAD31225.1 ,	4868249 gb AAD31224.1 ,	4868247 gb AAD31223.1 ,
4868245 gb AAD31222.1 ,	4868243 gb AAD31221.1 ,	4868241 gb AAD31220.1 ,
4868239 gb AAD31219.1 ,	4868237 gb AAD31218.1 ,	4868235 gb AAD31217.1 ,
4868233 gb AAD31216.1 ,	4868231 gb AAD31215.1 ,	4868229 gb AAD31214.1 ,
4868227 gb AAD31213.1 ,	4868225 gb AAD31212.1 ,	4868223 gb AAD31211.1 ,
4868221 gb AAD31210.1 ,	4868219 gb AAD31209.1 ,	4868217 gb AAD31208.1 ,
4868215 gb AAD31207.1 ,	4868213 gb AAD31206.1 ,	4868211 gb AAD31205.1 ,
4868209 gb AAD31204.1 ,	4868207 gb AAD31203.1 ,	2745747 gb AAC97531.1 ,
3193280 gb AAD03333.1 ,	3193271 gb AAD03325.1 ,	1890692 gb AAC97549.1 ,
2351785 gb AAC59272.1 ,	3378130 gb AAC28453.1 ,	23394686 gb AAN31556.1 ,
23394684 gb AAN31555.1 ,	23394682 gb AAN31554.1 ,	23394680 gb AAN31553.1 ,
23394678 gb AAN31552.1 ,	23394676 gb AAN31551.1 ,	23394674 gb AAN31550.1 ,
23394672 gb AAN31549.1 ,	23394669 gb AAN31548.1 ,	23394667 gb AAN31547.1 ,
23394665 gb AAN31546.1 ,	23394663 gb AAN31545.1 ,	23394661 gb AAN31544.1 ,
23394659 gb AAN31543.1 ,	23394657 gb AAN31542.1 ,	23394655 gb AAN31541.1 ,
23394652 gb AAN31540.1 ,	23394650 gb AAN31539.1 ,	23394648 gb AAN31538.1 ,
23394646 gb AAN31537.1 ,	23394644 gb AAN31536.1 ,	23394642 gb AAN31535.1 ,
23394640 gb AAN31534.1 ,	23394638 gb AAN31533.1 ,	23394635 gb AAN31532.1 ,
23394633 gb AAN31531.1 ,	23394631 gb AAN31530.1 ,	23394629 gb AAN31529.1 ,
23394627 gb AAN31528.1 ,	23394625 gb AAN31527.1 ,	23394623 gb AAN31526.1 ,
17046926 gb AAL34926.1 ,	17046916 gb AAL34917.1 ,	17046906 gb AAL34908.1 ,
17046896 gb AAL34899.1 ,	17046886 gb AAL34890.1 ,	17046876 gb AAL34881.1 ,
17046866 gb AAL34872.1 ,	17046856 gb AAL34863.1 ,	17046846 gb AAL34854.1 ,
17046836 gb AAL34845.1 ,	17046830 gb AAL34840.1 ,	17046820 gb AAL34831.1 ,
17046810 gb AAL34822.1 ,	17046800 gb AAL34813.1 ,	17046790 gb AAL34804.1 ,

17046780 gb AAL34795.1 ,	17046770 gb AAL34786.1 ,	17046760 gb AAL34777.1 ,
17046750 gb AAL34768.1 ,	17046739 gb AAL34758.1 ,	17046730 gb AAL34750.1 ,
17046720 gb AAL34741.1 ,	17046710 gb AAL34732.1 ,	17046700 gb AAL34723.1 ,
17046690 gb AAL34714.1 ,	17046680 gb AAL34705.1 ,	17046670 gb AAL34696.1 ,
17046660 gb AAL34687.1 ,	17046650 gb AAL34678.1 ,	17046640 gb AAL34669.1 ,
17046630 gb AAL34660.1 ,	17046620 gb AAL34651.1 ,	17046610 gb AAL34642.1 ,
17046600 gb AAL34633.1 ,	17046590 gb AAL34624.1 ,	17046580 gb AAL34615.1 ,
17046570 gb AAL34606.1 ,	17046560 gb AAL34597.1 ,	17046550 gb AAL34588.1 ,
17046540 gb AAL34579.1 ,	17046530 gb AAL34570.1 ,	17046520 gb AAL34561.1 ,
14209306 dbj BAB55915.1 ,	15788303 gb AAL07750.1 ,	15788293 gb AAL07741.1 ,
15788283 gb AAL07732.1 ,	15788273 gb AAL07723.1 ,	15788263 gb AAL07714.1 ,
15788253 gb AAL07705.1 ,	15788244 gb AAL07697.1 ,	15787966 gb AAL07556.1 ,
18201637 gb AAL65389.1 ,	18201635 gb AAL65388.1 ,	18201633 gb AAL65387.1 ,
18201631 gb AAL65386.1 ,	18201629 gb AAL65385.1 ,	18201627 gb AAL65384.1 ,
18201625 gb AAL65383.1 ,	18201623 gb AAL65382.1 ,	18201621 gb AAL65381.1 ,
18201619 gb AAL65380.1 ,	18201617 gb AAL65379.1 ,	18201615 gb AAL65378.1 ,
18201613 gb AAL65377.1 ,	18201611 gb AAL65376.1 ,	18201609 gb AAL65375.1 ,
18201607 gb AAL65374.1 ,	18201605 gb AAL65373.1 ,	18201601 gb AAL65371.1 ,
18201599 gb AAL65370.1 ,	18201597 gb AAL65369.1 ,	18201589 gb AAL65365.1 ,
18201587 gb AAL65364.1 ,	18201585 gb AAL65363.1 ,	18201573 gb AAL65357.1 ,
18201571 gb AAL65356.1 truncated,		18201569 gb AAL65355.1 ,
18201567 gb AAL65354.1 truncated,		18201565 gb AAL65353.1 ,
18201563 gb AAL65352.1 ,	18201561 gb AAL65351.1 ,	18201547 gb AAL65344.1 ,
18201545 gb AAL65343.1 ,	18201541 gb AAL65341.1 ,	18201539 gb AAL65340.1 ,
18201537 gb AAL65339.1 ,	18201535 gb AAL65338.1 ,	18201533 gb AAL65337.1 ,
18201531 gb AAL65336.1 truncated,		18201529 gb AAL65335.1 ,
18201527 gb AAL65334.1 ,	18201525 gb AAL65333.1 ,	18201523 gb AAL65332.1 ,
18201515 gb AAL65328.1 ,		18201511 gb AAL65326.1 ,
18201509 gb AAL65325.1 truncated,		18201507 gb AAL65324.1 ,
18201501 gb AAL65321.1 ,	18201495 gb AAL65318.1 ,	18201493 gb AAL65317.1 ,
18201491 gb AAL65316.1 ,	18201489 gb AAL65315.1 ,	18201487 gb AAL65314.1 ,
18201485 gb AAL65313.1 ,	18201483 gb AAL65312.1 ,	18201481 gb AAL65311.1 ,
18201479 gb AAL65310.1 ,	18201477 gb AAL65309.1 ,	18201475 gb AAL65308.1 ,
18201473 gb AAL65307.1 ,	18201471 gb AAL65306.1 ,	18201469 gb AAL65305.1 ,
18201467 gb AAL65304.1 ,	18201465 gb AAL65303.1 ,	18201463 gb AAL65302.1 ,
18201461 gb AAL65301.1 ,	18201459 gb AAL65300.1 ,	18201457 gb AAL65299.1 ,
18201455 gb AAL65298.1 ,	18201453 gb AAL65297.1 ,	18201451 gb AAL65296.1 ,
18201449 gb AAL65295.1 ,	18201447 gb AAL65294.1 ,	18201445 gb AAL65293.1 ,
3549113 gb AAC34564.1 ,	3549109 gb AAC34562.1 ,	3549107 gb AAC34561.1 ,
3549055 gb AAC34535.1 ,	3549049 gb AAC34532.1 ,	3549043 gb AAC34529.1 ,
3549037 gb AAC34526.1 ,	3549033 gb AAC34524.1 ,	3549031 gb AAC34523.1 ,
3549029 gb AAC34522.1 ,	3549027 gb AAC34521.1 ,	6063087 gb AAF03127.1 ,
6063086 gb AAF03126.1 ,	6063085 gb AAF03125.1 ,	6063084 gb AAF03124.1 ,
6063083 gb AAF03123.1 ,	6063082 gb AAF03122.1 ,	6063081 gb AAF03121.1 ,
6063080 gb AAF03120.1 ,	6063079 gb AAF03119.1 ,	6063078 gb AAF03118.1 ,
6063077 gb AAF03117.1 ,	6063076 gb AAF03116.1 ,	6063075 gb AAF03115.1 ,
6063074 gb AAF03114.1 ,	6063073 gb AAF03113.1 ,	6063072 gb AAF03112.1 ,
6063071 gb AAF03111.1 ,	6063070 gb AAF03110.1 ,	6063069 gb AAF03109.1 ,

6063068 gb AAF03108.1 ,	6063067 gb AAF03107.1 ,	6063066 gb AAF03106.1 ,
6063065 gb AAF03105.1 ,	6063064 gb AAF03104.1 ,	6063063 gb AAF03103.1 ,
6063062 gb AAF03102.1 ,	3549017 gb AAC34516.1 ,	3549013 gb AAC34514.1 ,
3549009 gb AAC34512.1 ,	3549007 gb AAC34511.1 ,	3549005 gb AAC34510.1 ,
3549003 gb AAC34509.1 ,	3548995 gb AAC34505.1 ,	3548992 gb AAC34504.1 ,
3548988 gb AAC34502.1 ,	3548982 gb AAC34499.1 ,	3548980 gb AAC34498.1 ,
5805267 gb AAD51916.1 ,		15407118 gb AAG15585.1 truncated,
15407116 gb AAG15584.1 truncated,		15407114 gb AAG15583.1 truncated,
15128166 gb AAK84407.1 AF397201_1,	15128164 gb AAK84406.1 AF397200_1,	
1688178 gb AAB51051.1 ,	1688176 gb AAB51050.1 ,	1688174 gb AAB51049.1 ,
1688172 gb AAB51048.1 ,	1688170 gb AAB51047.1 ,	1688168 gb AAB51046.1 ,
1688166 gb AAB51045.1 ,	1688164 gb AAB51044.1 ,	1688162 gb AAB51043.1 ,
13172882 gb AAK14230.1 ,	13540188 gb AAK29354.1 ,	13540178 gb AAK29345.1 ,
13540168 gb AAK29336.1 ,	12004923 gb AAG44234.1 ,	12004919 gb AAG44233.1 ,
12004917 gb AAG44232.1 ,		12004915 gb AAG44231.1 ,
12004913 gb AAG44230.1 truncated,		12004911 gb AAG44229.1 ,
12004909 gb AAG44228.1 truncated,	12004907 gb AAG44227.1 truncated,	
12004905 gb AAG44226.1 ,	12004903 gb AAG44225.1 ,	12004901 gb AAG44224.1 ,
12004899 gb AAG44223.1 ,	12004897 gb AAG44222.1 ,	12004895 gb AAG44221.1 ,
12004893 gb AAG44220.1 ,	12004889 gb AAG44218.1 ,	12004887 gb AAG44217.1 ,
12004885 gb AAG44216.1 ,	12004883 gb AAG44215.1 ,	12004881 gb AAG44214.1 ,
12004879 gb AAG44213.1 ,	12004877 gb AAG44212.1 ,	12004875 gb AAG44211.1 ,
12004873 gb AAG44210.1 ,	12004871 gb AAG44209.1 ,	12004869 gb AAG44208.1 ,
12004867 gb AAG44207.1 ,	12004859 gb AAG44206.1 ,	12004857 gb AAG44205.1 ,
12004855 gb AAG44204.1 ,		12004853 gb AAG44203.1 ,
12004851 gb AAG44202.1 truncated,	12004849 gb AAG44201.1 truncated,	
12004847 gb AAG44200.1 truncated,	12004845 gb AAG44199.1 truncated,	
12004841 gb AAG44197.1 truncated,	12004835 gb AAG44194.1 truncated,	
12004829 gb AAG44191.1 ,	12004825 gb AAG44189.1 ,	12004823 gb AAG44188.1 ,
12004821 gb AAG44187.1 ,		12004819 gb AAG44186.1 ,
12004815 gb AAG44184.1 truncated,	12004813 gb AAG44183.1 truncated,	
12004811 gb AAG44182.1 truncated,		12004809 gb AAG44181.1 ,
12004807 gb AAG44180.1 ,		12004805 gb AAG44179.1 ,
12004803 gb AAG44178.1 truncated,		12004801 gb AAG44177.1 ,
12004799 gb AAG44176.1 truncated,		12004797 gb AAG44175.1 ,
12004795 gb AAG44174.1 ,	12004793 gb AAG44173.1 ,	12004791 gb AAG44172.1 ,
12004789 gb AAG44171.1 ,	12004787 gb AAG44170.1 ,	12004785 gb AAG44169.1 ,
12004783 gb AAG44168.1 ,	12004781 gb AAG44167.1 truncated,	
12004779 gb AAG44166.1 ,	12004773 gb AAG44163.1 ,	12004771 gb AAG44162.1 ,
12004769 gb AAG44161.1 ,	12004767 gb AAG44160.1 ,	12004765 gb AAG44159.1 ,
12004762 gb AAG44158.1 ,	12004760 gb AAG44157.1 ,	12004758 gb AAG44156.1 ,
12004751 gb AAG44155.1 ,	12004749 gb AAG44154.1 ,	12004747 gb AAG44153.1 ,
12004745 gb AAG44152.1 ,	12004743 gb AAG44151.1 ,	12004741 gb AAG44150.1 ,
12004739 gb AAG44149.1 ,	12004737 gb AAG44148.1 ,	12004735 gb AAG44147.1 ,
12004733 gb AAG44146.1 ,	12004731 gb AAG44145.1 ,	12004729 gb AAG44144.1 ,
12004726 gb AAG44143.1 ,	12004724 gb AAG44142.1 ,	12004722 gb AAG44141.1 ,
12004720 gb AAG44140.1 ,	12004718 gb AAG44139.1 ,	12004716 gb AAG44138.1 ,
12004708 gb AAG44137.1 ,	11761606 gb AAG38934.1 ,	11761596 gb AAG38925.1 ,

11761586 gb AAG38916.1 ,	11761576 gb AAG38907.1 ,	11761566 gb AAG38898.1 ,
11345187 gb AAG34634.1 ,	11345185 gb AAG34633.1 ,	11345183 gb AAG34632.1 ,
11345181 gb AAG34631.1 ,	11345179 gb AAG34630.1 ,	11345177 gb AAG34629.1 ,
11345175 gb AAG34628.1 ,	11345173 gb AAG34627.1 ,	11345171 gb AAG34626.1 ,
11345169 gb AAG34625.1 ,	11345167 gb AAG34624.1 ,	11345165 gb AAG34623.1 ,
11345163 gb AAG34622.1 ,	11345161 gb AAG34621.1 ,	11345159 gb AAG34620.1 ,
11345157 gb AAG34619.1 ,	11345155 gb AAG34618.1 ,	11345153 gb AAG34617.1 ,
11345151 gb AAG34616.1 ,	11345149 gb AAG34615.1 ,	11345147 gb AAG34614.1 ,
11345145 gb AAG34613.1 ,	11345143 gb AAG34612.1 ,	11345141 gb AAG34611.1 ,
11345139 gb AAG34610.1 ,	11345137 gb AAG34609.1 ,	11345135 gb AAG34608.1 ,
11345133 gb AAG34607.1 ,	11345131 gb AAG34606.1 ,	11345129 gb AAG34605.1 ,
11345127 gb AAG34604.1 ,	11345125 gb AAG34603.1 ,	11345123 gb AAG34602.1 ,
11345121 gb AAG34601.1 ,	11345119 gb AAG34600.1 ,	11345117 gb AAG34599.1 ,
11345115 gb AAG34598.1 ,	11345113 gb AAG34597.1 ,	11345111 gb AAG34596.1 ,
11345109 gb AAG34595.1 ,	11345107 gb AAG34594.1 ,	11345105 gb AAG34593.1 ,
11345103 gb AAG34592.1 ,	11345101 gb AAG34591.1 ,	11345099 gb AAG34590.1 ,
11345097 gb AAG34589.1 ,	11345095 gb AAG34588.1 ,	11345093 gb AAG34587.1 ,
11345091 gb AAG34586.1 ,	11345089 gb AAG34585.1 ,	11345087 gb AAG34584.1 ,
11345085 gb AAG34583.1 ,	11345083 gb AAG34582.1 ,	11345081 gb AAG34581.1 ,
11345079 gb AAG34580.1 ,	11345077 gb AAG34579.1 ,	11345072 gb AAG34578.1 ,
11345070 gb AAG34577.1 ,	11345068 gb AAG34576.1 ,	11345066 gb AAG34575.1 ,
11345064 gb AAG34574.1 ,	11345062 gb AAG34573.1 ,	11345060 gb AAG34572.1 ,
11345058 gb AAG34571.1 ,	11345056 gb AAG34570.1 ,	11345054 gb AAG34569.1 ,
7188381 gb AAF37747.1 ,	7188379 gb AAF37746.1 ,	7188377 gb AAF37745.1 ,
7188375 gb AAF37744.1 ,	7188373 gb AAF37743.1 ,	7188371 gb AAF37742.1 ,
7188369 gb AAF37741.1 ,		7188367 gb AAF37740.1 ,
5713170 gb AAD47831.1 AF166101_1,		3252965 gb AAD12113.1 ,
3252955 gb AAD12104.1 ,	3252945 gb AAD12095.1 ,	3252935 gb AAD12086.1 ,
3252926 gb AAD12078.1 ,	4105547 gb AAD02461.1 ,	4105545 gb AAD02460.1 ,
4105543 gb AAD02459.1 ,	4105541 gb AAD02458.1 ,	4105539 gb AAD02457.1 ,
4105537 gb AAD02456.1 ,	4105535 gb AAD02455.1 ,	4105533 gb AAD02454.1 ,
4102306 gb AAD01472.1 ,	4102304 gb AAD01471.1 ,	4102302 gb AAD01470.1 ,
4102300 gb AAD01469.1 ,	4102298 gb AAD01468.1 ,	4102296 gb AAD01467.1 ,
4102294 gb AAD01466.1 ,	4102292 gb AAD01465.1 ,	4102290 gb AAD01464.1 ,
4102288 gb AAD01463.1 ,	4102286 gb AAD01462.1 ,	4102284 gb AAD01461.1 ,
4102282 gb AAD01460.1 ,	4102280 gb AAD01459.1 ,	4102278 gb AAD01458.1 ,
4102276 gb AAD01457.1 ,	4102274 gb AAD01456.1 ,	4102272 gb AAD01455.1 ,
4102270 gb AAD01454.1 ,	4102268 gb AAD01453.1 ,	4102266 gb AAD01452.1 ,
4102264 gb AAD01451.1 ,	4102262 gb AAD01450.1 ,	4102260 gb AAD01449.1 ,
4102258 gb AAD01448.1 ,	4102256 gb AAD01447.1 ,	3947934 gb AAC82624.1 ,
3098591 gb AAC68858.1 ,	3098581 gb AAC68849.1 ,	2290188 gb AAC58933.1 ,
2290183 gb AAC58930.1 ,	2290122 gb AAC58899.1 ,	2290113 gb AAC58894.1 ,
2290108 gb AAC58891.1 ,	2290101 gb AAC58887.1 ,	2290092 gb AAC58882.1 ,
2290089 gb AAC58880.1 ,	2290074 gb AAC58872.1 ,	2290069 gb AAC58869.1 ,
2290060 gb AAC58864.1 ,	2290051 gb AAC58859.1 ,	2290046 gb AAC58856.1 ,
2290040 gb AAC58852.1 ,	2290035 gb AAC58849.1 ,	2290028 gb AAC58845.1 ,
2290021 gb AAC58841.1 ,	2290010 gb AAC58835.1 ,	2289997 gb AAC58828.1 ,
2289994 gb AAC58826.1 ,	2289985 gb AAC58821.1 ,	2289982 gb AAC58819.1 ,

1905983 gb AAC57005.1 ,	1899110 gb AAC56993.1 ,	1899104 gb AAC56988.1 ,
1899099 gb AAC56984.1 ,	3025691 gb AAC40692.1 ,	3025689 gb AAC40691.1 ,
3025687 gb AAC40690.1 ,	3025685 gb AAC40689.1 ,	3025683 gb AAC40688.1 ,
3025681 gb AAC40687.1 ,	3025679 gb AAC40686.1 ,	2992625 gb AAC40649.1 ,
2992623 gb AAC40648.1 ,	2992621 gb AAC40647.1 ,	2992619 gb AAC40646.1 ,
2992617 gb AAC40645.1 ,	2992615 gb AAC40644.1 ,	2992613 gb AAC40643.1 ,
2992611 gb AAC40642.1 ,	2992609 gb AAC40641.1 ,	2992606 gb AAC40640.1 ,
2992604 gb AAC40639.1 ,	2992602 gb AAC40638.1 ,	2992600 gb AAC40637.1 ,
2992598 gb AAC40636.1 ,	2992596 gb AAC40635.1 ,	2992594 gb AAC40634.1 ,
2992592 gb AAC40633.1 ,	2992590 gb AAC40632.1 ,	1469161 gb AAC37975.1 ,
1772633 gb AAC32301.1 ,	3403231 gb AAC29064.1 ,	3403222 gb AAC29056.1 ,
3403213 gb AAC29048.1 ,	3132819 gb AAC29085.1 ,	3132809 gb AAC29076.1 ,
3171209 gb AAC18382.1 ,	3171207 gb AAC18381.1 ,	3171205 gb AAC18380.1 ,
3171203 gb AAC18379.1 ,	3171201 gb AAC18378.1 ,	3171199 gb AAC18377.1 ,
3171197 gb AAC18376.1 ,	3171195 gb AAC18375.1 ,	3171193 gb AAC18374.1 ,
3171191 gb AAC18373.1 ,	3171189 gb AAC18372.1 ,	3171187 gb AAC18371.1 ,
3171185 gb AAC18370.1 ,	3171183 gb AAC18369.1 ,	3171181 gb AAC18368.1 ,
3171179 gb AAC18367.1 ,	3171177 gb AAC18366.1 ,	3171175 gb AAC18365.1 ,
3171173 gb AAC18364.1 ,	3171171 gb AAC18363.1 ,	3171169 gb AAC18362.1 ,
3171167 gb AAC18361.1 ,	3169624 gb AAC17904.1 ,	3169622 gb AAC17903.1 ,
3169620 gb AAC17902.1 ,	3169618 gb AAC17901.1 ,	3169616 gb AAC17900.1 ,
3169614 gb AAC17899.1 ,	3169612 gb AAC17898.1 ,	3169610 gb AAC17897.1 ,
3169608 gb AAC17896.1 ,	3169606 gb AAC17895.1 ,	3169604 gb AAC17894.1 ,
3169602 gb AAC17893.1 ,	3169599 gb AAC17892.1 ,	3169597 gb AAC17891.1 ,
3169595 gb AAC17890.1 ,	3169592 gb AAC17889.1 ,	3169590 gb AAC17888.1 ,
3169587 gb AAC17887.1 ,	3169585 gb AAC17886.1 ,	3169583 gb AAC17885.1 ,
3169581 gb AAC17884.1 ,	3169579 gb AAC17883.1 ,	3169577 gb AAC17882.1 ,
2351790 gb AAB71220.1 ,	2351779 gb AAB71215.1 ,	2351236 gb AAB68447.1 ,
1899080 gb AAB68441.1 ,	2194187 gb AAB61125.1 ,	1749847 gb AAB42064.1 ,
1749845 gb AAB42063.1 ,	23986259 gb AAL12208.1 ,	23986243 gb AAL12199.1 ,
23986229 gb AAL12190.1 ,	23986215 gb AAL12181.1 ,	1469864 gb AAB05189.1 ,
1469862 gb AAB05178.1 ,	18844745 dbj BAB85467.1 ,	18844735 dbj BAB85458.1 ,
18643018 gb AAL74053.1 ,	6694608 gb AAF25321.1 ,	6694606 gb AAF25320.1 ,
6694604 gb AAF25319.1 ,	6694602 gb AAF25318.1 ,	6694600 gb AAF25317.1 ,
6694598 gb AAF25316.1 ,	6694596 gb AAF25315.1 ,	6694594 gb AAF25314.1 ,
6694592 gb AAF25313.1 ,	6694590 gb AAF25312.1 ,	6694588 gb AAF25311.1 ,
6694586 gb AAF25310.1 ,	6694584 gb AAF25309.1 ,	6694582 gb AAF25308.1 ,
6694580 gb AAF25307.1 ,	6694578 gb AAF25306.1 ,	6694576 gb AAF25305.1 ,
6694574 gb AAF25304.1 ,	6694572 gb AAF25303.1 ,	6694570 gb AAF25302.1 ,
6694564 gb AAF25299.1 ,	6694560 gb AAF25297.1 ,	6694558 gb AAF25296.1 ,
6694556 gb AAF25295.1 ,	6694554 gb AAF25294.1 ,	6694552 gb AAF25293.1 ,
6694550 gb AAF25292.1 ,	6694548 gb AAF25291.1 ,	6694546 gb AAF25290.1 ,
6694544 gb AAF25289.1 ,	6694542 gb AAF25288.1 ,	6694540 gb AAF25287.1 ,
6694538 gb AAF25286.1 ,	6694536 gb AAF25285.1 ,	6694534 gb AAF25284.1 ,
6694532 gb AAF25283.1 ,	6694530 gb AAF25282.1 ,	6694528 gb AAF25281.1 ,
6694526 gb AAF25280.1 ,	6694524 gb AAF25279.1 truncated,	6694522 gb AAF25278.1 ,
6694520 gb AAF25277.1 ,	6694518 gb AAF25276.1 ,	6694516 gb AAF25275.1 ,
6694514 gb AAF25274.1 ,	6694512 gb AAF25273.1 ,	6694510 gb AAF25272.1 ,

|6694508|gb|AAF25271.1|, |6694506|gb|AAF25270.1|, |6694504|gb|AAF25269.1|,
 |6694502|gb|AAF25268.1|, |6694500|gb|AAF25267.1|, |6694498|gb|AAF25266.1|,
 |6694496|gb|AAF25265.1|, |6694494|gb|AAF25264.1|, |6694492|gb|AAF25263.1|,
 |6694490|gb|AAF25262.1|, |6694488|gb|AAF25261.1|, |6694486|gb|AAF25260.1|,
 |6694484|gb|AAF25259.1|, |6694482|gb|AAF25258.1|truncated,
 |6694480|gb|AAF25257.1|truncated, |6694478|gb|AAF25256.1|truncated,
 |6694476|gb|AAF25255.1|truncated, |6694474|gb|AAF25254.1|truncated,
 |6694472|gb|AAF25253.1|truncated, |6694470|gb|AAF25252.1|truncated,
 |6694468|gb|AAF25251.1|truncated, |6694466|gb|AAF25250.1|truncated,
 |6694464|gb|AAF25249.1|, |6694462|gb|AAF25248.1|, |6694460|gb|AAF25247.1|,
 |6694458|gb|AAF25246.1|, |6694456|gb|AAF25245.1|, |6694454|gb|AAF25244.1|,
 |6694452|gb|AAF25243.1|, |6694450|gb|AAF25242.1|, |6694448|gb|AAF25241.1|,
 |6694446|gb|AAF25240.1|, |6694444|gb|AAF25239.1|, |6694442|gb|AAF25238.1|,
 |6694440|gb|AAF25237.1|truncated, |6694438|gb|AAF25236.1|truncated,
 |6694436|gb|AAF25235.1|, |6694434|gb|AAF25234.1|, |6694432|gb|AAF25233.1|,
 |6694430|gb|AAF25232.1|, |6694428|gb|AAF25231.1|, |6694426|gb|AAF25230.1|,
 |10880736|gb|AAG24369.1|, |16751265|gb|AAL05340.1|, |16751255|gb|AAL05331.1|,
 |16751247|gb|AAL05324.1|, |16751236|gb|AAL05314.1|,
 |15281507|gb|AAK94289.1|AF361879_9, |15281497|gb|AAK94280.1|AF361878_9,
 |15281487|gb|AAK94271.1|AF361877_9, |15281478|gb|AAK94263.1|AF361876_9,
 |15281468|gb|AAK94254.1|AF361875_9, |15281458|gb|AAK94245.1|AF361874_9,
 |15281448|gb|AAK94236.1|AF361873_9, |15281438|gb|AAK94227.1|AF361872_9,
 |15281428|gb|AAK94218.1|AF361871_9, |14530235|gb|AAK65969.1|AF286236_9,
 |3002848|gb|AAD03207.1|, |3002838|gb|AAD03198.1|, |5931499|dbj|BAA84676.1|,
 |5931490|dbj|BAA84668.1|, |13517091|dbj|BAB40429.1|, |3779267|gb|AAD03315.1|,
 |14530270|gb|AAK66000.1|AF316544_9, |14530261|gb|AAK65992.1|AF286239_9,
 |14530253|gb|AAK65985.1|AF286238_9, |14530244|gb|AAK65977.1|AF286237_10,
 |13569336|gb|AAK31070.1|AF286235_9, |13569326|gb|AAK31061.1|AF286234_9,
 |13569316|gb|AAK31052.1|AF286233_9, |13569306|gb|AAK31043.1|AF286232_9,
 |13569296|gb|AAK31034.1|AF286231_9, |13569286|gb|AAK31025.1|AF286230_9,
 |13569276|gb|AAK31016.1|AF286229_9, |13569256|gb|AAK30998.1|AF286227_9,
 |13569246|gb|AAK30989.1|AF286226_9, |13569236|gb|AAK30980.1|AF286225_9,
 |13569226|gb|AAK30971.1|AF286224_9, |13569216|gb|AAK30962.1|AF286223_9,
 |11321029|gb|AAG34020.1|, |11321019|gb|AAG34011.1|, |11321009|gb|AAG34002.1|,
 |11320999|gb|AAG33993.1|, |11095919|gb|AAG30123.1|AF286365_9,
 |11066506|gb|AAG28621.1|AF259955_9, |11066496|gb|AAG28612.1|AF259954_9,
 |3808286|gb|AAC69312.1|, |5305362|gb|AAD41614.1|AF071474_9,
 |5305350|gb|AAD41604.1|AF071473_9, |3808278|gb|AAD13365.1|,
 |3808269|gb|AAC69305.1|, |3808259|gb|AAC69296.1|, |3808249|gb|AAC69287.1|,
 |6651483|gb|AAF22331.1|AF193277_4, |6651474|gb|AAF22322.1|AF193276_4,
 |6643032|gb|AAF20393.1|, |6651460|gb|AAF22312.1|AF193253_6,
 |6090973|gb|AAF03420.1|AF075703_8, |5668962|gb|AAD46106.1|AF076998_8,
 |5668947|gb|AAD46095.1|AF077336_9, |6910976|gb|AAF31327.1|AF146728_11,
 |2944131|gb|AAC05238.1|, |5668931|gb|AAD46083.1|AF076475_9,
 |5668918|gb|AAD46072.1|AF076474_8, |5668888|gb|AAD46050.1|AF075701_8,
 |5305485|gb|AAD41673.1|AF075702_8, |5059058|gb|AAD38897.1|AF119820_9,
 |5059049|gb|AAD38889.1|AF119819_9, |4097723|gb|AAD00166.1|,
 |4097720|gb|AAD00165.1|, |2231611|gb|AAC59358.1|, |2231607|gb|AAC59356.1|,

2231604 gb AAC59354.1 ,	2231602 gb AAC59353.1 ,	2231600 gb AAC59352.1 ,
2231597 gb AAC59350.1 ,	2231595 gb AAC59349.1 ,	328651 gb AAC32231.1 ,
2281661 gb AAB64171.1 ,	14289991 gb AAK59179.1 ,	21633166 gb AAL65476.1 ,
21633164 gb AAL65475.1 ,	21633162 gb AAL65474.1 ,	21633160 gb AAL65473.1 ,
21633158 gb AAL65472.1 ,	21633156 gb AAL65471.1 ,	21633154 gb AAL65470.1 ,
21633152 gb AAL65469.1 ,	21633150 gb AAL65468.1 ,	21633148 gb AAL65467.1 ,
21633146 gb AAL65466.1 ,	21633144 gb AAL65465.1 ,	21633142 gb AAL65464.1 ,
21633140 gb AAL65463.1 ,	21633138 gb AAL65462.1 ,	21633136 gb AAL65461.1 ,
21633134 gb AAL65460.1 ,	21633132 gb AAL65459.1 ,	21633130 gb AAL65458.1 ,
21633128 gb AAL65457.1 ,	21633126 gb AAL65456.1 ,	21633124 gb AAL65455.1 ,
21633122 gb AAL65454.1 ,	21633120 gb AAL65453.1 ,	21633118 gb AAL65452.1 ,
21633116 gb AAL65451.1 ,	21633112 gb AAL65450.1 ,	21633110 gb AAL65580.1 ,
21633108 gb AAL65579.1 ,	21633106 gb AAL65578.1 ,	21633104 gb AAL65577.1 ,
21633102 gb AAL65576.1 ,	21633100 gb AAL65575.1 ,	21633097 gb AAL65574.1 ,
21633095 gb AAL65573.1 ,	21633093 gb AAL65572.1 ,	21633091 gb AAL65571.1 ,
21633089 gb AAL65570.1 ,	21633087 gb AAL65569.1 ,	21633085 gb AAL65568.1 ,
21633083 gb AAL65567.1 ,	21633081 gb AAL65566.1 ,	21633079 gb AAL65565.1 ,
21633077 gb AAL65564.1 ,	21633074 gb AAL65563.1 ,	21633072 gb AAL65562.1 ,
21633070 gb AAL65561.1 ,	21633068 gb AAL65560.1 ,	21633065 gb AAL65559.1 ,
21633060 gb AAL65558.1 ,	21633058 gb AAL65557.1 ,	21633056 gb AAL65556.1 ,
21633054 gb AAL65555.1 ,	21633052 gb AAL65554.1 ,	21633050 gb AAL65553.1 ,
21633048 gb AAL65552.1 ,	21633046 gb AAL65551.1 ,	21633044 gb AAL65550.1 ,
21633042 gb AAL65549.1 ,	21633040 gb AAL65548.1 ,	21633038 gb AAL65547.1 ,
21633036 gb AAL65546.1 ,	21633033 gb AAL65545.1 ,	21633031 gb AAL65544.1 ,
21633029 gb AAL65543.1 ,	21633027 gb AAL65542.1 ,	21633025 gb AAL65541.1 ,
21633023 gb AAL65540.1 ,	21633021 gb AAL65539.1 ,	21633019 gb AAL65538.1 ,
21633017 gb AAL65537.1 ,	21633015 gb AAL65536.1 ,	21633013 gb AAL65535.1 ,
21633011 gb AAL65534.1 ,	21633009 gb AAL65533.1 ,	21633007 gb AAL65532.1 ,
21633005 gb AAL65531.1 ,	21633002 gb AAL65530.1 ,	21633000 gb AAL65529.1 ,
21632998 gb AAL65528.1 ,	21632996 gb AAL65527.1 ,	21632994 gb AAL65526.1 ,
21632992 gb AAL65525.1 ,	21632990 gb AAL65524.1 ,	21632988 gb AAL65523.1 ,
21632986 gb AAL65522.1 ,	21632984 gb AAL65521.1 ,	21632982 gb AAL65520.1 ,
21632980 gb AAL65519.1 ,	21632978 gb AAL65518.1 ,	21632976 gb AAL65517.1 ,
21632973 gb AAL65516.1 ,	21632971 gb AAL65515.1 ,	21632968 gb AAL65514.1 ,
21632966 gb AAL65513.1 ,	21632964 gb AAL65512.1 ,	21632961 gb AAL65511.1 ,
21632959 gb AAL65510.1 ,	21632957 gb AAL65509.1 ,	21632955 gb AAL65508.1 ,
21632953 gb AAL65507.1 ,	21632951 gb AAL65506.1 ,	21632949 gb AAL65505.1 ,
21632947 gb AAL65504.1 ,	21632945 gb AAL65503.1 ,	21632943 gb AAL65502.1 ,
21632941 gb AAL65501.1 ,	21632939 gb AAL65500.1 ,	21632937 gb AAL65499.1 ,
21632935 gb AAL65498.1 ,	21632933 gb AAL65497.1 ,	21632931 gb AAL65496.1 ,
21632929 gb AAL65495.1 ,	21632926 gb AAL65494.1 ,	21632924 gb AAL65493.1 ,
21632922 gb AAL65492.1 ,	21632920 gb AAL65491.1 ,	21632918 gb AAL65490.1 ,
21632916 gb AAL65489.1 ,	21632914 gb AAL65488.1 ,	21632912 gb AAL65487.1 ,
21632910 gb AAL65486.1 ,	21632908 gb AAL65485.1 ,	21632906 gb AAL65484.1 ,
21632904 gb AAL65483.1 ,	21632902 gb AAL65482.1 ,	21632900 gb AAL65481.1 ,
21632898 gb AAL65480.1 ,	21632896 gb AAL65479.1 ,	21632894 gb AAL65478.1 ,
21632892 gb AAL65477.1 ,	21632890 gb AAL65449.1 ,	21632888 gb AAL65448.1 ,
21632886 gb AAL65447.1 ,	21632882 gb AAL65446.1 ,	21632879 gb AAL65445.1 ,

21632877 gb AAL65444.1 ,	21632875 gb AAL65443.1 ,	21632873 gb AAL65442.1 ,
21632871 gb AAL65441.1 ,	21632869 gb AAL65440.1 ,	21632861 gb AAL65439.1 ,
21632858 gb AAL65438.1 ,	21632856 gb AAL65437.1 ,	21632854 gb AAL65436.1 ,
21632852 gb AAL65435.1 ,	21632850 gb AAL65434.1 ,	21632848 gb AAL65433.1 ,
21632846 gb AAL65432.1 ,	21632844 gb AAL65431.1 ,	21632842 gb AAL65430.1 ,
21632840 gb AAL65429.1 ,	21632838 gb AAL65428.1 ,	21632836 gb AAL65427.1 ,
21632834 gb AAL65426.1 ,	21632832 gb AAL65425.1 ,	21632830 gb AAL65424.1 ,
21632827 gb AAL65423.1 ,	21632825 gb AAL65422.1 ,	21632823 gb AAL65421.1 ,
21632821 gb AAL65420.1 ,	21632819 gb AAL65419.1 ,	21632817 gb AAL65418.1 ,
21632815 gb AAL65417.1 ,	21632813 gb AAL65416.1 ,	21632811 gb AAL65415.1 ,
21632809 gb AAL65414.1 ,	21632807 gb AAL65413.1 ,	21632805 gb AAL65412.1 ,
21632803 gb AAL65411.1 ,	21632801 gb AAL65410.1 ,	59805183 gb AAX08137.1 ,
59805181 gb AAX08136.1 ,	59805179 gb AAX08135.1 ,	59805177 gb AAX08134.1 ,
59805175 gb AAX08133.1 ,	59805173 gb AAX08132.1 ,	59805171 gb AAX08131.1 ,
59805169 gb AAX08130.1 ,	59805167 gb AAX08129.1 ,	59805165 gb AAX08128.1 ,
59805163 gb AAX08127.1 ,	59805161 gb AAX08126.1 ,	59805159 gb AAX08125.1 ,
59805157 gb AAX08124.1 ,	1401124 gb AAC54990.1 ,	1401122 gb AAC54989.1 ,
1401120 gb AAC54988.1 ,	1401118 gb AAC54987.1 ,	1401116 gb AAC54986.1 ,
1401114 gb AAC54985.1 ,	1401112 gb AAC54984.1 ,	1401110 gb AAC54983.1 ,
1401108 gb AAC54982.1 ,	1401106 gb AAC54981.1 ,	1401104 gb AAC54980.1 ,
1401102 gb AAC54979.1 ,	1401100 gb AAC54978.1 ,	1401098 gb AAC54977.1 ,
1401096 gb AAC54976.1 ,	1401094 gb AAC54975.1 ,	1401092 gb AAC54974.1 ,
1401090 gb AAC54973.1 ,	1401088 gb AAC54972.1 ,	1401086 gb AAC54971.1 ,
53690223 gb AAU90015.1 ,	53690221 gb AAU90014.1 ,	53690219 gb AAU90013.1 ,
53690217 gb AAU90012.1 ,	53690215 gb AAU90011.1 ,	53690213 gb AAU90010.1 ,
53690211 gb AAU90009.1 ,	53690209 gb AAU90008.1 ,	53690207 gb AAU90007.1 ,
53690205 gb AAU90006.1 ,	53690203 gb AAU90005.1 ,	53690201 gb AAU90004.1 ,
53690199 gb AAU90003.1 ,	53690197 gb AAU90002.1 ,	53690195 gb AAU90001.1 ,
53690193 gb AAU90000.1 ,	53690191 gb AAU89999.1 ,	53690189 gb AAU89998.1 ,
53690187 gb AAU89997.1 ,	53690185 gb AAU89996.1 ,	53690183 gb AAU89995.1 ,
53690180 gb AAU89994.1 ,	53690178 gb AAU89993.1 ,	53690176 gb AAU89992.1 ,
53690174 gb AAU89991.1 ,	53690172 gb AAU89990.1 ,	53690170 gb AAU89989.1 ,
53690168 gb AAU89988.1 ,	53690166 gb AAU89987.1 ,	53690164 gb AAU89986.1 ,
53690162 gb AAU89985.1 ,	53690160 gb AAU89984.1 ,	53690158 gb AAU89983.1 ,
78714208 gb ABB51086.1 ,		18699184 gb AAL78445.1 AF413986_1,
18699182 gb AAL78444.1 AF413985_1,		18699180 gb AAL78443.1 AF413984_1,
18699178 gb AAL78442.1 AF413983_1,		56783229 gb AAW28927.1 ,
56783227 gb AAW28926.1 ,	56783225 gb AAW28925.1 ,	56783223 gb AAW28924.1 ,
56783221 gb AAW28923.1 ,	56783219 gb AAW28922.1 ,	56783217 gb AAW28921.1 ,
56783215 gb AAW28920.1 ,	56783213 gb AAW28919.1 ,	56783211 gb AAW28918.1 ,
56783209 gb AAW28917.1 ,	56783207 gb AAW28916.1 ,	56783205 gb AAW28915.1 ,
56783203 gb AAW28914.1 ,	56783201 gb AAW28913.1 ,	56783199 gb AAW28912.1 ,
56783197 gb AAW28911.1 ,	56783195 gb AAW28910.1 ,	56783193 gb AAW28909.1 ,
56783191 gb AAW28908.1 ,	56783189 gb AAW28907.1 ,	56783187 gb AAW28906.1 ,
56783185 gb AAW28905.1 ,	56783183 gb AAW28904.1 ,	47779138 gb AAT38453.1 ,
47779136 gb AAT38452.1 ,	47779134 gb AAT38451.1 ,	47779132 gb AAT38450.1 ,
47779130 gb AAT38449.1 ,	47779128 gb AAT38448.1 ,	47779126 gb AAT38447.1 ,
47779124 gb AAT38446.1 ,	47779122 gb AAT38445.1 ,	47779120 gb AAT38444.1 ,

47779118 gb AAT38443.1 ,	47779116 gb AAT38442.1 ,	47779114 gb AAT38441.1 ,
47779112 gb AAT38440.1 ,	47779110 gb AAT38439.1 ,	47779108 gb AAT38438.1 ,
47779106 gb AAT38437.1 ,	47779104 gb AAT38436.1 ,	47779102 gb AAT38435.1 ,
47779100 gb AAT38434.1 ,	47779098 gb AAT38433.1 ,	47779096 gb AAT38432.1 ,
47779094 gb AAT38431.1 ,	47779092 gb AAT38430.1 ,	47779090 gb AAT38429.1 ,
47779088 gb AAT38428.1 ,	47779086 gb AAT38427.1 ,	47779084 gb AAT38426.1 ,
47779082 gb AAT38425.1 ,	47779080 gb AAT38424.1 ,	47779078 gb AAT38423.1 ,
47779076 gb AAT38422.1 ,	47779074 gb AAT38421.1 ,	47779072 gb AAT38420.1 ,
47779070 gb AAT38419.1 ,	47779068 gb AAT38418.1 ,	47779066 gb AAT38417.1 ,
47779064 gb AAT38416.1 ,	47779062 gb AAT38415.1 ,	47779060 gb AAT38414.1 ,
47779058 gb AAT38413.1 ,	47779056 gb AAT38412.1 ,	47779054 gb AAT38411.1 ,
22759338 gb AAN05793.1 truncated,	1277021 gb AAC55008.1 ,	1277019 gb AAC55007.1 ,
1277017 gb AAC55006.1 ,	1277015 gb AAC55005.1 ,	1277013 gb AAC55004.1 ,
1277011 gb AAC55003.1 ,	1277009 gb AAC55002.1 ,	1277007 gb AAC55001.1 ,
1277005 gb AAC55000.1 ,	1277003 gb AAC54999.1 ,	1277001 gb AAC54998.1 ,
1276999 gb AAC54997.1 ,	1276997 gb AAC54996.1 ,	1276995 gb AAC54995.1 ,
1276993 gb AAC54994.1 ,	1276991 gb AAC54993.1 ,	1276989 gb AAC54992.1 ,
1276987 gb AAC54991.1 ,	862879 gb AAA87550.1 ,	862877 gb AAA87549.1 ,
862875 gb AAA87548.1 ,	862873 gb AAA87547.1 ,	862871 gb AAA87546.1 ,
862869 gb AAA87545.1 ,	862867 gb AAA87544.1 ,	862865 gb AAA87543.1 ,
862863 gb AAA87542.1 ,	862861 gb AAA87541.1 ,	862859 gb AAA87540.1 ,
862857 gb AAA87539.1 ,	862855 gb AAA87538.1 ,	862853 gb AAA87537.1 ,
862851 gb AAA87536.1 ,	862849 gb AAA87535.1 ,	862847 gb AAA87534.1 ,
862845 gb AAA87533.1 ,	862843 gb AAA87532.1 ,	862841 gb AAA87531.1 ,
862839 gb AAA87530.1 ,	862837 gb AAA87529.1 ,	862835 gb AAA87528.1 ,
862833 gb AAA87527.1 ,	862831 gb AAA87526.1 ,	862829 gb AAA87525.1 ,
862827 gb AAA87524.1 ,	862825 gb AAA87523.1 ,	862823 gb AAA87522.1 ,
862821 gb AAA87521.1 ,	862819 gb AAA87520.1 ,	862817 gb AAA87519.1 ,
862815 gb AAA87518.1 ,	862813 gb AAA87517.1 ,	862811 gb AAA87516.1 ,
862809 gb AAA87515.1 ,	862807 gb AAA87514.1 ,	862805 gb AAA87513.1 ,
862803 gb AAA87512.1 ,	862801 gb AAA87511.1 ,	862799 gb AAA87510.1 ,
862797 gb AAA87509.1 ,	862795 gb AAA87508.1 ,	862793 gb AAA87507.1 ,
862791 gb AAA87506.1 ,	862789 gb AAA87505.1 ,	862787 gb AAA87504.1 ,
862785 gb AAA87503.1 ,	862783 gb AAA87502.1 ,	862781 gb AAA87501.1 ,
862779 gb AAA87500.1 ,	862777 gb AAA87499.1 ,	862775 gb AAA87498.1 ,
862773 gb AAA87497.1 ,	862771 gb AAA87496.1 ,	862769 gb AAA87495.1 ,
862767 gb AAA87494.1 ,	862765 gb AAA87493.1 ,	862763 gb AAA87492.1 ,
862761 gb AAA87491.1 ,	862759 gb AAA87490.1 ,	862757 gb AAA87489.1 ,
862755 gb AAA87488.1 ,	862753 gb AAA87487.1 ,	862751 gb AAA87486.1 ,
862749 gb AAA87485.1 ,	862747 gb AAA87484.1 ,	862745 gb AAA87483.1 ,
862743 gb AAA87482.1 ,	862741 gb AAA87481.1 ,	862739 gb AAA87480.1 ,
862737 gb AAA87479.1 ,	862735 gb AAA87478.1 ,	862733 gb AAA87477.1 ,
862731 gb AAA87476.1 ,	862729 gb AAA87475.1 ,	862727 gb AAA87474.1 ,
862725 gb AAA87473.1 ,	862723 gb AAA87472.1 ,	862721 gb AAA87471.1 ,
862719 gb AAA87470.1 ,	862717 gb AAA87469.1 ,	862715 gb AAA87468.1 ,
862713 gb AAA87467.1 ,	862711 gb AAA87466.1 ,	862709 gb AAA87465.1 ,
862707 gb AAA87464.1 ,	862705 gb AAA87463.1 ,	474897 gb AAA44918.1 ,
328380 gb AAA44981.1 ,	328378 gb AAA44980.1 ,	328376 gb AAA44979.1 ,

328374 gb AAA44978.1 ,	328372 gb AAA44977.1 ,	328370 gb AAA44976.1 ,
328368 gb AAA44975.1 ,	328366 gb AAA44974.1 ,	328364 gb AAA44973.1 ,
328362 gb AAA44972.1 ,	328360 gb AAA44971.1 ,	328358 gb AAA44970.1 ,
328356 gb AAA44969.1 ,	328354 gb AAA44968.1 ,	328352 gb AAA44967.1 ,
328350 gb AAA44966.1 ,	328348 gb AAA44965.1 ,	328346 gb AAA44964.1 ,
328344 gb AAA44963.1 ,	328342 gb AAA44962.1 ,	328340 gb AAA44961.1 ,
328338 gb AAA44960.1 ,	328336 gb AAA44959.1 ,	328334 gb AAA44958.1 ,
328332 gb AAA44957.1 ,	328330 gb AAA44956.1 ,	328328 gb AAA44955.1 ,
328326 gb AAA44954.1 ,	328324 gb AAA44953.1 ,	328322 gb AAA44952.1 ,
328320 gb AAA44951.1 ,	328318 gb AAA44950.1 ,	328316 gb AAA44949.1 ,
328314 gb AAA44948.1 ,	328312 gb AAA44947.1 ,	328310 gb AAA44946.1 ,
328308 gb AAA44945.1 ,	328306 gb AAA44944.1 ,	328304 gb AAA44943.1 ,
328302 gb AAA44942.1 ,	328300 gb AAA44941.1 ,	328298 gb AAA44940.1 ,
328296 gb AAA44939.1 ,	328294 gb AAA44938.1 ,	328292 gb AAA44937.1 ,
328290 gb AAA44936.1 ,	328288 gb AAA44935.1 ,	328286 gb AAA44934.1 ,
328284 gb AAA44933.1 ,	328282 gb AAA44932.1 ,	328280 gb AAA44931.1 ,
328278 gb AAA44930.1 ,	328276 gb AAA44929.1 ,	328274 gb AAA44928.1 ,
328271 gb AAA44927.1 ,	328269 gb AAA44926.1 ,	328267 gb AAA44925.1 ,
328265 gb AAA44924.1 ,	328263 gb AAA44923.1 ,	328261 gb AAA44922.1 ,
328259 gb AAA44921.1 ,	328257 gb AAA44920.1 ,	328255 gb AAA44919.1 ,
328252 gb AAA44917.1 ,	328250 gb AAA44916.1 ,	328246 gb AAA44915.1 ,
328244 gb AAA44914.1 ,	328242 gb AAA44913.1 ,	328238 gb AAA44911.1 ,
328236 gb AAA44910.1 ,	328234 gb AAA44909.1 ,	328232 gb AAA44908.1 ,
328230 gb AAA44907.1 ,	328228 gb AAA44906.1 ,	328226 gb AAA44905.1 ,
328224 gb AAA44904.1 ,	328222 gb AAA44903.1 ,	328220 gb AAA44902.1 ,
328218 gb AAA44901.1 ,	328216 gb AAA44900.1 ,	328214 gb AAA44899.1 ,
328212 gb AAA44898.1 ,	328210 gb AAA44897.1 ,	328208 gb AAA44896.1 ,
328206 gb AAA44895.1 ,	328204 gb AAA44894.1 ,	328200 gb AAA44892.1 ,
328198 gb AAA44891.1 ,	328196 gb AAA44890.1 ,	328194 gb AAA44889.1 ,
328192 gb AAA44888.1 ,	328190 gb AAA44887.1 ,	328185 gb AAA44885.1 ,
328183 gb AAA44884.1 ,	328179 gb AAA44882.1 ,	328177 gb AAA44881.1 ,
328175 gb AAA44880.1 ,	328173 gb AAA44879.1 ,	328171 gb AAA44878.1 ,
328169 gb AAA44877.1 ,	328167 gb AAA44876.1 ,	328165 gb AAA44875.1 ,
82319758 sp Q9QND4 Q9QND4_9HIV1,	82312470 sp Q89842 Q89842_9HIV1,	
82308357 sp Q9YV21 Q9YV21_9HIV1,	82307898 sp Q9WPY3 Q9WPY3_9HIV1,	
82307897 sp Q9WPY2 Q9WPY2_9HIV1,	82307896 sp Q9WPY1 Q9WPY1_9HIV1,	
82307895 sp Q9WPY0 Q9WPY0_9HIV1,	82307894 sp Q9WPX9 Q9WPX9_9HIV1,	
82307893 sp Q9WPX8 Q9WPX8_9HIV1,	82307892 sp Q9WPX7 Q9WPX7_9HIV1,	
82307891 sp Q9WPX6 Q9WPX6_9HIV1,	82307890 sp Q9WPX5 Q9WPX5_9HIV1,	
82307889 sp Q9WPX4 Q9WPX4_9HIV1,	82307888 sp Q9WPX3 Q9WPX3_9HIV1,	
82307887 sp Q9WPX2 Q9WPX2_9HIV1,	82307886 sp Q9WPX1 Q9WPX1_9HIV1,	
82307885 sp Q9WPX0 Q9WPX0_9HIV1,	82307884 sp Q9WPW9 Q9WPW9_9HIV1,	
82307883 sp Q9WPW8 Q9WPW8_9HIV1,	82307882 sp Q9WPW7 Q9WPW7_9HIV1,	
82307881 sp Q9WPW6 Q9WPW6_9HIV1,	82307880 sp Q9WPW5 Q9WPW5_9HIV1,	
82307879 sp Q9WPW4 Q9WPW4_9HIV1,	82307878 sp Q9WPW3 Q9WPW3_9HIV1,	
82307877 sp Q9WPW2 Q9WPW2_9HIV1,	82307876 sp Q9WPW1 Q9WPW1_9HIV1,	
82307875 sp Q9WPW0 Q9WPW0_9HIV1,	82307874 sp Q9WPV9 Q9WPV9_9HIV1,	
82307873 sp Q9WPV8 Q9WPV8_9HIV1,	82307872 sp Q9WPV7 Q9WPV7_9HIV1,	

|82307871|sp|Q9WPV6|Q9WPV6_9HIV1,
 |82307869|sp|Q9WPV4|Q9WPV4_9HIV1,
 |82307867|sp|Q9WPV2|Q9WPV2_9HIV1,
 |82307865|sp|Q9WPV0|Q9WPV0_9HIV1,
 |82307863|sp|Q9WPU8|Q9WPU8_9HIV1,
 |82307861|sp|Q9WPU6|Q9WPU6_9HIV1,
 |82307859|sp|Q9WPU4|Q9WPU4_9HIV1,
 |82307857|sp|Q9WPU2|Q9WPU2_9HIV1,
 |82307855|sp|Q9WPU0|Q9WPU0_9HIV1,
 |82307853|sp|Q9WPT8|Q9WPT8_9HIV1,
 |82307851|sp|Q9WPT6|Q9WPT6_9HIV1,
 |82307849|sp|Q9WPT4|Q9WPT4_9HIV1,
 |82307847|sp|Q9WPT2|Q9WPT2_9HIV1,
 |82307845|sp|Q9WPT0|Q9WPT0_9HIV1,
 |82307843|sp|Q9WPS8|Q9WPS8_9HIV1,
 |82307841|sp|Q9WPS6|Q9WPS6_9HIV1,
 |82306563|sp|Q9QNF1|Q9QNF1_9HIV1,
 |82306561|sp|Q9QNE9|Q9QNE9_9HIV1,
 |82306559|sp|Q9QNE7|Q9QNE7_9HIV1,
 |82306557|sp|Q9QNE5|Q9QNE5_9HIV1,
 |82306555|sp|Q9QNE2|Q9QNE2_9HIV1,
 |82306553|sp|Q9QNE0|Q9QNE0_9HIV1,
 |82306551|sp|Q9QND8|Q9QND8_9HIV1,
 |82306549|sp|Q9QND6|Q9QND6_9HIV1,
 |82306547|sp|Q9QND3|Q9QND3_9HIV1,
 |82306545|sp|Q9QND1|Q9QND1_9HIV1,
 |82306543|sp|Q9QNC9|Q9QNC9_9HIV1,
 |82306539|sp|Q9QN68|Q9QN68_9HIV1,
 |82306537|sp|Q9QN66|Q9QN66_9HIV1,
 |82306535|sp|Q9QN64|Q9QN64_9HIV1,
 |82306533|sp|Q9QN62|Q9QN62_9HIV1,
 |82306531|sp|Q9QN60|Q9QN60_9HIV1,
 |82306529|sp|Q9QN58|Q9QN58_9HIV1,
 |82306527|sp|Q9QN56|Q9QN56_9HIV1,
 |82305567|sp|Q9PX46|Q9PX46_9HIV1,
 |82305560|sp|Q9PX02|Q9PX02_9HIV1,
 |82305558|sp|Q9PWZ8|Q9PWZ8_9HIV1,
 |82297264|sp|Q8J5P1|Q8J5P1_9HIV1,
 |82297262|sp|Q8J5N9|Q8J5N9_9HIV1,
 |82297260|sp|Q8J5N7|Q8J5N7_9HIV1,
 |82297258|sp|Q8J5N5|Q8J5N5_9HIV1,
 |82297256|sp|Q8J5N3|Q8J5N3_9HIV1,
 |82297254|sp|Q8J5N1|Q8J5N1_9HIV1,
 |82297252|sp|Q8J5M9|Q8J5M9_9HIV1,
 |82297250|sp|Q8J5M7|Q8J5M7_9HIV1,
 |82297248|sp|Q8J5M5|Q8J5M5_9HIV1,
 |82297246|sp|Q8J5M3|Q8J5M3_9HIV1,
 |82297244|sp|Q8J5M1|Q8J5M1_9HIV1,

|82307870|sp|Q9WPV5|Q9WPV5_9HIV1,
 |82307868|sp|Q9WPV3|Q9WPV3_9HIV1,
 |82307866|sp|Q9WPV1|Q9WPV1_9HIV1,
 |82307864|sp|Q9WPU9|Q9WPU9_9HIV1,
 |82307862|sp|Q9WPU7|Q9WPU7_9HIV1,
 |82307860|sp|Q9WPU5|Q9WPU5_9HIV1,
 |82307858|sp|Q9WPU3|Q9WPU3_9HIV1,
 |82307856|sp|Q9WPU1|Q9WPU1_9HIV1,
 |82307854|sp|Q9WPT9|Q9WPT9_9HIV1,
 |82307852|sp|Q9WPT7|Q9WPT7_9HIV1,
 |82307850|sp|Q9WPT5|Q9WPT5_9HIV1,
 |82307848|sp|Q9WPT3|Q9WPT3_9HIV1,
 |82307846|sp|Q9WPT1|Q9WPT1_9HIV1,
 |82307844|sp|Q9WPS9|Q9WPS9_9HIV1,
 |82307842|sp|Q9WPS7|Q9WPS7_9HIV1,
 |82307840|sp|Q9WPS5|Q9WPS5_9HIV1,
 |82306562|sp|Q9QNF0|Q9QNF0_9HIV1,
 |82306560|sp|Q9QNE8|Q9QNE8_9HIV1,
 |82306558|sp|Q9QNE6|Q9QNE6_9HIV1,
 |82306556|sp|Q9QNE3|Q9QNE3_9HIV1,
 |82306554|sp|Q9QNE1|Q9QNE1_9HIV1,
 |82306552|sp|Q9QND9|Q9QND9_9HIV1,
 |82306550|sp|Q9QND7|Q9QND7_9HIV1,
 |82306548|sp|Q9QND5|Q9QND5_9HIV1,
 |82306546|sp|Q9QND2|Q9QND2_9HIV1,
 |82306544|sp|Q9QND0|Q9QND0_9HIV1,
 |82306542|sp|Q9QNC8|Q9QNC8_9HIV1,
 |82306538|sp|Q9QN67|Q9QN67_9HIV1,
 |82306536|sp|Q9QN65|Q9QN65_9HIV1,
 |82306534|sp|Q9QN63|Q9QN63_9HIV1,
 |82306532|sp|Q9QN61|Q9QN61_9HIV1,
 |82306530|sp|Q9QN59|Q9QN59_9HIV1,
 |82306528|sp|Q9QN57|Q9QN57_9HIV1,
 |82306526|sp|Q9QN55|Q9QN55_9HIV1,
 |82305565|sp|Q9PX21|Q9PX21_9HIV1,
 |82305559|sp|Q9PX00|Q9PX00_9HIV1,
 |82297265|sp|Q8J5P2|Q8J5P2_9HIV1,
 |82297263|sp|Q8J5P0|Q8J5P0_9HIV1,
 |82297261|sp|Q8J5N8|Q8J5N8_9HIV1,
 |82297259|sp|Q8J5N6|Q8J5N6_9HIV1,
 |82297257|sp|Q8J5N4|Q8J5N4_9HIV1,
 |82297255|sp|Q8J5N2|Q8J5N2_9HIV1,
 |82297253|sp|Q8J5N0|Q8J5N0_9HIV1,
 |82297251|sp|Q8J5M8|Q8J5M8_9HIV1,
 |82297249|sp|Q8J5M6|Q8J5M6_9HIV1,
 |82297247|sp|Q8J5M4|Q8J5M4_9HIV1,
 |82297245|sp|Q8J5M2|Q8J5M2_9HIV1,
 |82297243|sp|Q8J5M0|Q8J5M0_9HIV1,

|82297242|sp|Q8J5L9|Q8J5L9_9HIV1,
|82297240|sp|Q8J5L7|Q8J5L7_9HIV1,
|82297238|sp|Q8J5L5|Q8J5L5_9HIV1,
|82297236|sp|Q8J5L3|Q8J5L3_9HIV1,
|82297234|sp|Q8J5L1|Q8J5L1_9HIV1,
|82297232|sp|Q8J5K9|Q8J5K9_9HIV1,
|82297230|sp|Q8J5K7|Q8J5K7_9HIV1,
|82297228|sp|Q8J5K5|Q8J5K5_9HIV1,
|82297226|sp|Q8J5K3|Q8J5K3_9HIV1,
|82297224|sp|Q8J5K1|Q8J5K1_9HIV1,
|82297222|sp|Q8J5J9|Q8J5J9_9HIV1,
|82297220|sp|Q8J5J7|Q8J5J7_9HIV1,
|82297218|sp|Q8J5J5|Q8J5J5_9HIV1,
|82297216|sp|Q8J5J3|Q8J5J3_9HIV1,
|82297214|sp|Q8J5J1|Q8J5J1_9HIV1,
|82297212|sp|Q8J5I9|Q8J5I9_9HIV1,
|82297210|sp|Q8J5I7|Q8J5I7_9HIV1,
|82297208|sp|Q8J5I5|Q8J5I5_9HIV1,
|82297206|sp|Q8J5I3|Q8J5I3_9HIV1,
|82297204|sp|Q8J5I1|Q8J5I1_9HIV1,
|82297202|sp|Q8J5H9|Q8J5H9_9HIV1,
|82297200|sp|Q8J5H7|Q8J5H7_9HIV1,
|82297198|sp|Q8J5H5|Q8J5H5_9HIV1,
|82297196|sp|Q8J5H3|Q8J5H3_9HIV1,
|82297194|sp|Q8J5H1|Q8J5H1_9HIV1,
|82297192|sp|Q8J5G9|Q8J5G9_9HIV1,
|82297190|sp|Q8J5G7|Q8J5G7_9HIV1,
|82297188|sp|Q8J5G5|Q8J5G5_9HIV1,
|82297186|sp|Q8J5G3|Q8J5G3_9HIV1,
|82297184|sp|Q8J5G1|Q8J5G1_9HIV1,
|82297182|sp|Q8J5F9|Q8J5F9_9HIV1,
|82297180|sp|Q8J5F7|Q8J5F7_9HIV1,
|82297178|sp|Q8J5F5|Q8J5F5_9HIV1,
|82297176|sp|Q8J5F3|Q8J5F3_9HIV1,
|82297174|sp|Q8J5F1|Q8J5F1_9HIV1,
|82297172|sp|Q8J5E9|Q8J5E9_9HIV1,
|82297170|sp|Q8J5E7|Q8J5E7_9HIV1,
|82297168|sp|Q8J5E5|Q8J5E5_9HIV1,
|82297166|sp|Q8J5E3|Q8J5E3_9HIV1,
|82297164|sp|Q8J5E1|Q8J5E1_9HIV1,
|82297162|sp|Q8J5D9|Q8J5D9_9HIV1,
|82297160|sp|Q8J5D7|Q8J5D7_9HIV1,
|82297158|sp|Q8J5D5|Q8J5D5_9HIV1,
|82297156|sp|Q8J5D3|Q8J5D3_9HIV1,
|82297154|sp|Q8J5D1|Q8J5D1_9HIV1,
|82297152|sp|Q8J5C9|Q8J5C9_9HIV1,
|82297150|sp|Q8J5C7|Q8J5C7_9HIV1,
|82297148|sp|Q8J5C5|Q8J5C5_9HIV1,

|82297241|sp|Q8J5L8|Q8J5L8_9HIV1,
|82297239|sp|Q8J5L6|Q8J5L6_9HIV1,
|82297237|sp|Q8J5L4|Q8J5L4_9HIV1,
|82297235|sp|Q8J5L2|Q8J5L2_9HIV1,
|82297233|sp|Q8J5L0|Q8J5L0_9HIV1,
|82297231|sp|Q8J5K8|Q8J5K8_9HIV1,
|82297229|sp|Q8J5K6|Q8J5K6_9HIV1,
|82297227|sp|Q8J5K4|Q8J5K4_9HIV1,
|82297225|sp|Q8J5K2|Q8J5K2_9HIV1,
|82297223|sp|Q8J5K0|Q8J5K0_9HIV1,
|82297221|sp|Q8J5J8|Q8J5J8_9HIV1,
|82297219|sp|Q8J5J6|Q8J5J6_9HIV1,
|82297217|sp|Q8J5J4|Q8J5J4_9HIV1,
|82297215|sp|Q8J5J2|Q8J5J2_9HIV1,
|82297213|sp|Q8J5J0|Q8J5J0_9HIV1,
|82297211|sp|Q8J5I8|Q8J5I8_9HIV1,
|82297209|sp|Q8J5I6|Q8J5I6_9HIV1,
|82297207|sp|Q8J5I4|Q8J5I4_9HIV1,
|82297205|sp|Q8J5I2|Q8J5I2_9HIV1,
|82297203|sp|Q8J5I0|Q8J5I0_9HIV1,
|82297201|sp|Q8J5H8|Q8J5H8_9HIV1,
|82297199|sp|Q8J5H6|Q8J5H6_9HIV1,
|82297197|sp|Q8J5H4|Q8J5H4_9HIV1,
|82297195|sp|Q8J5H2|Q8J5H2_9HIV1,
|82297193|sp|Q8J5H0|Q8J5H0_9HIV1,
|82297191|sp|Q8J5G8|Q8J5G8_9HIV1,
|82297189|sp|Q8J5G6|Q8J5G6_9HIV1,
|82297187|sp|Q8J5G4|Q8J5G4_9HIV1,
|82297185|sp|Q8J5G2|Q8J5G2_9HIV1,
|82297183|sp|Q8J5G0|Q8J5G0_9HIV1,
|82297181|sp|Q8J5F8|Q8J5F8_9HIV1,
|82297179|sp|Q8J5F6|Q8J5F6_9HIV1,
|82297177|sp|Q8J5F4|Q8J5F4_9HIV1,
|82297175|sp|Q8J5F2|Q8J5F2_9HIV1,
|82297173|sp|Q8J5F0|Q8J5F0_9HIV1,
|82297171|sp|Q8J5E8|Q8J5E8_9HIV1,
|82297169|sp|Q8J5E6|Q8J5E6_9HIV1,
|82297167|sp|Q8J5E4|Q8J5E4_9HIV1,
|82297165|sp|Q8J5E2|Q8J5E2_9HIV1,
|82297163|sp|Q8J5E0|Q8J5E0_9HIV1,
|82297161|sp|Q8J5D8|Q8J5D8_9HIV1,
|82297159|sp|Q8J5D6|Q8J5D6_9HIV1,
|82297157|sp|Q8J5D4|Q8J5D4_9HIV1,
|82297155|sp|Q8J5D2|Q8J5D2_9HIV1,
|82297153|sp|Q8J5D0|Q8J5D0_9HIV1,
|82297151|sp|Q8J5C8|Q8J5C8_9HIV1,
|82297149|sp|Q8J5C6|Q8J5C6_9HIV1,
|82297147|sp|Q8J5C4|Q8J5C4_9HIV1,

|82297146|sp|Q8J5C3|Q8J5C3_9HIV1,
 |82297144|sp|Q8J5C1|Q8J5C1_9HIV1,
 |82297142|sp|Q8J5B9|Q8J5B9_9HIV1,
 |82297140|sp|Q8J5B7|Q8J5B7_9HIV1,
 |82297138|sp|Q8J5B5|Q8J5B5_9HIV1,
 |82297136|sp|Q8J5B3|Q8J5B3_9HIV1,
 |82297134|sp|Q8J5B1|Q8J5B1_9HIV1,
 |82297132|sp|Q8J5A9|Q8J5A9_9HIV1,
 |82297130|sp|Q8J5A7|Q8J5A7_9HIV1,
 |82297128|sp|Q8J5A5|Q8J5A5_9HIV1,
 |82297126|sp|Q8J5A3|Q8J5A3_9HIV1,
 |82297124|sp|Q8J5A1|Q8J5A1_9HIV1,
 |82297122|sp|Q8J599|Q8J599_9HIV1,
 |82297120|sp|Q8J597|Q8J597_9HIV1,
 |82297118|sp|Q8J595|Q8J595_9HIV1,
 |82297116|sp|Q8J593|Q8J593_9HIV1,
 |82297114|sp|Q8J591|Q8J591_9HIV1,
 |82297112|sp|Q8J589|Q8J589_9HIV1,
 |82297110|sp|Q8J587|Q8J587_9HIV1,
 |82297108|sp|Q8J585|Q8J585_9HIV1,
 |82296833|sp|Q8J318|Q8J318_9HIV1,
 |82296831|sp|Q8J314|Q8J314_9HIV1,
 |82295871|sp|Q8AIJ8|Q8AIJ8_9HIV1truncated,
 |82295353|sp|Q89888|Q89888_9HIV1,
 |82295349|sp|Q89851|Q89851_9HIV1,
 |82295346|sp|Q89821|Q89821_9HIV1,
 |82295343|sp|Q89758|Q89758_9HIV1,
 |82295340|sp|Q89706|Q89706_9HIV1,
 |82295338|sp|Q89672|Q89672_9HIV1,
 |82295335|sp|Q89646|Q89646_9HIV1,
 |82295333|sp|Q89629|Q89629_9HIV1,
 |82295326|sp|Q89587|Q89587_9HIV1,
 |82295324|sp|Q89575|Q89575_9HIV1,
 |82295318|sp|Q89515|Q89515_9HIV1,
 |82295314|sp|Q89463|Q89463_9HIV1,
 |82295312|sp|Q89436|Q89436_9HIV1,
 |82291329|sp|Q79785|Q79785_9HIV1,
 |82291327|sp|Q79783|Q79783_9HIV1,
 |82291325|sp|Q79781|Q79781_9HIV1,
 |82291323|sp|Q79779|Q79779_9HIV1,
 |82291321|sp|Q79777|Q79777_9HIV1,
 |82291319|sp|Q79775|Q79775_9HIV1,
 |82291317|sp|Q79773|Q79773_9HIV1,
 |82291315|sp|Q79771|Q79771_9HIV1,
 |82291313|sp|Q79769|Q79769_9HIV1,
 |82291311|sp|Q79767|Q79767_9HIV1,
 |82291309|sp|Q79765|Q79765_9HIV1,
 |82291307|sp|Q79763|Q79763_9HIV1,

|82297145|sp|Q8J5C2|Q8J5C2_9HIV1,
 |82297143|sp|Q8J5C0|Q8J5C0_9HIV1,
 |82297141|sp|Q8J5B8|Q8J5B8_9HIV1,
 |82297139|sp|Q8J5B6|Q8J5B6_9HIV1,
 |82297137|sp|Q8J5B4|Q8J5B4_9HIV1,
 |82297135|sp|Q8J5B2|Q8J5B2_9HIV1,
 |82297133|sp|Q8J5B0|Q8J5B0_9HIV1,
 |82297131|sp|Q8J5A8|Q8J5A8_9HIV1,
 |82297129|sp|Q8J5A6|Q8J5A6_9HIV1,
 |82297127|sp|Q8J5A4|Q8J5A4_9HIV1,
 |82297125|sp|Q8J5A2|Q8J5A2_9HIV1,
 |82297123|sp|Q8J5A0|Q8J5A0_9HIV1,
 |82297121|sp|Q8J598|Q8J598_9HIV1,
 |82297119|sp|Q8J596|Q8J596_9HIV1,
 |82297117|sp|Q8J594|Q8J594_9HIV1,
 |82297115|sp|Q8J592|Q8J592_9HIV1,
 |82297113|sp|Q8J590|Q8J590_9HIV1,
 |82297111|sp|Q8J588|Q8J588_9HIV1,
 |82297109|sp|Q8J586|Q8J586_9HIV1,
 |82297107|sp|Q8J584|Q8J584_9HIV1,
 |82296832|sp|Q8J315|Q8J315_9HIV1,
 |82296830|sp|Q8J313|Q8J313_9HIV1,
 |82295354|sp|Q89889|Q89889_9HIV1,
 |82295350|sp|Q89866|Q89866_9HIV1,
 |82295348|sp|Q89844|Q89844_9HIV1,
 |82295345|sp|Q89778|Q89778_9HIV1,
 |82295341|sp|Q89734|Q89734_9HIV1,
 |82295339|sp|Q89688|Q89688_9HIV1,
 |82295337|sp|Q89668|Q89668_9HIV1,
 |82295334|sp|Q89630|Q89630_9HIV1,
 |82295332|sp|Q89623|Q89623_9HIV1,
 |82295325|sp|Q89586|Q89586_9HIV1,
 |82295320|sp|Q89537|Q89537_9HIV1,
 |82295317|sp|Q89511|Q89511_9HIV1,
 |82295313|sp|Q89438|Q89438_9HIV1,
 |82295311|sp|Q89430|Q89430_9HIV1,
 |82291328|sp|Q79784|Q79784_9HIV1,
 |82291326|sp|Q79782|Q79782_9HIV1,
 |82291324|sp|Q79780|Q79780_9HIV1,
 |82291322|sp|Q79778|Q79778_9HIV1,
 |82291320|sp|Q79776|Q79776_9HIV1,
 |82291318|sp|Q79774|Q79774_9HIV1,
 |82291316|sp|Q79772|Q79772_9HIV1,
 |82291314|sp|Q79770|Q79770_9HIV1,
 |82291312|sp|Q79768|Q79768_9HIV1,
 |82291310|sp|Q79766|Q79766_9HIV1,
 |82291308|sp|Q79764|Q79764_9HIV1,
 |82291306|sp|Q79762|Q79762_9HIV1,

|82291305|sp|Q79761|Q79761_9HIV1,
|82291303|sp|Q79759|Q79759_9HIV1,
|82291301|sp|Q79757|Q79757_9HIV1,
|82291299|sp|Q79755|Q79755_9HIV1,
|82291297|sp|Q79753|Q79753_9HIV1,
|82291295|sp|Q79751|Q79751_9HIV1,
|82291293|sp|Q79749|Q79749_9HIV1,
|82291291|sp|Q79747|Q79747_9HIV1,
|82291289|sp|Q79745|Q79745_9HIV1,
|82291287|sp|Q79743|Q79743_9HIV1,
|82291285|sp|Q79741|Q79741_9HIV1,
|82291283|sp|Q79739|Q79739_9HIV1,
|82291281|sp|Q79737|Q79737_9HIV1,
|82291279|sp|Q79735|Q79735_9HIV1,
|82291277|sp|Q79733|Q79733_9HIV1,
|82291275|sp|Q79731|Q79731_9HIV1,
|82291273|sp|Q79727|Q79727_9HIV1,
|82291271|sp|Q79725|Q79725_9HIV1,
|82291269|sp|Q79722|Q79722_9HIV1,
|82291267|sp|Q79720|Q79720_9HIV1,
|82291265|sp|Q79718|Q79718_9HIV1,
|82291263|sp|Q79716|Q79716_9HIV1,
|82291261|sp|Q79714|Q79714_9HIV1,
|82291259|sp|Q79712|Q79712_9HIV1,
|82291257|sp|Q79710|Q79710_9HIV1,
|82291255|sp|Q79708|Q79708_9HIV1,
|82291253|sp|Q79706|Q79706_9HIV1,
|82291251|sp|Q79704|Q79704_9HIV1,
|82291249|sp|Q79702|Q79702_9HIV1,
|82291246|sp|Q79699|Q79699_9HIV1,
|82291244|sp|Q79697|Q79697_9HIV1,
|82291242|sp|Q79695|Q79695_9HIV1,
|82291240|sp|Q79693|Q79693_9HIV1,
|82291238|sp|Q79691|Q79691_9HIV1,
|82291236|sp|Q79689|Q79689_9HIV1,
|82291234|sp|Q79687|Q79687_9HIV1,
|82291231|sp|Q79684|Q79684_9HIV1,
|82291228|sp|Q79681|Q79681_9HIV1,
|82291226|sp|Q79678|Q79678_9HIV1,
|82291224|sp|Q79676|Q79676_9HIV1,
|82291222|sp|Q79674|Q79674_9HIV1,
|82289471|sp|Q74688|Q74688_9HIV1,
|82289469|sp|Q74686|Q74686_9HIV1,
|82289467|sp|Q74684|Q74684_9HIV1,
|82289465|sp|Q74682|Q74682_9HIV1,
|82289463|sp|Q74680|Q74680_9HIV1,
|82289461|sp|Q74678|Q74678_9HIV1,
|82289459|sp|Q74676|Q74676_9HIV1,

|82291304|sp|Q79760|Q79760_9HIV1,
|82291302|sp|Q79758|Q79758_9HIV1,
|82291300|sp|Q79756|Q79756_9HIV1,
|82291298|sp|Q79754|Q79754_9HIV1,
|82291296|sp|Q79752|Q79752_9HIV1,
|82291294|sp|Q79750|Q79750_9HIV1,
|82291292|sp|Q79748|Q79748_9HIV1,
|82291290|sp|Q79746|Q79746_9HIV1,
|82291288|sp|Q79744|Q79744_9HIV1,
|82291286|sp|Q79742|Q79742_9HIV1,
|82291284|sp|Q79740|Q79740_9HIV1,
|82291282|sp|Q79738|Q79738_9HIV1,
|82291280|sp|Q79736|Q79736_9HIV1,
|82291278|sp|Q79734|Q79734_9HIV1,
|82291276|sp|Q79732|Q79732_9HIV1,
|82291274|sp|Q79730|Q79730_9HIV1,
|82291272|sp|Q79726|Q79726_9HIV1,
|82291270|sp|Q79724|Q79724_9HIV1,
|82291268|sp|Q79721|Q79721_9HIV1,
|82291266|sp|Q79719|Q79719_9HIV1,
|82291264|sp|Q79717|Q79717_9HIV1,
|82291262|sp|Q79715|Q79715_9HIV1,
|82291260|sp|Q79713|Q79713_9HIV1,
|82291258|sp|Q79711|Q79711_9HIV1,
|82291256|sp|Q79709|Q79709_9HIV1,
|82291254|sp|Q79707|Q79707_9HIV1,
|82291252|sp|Q79705|Q79705_9HIV1,
|82291250|sp|Q79703|Q79703_9HIV1,
|82291248|sp|Q79701|Q79701_9HIV1,
|82291245|sp|Q79698|Q79698_9HIV1,
|82291243|sp|Q79696|Q79696_9HIV1,
|82291241|sp|Q79694|Q79694_9HIV1,
|82291239|sp|Q79692|Q79692_9HIV1,
|82291237|sp|Q79690|Q79690_9HIV1,
|82291235|sp|Q79688|Q79688_9HIV1,
|82291232|sp|Q79685|Q79685_9HIV1,
|82291230|sp|Q79683|Q79683_9HIV1,
|82291227|sp|Q79680|Q79680_9HIV1,
|82291225|sp|Q79677|Q79677_9HIV1,
|82291223|sp|Q79675|Q79675_9HIV1,
|82291221|sp|Q79673|Q79673_9HIV1,
|82289470|sp|Q74687|Q74687_9HIV1,
|82289468|sp|Q74685|Q74685_9HIV1,
|82289466|sp|Q74683|Q74683_9HIV1,
|82289464|sp|Q74681|Q74681_9HIV1,
|82289462|sp|Q74679|Q74679_9HIV1,
|82289460|sp|Q74677|Q74677_9HIV1,
|82289458|sp|Q74675|Q74675_9HIV1,

|82288766|sp|Q72481|Q72481_9HIV1,
|82288764|sp|Q72479|Q72479_9HIV1,
|82288762|sp|Q72477|Q72477_9HIV1,
|82288760|sp|Q72475|Q72475_9HIV1,
|82288758|sp|Q72473|Q72473_9HIV1,
|82288756|sp|Q72471|Q72471_9HIV1,
|82288754|sp|Q72469|Q72469_9HIV1,
|82288752|sp|Q72467|Q72467_9HIV1,
|82288750|sp|Q72465|Q72465_9HIV1,
|82288748|sp|Q72463|Q72463_9HIV1,
|82288746|sp|Q72461|Q72461_9HIV1,
|82288744|sp|Q72459|Q72459_9HIV1,
|82288742|sp|Q72457|Q72457_9HIV1,
|82288740|sp|Q72455|Q72455_9HIV1,
|82288738|sp|Q72453|Q72453_9HIV1,
|82288736|sp|Q72451|Q72451_9HIV1,
|82288734|sp|Q72449|Q72449_9HIV1,
|82288732|sp|Q72447|Q72447_9HIV1,
|82288730|sp|Q72445|Q72445_9HIV1,
|82288728|sp|Q72443|Q72443_9HIV1,
|82288726|sp|Q72441|Q72441_9HIV1,
|82288724|sp|Q72439|Q72439_9HIV1,
|82288722|sp|Q72437|Q72437_9HIV1,
|82288720|sp|Q72435|Q72435_9HIV1,
|82288718|sp|Q72432|Q72432_9HIV1,
|82288716|sp|Q72430|Q72430_9HIV1,
|82288714|sp|Q72427|Q72427_9HIV1,
|82288712|sp|Q72425|Q72425_9HIV1,
|82288710|sp|Q72423|Q72423_9HIV1,
|82288708|sp|Q72421|Q72421_9HIV1,
|82288706|sp|Q72419|Q72419_9HIV1,
|82288494|sp|Q71184|Q71184_9HIV1,
|82288492|sp|Q71182|Q71182_9HIV1,
|82288490|sp|Q71180|Q71180_9HIV1,
|82288488|sp|Q71178|Q71178_9HIV1,
|82288486|sp|Q71176|Q71176_9HIV1,
|82288484|sp|Q71174|Q71174_9HIV1,
|82288482|sp|Q71172|Q71172_9HIV1,
|82288480|sp|Q71170|Q71170_9HIV1,
|82288478|sp|Q71168|Q71168_9HIV1,
|82288476|sp|Q71166|Q71166_9HIV1,
|82288474|sp|Q71164|Q71164_9HIV1,
|82288472|sp|Q71162|Q71162_9HIV1,
|82288470|sp|Q71160|Q71160_9HIV1,
|82283482|sp|Q5Y3C4|Q5Y3C4_9HIV1,
|82283480|sp|Q5Y3C2|Q5Y3C2_9HIV1,
|82283478|sp|Q5Y3C0|Q5Y3C0_9HIV1,
|82283476|sp|Q5Y3B8|Q5Y3B8_9HIV1,

|82288765|sp|Q72480|Q72480_9HIV1,
|82288763|sp|Q72478|Q72478_9HIV1,
|82288761|sp|Q72476|Q72476_9HIV1,
|82288759|sp|Q72474|Q72474_9HIV1,
|82288757|sp|Q72472|Q72472_9HIV1,
|82288755|sp|Q72470|Q72470_9HIV1,
|82288753|sp|Q72468|Q72468_9HIV1,
|82288751|sp|Q72466|Q72466_9HIV1,
|82288749|sp|Q72464|Q72464_9HIV1,
|82288747|sp|Q72462|Q72462_9HIV1,
|82288745|sp|Q72460|Q72460_9HIV1,
|82288743|sp|Q72458|Q72458_9HIV1,
|82288741|sp|Q72456|Q72456_9HIV1,
|82288739|sp|Q72454|Q72454_9HIV1,
|82288737|sp|Q72452|Q72452_9HIV1,
|82288735|sp|Q72450|Q72450_9HIV1,
|82288733|sp|Q72448|Q72448_9HIV1,
|82288731|sp|Q72446|Q72446_9HIV1,
|82288729|sp|Q72444|Q72444_9HIV1,
|82288727|sp|Q72442|Q72442_9HIV1,
|82288725|sp|Q72440|Q72440_9HIV1,
|82288723|sp|Q72438|Q72438_9HIV1,
|82288721|sp|Q72436|Q72436_9HIV1,
|82288719|sp|Q72433|Q72433_9HIV1,
|82288717|sp|Q72431|Q72431_9HIV1,
|82288715|sp|Q72429|Q72429_9HIV1,
|82288713|sp|Q72426|Q72426_9HIV1,
|82288711|sp|Q72424|Q72424_9HIV1,
|82288709|sp|Q72422|Q72422_9HIV1,
|82288707|sp|Q72420|Q72420_9HIV1,
|82288495|sp|Q71185|Q71185_9HIV1,
|82288493|sp|Q71183|Q71183_9HIV1,
|82288491|sp|Q71181|Q71181_9HIV1,
|82288489|sp|Q71179|Q71179_9HIV1,
|82288487|sp|Q71177|Q71177_9HIV1,
|82288485|sp|Q71175|Q71175_9HIV1,
|82288483|sp|Q71173|Q71173_9HIV1,
|82288481|sp|Q71171|Q71171_9HIV1,
|82288479|sp|Q71169|Q71169_9HIV1,
|82288477|sp|Q71167|Q71167_9HIV1,
|82288475|sp|Q71165|Q71165_9HIV1,
|82288473|sp|Q71163|Q71163_9HIV1,
|82288471|sp|Q71161|Q71161_9HIV1,
|82283483|sp|Q5Y3C5|Q5Y3C5_9HIV1,
|82283481|sp|Q5Y3C3|Q5Y3C3_9HIV1,
|82283479|sp|Q5Y3C1|Q5Y3C1_9HIV1,
|82283477|sp|Q5Y3B9|Q5Y3B9_9HIV1,
|82283475|sp|Q5Y3B7|Q5Y3B7_9HIV1,

|82283474|sp|Q5Y3B6|Q5Y3B6_9HIV1,
|82283472|sp|Q5Y3B4|Q5Y3B4_9HIV1,
|82283470|sp|Q5Y3B2|Q5Y3B2_9HIV1,
|82283468|sp|Q5Y3B0|Q5Y3B0_9HIV1,
|82283466|sp|Q5Y3A8|Q5Y3A8_9HIV1,
|82283464|sp|Q5Y3A6|Q5Y3A6_9HIV1,
|82283462|sp|Q5Y3A4|Q5Y3A4_9HIV1,
|82283460|sp|Q5Y3A2|Q5Y3A2_9HIV1,
|82283458|sp|Q5Y3A0|Q5Y3A0_9HIV1,
|82283456|sp|Q5Y397|Q5Y397_9HIV1,
|82283454|sp|Q5Y395|Q5Y395_9HIV1,
|82283452|sp|Q5Y393|Q5Y393_9HIV1,
|82281075|sp|O92654|O92654_9HIV1,
|82280705|sp|O91043|O91043_9HIV1,
|82280703|sp|O91041|O91041_9HIV1,
|82280701|sp|O91039|O91039_9HIV1,
|82280699|sp|O91037|O91037_9HIV1,
|82280697|sp|O91035|O91035_9HIV1,
|82280695|sp|O91033|O91033_9HIV1,
|82280693|sp|O91031|O91031_9HIV1,
|82280691|sp|O91029|O91029_9HIV1,
|82280689|sp|O91027|O91027_9HIV1,
|82280687|sp|O91025|O91025_9HIV1,
|82280685|sp|O91023|O91023_9HIV1,
|82280683|sp|O91021|O91021_9HIV1,
|82280681|sp|O91019|O91019_9HIV1,
|82280679|sp|O91017|O91017_9HIV1,
|82280677|sp|O91015|O91015_9HIV1,
|82280675|sp|O91013|O91013_9HIV1,
|82280673|sp|O91011|O91011_9HIV1,
|82280671|sp|O91009|O91009_9HIV1,
|82280669|sp|O91007|O91007_9HIV1,
|82280667|sp|O91005|O91005_9HIV1,
|82280665|sp|O91003|O91003_9HIV1,
|82278699|sp|O12404|O12404_9HIV1,
|82278098|sp|O10843|O10843_9HIV1,
|82278096|sp|O10841|O10841_9HIV1,
|82278094|sp|O10839|O10839_9HIV1,
|82278092|sp|O10837|O10837_9HIV1,
|82278090|sp|O10835|O10835_9HIV1,
|82278088|sp|O10833|O10833_9HIV1,
|82278086|sp|O10831|O10831_9HIV1,
|82278084|sp|O10829|O10829_9HIV1,
|82278082|sp|O10827|O10827_9HIV1,
|82278080|sp|O10825|O10825_9HIV1,
|82278078|sp|O10823|O10823_9HIV1,
|82278076|sp|O10820|O10820_9HIV1,
|82278074|sp|O10818|O10818_9HIV1,

|82283473|sp|Q5Y3B5|Q5Y3B5_9HIV1,
|82283471|sp|Q5Y3B3|Q5Y3B3_9HIV1,
|82283469|sp|Q5Y3B1|Q5Y3B1_9HIV1,
|82283467|sp|Q5Y3A9|Q5Y3A9_9HIV1,
|82283465|sp|Q5Y3A7|Q5Y3A7_9HIV1,
|82283463|sp|Q5Y3A5|Q5Y3A5_9HIV1,
|82283461|sp|Q5Y3A3|Q5Y3A3_9HIV1,
|82283459|sp|Q5Y3A1|Q5Y3A1_9HIV1,
|82283457|sp|Q5Y398|Q5Y398_9HIV1,
|82283455|sp|Q5Y396|Q5Y396_9HIV1,
|82283453|sp|Q5Y394|Q5Y394_9HIV1,
|82281567|sp|P89698|P89698_9HIV1,
|82280743|sp|O91087|O91087_9HIV1,
|82280704|sp|O91042|O91042_9HIV1,
|82280702|sp|O91040|O91040_9HIV1,
|82280700|sp|O91038|O91038_9HIV1,
|82280698|sp|O91036|O91036_9HIV1,
|82280696|sp|O91034|O91034_9HIV1,
|82280694|sp|O91032|O91032_9HIV1,
|82280692|sp|O91030|O91030_9HIV1,
|82280690|sp|O91028|O91028_9HIV1,
|82280688|sp|O91026|O91026_9HIV1,
|82280686|sp|O91024|O91024_9HIV1,
|82280684|sp|O91022|O91022_9HIV1,
|82280682|sp|O91020|O91020_9HIV1,
|82280680|sp|O91018|O91018_9HIV1,
|82280678|sp|O91016|O91016_9HIV1,
|82280676|sp|O91014|O91014_9HIV1,
|82280674|sp|O91012|O91012_9HIV1,
|82280672|sp|O91010|O91010_9HIV1,
|82280670|sp|O91008|O91008_9HIV1,
|82280668|sp|O91006|O91006_9HIV1,
|82280666|sp|O91004|O91004_9HIV1,
|82280509|sp|O90156|O90156_9HIV1,
|82278698|sp|O12390|O12390_9HIV1,
|82278097|sp|O10842|O10842_9HIV1,
|82278095|sp|O10840|O10840_9HIV1,
|82278093|sp|O10838|O10838_9HIV1,
|82278091|sp|O10836|O10836_9HIV1,
|82278089|sp|O10834|O10834_9HIV1,
|82278087|sp|O10832|O10832_9HIV1,
|82278085|sp|O10830|O10830_9HIV1,
|82278083|sp|O10828|O10828_9HIV1,
|82278081|sp|O10826|O10826_9HIV1,
|82278079|sp|O10824|O10824_9HIV1,
|82278077|sp|O10822|O10822_9HIV1,
|82278075|sp|O10819|O10819_9HIV1,
|82278073|sp|O10817|O10817_9HIV1,

82278072 sp O10816 O10816_9HIV1,	82278071 sp O10815 O10815_9HIV1,
82278070 sp O10814 O10814_9HIV1,	82278069 sp O10813 O10813_9HIV1,
82278068 sp O10812 O10812_9HIV1,	82278067 sp O10811 O10811_9HIV1,
82278066 sp O10810 O10810_9HIV1,	82278065 sp O10809 O10809_9HIV1,
82278064 sp O10808 O10808_9HIV1,	82278063 sp O10807 O10807_9HIV1,
82278062 sp O10806 O10806_9HIV1,	82278061 sp O10805 O10805_9HIV1,
66864707 gb AAV57433.1 ,	66864699 gb AAV57426.1 ,
66864689 gb AAV57417.1 ,	
25167078 gb AAN73842.1 AF484522_8,	25167068 gb AAN73833.1 AF484521_8,
25166878 gb AAN73662.1 AF484502_8truncated,	
58200357 gb AAW66381.1 ,	58200355 gb AAW66380.1 ,
58200353 gb AAW66379.1 ,	
58200351 gb AAW66378.1 ,	58200349 gb AAW66377.1 ,
58200347 gb AAW66376.1 ,	
58200345 gb AAW66375.1 ,	58200343 gb AAW66374.1 ,
58200341 gb AAW66373.1 ,	
58200339 gb AAW66372.1 ,	58200337 gb AAW66371.1 ,
58200335 gb AAW66370.1 ,	
58200333 gb AAW66369.1 ,	58200331 gb AAW66368.1 ,
58200329 gb AAW66367.1 ,	
58200327 gb AAW66366.1 ,	58200325 gb AAW66365.1 ,
58200323 gb AAW66364.1 ,	
58200321 gb AAW66363.1 ,	58200319 gb AAW66362.1 ,
58200317 gb AAW66361.1 ,	
58200315 gb AAW66360.1 ,	58200313 gb AAW66359.1 ,
58200311 gb AAW66358.1 ,	
58200309 gb AAW66357.1 ,	38326776 gb AAR17518.1 ,
32724983 gb AAM93785.2 ,	
32724981 gb AAM93782.2 ,	31087572 gb AAM93788.1 ,
31087570 gb AAM93787.1 ,	
31087567 gb AAM93786.1 ,	31087563 gb AAM93784.1 ,
31087561 gb AAM93783.1 ,	
31087557 gb AAM93781.1 ,	31087555 gb AAM93780.1 ,
31087549 gb AAM93779.1 ,	
31087547 gb AAM93778.1 ,	31087545 gb AAM93777.1 ,
31087543 gb AAM93776.1 ,	
31087541 gb AAM93775.1 ,	31087539 gb AAM93774.1 ,
56417612 gb AAV90750.1 ,	
56193099 gb AAV84162.1 ,	56193083 gb AAV84153.1 ,
56193065 gb AAV84144.1 ,	
56193048 gb AAV84135.1 ,	56193012 gb AAV84117.1 ,
54124767 gb AAV30107.1 ,	
54124757 gb AAV30098.1 ,	51599147 gb AAU08231.1 ,
51599137 gb AAU08222.1 ,	
50404193 gb AAT76863.1 ,	47118268 gb AAT11254.1 truncated,
47118258 gb AAT11245.1 truncated,	47118248 gb AAT11227.1 truncated,
47118238 gb AAT11236.1 ,	47118228 gb AAT11218.1 truncated,
47118218 gb AAT11209.1 truncated,	
46849854 gb AAS97976.2 ,	
46451810 gb AAS98022.1 ,	46451808 gb AAS98021.1 ,
46451806 gb AAS98020.1 ,	
46451803 gb AAS98019.1 ,	46451801 gb AAS98018.1 ,
46451799 gb AAS98017.1 ,	
46451796 gb AAS98016.1 ,	46451794 gb AAS98015.1 ,
46451792 gb AAS98014.1 ,	
46451790 gb AAS98013.1 ,	46451788 gb AAS98012.1 ,
46451786 gb AAS98011.1 ,	
46451784 gb AAS98010.1 ,	46451782 gb AAS98009.1 ,
46451780 gb AAS98008.1 ,	
46451778 gb AAS98007.1 ,	46451776 gb AAS98006.1 ,
46451774 gb AAS98005.1 ,	
46451772 gb AAS98004.1 ,	46451770 gb AAS98003.1 ,
46451768 gb AAS98002.1 ,	
46451766 gb AAS98001.1 ,	46451764 gb AAS98000.1 ,
46451762 gb AAS97999.1 ,	
46451760 gb AAS97998.1 ,	46451758 gb AAS97997.1 ,
46451756 gb AAS97996.1 ,	
46451754 gb AAS97995.1 ,	46451752 gb AAS97994.1 ,
46451750 gb AAS97993.1 ,	
46451748 gb AAS97992.1 ,	46451745 gb AAS97991.1 ,
46451743 gb AAS97990.1 ,	
46451741 gb AAS97989.1 ,	46451739 gb AAS97988.1 ,
46451737 gb AAS97987.1 ,	
46451735 gb AAS97986.1 ,	46451733 gb AAS97985.1 ,
46451731 gb AAS97984.1 ,	
46451729 gb AAS97983.1 ,	46451726 gb AAS97982.1 ,
46451723 gb AAS97981.1 ,	
46451720 gb AAS97980.1 ,	46451718 gb AAS97979.1 ,
46451716 gb AAS97978.1 ,	
46451714 gb AAS97977.1 ,	46451710 gb AAS97975.1 ,
46451708 gb AAS97974.1 ,	
37956596 gb AAO92596.1 ,	33641499 gb AAQ24311.1 ,
33641497 gb AAQ24310.1 ,	
33641493 gb AAQ24309.1 ,	33641491 gb AAQ24308.1 ,
33641489 gb AAQ24307.1 ,	

33641487 gb AAQ24306.1 ,	33641485 gb AAQ24305.1 ,	33641483 gb AAQ24304.1 ,
33641481 gb AAQ24303.1 ,	33641479 gb AAQ24302.1 ,	33641477 gb AAQ24301.1 ,
33641475 gb AAQ24300.1 ,	33641473 gb AAQ24299.1 ,	33641471 gb AAQ24298.1 ,
33641467 gb AAQ24297.1 ,	33641465 gb AAQ24296.1 ,	33641463 gb AAQ24295.1 ,
33641461 gb AAQ24294.1 ,	33641459 gb AAQ24293.1 ,	33641457 gb AAQ24292.1 ,
33641455 gb AAQ24291.1 ,	33641452 gb AAQ24290.1 ,	16755651 gb AAL28063.1 ,
30575565 gb AAP32904.1 ,	30575563 gb AAP32903.1 ,	30575561 gb AAP32902.1 ,
30575559 gb AAP32901.1 ,	30575557 gb AAP32900.1 ,	30575555 gb AAP32899.1 ,
30575553 gb AAP32898.1 ,	30575551 gb AAP32897.1 ,	30575548 gb AAP32895.1 ,
30575542 gb AAP32894.1 ,	30575540 gb AAP32893.1 ,	30575538 gb AAP32892.1 ,
30575536 gb AAP32891.1 ,	30575534 gb AAP32890.1 ,	30575531 gb AAP32889.1 ,
30575529 gb AAP32888.1 ,	30575527 gb AAP32887.1 ,	30575525 gb AAP32886.1 ,
30575523 gb AAP32885.1 ,	30575521 gb AAP32884.1 ,	30575519 gb AAP32883.1 ,
30575517 gb AAP32882.1 ,	30575515 gb AAP32881.1 ,	30575513 gb AAP32880.1 ,
30575511 gb AAP32879.1 ,	30575508 gb AAP32878.1 ,	30575504 gb AAP32877.1 ,
30575502 gb AAP32876.1 ,	30575500 gb AAP32875.1 ,	30575498 gb AAP32874.1 ,
30575496 gb AAP32873.1 ,	30575494 gb AAP32872.1 ,	30575492 gb AAP32871.1 ,
30575490 gb AAP32870.1 ,	32261510 gb AAP76570.1 truncated,	
32261503 gb AAP76564.1 ,	32261493 gb AAP76555.1 ,	32261483 gb AAP76546.1 ,
32261473 gb AAP76537.1 ,	32261457 gb AAP76522.1 ,	34500810 gb AAQ73893.1 ,
34500808 gb AAQ73892.1 ,	34500806 gb AAQ73891.1 ,	34500803 gb AAQ73890.1 ,
34500800 gb AAQ73889.1 ,	34500796 gb AAQ73888.1 ,	34500794 gb AAQ73887.1 ,
34500792 gb AAQ73886.1 ,	34500790 gb AAQ73885.1 ,	34500788 gb AAQ73884.1 ,
34500786 gb AAQ73883.1 ,	34500784 gb AAQ73882.1 ,	34500782 gb AAQ73881.1 ,
34500780 gb AAQ73880.1 ,	34500778 gb AAQ73879.1 ,	34500776 gb AAQ73878.1 ,
34500774 gb AAQ73877.1 ,	34500772 gb AAQ73876.1 ,	34500770 gb AAQ73875.1 ,
34500768 gb AAQ73874.1 ,	34500766 gb AAQ73873.1 ,	34500763 gb AAQ73872.1 ,
34500760 gb AAQ73871.1 ,	34500758 gb AAQ73870.1 ,	34500755 gb AAQ73869.1 ,
34500753 gb AAQ73868.1 ,	34500751 gb AAQ73867.1 ,	34500747 gb AAQ73865.1 ,
34500745 gb AAQ73864.1 ,	34500740 gb AAQ73862.1 ,	34500738 gb AAQ73861.1 ,
34500736 gb AAQ73860.1 ,	34500734 gb AAQ73859.1 ,	34500732 gb AAQ73858.1 ,
34500730 gb AAQ73857.1 ,	34500724 gb AAQ73856.1 ,	34500721 gb AAQ73855.1 ,
34500719 gb AAQ73854.1 ,	34500717 gb AAQ73853.1 ,	34500715 gb AAQ73852.1 ,
34500713 gb AAQ73851.1 ,	34500710 gb AAQ73850.1 ,	34500708 gb AAQ73849.1 ,
34500706 gb AAQ73848.1 ,	34500704 gb AAQ73847.1 ,	33359205 gb AAQ17032.1 ,
32724999 gb AAM93867.2 ,	32724997 gb AAM93864.2 ,	32724995 gb AAM93825.2 ,
32724993 gb AAM93816.2 ,	32724991 gb AAM93805.2 ,	32724989 gb AAM93801.2 ,
32724987 gb AAM93795.2 ,	32724985 gb AAM93794.2 ,	31087655 gb AAM93800.1 ,
31087653 gb AAM93799.1 ,	31087651 gb AAM93798.1 ,	31087649 gb AAM93797.1 ,
31087646 gb AAM93796.1 ,	31087640 gb AAM93793.1 ,	31087638 gb AAM93792.1 ,
31087636 gb AAM93791.1 ,	31087634 gb AAM93790.1 ,	31087632 gb AAM93789.1 ,
31087630 gb AAM93870.1 ,	31087628 gb AAM93869.1 ,	31087626 gb AAM93868.1 ,
31087622 gb AAM93866.1 ,	31087620 gb AAM93865.1 ,	31087615 gb AAM93863.1 ,
31087613 gb AAM93862.1 ,	31087611 gb AAM93861.1 ,	31087609 gb AAM93860.1 ,
31087490 gb AAM93836.1 ,	31087488 gb AAM93835.1 ,	31087486 gb AAM93834.1 ,
31087484 gb AAM93833.1 ,	31087482 gb AAM93832.1 ,	31087480 gb AAM93831.1 ,
31087478 gb AAM93830.1 ,	31087476 gb AAM93829.1 ,	31087474 gb AAM93828.1 ,
31087472 gb AAM93827.1 ,	31087469 gb AAM93826.1 ,	31087465 gb AAM93824.1 ,

31087463 gb AAM93823.1 ,	31087460 gb AAM93822.1 ,	31087458 gb AAM93821.1 ,
31087456 gb AAM93820.1 ,	31087451 gb AAM93819.1 ,	31087449 gb AAM93818.1 ,
31087447 gb AAM93817.1 ,	31087441 gb AAM93806.1 ,	31087437 gb AAM93804.1 ,
31087435 gb AAM93803.1 ,	31087433 gb AAM93802.1 ,	31087728 gb AAM93905.1 ,
31087726 gb AAM93904.1 ,	31087724 gb AAM93903.1 ,	31087722 gb AAM93902.1 ,
31087720 gb AAM93901.1 ,	31087718 gb AAM93900.1 ,	31087716 gb AAM93899.1 ,
31087714 gb AAM93898.1 ,	31087712 gb AAM93897.1 ,	31087710 gb AAM93896.1 ,
31087708 gb AAM93895.1 ,	31087706 gb AAM93894.1 ,	31087704 gb AAM93893.1 ,
31087702 gb AAM93892.1 ,	31087700 gb AAM93891.1 ,	31087698 gb AAM93890.1 ,
31087696 gb AAM93889.1 ,	31087694 gb AAM93888.1 ,	31087692 gb AAM93887.1 ,
31087690 gb AAM93886.1 ,	31087687 gb AAM93885.1 ,	31087685 gb AAM93884.1 ,
31087683 gb AAM93883.1 ,	31087681 gb AAM93882.1 ,	31087679 gb AAM93881.1 ,
31087677 gb AAM93880.1 ,	31087675 gb AAM93879.1 ,	31087673 gb AAM93878.1 ,
31087671 gb AAM93877.1 ,	31087669 gb AAM93876.1 ,	31087667 gb AAM93875.1 ,
31087665 gb AAM93874.1 ,	31087663 gb AAM93873.1 ,	31087661 gb AAM93872.1 ,
31087659 gb AAM93871.1 ,	31087607 gb AAM93773.1 ,	31087605 gb AAM93772.1 ,
31087603 gb AAM93771.1 ,	31087601 gb AAM93770.1 ,	31087599 gb AAM93769.1 ,
31087596 gb AAM93768.1 ,	31087594 gb AAM93767.1 ,	31087592 gb AAM93766.1 ,
31087590 gb AAM93765.1 ,	31087588 gb AAM93764.1 ,	31087586 gb AAM93763.1 ,
31087584 gb AAM93762.1 ,	31087582 gb AAM93761.1 ,	31087580 gb AAM93760.1 ,
31087578 gb AAM93759.1 ,	31087576 gb AAM93758.1 ,	31087574 gb AAM93757.1 ,
31087537 gb AAM93859.1 ,	31087535 gb AAM93858.1 ,	31087533 gb AAM93857.1 ,
31087531 gb AAM93856.1 ,	31087529 gb AAM93855.1 ,	31087527 gb AAM93854.1 ,
31087525 gb AAM93853.1 ,	31087523 gb AAM93852.1 ,	31087521 gb AAM93851.1 ,
31087519 gb AAM93850.1 ,	31087517 gb AAM93849.1 ,	31087514 gb AAM93848.1 ,
31087512 gb AAM93847.1 ,	31087510 gb AAM93846.1 ,	31087508 gb AAM93845.1 ,
31087506 gb AAM93844.1 ,	31087504 gb AAM93843.1 ,	31087502 gb AAM93842.1 ,
31087500 gb AAM93841.1 ,	31087498 gb AAM93840.1 ,	31087496 gb AAM93839.1 ,
31087494 gb AAM93838.1 ,	31087492 gb AAM93837.1 ,	31087430 gb AAM93814.1 ,
31087428 gb AAM93813.1 ,	31087426 gb AAM93812.1 ,	31087424 gb AAM93811.1 ,
31087422 gb AAM93810.1 ,	31087420 gb AAM93809.1 ,	31087418 gb AAM93808.1 ,
31087416 gb AAM93807.1 ,	31087409 gb AAM93815.1 ,	30351032 gb AAP22706.1 ,
30351030 gb AAP22705.1 ,	30351028 gb AAP22704.1 ,	30351026 gb AAP22703.1 ,
30351024 gb AAP22702.1 ,	30351022 gb AAP22701.1 ,	30351020 gb AAP22700.1 ,
30351018 gb AAP22699.1 ,	30351016 gb AAP22698.1 ,	30351014 gb AAP22697.1 ,
30351012 gb AAP22696.1 ,	30351010 gb AAP22695.1 ,	30351008 gb AAP22694.1 ,
30351006 gb AAP22693.1 ,	30351004 gb AAP22692.1 ,	30351002 gb AAP22691.1 ,
30351000 gb AAP22690.1 ,	30350998 gb AAP22689.1 ,	30350996 gb AAP22688.1 ,
30350994 gb AAP22687.1 ,	30350992 gb AAP22686.1 ,	30350990 gb AAP22685.1 ,
30350988 gb AAP22684.1 ,	30350986 gb AAP22683.1 ,	30350984 gb AAP22682.1 ,
30350982 gb AAP22681.1 ,	30350980 gb AAP22680.1 ,	30350978 gb AAP22679.1 ,
30350976 gb AAP22678.1 ,	30350974 gb AAP22677.1 ,	30350972 gb AAP22676.1 ,
30350970 gb AAP22675.1 ,	30350968 gb AAP22674.1 ,	30350966 gb AAP22673.1 ,
30350964 gb AAP22672.1 ,	30350962 gb AAP22671.1 ,	30350960 gb AAP22670.1 ,
30350958 gb AAP22669.1 ,	30350956 gb AAP22668.1 ,	30350954 gb AAP22667.1 ,
30350952 gb AAP22666.1 ,	30350950 gb AAP22665.1 ,	30350948 gb AAP22664.1 ,
30350946 gb AAP22663.1 ,	30350944 gb AAP22662.1 ,	30350942 gb AAP22661.1 ,
30350940 gb AAP22660.1 ,	30350938 gb AAP22659.1 ,	30350936 gb AAP22658.1 ,

30350934 gb AAP22657.1 ,	30350932 gb AAP22656.1 ,	30350930 gb AAP22655.1 ,
30350928 gb AAP22654.1 ,	26245477 gb AAN77405.1 ,	26245467 gb AAN77396.1 ,
26245457 gb AAN77387.1 ,	1478065 gb AAB51144.1 ,	27885102 gb AAF97045.4 ,
27885100 gb AAF97041.2 ,	22141040 gb AAF97037.2 ,	9664258 gb AAF97044.1 ,
9664256 gb AAF97043.1 ,	9664254 gb AAF97042.1 ,	9664250 gb AAF97040.1 ,
9664246 gb AAF97038.1 mutant,		9664242 gb AAF97036.1 ,
9664240 gb AAF97035.1 mutant,	23954674 gb AAN40128.1 ,	23954672 gb AAN40127.1 ,
23954670 gb AAN40126.1 ,	23954668 gb AAN40125.1 ,	23954666 gb AAN40124.1 ,
23954664 gb AAN40123.1 ,	23954662 gb AAN40122.1 ,	23954660 gb AAN40121.1 ,
23954658 gb AAN40120.1 ,	23954656 gb AAN40119.1 ,	23954654 gb AAN40118.1 ,
23954652 gb AAN40117.1 ,	23954650 gb AAN40116.1 ,	23954648 gb AAN40115.1 ,
23954646 gb AAN40114.1 ,	23954642 gb AAN40112.1 ,	23954640 gb AAN40111.1 ,
23954638 gb AAN40110.1 ,	23954636 gb AAN40109.1 ,	23954634 gb AAN40108.1 ,
23954632 gb AAN40107.1 ,	23954630 gb AAN40106.1 ,	23954628 gb AAN40105.1 ,
23954626 gb AAN40104.1 ,	23954622 gb AAN40102.1 ,	23954620 gb AAN40101.1 ,
23954618 gb AAN40100.1 ,	23954616 gb AAN40099.1 ,	23954614 gb AAN40098.1 ,
23954612 gb AAN40097.1 ,	23954610 gb AAN40096.1 ,	23954608 gb AAN40095.1 ,
23954606 gb AAN40094.1 ,	23954604 gb AAN40093.1 ,	23954602 gb AAN40092.1 ,
23954600 gb AAN40091.1 ,	23954598 gb AAN40090.1 ,	23954596 gb AAN40089.1 ,
23954594 gb AAN40088.1 ,	23954592 gb AAN40087.1 ,	23954590 gb AAN40086.1 ,
23954588 gb AAN40085.1 ,	23954586 gb AAN40084.1 ,	23954584 gb AAN40083.1 ,
23954582 gb AAN40082.1 ,		23954580 gb AAN40081.1 ,
6690780 gb AAF24339.1 AF197341_6,		6690774 gb AAF24333.1 AF197340_7,
6690767 gb AAF24326.1 AF197339_5,		6690760 gb AAF24319.1 AF197338_7,
17981627 gb AAL51097.1 ,	1495983 gb AAB06260.1 ,	1495978 gb AAB06257.1 ,
1495975 gb AAB06255.1 ,	1495972 gb AAB06253.1 ,	1495969 gb AAB06251.1 ,
1495966 gb AAB06249.1 ,	1495963 gb AAB06247.1 ,	1495960 gb AAB06245.1 ,
1495957 gb AAB06243.1 ,	1495954 gb AAB06241.1 ,	1469314 gb AAB05050.1 ,
1263019 gb AAB05098.1 ,	328657 gb AAA80325.1 ,	469246 gb AAA44865.1 ,
56200052 gb AAM10883.2 ,	30410842 gb AAM10902.2 ,	29029458 gb AAM10899.2 ,
27885082 gb AAM10877.2 ,	27885080 gb AAM10853.2 ,	27777706 gb AAM10913.2 ,
24967273 gb AAM10856.2 ,	22858662 gb AAN05831.1 ,	22858660 gb AAN05830.1 ,
22858658 gb AAN05829.1 ,	22858656 gb AAN05828.1 ,	22858654 gb AAN05827.1 ,
22858652 gb AAN05826.1 ,	22858650 gb AAN05825.1 ,	22858648 gb AAN05824.1 ,
22858646 gb AAN05823.1 ,	22858644 gb AAN05822.1 ,	22858642 gb AAN05821.1 ,
22858640 gb AAN05820.1 ,	22858638 gb AAN05819.1 ,	22858636 gb AAN05818.1 ,
22858633 gb AAN05817.1 ,	22858630 gb AAN05816.1 ,	22858628 gb AAN05815.1 ,
22858626 gb AAN05814.1 ,	22858624 gb AAN05813.1 ,	22858622 gb AAN05812.1 ,
22858620 gb AAN05811.1 ,	22858618 gb AAN05810.1 ,	22858615 gb AAN05809.1 ,
22858613 gb AAN05808.1 ,	22858611 gb AAN05807.1 ,	22858609 gb AAN05806.1 ,
22858607 gb AAN05805.1 ,	22858605 gb AAN05804.1 ,	22858603 gb AAN05803.1 ,
22858601 gb AAN05802.1 ,	22858599 gb AAN05801.1 ,	22858597 gb AAN05800.1 ,
22858595 gb AAN05799.1 ,	22858593 gb AAN05798.1 ,	22858591 gb AAN05797.1 ,
22858589 gb AAN05796.1 ,	22858587 gb AAN05795.1 ,	22858585 gb AAN05794.1 ,
22143038 gb AAM10917.2 ,	20142335 gb AAM10842.2 ,	20126988 gb AAM10929.1 ,
20126986 gb AAM10928.1 ,	20126984 gb AAM10927.1 ,	20126982 gb AAM10926.1 ,
20126980 gb AAM10925.1 ,	20126978 gb AAM10924.1 ,	20126975 gb AAM10923.1 ,
20126973 gb AAM10922.1 ,	20126970 gb AAM10921.1 ,	20126968 gb AAM10920.1 ,

20126965 gb AAM10919.1 ,	20126963 gb AAM10918.1 ,	20126959 gb AAM10916.1 ,
20126957 gb AAM10915.1 ,	20126954 gb AAM10914.1 ,	20126949 gb AAM10912.1 ,
20126947 gb AAM10911.1 ,	20126945 gb AAM10910.1 ,	20126943 gb AAM10909.1 ,
20126941 gb AAM10908.1 ,	20126939 gb AAM10907.1 ,	20126937 gb AAM10906.1 ,
20126935 gb AAM10905.1 ,	20126933 gb AAM10904.1 ,	20126931 gb AAM10903.1 ,
20126927 gb AAM10901.1 ,	20126925 gb AAM10900.1 ,	20126921 gb AAM10898.1 ,
20126919 gb AAM10897.1 ,	20126917 gb AAM10896.1 ,	20126915 gb AAM10895.1 ,
20126913 gb AAM10894.1 ,	20126909 gb AAM10892.1 ,	20126907 gb AAM10891.1 ,
20126905 gb AAM10890.1 ,	20126903 gb AAM10889.1 ,	20126899 gb AAM10887.1 ,
20126897 gb AAM10886.1 ,	20126895 gb AAM10885.1 ,	20126893 gb AAM10884.1 ,
20126889 gb AAM10882.1 ,	20126887 gb AAM10881.1 ,	20126885 gb AAM10880.1 ,
20126883 gb AAM10879.1 ,	20126881 gb AAM10878.1 ,	20126875 gb AAM10875.1 ,
20126873 gb AAM10874.1 ,	20126871 gb AAM10873.1 ,	20126869 gb AAM10872.1 ,
20126867 gb AAM10871.1 ,	20126865 gb AAM10870.1 ,	20126863 gb AAM10869.1 ,
20126861 gb AAM10868.1 ,	20126859 gb AAM10867.1 ,	20126857 gb AAM10866.1 ,
20126855 gb AAM10865.1 ,	20126853 gb AAM10864.1 ,	20126851 gb AAM10863.1 ,
20126849 gb AAM10862.1 ,	20126847 gb AAM10861.1 ,	20126845 gb AAM10860.1 ,
20126843 gb AAM10859.1 ,	20126841 gb AAM10858.1 ,	20126839 gb AAM10857.1 ,
20126835 gb AAM10855.1 ,	20126833 gb AAM10854.1 ,	20126828 gb AAM10852.1 ,
20126826 gb AAM10851.1 ,	20126824 gb AAM10850.1 ,	20126822 gb AAM10849.1 ,
20126820 gb AAM10848.1 ,	20126818 gb AAM10847.1 ,	20126816 gb AAM10846.1 ,
20126814 gb AAM10845.1 ,	20126812 gb AAM10844.1 ,	20126810 gb AAM10843.1 ,
20126806 gb AAM10841.1 ,	20126804 gb AAM10840.1 ,	20126802 gb AAM10839.1 ,
20126800 gb AAM10838.1 ,	20126798 gb AAM10837.1 ,	16118401 gb AAL12764.1 ,
16118391 gb AAL12755.1 ,	16118381 gb AAL12746.1 ,	16118371 gb AAL12737.1 ,
16118357 gb AAL12725.1 ,	16118347 gb AAL12716.1 ,	16118335 gb AAL12706.1 ,
16118318 gb AAL12692.1 ,	16118308 gb AAL12683.1 ,	16118298 gb AAL12674.1 ,
16118288 gb AAL12665.1 ,	16118278 gb AAL12656.1 ,	16118268 gb AAL12647.1 ,
16118258 gb AAL12638.1 ,	45360217 gb AAS59248.1 ,	45360207 gb AAS59239.1 ,
45360197 gb AAS59230.1 ,	45360186 gb AAS59220.1 ,	45360176 gb AAS59211.1 ,
45360166 gb AAS59202.1 ,	45360156 gb AAS59193.1 ,	45360146 gb AAS59184.1 ,
82319636 sp Q9QBZ7 Q9QBZ7_9HIV1,	82319635 sp Q9QBZ3 Q9QBZ3_9HIV1,	
82319634 sp Q9QBY9 Q9QBY9_9HIV1,	82319633 sp Q9QBY5 Q9QBY5_9HIV1,	
82319632 sp Q9QBY1 Q9QBY1_9HIV1,	82319066 sp Q9IBN2 Q9IBN2_9HIV1,	
82314771 sp Q90VS7 Q90VS7_9HIV1,	82313851 sp Q8UTJ8 Q8UTJ8_9HIV1,	
82313829 sp Q8UT04 Q8UT04_9HIV1,	82309401 sp Q5DID4 Q5DID4_9HIV1,	
82309245 sp P90297 P90297_9HIV1,	82309222 sp P88432 P88432_9HIV1,	
82308943 sp O41884 O41884_9HIV1,	82308858 sp O09529 O09529_9HIV1,	
82308857 sp O09527 O09527_9HIV1,	82308265 sp Q9YPG6 Q9YPG6_9HIV1,	
82307713 sp Q9WLX9 Q9WLX9_9HIV1,	82307712 sp Q9WLX8 Q9WLX8_9HIV1,	
82307711 sp Q9WLX7 Q9WLX7_9HIV1,	82307710 sp Q9WLX6 Q9WLX6_9HIV1,	
82307709 sp Q9WLX5 Q9WLX5_9HIV1,	82307708 sp Q9WLX4 Q9WLX4_9HIV1,	
82307707 sp Q9WLX3 Q9WLX3_9HIV1,	82307706 sp Q9WLX2 Q9WLX2_9HIV1,	
82307705 sp Q9WLX1 Q9WLX1_9HIV1,	82307704 sp Q9WLX0 Q9WLX0_9HIV1,	
82307703 sp Q9WLW9 Q9WLW9_9HIV1,	82307692 sp Q9WLL7 Q9WLL7_9HIV1,	
82307691 sp Q9WLL6 Q9WLL6_9HIV1,	82307223 sp Q9WA35 Q9WA35_9HIV1,	
82307127 sp Q9W7X3 Q9W7X3_9HIV1,	82307126 sp Q9W7X2 Q9W7X2_9HIV1,	
82307125 sp Q9W7X1 Q9W7X1_9HIV1,	82307124 sp Q9W7X0 Q9W7X0_9HIV1,	

|82307121|sp|Q9W7U0|Q9W7U0_9HIV1,
|82306571|sp|Q9QNZ7|Q9QNZ7_9HIV1,
|82306240|sp|Q9QGW0|Q9QGW0_9HIV1,
|82306238|sp|Q9QGV8|Q9QGV8_9HIV1,
|82306236|sp|Q9QGV6|Q9QGV6_9HIV1,
|82306234|sp|Q9QGV4|Q9QGV4_9HIV1,
|82306232|sp|Q9QGV2|Q9QGV2_9HIV1,
|82306230|sp|Q9QGV0|Q9QGV0_9HIV1,
|82306228|sp|Q9QGU8|Q9QGU8_9HIV1,
|82306226|sp|Q9QGU6|Q9QGU6_9HIV1,
|82306224|sp|Q9QGU4|Q9QGU4_9HIV1,
|82306222|sp|Q9QGU2|Q9QGU2_9HIV1,
|82306220|sp|Q9QGU0|Q9QGU0_9HIV1,
|82306218|sp|Q9QGT8|Q9QGT8_9HIV1,
|82306216|sp|Q9QGT6|Q9QGT6_9HIV1,
|82305874|sp|Q9Q6H7|Q9Q6H7_9HIV1,
|82305872|sp|Q9Q6G4|Q9Q6G4_9HIV1,
|82305415|sp|Q9JE92|Q9JE92_9HIV1,
|82305413|sp|Q9JE90|Q9JE90_9HIV1,
|82305411|sp|Q9JE88|Q9JE88_9HIV1,
|82305409|sp|Q9JE86|Q9JE86_9HIV1,
|82305046|sp|Q9IR17|Q9IR17_9HIV1,
|82305044|sp|Q9IR15|Q9IR15_9HIV1,
|82305042|sp|Q9IR13|Q9IR13_9HIV1,
|82305040|sp|Q9IR11|Q9IR11_9HIV1,
|82305038|sp|Q9IR09|Q9IR09_9HIV1,
|82305036|sp|Q9IR07|Q9IR07_9HIV1,
|82305034|sp|Q9IR05|Q9IR05_9HIV1,
|82305032|sp|Q9IR03|Q9IR03_9HIV1,
|82305030|sp|Q9IR01|Q9IR01_9HIV1,
|82305028|sp|Q9IQZ9|Q9IQZ9_9HIV1,
|82305026|sp|Q9IQZ7|Q9IQZ7_9HIV1,
|82305024|sp|Q9IQZ5|Q9IQZ5_9HIV1,
|82305022|sp|Q9IQZ3|Q9IQZ3_9HIV1,
|82305020|sp|Q9IQZ1|Q9IQZ1_9HIV1,
|82305018|sp|Q9IQY9|Q9IQY9_9HIV1,
|82305016|sp|Q9IQY7|Q9IQY7_9HIV1,
|82305014|sp|Q9IQY5|Q9IQY5_9HIV1,
|82305012|sp|Q9IQY3|Q9IQY3_9HIV1,
|82305010|sp|Q9IQY1|Q9IQY1_9HIV1,
|82305008|sp|Q9IQX9|Q9IQX9_9HIV1,
|82305006|sp|Q9IQX7|Q9IQX7_9HIV1,
|82305004|sp|Q9IQX5|Q9IQX5_9HIV1,
|82305002|sp|Q9IQX3|Q9IQX3_9HIV1,
|82305000|sp|Q9IQX1|Q9IQX1_9HIV1,
|82304998|sp|Q9IQW9|Q9IQW9_9HIV1,
|82303504|sp|Q9DQV2|Q9DQV2_9HIV1,
|82303502|sp|Q9DQV0|Q9DQV0_9HIV1,

|82306895|sp|Q9QRB0|Q9QRB0_9HIV1,
|82306241|sp|Q9QGW1|Q9QGW1_9HIV1,
|82306239|sp|Q9QGV9|Q9QGV9_9HIV1,
|82306237|sp|Q9QGV7|Q9QGV7_9HIV1,
|82306235|sp|Q9QGV5|Q9QGV5_9HIV1,
|82306233|sp|Q9QGV3|Q9QGV3_9HIV1,
|82306231|sp|Q9QGV1|Q9QGV1_9HIV1,
|82306229|sp|Q9QGU9|Q9QGU9_9HIV1,
|82306227|sp|Q9QGU7|Q9QGU7_9HIV1,
|82306225|sp|Q9QGU5|Q9QGU5_9HIV1,
|82306223|sp|Q9QGU3|Q9QGU3_9HIV1,
|82306221|sp|Q9QGU1|Q9QGU1_9HIV1,
|82306219|sp|Q9QGT9|Q9QGT9_9HIV1,
|82306217|sp|Q9QGT7|Q9QGT7_9HIV1,
|82305876|sp|Q9Q6I3|Q9Q6I3_9HIV1,
|82305873|sp|Q9Q6H0|Q9Q6H0_9HIV1,
|82305416|sp|Q9JE93|Q9JE93_9HIV1,
|82305414|sp|Q9JE91|Q9JE91_9HIV1,
|82305412|sp|Q9JE89|Q9JE89_9HIV1,
|82305410|sp|Q9JE87|Q9JE87_9HIV1,
|82305047|sp|Q9IR18|Q9IR18_9HIV1,
|82305045|sp|Q9IR16|Q9IR16_9HIV1,
|82305043|sp|Q9IR14|Q9IR14_9HIV1,
|82305041|sp|Q9IR12|Q9IR12_9HIV1,
|82305039|sp|Q9IR10|Q9IR10_9HIV1,
|82305037|sp|Q9IR08|Q9IR08_9HIV1,
|82305035|sp|Q9IR06|Q9IR06_9HIV1,
|82305033|sp|Q9IR04|Q9IR04_9HIV1,
|82305031|sp|Q9IR02|Q9IR02_9HIV1,
|82305029|sp|Q9IR00|Q9IR00_9HIV1,
|82305027|sp|Q9IQZ8|Q9IQZ8_9HIV1,
|82305025|sp|Q9IQZ6|Q9IQZ6_9HIV1,
|82305023|sp|Q9IQZ4|Q9IQZ4_9HIV1,
|82305021|sp|Q9IQZ2|Q9IQZ2_9HIV1,
|82305019|sp|Q9IQZ0|Q9IQZ0_9HIV1,
|82305017|sp|Q9IQY8|Q9IQY8_9HIV1,
|82305015|sp|Q9IQY6|Q9IQY6_9HIV1,
|82305013|sp|Q9IQY4|Q9IQY4_9HIV1,
|82305011|sp|Q9IQY2|Q9IQY2_9HIV1,
|82305009|sp|Q9IQY0|Q9IQY0_9HIV1,
|82305007|sp|Q9IQX8|Q9IQX8_9HIV1,
|82305005|sp|Q9IQX6|Q9IQX6_9HIV1,
|82305003|sp|Q9IQX4|Q9IQX4_9HIV1,
|82305001|sp|Q9IQX2|Q9IQX2_9HIV1,
|82304999|sp|Q9IQX0|Q9IQX0_9HIV1,
|82304669|sp|Q9ICH2|Q9ICH2_9HIV1,
|82303503|sp|Q9DQV1|Q9DQV1_9HIV1,
|82303501|sp|Q9DQU9|Q9DQU9_9HIV1,

|82303500|sp|Q9DQU8|Q9DQU8_9HIV1,
|82303498|sp|Q9DQU6|Q9DQU6_9HIV1,
|82303496|sp|Q9DQU4|Q9DQU4_9HIV1,
|82303494|sp|Q9DQU2|Q9DQU2_9HIV1,
|82303492|sp|Q9DQU0|Q9DQU0_9HIV1,
|82303490|sp|Q9DQT8|Q9DQT8_9HIV1,
|82303488|sp|Q9DQT6|Q9DQT6_9HIV1,
|82303486|sp|Q9DQT4|Q9DQT4_9HIV1,
|82303484|sp|Q9DQT2|Q9DQT2_9HIV1,
|82303482|sp|Q9DQT0|Q9DQT0_9HIV1,
|82303480|sp|Q9DQS8|Q9DQS8_9HIV1,
|82303478|sp|Q9DQS6|Q9DQS6_9HIV1,
|82303476|sp|Q9DQS4|Q9DQS4_9HIV1,
|82303474|sp|Q9DQS2|Q9DQS2_9HIV1,
|82303472|sp|Q9DQS0|Q9DQS0_9HIV1,
|82303470|sp|Q9DQR8|Q9DQR8_9HIV1,
|82303468|sp|Q9DQR6|Q9DQR6_9HIV1,
|82303466|sp|Q9DQR4|Q9DQR4_9HIV1,
|82303464|sp|Q9DQR2|Q9DQR2_9HIV1,
|82303462|sp|Q9DQR0|Q9DQR0_9HIV1,
|82303460|sp|Q9DQQ8|Q9DQQ8_9HIV1,
|82303458|sp|Q9DQQ6|Q9DQQ6_9HIV1,
|82303456|sp|Q9DQQ4|Q9DQQ4_9HIV1,
|82303454|sp|Q9DQQ2|Q9DQQ2_9HIV1,
|82303452|sp|Q9DQQ0|Q9DQQ0_9HIV1,
|82303450|sp|Q9DQP8|Q9DQP8_9HIV1,
|82303448|sp|Q9DQP6|Q9DQP6_9HIV1,
|82303446|sp|Q9DQP4|Q9DQP4_9HIV1,
|82303444|sp|Q9DQP2|Q9DQP2_9HIV1,
|82303442|sp|Q9DQP0|Q9DQP0_9HIV1,
|82303440|sp|Q9DQN8|Q9DQN8_9HIV1,
|82303228|sp|Q9DKG5|Q9DKG5_9HIV1,
|82303224|sp|Q9DKE9|Q9DKE9_9HIV1,
|82303220|sp|Q9DKD2|Q9DKD2_9HIV1,
|82302338|sp|Q994C4|Q994C4_9HIV1,
|82302334|sp|Q994A6|Q994A6_9HIV1,
|82301506|sp|Q97012|Q97012_9HIV1,
|82301504|sp|Q97007|Q97007_9HIV1,
|82300512|sp|Q90DD4|Q90DD4_9HIV1,
|82299983|sp|Q908N0|Q908N0_9HIV1,
|82299979|sp|Q908L2|Q908L2_9HIV1,
|82299975|sp|Q908J4|Q908J4_9HIV1,
|82299971|sp|Q908H6|Q908H6_9HIV1,
|82299267|sp|Q8UTS9|Q8UTS9_9HIV1,
|82299263|sp|Q8UTR1|Q8UTR1_9HIV1,
|82299259|sp|Q8UTP3|Q8UTP3_9HIV1,
|82299255|sp|Q8UTM5|Q8UTM5_9HIV1,
|82299251|sp|Q8UTK7|Q8UTK7_9HIV1,

|82303499|sp|Q9DQU7|Q9DQU7_9HIV1,
|82303497|sp|Q9DQU5|Q9DQU5_9HIV1,
|82303495|sp|Q9DQU3|Q9DQU3_9HIV1,
|82303493|sp|Q9DQU1|Q9DQU1_9HIV1,
|82303491|sp|Q9DQT9|Q9DQT9_9HIV1,
|82303489|sp|Q9DQT7|Q9DQT7_9HIV1,
|82303487|sp|Q9DQT5|Q9DQT5_9HIV1,
|82303485|sp|Q9DQT3|Q9DQT3_9HIV1,
|82303483|sp|Q9DQT1|Q9DQT1_9HIV1,
|82303481|sp|Q9DQS9|Q9DQS9_9HIV1,
|82303479|sp|Q9DQS7|Q9DQS7_9HIV1,
|82303477|sp|Q9DQS5|Q9DQS5_9HIV1,
|82303475|sp|Q9DQS3|Q9DQS3_9HIV1,
|82303473|sp|Q9DQS1|Q9DQS1_9HIV1,
|82303471|sp|Q9DQR9|Q9DQR9_9HIV1,
|82303469|sp|Q9DQR7|Q9DQR7_9HIV1,
|82303467|sp|Q9DQR5|Q9DQR5_9HIV1,
|82303465|sp|Q9DQR3|Q9DQR3_9HIV1,
|82303463|sp|Q9DQR1|Q9DQR1_9HIV1,
|82303461|sp|Q9DQQ9|Q9DQQ9_9HIV1,
|82303459|sp|Q9DQQ7|Q9DQQ7_9HIV1,
|82303457|sp|Q9DQQ5|Q9DQQ5_9HIV1,
|82303455|sp|Q9DQQ3|Q9DQQ3_9HIV1,
|82303453|sp|Q9DQQ1|Q9DQQ1_9HIV1,
|82303451|sp|Q9DQP9|Q9DQP9_9HIV1,
|82303449|sp|Q9DQP7|Q9DQP7_9HIV1,
|82303447|sp|Q9DQP5|Q9DQP5_9HIV1,
|82303445|sp|Q9DQP3|Q9DQP3_9HIV1,
|82303443|sp|Q9DQP1|Q9DQP1_9HIV1,
|82303441|sp|Q9DQN9|Q9DQN9_9HIV1,
|82303439|sp|Q9DQN7|Q9DQN7_9HIV1,
|82303226|sp|Q9DKF7|Q9DKF7_9HIV1,
|82303222|sp|Q9DKE1|Q9DKE1_9HIV1,
|82302500|sp|Q99BZ6|Q99BZ6_9HIV1,
|82302336|sp|Q994B5|Q994B5_9HIV1,
|82301507|sp|Q97014|Q97014_9HIV1,
|82301505|sp|Q97010|Q97010_9HIV1,
|82301503|sp|Q97005|Q97005_9HIV1,
|82300079|sp|Q909R2|Q909R2_9HIV1,
|82299981|sp|Q908M1|Q908M1_9HIV1,
|82299977|sp|Q908K3|Q908K3_9HIV1,
|82299973|sp|Q908I5|Q908I5_9HIV1,
|82299269|sp|Q8UTT8|Q8UTT8_9HIV1,
|82299265|sp|Q8UTS0|Q8UTS0_9HIV1,
|82299261|sp|Q8UTQ2|Q8UTQ2_9HIV1,
|82299257|sp|Q8UTN4|Q8UTN4_9HIV1,
|82299253|sp|Q8UTL6|Q8UTL6_9HIV1,
|82299248|sp|Q8UTI9|Q8UTI9_9HIV1,

|82299246|sp|Q8UTI0|Q8UTI0_9HIV1,
|82299242|sp|Q8UTG2|Q8UTG2_9HIV1,
|82299237|sp|Q8UTE4|Q8UTE4_9HIV1,
|82299233|sp|Q8UTC6|Q8UTC6_9HIV1,
|82299229|sp|Q8UTA8|Q8UTA8_9HIV1,
|82299224|sp|Q8UT90|Q8UT90_9HIV1,
|82299220|sp|Q8UT72|Q8UT72_9HIV1,
|82299216|sp|Q8UT54|Q8UT54_9HIV1,
|82299212|sp|Q8UT36|Q8UT36_9HIV1,
|82299208|sp|Q8UT18|Q8UT18_9HIV1,
|82299204|sp|Q8USZ5|Q8USZ5_9HIV1,
|82299200|sp|Q8USX7|Q8USX7_9HIV1,
|82299196|sp|Q8USV9|Q8USV9_9HIV1,
|82299192|sp|Q8USU1|Q8USU1_9HIV1,
|82299188|sp|Q8USS3|Q8USS3_9HIV1,
|82295688|sp|Q8AFF2|Q8AFF2_9HIV1,
|82295684|sp|Q8AFD4|Q8AFD4_9HIV1,
|82292064|sp|Q7SP79|Q7SP79_9HIV1,
|82292062|sp|Q7SP77|Q7SP77_9HIV1,
|82292060|sp|Q7SP75|Q7SP75_9HIV1,
|82292058|sp|Q7SP73|Q7SP73_9HIV1,
|82292056|sp|Q7SP71|Q7SP71_9HIV1,
|82292054|sp|Q7SP69|Q7SP69_9HIV1,
|82292052|sp|Q7SP67|Q7SP67_9HIV1,
|82292050|sp|Q7SP65|Q7SP65_9HIV1,
|82292048|sp|Q7SP63|Q7SP63_9HIV1,
|82292046|sp|Q7SP61|Q7SP61_9HIV1,
|82292044|sp|Q7SP59|Q7SP59_9HIV1,
|82292042|sp|Q7SP57|Q7SP57_9HIV1,
|82292040|sp|Q7SP55|Q7SP55_9HIV1,
|82292038|sp|Q7SP53|Q7SP53_9HIV1,
|82292036|sp|Q7SP51|Q7SP51_9HIV1,
|82292034|sp|Q7SP49|Q7SP49_9HIV1,
|82292032|sp|Q7SP47|Q7SP47_9HIV1,
|82292030|sp|Q7SP45|Q7SP45_9HIV1,
|82292028|sp|Q7SP43|Q7SP43_9HIV1,
|82292026|sp|Q7SP41|Q7SP41_9HIV1,
|82292024|sp|Q7SP39|Q7SP39_9HIV1,
|82292022|sp|Q7SP37|Q7SP37_9HIV1,
|82292020|sp|Q7SP35|Q7SP35_9HIV1,
|82292018|sp|Q7SP33|Q7SP33_9HIV1,
|82292016|sp|Q7SP31|Q7SP31_9HIV1,
|82292014|sp|Q7SP29|Q7SP29_9HIV1,
|82292012|sp|Q7SP27|Q7SP27_9HIV1,
|82292010|sp|Q7SP25|Q7SP25_9HIV1,
|82292008|sp|Q7SP23|Q7SP23_9HIV1,
|82292006|sp|Q7SP21|Q7SP21_9HIV1,
|82292004|sp|Q7SP19|Q7SP19_9HIV1,

|82299244|sp|Q8UTH1|Q8UTH1_9HIV1,
|82299240|sp|Q8UTF3|Q8UTF3_9HIV1,
|82299235|sp|Q8UTD5|Q8UTD5_9HIV1,
|82299231|sp|Q8UTB7|Q8UTB7_9HIV1,
|82299227|sp|Q8UT99|Q8UT99_9HIV1,
|82299222|sp|Q8UT81|Q8UT81_9HIV1,
|82299218|sp|Q8UT63|Q8UT63_9HIV1,
|82299214|sp|Q8UT45|Q8UT45_9HIV1,
|82299210|sp|Q8UT27|Q8UT27_9HIV1,
|82299206|sp|Q8UT09|Q8UT09_9HIV1,
|82299202|sp|Q8USY6|Q8USY6_9HIV1,
|82299198|sp|Q8USW8|Q8USW8_9HIV1,
|82299194|sp|Q8USV0|Q8USV0_9HIV1,
|82299190|sp|Q8UST2|Q8UST2_9HIV1,
|82299014|sp|Q8UNF4|Q8UNF4_9HIV1,
|82295686|sp|Q8AFE3|Q8AFE3_9HIV1,
|82293903|sp|Q80162|Q80162_9HIV1,
|82292063|sp|Q7SP78|Q7SP78_9HIV1,
|82292061|sp|Q7SP76|Q7SP76_9HIV1,
|82292059|sp|Q7SP74|Q7SP74_9HIV1,
|82292057|sp|Q7SP72|Q7SP72_9HIV1,
|82292055|sp|Q7SP70|Q7SP70_9HIV1,
|82292053|sp|Q7SP68|Q7SP68_9HIV1,
|82292051|sp|Q7SP66|Q7SP66_9HIV1,
|82292049|sp|Q7SP64|Q7SP64_9HIV1,
|82292047|sp|Q7SP62|Q7SP62_9HIV1,
|82292045|sp|Q7SP60|Q7SP60_9HIV1,
|82292043|sp|Q7SP58|Q7SP58_9HIV1,
|82292041|sp|Q7SP56|Q7SP56_9HIV1,
|82292039|sp|Q7SP54|Q7SP54_9HIV1,
|82292037|sp|Q7SP52|Q7SP52_9HIV1,
|82292035|sp|Q7SP50|Q7SP50_9HIV1,
|82292033|sp|Q7SP48|Q7SP48_9HIV1,
|82292031|sp|Q7SP46|Q7SP46_9HIV1,
|82292029|sp|Q7SP44|Q7SP44_9HIV1,
|82292027|sp|Q7SP42|Q7SP42_9HIV1,
|82292025|sp|Q7SP40|Q7SP40_9HIV1,
|82292023|sp|Q7SP38|Q7SP38_9HIV1,
|82292021|sp|Q7SP36|Q7SP36_9HIV1,
|82292019|sp|Q7SP34|Q7SP34_9HIV1,
|82292017|sp|Q7SP32|Q7SP32_9HIV1,
|82292015|sp|Q7SP30|Q7SP30_9HIV1,
|82292013|sp|Q7SP28|Q7SP28_9HIV1,
|82292011|sp|Q7SP26|Q7SP26_9HIV1,
|82292009|sp|Q7SP24|Q7SP24_9HIV1,
|82292007|sp|Q7SP22|Q7SP22_9HIV1,
|82292005|sp|Q7SP20|Q7SP20_9HIV1,
|82292003|sp|Q7SP18|Q7SP18_9HIV1,

|82292002|sp|Q7SP17|Q7SP17_9HIV1,
 |82292000|sp|Q7SP15|Q7SP15_9HIV1,
 |82291998|sp|Q7SP13|Q7SP13_9HIV1,
 |82291996|sp|Q7SP11|Q7SP11_9HIV1,
 |82291994|sp|Q7SP09|Q7SP09_9HIV1,
 |82291992|sp|Q7SP07|Q7SP07_9HIV1,
 |82291990|sp|Q7SP05|Q7SP05_9HIV1,
 |82291988|sp|Q7SP03|Q7SP03_9HIV1,
 |82291986|sp|Q7SP01|Q7SP01_9HIV1,
 |82291984|sp|Q7SNZ9|Q7SNZ9_9HIV1,
 |82291982|sp|Q7SNZ7|Q7SNZ7_9HIV1,
 |82291980|sp|Q7SNZ5|Q7SNZ5_9HIV1,
 |82291978|sp|Q7SNZ3|Q7SNZ3_9HIV1,
 |82291976|sp|Q7SNZ1|Q7SNZ1_9HIV1,
 |82291974|sp|Q7SNY9|Q7SNY9_9HIV1,
 |82291972|sp|Q7SNY7|Q7SNY7_9HIV1,
 |82291970|sp|Q7SNY5|Q7SNY5_9HIV1,
 |82291968|sp|Q7SNY3|Q7SNY3_9HIV1,
 |82291966|sp|Q7SNY1|Q7SNY1_9HIV1,
 |82291964|sp|Q7SNX9|Q7SNX9_9HIV1,
 |82291962|sp|Q7SNX7|Q7SNX7_9HIV1,
 |82291960|sp|Q7SNX5|Q7SNX5_9HIV1,
 |82291958|sp|Q7SNX3|Q7SNX3_9HIV1,
 |82291956|sp|Q7SNX1|Q7SNX1_9HIV1,
 |82291954|sp|Q7SNW9|Q7SNW9_9HIV1,
 |82291952|sp|Q7SNW7|Q7SNW7_9HIV1,
 |82291950|sp|Q7SNW5|Q7SNW5_9HIV1,
 |82291948|sp|Q7SNW3|Q7SNW3_9HIV1,
 |82291946|sp|Q7SNW1|Q7SNW1_9HIV1,
 |82291408|sp|Q7SIK3|Q7SIK3_9HIV1,
 |82291406|sp|Q7SIJ7|Q7SIJ7_9HIV1,
 |82291404|sp|Q7SIJ4|Q7SIJ4_9HIV1,
 |82291400|sp|Q7SII5|Q7SII5_9HIV1,
 |82291398|sp|Q7SIH9|Q7SIH9_9HIV1,
 |82291330|sp|Q79786|Q79786_9HIV1,
 |82290630|sp|Q77YS9|Q77YS9_9HIV1,
 |82289768|sp|Q76351|Q76351_9HIV1,
 |82289766|sp|Q76349|Q76349_9HIV1,
 |82289618|sp|Q75640|Q75640_9HIV1,
 |82289616|sp|Q75638|Q75638_9HIV1,
 |82289614|sp|Q75635|Q75635_9HIV1,
 |82289612|sp|Q75633|Q75633_9HIV1,
 |82289610|sp|Q75631|Q75631_9HIV1,
 |82289608|sp|Q75629|Q75629_9HIV1,
 |82289606|sp|Q75627|Q75627_9HIV1,
 |82289604|sp|Q75625|Q75625_9HIV1,
 |82289602|sp|Q75623|Q75623_9HIV1,
 |82289600|sp|Q75621|Q75621_9HIV1,

|82292001|sp|Q7SP16|Q7SP16_9HIV1,
 |82291999|sp|Q7SP14|Q7SP14_9HIV1,
 |82291997|sp|Q7SP12|Q7SP12_9HIV1,
 |82291995|sp|Q7SP10|Q7SP10_9HIV1,
 |82291993|sp|Q7SP08|Q7SP08_9HIV1,
 |82291991|sp|Q7SP06|Q7SP06_9HIV1,
 |82291989|sp|Q7SP04|Q7SP04_9HIV1,
 |82291987|sp|Q7SP02|Q7SP02_9HIV1,
 |82291985|sp|Q7SP00|Q7SP00_9HIV1,
 |82291983|sp|Q7SNZ8|Q7SNZ8_9HIV1,
 |82291981|sp|Q7SNZ6|Q7SNZ6_9HIV1,
 |82291979|sp|Q7SNZ4|Q7SNZ4_9HIV1,
 |82291977|sp|Q7SNZ2|Q7SNZ2_9HIV1,
 |82291975|sp|Q7SNZ0|Q7SNZ0_9HIV1,
 |82291973|sp|Q7SNY8|Q7SNY8_9HIV1,
 |82291971|sp|Q7SNY6|Q7SNY6_9HIV1,
 |82291969|sp|Q7SNY4|Q7SNY4_9HIV1,
 |82291967|sp|Q7SNY2|Q7SNY2_9HIV1,
 |82291965|sp|Q7SNY0|Q7SNY0_9HIV1,
 |82291963|sp|Q7SNX8|Q7SNX8_9HIV1,
 |82291961|sp|Q7SNX6|Q7SNX6_9HIV1,
 |82291959|sp|Q7SNX4|Q7SNX4_9HIV1,
 |82291957|sp|Q7SNX2|Q7SNX2_9HIV1,
 |82291955|sp|Q7SNX0|Q7SNX0_9HIV1,
 |82291953|sp|Q7SNW8|Q7SNW8_9HIV1,
 |82291951|sp|Q7SNW6|Q7SNW6_9HIV1,
 |82291949|sp|Q7SNW4|Q7SNW4_9HIV1,
 |82291947|sp|Q7SNW2|Q7SNW2_9HIV1,
 |82291409|sp|Q7SIK4|Q7SIK4_9HIV1,
 |82291407|sp|Q7SIJ9|Q7SIJ9_9HIV1,
 |82291405|sp|Q7SIJ6|Q7SIJ6_9HIV1,
 |82291402|sp|Q7SII9|Q7SII9_9HIV1,
 |82291399|sp|Q7SII0|Q7SII0_9HIV1,
 |82291395|sp|Q7SIH4|Q7SIH4_9HIV1,
 |82291220|sp|Q79671|Q79671_9HIV1,
 |82289769|sp|Q76352|Q76352_9HIV1,
 |82289767|sp|Q76350|Q76350_9HIV1,
 |82289765|sp|Q76348|Q76348_9HIV1,
 |82289617|sp|Q75639|Q75639_9HIV1,
 |82289615|sp|Q75637|Q75637_9HIV1,
 |82289613|sp|Q75634|Q75634_9HIV1,
 |82289611|sp|Q75632|Q75632_9HIV1,
 |82289609|sp|Q75630|Q75630_9HIV1,
 |82289607|sp|Q75628|Q75628_9HIV1,
 |82289605|sp|Q75626|Q75626_9HIV1,
 |82289603|sp|Q75624|Q75624_9HIV1,
 |82289601|sp|Q75622|Q75622_9HIV1,
 |82289551|sp|Q75148|Q75148_9HIV1,

|82289550|sp|Q75147|Q75147_9HIV1,
|82289548|sp|Q75145|Q75145_9HIV1,
|82289546|sp|Q75143|Q75143_9HIV1,
|82289544|sp|Q75141|Q75141_9HIV1,
|82289542|sp|Q75139|Q75139_9HIV1,
|82289540|sp|Q75137|Q75137_9HIV1,
|82289538|sp|Q75135|Q75135_9HIV1,
|82289536|sp|Q75133|Q75133_9HIV1,
|82289534|sp|Q75131|Q75131_9HIV1,
|82289396|sp|Q74460|Q74460_9HIV1,
|82288578|sp|Q71957|Q71957_9HIV1,
|82288576|sp|Q71955|Q71955_9HIV1,
|82288574|sp|Q71953|Q71953_9HIV1,
|82288572|sp|Q71951|Q71951_9HIV1,
|82288570|sp|Q71949|Q71949_9HIV1,
|82288061|sp|Q70151|Q70151_9HIV1,
|82287862|sp|Q6X0I1|Q6X0I1_9HIV1,
|82287860|sp|Q6X0H9|Q6X0H9_9HIV1,
|82287858|sp|Q6X0H7|Q6X0H7_9HIV1,
|82287856|sp|Q6X0H5|Q6X0H5_9HIV1,
|82287854|sp|Q6X0H2|Q6X0H2_9HIV1,
|82287852|sp|Q6X0G9|Q6X0G9_9HIV1,
|82287850|sp|Q6X0G6|Q6X0G6_9HIV1,
|82287848|sp|Q6X0G4|Q6X0G4_9HIV1,
|82287846|sp|Q6X0G2|Q6X0G2_9HIV1,
|82287844|sp|Q6X0G0|Q6X0G0_9HIV1,
|82286786|sp|Q6TEB1|Q6TEB1_9HIV1,
|82286782|sp|Q6TE93|Q6TE93_9HIV1,
|82286778|sp|Q6TE75|Q6TE75_9HIV1,
|82286774|sp|Q6TE57|Q6TE57_9HIV1,
|82285545|sp|Q6QJ02|Q6QJ02_9HIV1,
|82285543|sp|Q6QJ00|Q6QJ00_9HIV1,
|82285541|sp|Q6QIZ8|Q6QIZ8_9HIV1,
|82284709|sp|Q6EK36|Q6EK36_9HIV1,
|82284707|sp|Q6EJW4|Q6EJW4_9HIV1,
|82284705|sp|Q6EJT2|Q6EJT2_9HIV1,
|82284674|sp|Q6E6V3|Q6E6V3_9HIV1,
|82283343|sp|Q5VCV6|Q5VCV6_9HIV1,
|82283339|sp|Q5VCU1|Q5VCU1_9HIV1,
|82283211|sp|Q5S5C8|Q5S5C8_9HIV1,
|82283209|sp|Q5S5B2|Q5S5B2_9HIV1,
|82283207|sp|Q5S592|Q5S592_9HIV1,
|82281649|sp|P90285|P90285_9HIV1,
|82281647|sp|P90281|P90281_9HIV1,
|82281645|sp|P90279|P90279_9HIV1,
|82281591|sp|P89820|P89820_9HIV1,
|82281274|sp|P88433|P88433_9HIV1,
|82281272|sp|P88430|P88430_9HIV1,

|82289549|sp|Q75146|Q75146_9HIV1,
|82289547|sp|Q75144|Q75144_9HIV1,
|82289545|sp|Q75142|Q75142_9HIV1,
|82289543|sp|Q75140|Q75140_9HIV1,
|82289541|sp|Q75138|Q75138_9HIV1,
|82289539|sp|Q75136|Q75136_9HIV1,
|82289537|sp|Q75134|Q75134_9HIV1,
|82289535|sp|Q75132|Q75132_9HIV1,
|82289472|sp|Q74750|Q74750_9HIV1,
|82288892|sp|Q72745|Q72745_9HIV1,
|82288577|sp|Q71956|Q71956_9HIV1,
|82288575|sp|Q71954|Q71954_9HIV1,
|82288573|sp|Q71952|Q71952_9HIV1,
|82288571|sp|Q71950|Q71950_9HIV1,
|82288076|sp|Q70203|Q70203_9HIV1,
|82288060|sp|Q70146|Q70146_9HIV1,
|82287861|sp|Q6X0I0|Q6X0I0_9HIV1,
|82287859|sp|Q6X0H8|Q6X0H8_9HIV1,
|82287857|sp|Q6X0H6|Q6X0H6_9HIV1,
|82287855|sp|Q6X0H4|Q6X0H4_9HIV1,
|82287853|sp|Q6X0H1|Q6X0H1_9HIV1,
|82287851|sp|Q6X0G7|Q6X0G7_9HIV1,
|82287849|sp|Q6X0G5|Q6X0G5_9HIV1,
|82287847|sp|Q6X0G3|Q6X0G3_9HIV1,
|82287845|sp|Q6X0G1|Q6X0G1_9HIV1,
|82287843|sp|Q6X0F9|Q6X0F9_9HIV1,
|82286784|sp|Q6TEA2|Q6TEA2_9HIV1,
|82286780|sp|Q6TE84|Q6TE84_9HIV1,
|82286776|sp|Q6TE66|Q6TE66_9HIV1,
|82285546|sp|Q6QJ03|Q6QJ03_9HIV1,
|82285544|sp|Q6QJ01|Q6QJ01_9HIV1,
|82285542|sp|Q6QIZ9|Q6QIZ9_9HIV1,
|82284710|sp|Q6EK52|Q6EK52_9HIV1,
|82284708|sp|Q6EJZ6|Q6EJZ6_9HIV1,
|82284706|sp|Q6EJU0|Q6EJU0_9HIV1,
|82284704|sp|Q6EJQ8|Q6EJQ8_9HIV1,
|82283785|sp|Q66Q69|Q66Q69_9HIV1,
|82283341|sp|Q5VCU8|Q5VCU8_9HIV1,
|82283336|sp|Q5VCS7|Q5VCS7_9HIV1,
|82283210|sp|Q5S5C0|Q5S5C0_9HIV1,
|82283208|sp|Q5S5A0|Q5S5A0_9HIV1,
|82281650|sp|P90286|P90286_9HIV1,
|82281648|sp|P90284|P90284_9HIV1,
|82281646|sp|P90280|P90280_9HIV1,
|82281592|sp|P89824|P89824_9HIV1,
|82281275|sp|P88435|P88435_9HIV1,
|82281273|sp|P88431|P88431_9HIV1,
|82281271|sp|P88429|P88429_9HIV1,

82281270 sp P88428 P88428_9HIV1,	82281269 sp P88427 P88427_9HIV1,
82281179 sp O93014 O93014_9HIV1,	82281178 sp O93013 O93013_9HIV1,
82281177 sp O93012 O93012_9HIV1,	82281176 sp O93011 O93011_9HIV1,
82281175 sp O93010 O93010_9HIV1,	82281174 sp O93009 O93009_9HIV1,
82281161 sp O92938 O92938_9HIV1,	82281145 sp O92803 O92803_9HIV1,
82281133 sp O92772 O92772_9HIV1,	82281132 sp O92771 O92771_9HIV1,
82280572 sp O90647 O90647_9HIV1,	82280570 sp O90645 O90645_9HIV1,
82280569 sp O90644 O90644_9HIV1,	82280563 sp O90534 O90534_9HIV1,
82280560 sp O90531 O90531_9HIV1,	82280558 sp O90528 O90528_9HIV1,
82280556 sp O90526 O90526_9HIV1,	82280554 sp O90524 O90524_9HIV1,
82280553 sp O90523 O90523_9HIV1,	82280552 sp O90522 O90522_9HIV1,
82280551 sp O90521 O90521_9HIV1,	82280546 sp O90516 O90516_9HIV1,
82280544 sp O90514 O90514_9HIV1,	82280542 sp O90512 O90512_9HIV1,
82280541 sp O90511 O90511_9HIV1,	82280540 sp O90510 O90510_9HIV1,
82280539 sp O90509 O90509_9HIV1,	82280535 sp O90505 O90505_9HIV1,
82280534 sp O90504 O90504_9HIV1,	82280532 sp O90502 O90502_9HIV1,
82280530 sp O90500 O90500_9HIV1,	82280529 sp O90499 O90499_9HIV1,
82280513 sp O90179 O90179_9HIV1,	82280484 sp O90104 O90104_9HIV1 Elongated,
82280482 sp O90097 O90097_9HIV1,	82280480 sp O90089 O90089_9HIV1,
82280478 sp O90080 O90080_9HIV1,	82280476 sp O90071 O90071_9HIV1,
82280474 sp O90063 O90063_9HIV1,	82280473 sp O89964 O89964_9HIV1,
82280472 sp O89961 O89961_9HIV1,	82280471 sp O89945 O89945_9HIV1,
82280469 sp O89938 O89938_9HIV1,	82280467 sp O89932 O89932_9HIV1,
82280427 sp O73573 O73573_9HIV1,	82280426 sp O73570 O73570_9HIV1,
82280314 sp O72652 O72652_9HIV1,	82280313 sp O72651 O72651_9HIV1,
82280312 sp O72650 O72650_9HIV1,	82280311 sp O72649 O72649_9HIV1,
82280310 sp O72648 O72648_9HIV1,	82280309 sp O72647 O72647_9HIV1,
82280308 sp O72646 O72646_9HIV1,	82280307 sp O72645 O72645_9HIV1,
82280306 sp O72644 O72644_9HIV1,	82280305 sp O72643 O72643_9HIV1,
82280304 sp O72642 O72642_9HIV1,	82280303 sp O72640 O72640_9HIV1,
82280302 sp O72639 O72639_9HIV1,	82280301 sp O72638 O72638_9HIV1,
82280300 sp O72637 O72637_9HIV1,	82280299 sp O72636 O72636_9HIV1,
82280298 sp O72635 O72635_9HIV1,	82280297 sp O72634 O72634_9HIV1,
82280296 sp O72633 O72633_9HIV1,	82280295 sp O72632 O72632_9HIV1,
82280294 sp O72631 O72631_9HIV1,	82280293 sp O72630 O72630_9HIV1,
82280292 sp O72629 O72629_9HIV1,	82280291 sp O72628 O72628_9HIV1,
82280290 sp O72627 O72627_9HIV1,	82280289 sp O72626 O72626_9HIV1,
82280288 sp O72625 O72625_9HIV1,	82280287 sp O72624 O72624_9HIV1,
82280286 sp O72623 O72623_9HIV1,	82280285 sp O72622 O72622_9HIV1,
82280284 sp O72621 O72621_9HIV1,	82279875 sp O71127 O71127_9HIV1,
82279874 sp O71126 O71126_9HIV1,	82279873 sp O71125 O71125_9HIV1,
82279872 sp O71124 O71124_9HIV1,	82279868 sp O71087 O71087_9HIV1,
82279867 sp O71086 O71086_9HIV1,	82279866 sp O71085 O71085_9HIV1,
82279706 sp O42068 O42068_9HIV1,	82279630 sp O40603 O40603_9HIV1,
82279629 sp O40602 O40602_9HIV1,	82279628 sp O40601 O40601_9HIV1,
82279627 sp O40600 O40600_9HIV1,	82279626 sp O40599 O40599_9HIV1,
82279625 sp O40598 O40598_9HIV1,	82279624 sp O40597 O40597_9HIV1,
82279623 sp O40596 O40596_9HIV1,	82279622 sp O40595 O40595_9HIV1,

82279621 sp O40594 O40594_9HIV1,	82279620 sp O40593 O40593_9HIV1,
82279619 sp O40592 O40592_9HIV1,	82279618 sp O40591 O40591_9HIV1,
82279617 sp O40590 O40590_9HIV1,	82279616 sp O40589 O40589_9HIV1,
82278692 sp O12165 O12165_9HIV1,	74099689 gb AAZ28907.1 ,
78100208 gb ABB20911.1 ,	74273487 gb ABA01467.1 ,
74273468 gb ABA01450.1 ,	74273478 gb ABA01459.1 ,
74273439 gb ABA01424.1 ,	74273457 gb ABA01440.1 ,
74273409 gb ABA01397.1 ,	74273449 gb ABA01433.1 ,
74273370 gb ABA01363.1 ,	74273429 gb ABA01415.1 ,
74315787 gb ABA02509.1 ,	74273419 gb ABA01406.1 ,
74315757 gb ABA02482.1 ,	74273399 gb ABA01388.1 ,
64310552 gb AAZ41247.1 ,	74273389 gb ABA01379.1 ,
71801566 gb AAZ41739.1 ,	74273366 gb ABA01360.1 ,
71801559 gb AAZ41736.1 ,	74315777 gb ABA02500.1 ,
71801553 gb AAZ41733.1 ,	74315747 gb ABA02473.1 ,
71801544 gb AAZ41730.1 ,	62946408 gb AAZ22385.1 ,
71801538 gb AAZ41727.1 ,	71801564 gb AAZ41738.1 ,
71801532 gb AAZ41724.1 ,	71801557 gb AAZ41735.1 ,
71801526 gb AAZ41721.1 ,	71801551 gb AAZ41732.1 ,
71801520 gb AAZ41718.1 ,	71801542 gb AAZ41729.1 ,
71801514 gb AAZ41715.1 ,	71801540 gb AAZ41728.1 ,
71801508 gb AAZ41712.1 ,	71801536 gb AAZ41726.1 ,
71801502 gb AAZ41709.1 ,	71801530 gb AAZ41723.1 ,
71801495 gb AAZ41706.1 ,	71801524 gb AAZ41720.1 ,
71801488 gb AAZ41703.1 ,	71801518 gb AAZ41717.1 ,
71801482 gb AAZ41700.1 ,	71801512 gb AAZ41714.1 ,
71801476 gb AAZ41697.1 ,	71801506 gb AAZ41711.1 ,
71801470 gb AAZ41694.1 ,	71801500 gb AAZ41708.1 ,
71801464 gb AAZ41691.1 ,	71801497 gb AAZ41707.1 ,
71801458 gb AAZ41688.1 ,	71801492 gb AAZ41705.1 ,
71801452 gb AAZ41685.1 ,	71801490 gb AAZ41704.1 ,
71801445 gb AAZ41682.1 ,	71801486 gb AAZ41702.1 ,
71801439 gb AAZ41679.1 ,	71801484 gb AAZ41701.1 ,
71801432 gb AAZ41676.1 ,	71801480 gb AAZ41699.1 ,
71801426 gb AAZ41673.1 ,	71801478 gb AAZ41698.1 ,
71801417 gb AAZ41670.1 ,	71801474 gb AAZ41696.1 ,
71801405 gb AAZ41667.1 ,	71801472 gb AAZ41695.1 ,
71801399 gb AAZ41664.1 ,	71801468 gb AAZ41693.1 ,
71801393 gb AAZ41661.1 ,	71801466 gb AAZ41692.1 ,
71801387 gb AAZ41658.1 ,	71801462 gb AAZ41690.1 ,
71801381 gb AAZ41655.1 ,	71801460 gb AAZ41689.1 ,
71801375 gb AAZ41652.1 ,	71801456 gb AAZ41687.1 ,
71801369 gb AAZ41649.1 ,	71801454 gb AAZ41686.1 ,
71801362 gb AAZ41646.1 ,	71801452 gb AAZ41685.1 ,
71801354 gb AAZ41643.1 ,	71801448 gb AAZ41683.1 ,
71801348 gb AAZ41640.1 ,	71801445 gb AAZ41682.1 ,
71801341 gb AAZ41637.1 ,	71801443 gb AAZ41681.1 ,
71801332 gb AAZ41634.1 ,	71801439 gb AAZ41679.1 ,
	71801437 gb AAZ41678.1 ,
	71801430 gb AAZ41675.1 ,
	71801424 gb AAZ41672.1 ,
	71801409 gb AAZ41669.1 ,
	71801407 gb AAZ41668.1 ,
	71801403 gb AAZ41666.1 ,
	71801401 gb AAZ41665.1 ,
	71801397 gb AAZ41663.1 ,
	71801395 gb AAZ41662.1 ,
	71801391 gb AAZ41660.1 ,
	71801389 gb AAZ41659.1 ,
	71801385 gb AAZ41657.1 ,
	71801383 gb AAZ41656.1 ,
	71801379 gb AAZ41654.1 ,
	71801377 gb AAZ41653.1 ,
	71801373 gb AAZ41651.1 ,
	71801371 gb AAZ41650.1 ,
	71801367 gb AAZ41648.1 ,
	71801365 gb AAZ41647.1 ,
	71801360 gb AAZ41645.1 ,
	71801357 gb AAZ41644.1 ,
	71801352 gb AAZ41642.1 ,
	71801350 gb AAZ41641.1 ,
	71801346 gb AAZ41639.1 ,
	71801343 gb AAZ41638.1 ,
	71801338 gb AAZ41636.1 ,
	71801334 gb AAZ41635.1 ,
	71801330 gb AAZ41633.1 ,
	71801328 gb AAZ41632.1 ,

71801326 gb AAZ41631.1 ,	71801324 gb AAZ41630.1 ,	71801322 gb AAZ41629.1 ,
71801320 gb AAZ41628.1 ,	71801318 gb AAZ41627.1 ,	71801316 gb AAZ41626.1 ,
71801314 gb AAZ41625.1 ,	71801312 gb AAZ41624.1 ,	71801310 gb AAZ41623.1 ,
71801308 gb AAZ41622.1 ,	71801306 gb AAZ41621.1 ,	71801304 gb AAZ41620.1 ,
71801301 gb AAZ41619.1 ,	71801298 gb AAZ41618.1 ,	71801296 gb AAZ41617.1 ,
71801292 gb AAZ41616.1 ,	71801289 gb AAZ41615.1 ,	71801287 gb AAZ41614.1 ,
71801285 gb AAZ41613.1 ,	71801283 gb AAZ41612.1 ,	71801281 gb AAZ41611.1 ,
71801278 gb AAZ41610.1 ,	71801276 gb AAZ41609.1 ,	71801273 gb AAZ41608.1 ,
71801271 gb AAZ41607.1 ,	71801269 gb AAZ41606.1 ,	71801267 gb AAZ41605.1 ,
71801265 gb AAZ41604.1 ,	71801263 gb AAZ41603.1 ,	71801260 gb AAZ41602.1 ,
71801258 gb AAZ41601.1 ,	71801255 gb AAZ41600.1 ,	71801252 gb AAZ41599.1 ,
71801250 gb AAZ41598.1 ,	71801247 gb AAZ41597.1 ,	71801245 gb AAZ41596.1 ,
71801243 gb AAZ41595.1 ,	71801241 gb AAZ41594.1 ,	71801239 gb AAZ41593.1 ,
71801237 gb AAZ41592.1 ,	71801235 gb AAZ41591.1 ,	71801233 gb AAZ41590.1 ,
71801231 gb AAZ41589.1 ,	71801229 gb AAZ41588.1 ,	71801226 gb AAZ41587.1 ,
71801224 gb AAZ41586.1 ,	71801222 gb AAZ41585.1 ,	71801219 gb AAZ41584.1 ,
71801214 gb AAZ41583.1 ,	71801212 gb AAZ41582.1 ,	71801210 gb AAZ41581.1 ,
71801208 gb AAZ41580.1 ,	71801206 gb AAZ41579.1 ,	71801204 gb AAZ41578.1 ,
71801202 gb AAZ41577.1 ,	71801199 gb AAZ41576.1 ,	71801197 gb AAZ41575.1 ,
71801195 gb AAZ41574.1 ,	71801193 gb AAZ41573.1 ,	71801191 gb AAZ41572.1 ,
71801189 gb AAZ41571.1 ,	71801187 gb AAZ41570.1 ,	71801185 gb AAZ41569.1 ,
71801183 gb AAZ41568.1 ,	71801181 gb AAZ41567.1 ,	71801179 gb AAZ41566.1 ,
71801175 gb AAZ41565.1 ,	71801173 gb AAZ41564.1 ,	71801171 gb AAZ41563.1 ,
71801169 gb AAZ41562.1 ,	71801167 gb AAZ41561.1 ,	71801165 gb AAZ41560.1 ,
71801163 gb AAZ41559.1 ,	71801161 gb AAZ41558.1 ,	71801159 gb AAZ41557.1 ,
71801157 gb AAZ41556.1 ,	71801155 gb AAZ41555.1 ,	71801153 gb AAZ41554.1 ,
71801151 gb AAZ41553.1 ,	71801149 gb AAZ41552.1 ,	71801147 gb AAZ41551.1 ,
71801144 gb AAZ41550.1 ,	71801142 gb AAZ41549.1 ,	71801140 gb AAZ41548.1 ,
71801138 gb AAZ41547.1 ,	71801136 gb AAZ41546.1 ,	71801134 gb AAZ41545.1 ,
71801132 gb AAZ41544.1 ,	71801130 gb AAZ41543.1 ,	71801126 gb AAZ41542.1 ,
71801123 gb AAZ41541.1 ,	71801121 gb AAZ41540.1 ,	71801119 gb AAZ41539.1 ,
71801117 gb AAZ41538.1 ,	71801115 gb AAZ41537.1 ,	71801113 gb AAZ41536.1 ,
71801111 gb AAZ41535.1 ,	71801107 gb AAZ41534.1 ,	71801105 gb AAZ41533.1 ,
71801102 gb AAZ41532.1 ,	71801100 gb AAZ41531.1 ,	71801097 gb AAZ41530.1 ,
71801095 gb AAZ41529.1 ,	71801093 gb AAZ41528.1 ,	71801091 gb AAZ41527.1 ,
71801089 gb AAZ41526.1 ,	71801087 gb AAZ41525.1 ,	71801085 gb AAZ41524.1 ,
71801083 gb AAZ41523.1 ,	71801078 gb AAZ41522.1 ,	71801076 gb AAZ41521.1 ,
71801074 gb AAZ41520.1 ,	71801072 gb AAZ41519.1 ,	71801070 gb AAZ41518.1 ,
71801068 gb AAZ41517.1 ,	71801066 gb AAZ41516.1 ,	71801064 gb AAZ41515.1 ,
71801061 gb AAZ41514.1 ,	71801059 gb AAZ41513.1 ,	71801057 gb AAZ41512.1 ,
71801055 gb AAZ41511.1 ,	71801053 gb AAZ41510.1 ,	71801051 gb AAZ41509.1 ,
71801049 gb AAZ41508.1 ,	71801045 gb AAZ41507.1 ,	71801043 gb AAZ41506.1 ,
71801040 gb AAZ41505.1 ,	71801038 gb AAZ41504.1 ,	71801036 gb AAZ41503.1 ,
71801034 gb AAZ41502.1 ,	71801032 gb AAZ41501.1 ,	71801030 gb AAZ41500.1 ,
71801028 gb AAZ41499.1 ,	71801026 gb AAZ41498.1 ,	71801024 gb AAZ41497.1 ,
71801022 gb AAZ41496.1 ,	71801020 gb AAZ41495.1 ,	71801018 gb AAZ41494.1 ,
71801016 gb AAZ41493.1 ,	71801014 gb AAZ41492.1 ,	71801012 gb AAZ41491.1 ,
71801008 gb AAZ41490.1 ,	71801004 gb AAZ41489.1 ,	71801001 gb AAZ41488.1 ,

71800999 gb AAZ41487.1 ,	71800997 gb AAZ41486.1 ,	71800995 gb AAZ41485.1 ,
71800993 gb AAZ41484.1 ,	71800990 gb AAZ41483.1 ,	71800988 gb AAZ41482.1 ,
71800986 gb AAZ41481.1 ,	71800982 gb AAZ41480.1 ,	71800980 gb AAZ41479.1 ,
71800978 gb AAZ41478.1 ,	71800976 gb AAZ41477.1 ,	71800974 gb AAZ41476.1 ,
71800972 gb AAZ41475.1 ,	71800969 gb AAZ41474.1 ,	71800966 gb AAZ41473.1 ,
71800964 gb AAZ41472.1 ,	71800962 gb AAZ41471.1 ,	71800957 gb AAZ41470.1 ,
71800954 gb AAZ41469.1 ,	71800952 gb AAZ41468.1 ,	71800950 gb AAZ41467.1 ,
71800948 gb AAZ41466.1 ,	71800946 gb AAZ41465.1 ,	71800944 gb AAZ41464.1 ,
71800942 gb AAZ41463.1 ,	71800940 gb AAZ41462.1 ,	71800938 gb AAZ41461.1 ,
71800936 gb AAZ41460.1 ,	71800932 gb AAZ41459.1 ,	71800930 gb AAZ41458.1 ,
71800928 gb AAZ41457.1 ,	71800926 gb AAZ41456.1 ,	71800924 gb AAZ41455.1 ,
71800922 gb AAZ41454.1 ,	71800920 gb AAZ41453.1 ,	71800918 gb AAZ41452.1 ,
71800916 gb AAZ41451.1 ,	71800914 gb AAZ41450.1 ,	71800912 gb AAZ41449.1 ,
71800910 gb AAZ41448.1 ,	71800908 gb AAZ41447.1 ,	71800905 gb AAZ41446.1 ,
71800902 gb AAZ41445.1 ,	71800899 gb AAZ41444.1 ,	71800897 gb AAZ41443.1 ,
71800895 gb AAZ41442.1 ,	71800892 gb AAZ41441.1 ,	71800888 gb AAZ41440.1 ,
71800886 gb AAZ41439.1 ,	71800881 gb AAZ41438.1 ,	71800879 gb AAZ41437.1 ,
71800876 gb AAZ41436.1 ,	71800874 gb AAZ41435.1 ,	71800872 gb AAZ41434.1 ,
71800870 gb AAZ41433.1 ,	71800868 gb AAZ41432.1 ,	71800866 gb AAZ41431.1 ,
71800864 gb AAZ41430.1 ,	71800862 gb AAZ41429.1 ,	71800858 gb AAZ41428.1 ,
71800856 gb AAZ41427.1 ,	71800854 gb AAZ41426.1 ,	71800852 gb AAZ41425.1 ,
71800849 gb AAZ41424.1 ,	71800847 gb AAZ41423.1 ,	71800845 gb AAZ41422.1 ,
71800843 gb AAZ41421.1 ,	71800841 gb AAZ41420.1 ,	71800839 gb AAZ41419.1 ,
71800837 gb AAZ41418.1 ,	71800834 gb AAZ41417.1 ,	71800832 gb AAZ41416.1 ,
71800830 gb AAZ41415.1 ,	71800827 gb AAZ41414.1 ,	71800825 gb AAZ41413.1 ,
71800822 gb AAZ41412.1 ,	71800820 gb AAZ41411.1 ,	71800818 gb AAZ41410.1 ,
71800815 gb AAZ41409.1 ,	71800813 gb AAZ41408.1 ,	71800811 gb AAZ41407.1 ,
71800809 gb AAZ41406.1 ,	71800804 gb AAZ41405.1 ,	71800802 gb AAZ41404.1 ,
71800800 gb AAZ41403.1 ,	71800798 gb AAZ41402.1 ,	71800796 gb AAZ41401.1 ,
71800792 gb AAZ41400.1 ,	71800788 gb AAZ41399.1 ,	71800785 gb AAZ41398.1 ,
71800783 gb AAZ41397.1 ,	71800780 gb AAZ41396.1 ,	71800776 gb AAZ41395.1 ,
71800774 gb AAZ41394.1 ,	71800772 gb AAZ41393.1 ,	71800770 gb AAZ41392.1 ,
71800768 gb AAZ41391.1 ,	71800766 gb AAZ41390.1 ,	71800764 gb AAZ41389.1 ,
71800762 gb AAZ41388.1 ,	71800760 gb AAZ41387.1 ,	71800758 gb AAZ41386.1 ,
71800756 gb AAZ41385.1 ,	57869736 gb AAW57769.1 ,	57869727 gb AAW57761.1 ,
57869718 gb AAW57753.1 ,	57869709 gb AAW57745.1 ,	57869701 gb AAW57738.1 ,
57869691 gb AAW57729.1 ,	57869682 gb AAW57721.1 ,	57869672 gb AAW57712.1 ,
57869662 gb AAW57703.1 ,	57869652 gb AAW57694.1 ,	57869642 gb AAW57685.1 ,
57869633 gb AAW57677.1 ,	57869625 gb AAW57670.1 ,	57869615 gb AAW57661.1 ,
57869606 gb AAW57653.1 ,	57869596 gb AAW57644.1 ,	57869587 gb AAW57636.1 ,
57869577 gb AAW57627.1 ,	57869567 gb AAW57618.1 ,	57869559 gb AAW57611.1 ,
57869550 gb AAW57603.1 ,	18699244 gb AAL78486.1 AF414005_2,	
18699176 gb AAL78441.1 AF413982_4,	18699168 gb AAL78434.1 AF413981_1,	
18699164 gb AAL78431.1 AF413980_2,		60218872 gb AAX14850.1 ,
55740262 gb AAV63833.1 ,	55740253 gb AAV63825.1 ,	55740244 gb AAV63817.1 ,
55740234 gb AAV63808.1 ,	45361207 gb AAS59398.1 ,	45361195 gb AAS59389.1 ,
45361174 gb AAS59378.1 ,	45361154 gb AAS59366.1 ,	45361143 gb AAS59358.1 ,
45361131 gb AAS59349.1 ,	45361121 gb AAS59340.1 ,	45361109 gb AAS59331.1 ,

45361097 gb AAS59322.1 ,	45361083 gb AAS59313.1 ,	45361073 gb AAS59304.1 ,
62467722 gb AAX83975.1 ,	62467711 gb AAX83965.1 ,	62467701 gb AAX83956.1 ,
52421751 gb AAU45387.1 ,	52421740 gb AAU45379.1 ,	62467694 gb AAX83950.1 ,
51950728 gb AAU14920.1 ,	51950718 gb AAU14911.1 ,	3724197 emb CAA77077.1 ,
2570005 emb CAA75393.1 ,	2570003 emb CAA75392.1 ,	2570001 emb CAA75391.1 ,
2569999 emb CAA75390.1 ,	2569997 emb CAA75389.1 ,	2569995 emb CAA75388.1 ,
2569993 emb CAA75387.1 ,	60124 emb CAA44770.1 ,	60122 emb CAA44769.1 ,
60120 emb CAA44768.1 ,	60118 emb CAA44767.1 ,	21425747 emb CAD23405.1 ,
21425745 emb CAD23404.1 ,	21425743 emb CAD23403.1 ,	21425741 emb CAD23402.1 ,
21425739 emb CAD23401.1 ,	21425737 emb CAD23400.1 ,	21425735 emb CAD23399.1 ,
21425733 emb CAD23398.1 ,	21425731 emb CAD23397.1 ,	21425729 emb CAD23396.1 ,
21425727 emb CAD23395.1 ,	21425725 emb CAD23394.1 ,	21425723 emb CAD23393.1 ,
21425721 emb CAD23392.1 ,	21425719 emb CAD23391.1 ,	21425717 emb CAD23390.1 ,
21425715 emb CAD23389.1 ,	21425713 emb CAD23388.1 ,	21425711 emb CAD23387.1 ,
21425709 emb CAD23386.1 ,	21425707 emb CAD23385.1 ,	21425705 emb CAD23384.1 ,
21425703 emb CAD23383.1 ,	21425701 emb CAD23382.1 ,	21425699 emb CAD23381.1 ,
21425697 emb CAD23380.1 ,	21425695 emb CAD23379.1 ,	6093160 emb CAB58991.1 ,
6093155 emb CAB58987.1 ,	6093150 emb CAB58983.1 ,	6093145 emb CAB58979.1 ,
6093140 emb CAB59010.1 ,	5763680 emb CAB53243.1 ,	3288397 emb CAA06817.1 ,
26000282 gb AAN75315.1 ,	26000272 gb AAN75306.1 ,	26000262 gb AAN75297.1 ,
25167058 gb AAN73824.1 AF484520_8,	25167048 gb AAN73815.1 AF484519_8,	
25167038 gb AAN73806.1 AF484518_8,	25167028 gb AAN73797.1 AF484517_8,	
25167018 gb AAN73788.1 AF484516_8,	25167008 gb AAN73779.1 AF484515_8,	
25166998 gb AAN73770.1 AF484514_8,	25166988 gb AAN73761.1 AF484513_8,	
25166978 gb AAN73752.1 AF484512_8,	25166968 gb AAN73743.1 AF484511_8,	
25166958 gb AAN73734.1 AF484510_8,	25166948 gb AAN73725.1 AF484509_8,	
25166938 gb AAN73716.1 AF484508_8,	25166928 gb AAN73707.1 AF484507_8,	
25166918 gb AAN73698.1 AF484506_8,	25166898 gb AAN73680.1 AF484504_8,	
25166888 gb AAN73671.1 AF484503_8,	25166868 gb AAN73653.1 AF484501_8,	
25166858 gb AAN73644.1 AF484500_8,	25166848 gb AAN73635.1 AF484499_8,	
25166838 gb AAN73626.1 AF484498_8,	25166828 gb AAN73617.1 AF484497_8,	
25166818 gb AAN73608.1 AF484496_8,	25166808 gb AAN73599.1 AF484495_8,	
25166798 gb AAN73590.1 AF484494_8,	25166788 gb AAN73581.1 AF484493_8,	
25166778 gb AAN73572.1 AF484492_8,	25166768 gb AAN73563.1 AF484491_8,	
25166758 gb AAN73554.1 AF484490_8,	25166748 gb AAN73545.1 AF484489_8,	
25166738 gb AAN73536.1 AF484488_8,	25166728 gb AAN73527.1 AF484487_8,	
25166718 gb AAN73518.1 AF484486_8,	25166708 gb AAN73509.1 AF484485_8,	
25166696 gb AAN73499.1 AF484483_8,	25166686 gb AAN73490.1 AF484482_8,	
25166676 gb AAN73481.1 AF484481_8,	25166666 gb AAN73472.1 AF484480_8,	
25166656 gb AAN73463.1 AF484479_8,	25166646 gb AAN73454.1 AF484478_8,	
25166637 gb AAN73446.1 AF484477_9,		23194115 gb AAN15023.1 ,
41353560 gb AAS01347.1 ,	55736001 gb AAV59729.1 ,	55735992 gb AAV59721.1 ,
55735983 gb AAV59713.1 ,	55735974 gb AAV59705.1 ,	55735965 gb AAV59697.1 ,
55735956 gb AAV59689.1 ,	45644397 gb AAS72951.1 ,	36365551 gb AAQ86754.1 ,
36365542 gb AAQ86746.1 ,	36365533 gb AAQ86738.1 ,	36365524 gb AAQ86730.1 ,
36365515 gb AAQ86722.1 ,	36365506 gb AAQ86714.1 ,	36365497 gb AAQ86706.1 ,
36365488 gb AAQ86698.1 ,	36365479 gb AAQ86690.1 ,	36365470 gb AAQ86682.1 ,
36365461 gb AAQ86674.1 ,	36365452 gb AAQ86666.1 ,	36365443 gb AAQ86658.1 ,

36365434 gb AAQ86650.1 ,	36365425 gb AAQ86642.1 ,	36365416 gb AAQ86634.1 ,
36365407 gb AAQ86626.1 ,	36365398 gb AAQ86618.1 ,	36365389 gb AAQ86610.1 ,
36365380 gb AAQ86602.1 ,	56193031 gb AAV84126.1 ,	56131608 gb AAV80388.1 ,
46946866 gb AAT06654.1 ,	46946850 gb AAT06640.1 ,	46946842 gb AAT06633.1 ,
46946833 gb AAT06625.1 ,	40021889 gb AAR37199.1 ,	40021879 gb AAR37192.1 ,
40021869 gb AAR37185.1 ,	40021859 gb AAR37178.1 ,	40021849 gb AAR37171.1 ,
40021839 gb AAR37164.1 ,	40021829 gb AAR37157.1 ,	40021819 gb AAR37150.1 ,
40021809 gb AAR37143.1 ,	40021799 gb AAR37136.1 ,	40021789 gb AAR37129.1 ,
40021779 gb AAR37122.1 ,	40021769 gb AAR37115.1 ,	40021759 gb AAR37108.1 ,
40021749 gb AAR37101.1 ,	40021739 gb AAR37094.1 ,	40021729 gb AAR37087.1 ,
40021719 gb AAR37080.1 ,	40021709 gb AAR37073.1 ,	40021699 gb AAR37066.1 ,
47027396 gb AAT08776.1 ,	29409334 gb AAM67410.1 ,	29409322 gb AAM67400.1 ,
29409307 gb AAM67386.1 ,	29409303 gb AAM67383.1 ,	39777442 gb AAR31018.1 ,
39777432 gb AAR31009.1 ,	39777422 gb AAR31000.1 ,	39777412 gb AAR30991.1 ,
39777402 gb AAR30982.1 ,	39777392 gb AAR30973.1 ,	39777382 gb AAR30964.1 ,
38426984 gb AAR20515.1 ,	38426982 gb AAR20514.1 ,	38426980 gb AAR20513.1 ,
38426978 gb AAR20512.1 ,	38426976 gb AAR20511.1 ,	38426974 gb AAR20510.1 ,
38426972 gb AAR20509.1 ,	38426970 gb AAR20508.1 ,	38426968 gb AAR20507.1 ,
38426966 gb AAR20506.1 truncated,		38426964 gb AAR20505.1 ,
38426962 gb AAR20504.1 ,	38426960 gb AAR20503.1 ,	38426958 gb AAR20502.1 ,
38426956 gb AAR20501.1 ,	38491944 gb AAR22307.1 ,	38491934 gb AAR22298.1 ,
38491923 gb AAR22288.1 ,	38491914 gb AAR22280.1 ,	38491907 gb AAR22274.1 ,
38491897 gb AAR22265.1 ,	38491888 gb AAR22257.1 ,	38491878 gb AAR22248.1 ,
38491868 gb AAR22239.1 ,	38491858 gb AAR22230.1 ,	38491849 gb AAR22222.1 ,
38491839 gb AAR22213.1 ,	38491829 gb AAR22204.1 ,	38491819 gb AAR22195.1 ,
38491809 gb AAR22186.1 ,	38491799 gb AAR22177.1 ,	38491789 gb AAR22168.1 ,
38491779 gb AAR22159.1 ,	38491769 gb AAR22150.1 ,	38491762 gb AAR22144.1 ,
38491752 gb AAR22135.1 ,	38491742 gb AAR22126.1 ,	38491731 gb AAR22117.1 ,
38491721 gb AAR22108.1 ,	38491711 gb AAR22099.1 ,	38491695 gb AAR22085.1 ,
38491676 gb AAR22068.1 ,	38491666 gb AAR22059.1 ,	38491656 gb AAR22050.1 ,
38491646 gb AAR22041.1 ,	38491636 gb AAR22032.1 ,	38491626 gb AAR22023.1 ,
38491613 gb AAR22012.1 ,	38491603 gb AAR22003.1 ,	38491594 gb AAR21995.1 ,
38491584 gb AAR21986.1 ,	38491574 gb AAR21977.1 ,	38491564 gb AAR21968.1 ,
38491554 gb AAR21959.1 ,	38491544 gb AAR21950.1 ,	38491534 gb AAR21941.1 ,
38491527 gb AAR21935.1 ,	38491508 gb AAR21918.1 ,	38491498 gb AAR21909.1 ,
38491488 gb AAR21900.1 ,	37683045 gb AAQ98601.1 ,	37683035 gb AAQ98592.1 ,
37683025 gb AAQ98583.1 ,	37683015 gb AAQ98574.1 ,	37683006 gb AAQ98566.1 ,
37682996 gb AAQ98557.1 ,	37682986 gb AAQ98548.1 ,	37682976 gb AAQ98539.1 ,
37682966 gb AAQ98530.1 ,	37682956 gb AAQ98521.1 ,	37682946 gb AAQ98512.1 ,
37682936 gb AAQ98503.1 ,	37682926 gb AAQ98494.1 ,	37682918 gb AAQ98487.1 ,
37682908 gb AAQ98478.1 ,	37682897 gb AAQ98469.1 ,	37682887 gb AAQ98460.1 ,
37682869 gb AAQ98446.1 ,	37682859 gb AAQ98437.1 ,	37682849 gb AAQ98428.1 ,
37682839 gb AAQ98419.1 ,	37682829 gb AAQ98410.1 ,	37682819 gb AAQ98401.1 ,
37682809 gb AAQ98392.1 ,	37682799 gb AAQ98383.1 ,	37682789 gb AAQ98374.1 ,
37682779 gb AAQ98365.1 ,	37682769 gb AAQ98356.1 ,	37682759 gb AAQ98347.1 ,
37682749 gb AAQ98338.1 ,	37682739 gb AAQ98329.1 ,	37682729 gb AAQ98320.1 ,
37682719 gb AAQ98311.1 ,	37682709 gb AAQ98302.1 ,	33331483 gb AAQ10927.1 ,
33331473 gb AAQ10918.1 ,	33331463 gb AAQ10909.1 ,	44194557 gb AAS46887.1 ,

44194555 gb AAS46886.1 ,	44194553 gb AAS46885.1 ,	44194551 gb AAS46884.1 ,
44194549 gb AAS46883.1 ,	44194547 gb AAS46882.1 ,	44194545 gb AAS46881.1 ,
4336345 gb AAD17771.1 ,	4336336 gb AAD17762.1 ,	22003835 gb AAM88881.1 ,
22003833 gb AAM88880.1 ,	22003831 gb AAM88879.1 ,	22003829 gb AAM88878.1 ,
22003827 gb AAM88877.1 ,	22003825 gb AAM88876.1 ,	22003823 gb AAM88875.1 ,
22003821 gb AAM88874.1 ,	22003819 gb AAM88873.1 ,	22003815 gb AAM88872.1 ,
22003813 gb AAM88871.1 ,	22003811 gb AAM88870.1 ,	37935587 gb AAO65560.1 ,
37909408 gb AAO65569.1 ,	37935987 gb AAO47224.1 ,	37935977 gb AAO47215.1 ,
37935967 gb AAO47206.1 ,	37935958 gb AAO47198.1 ,	37935948 gb AAO47189.1 ,
37935938 gb AAO47180.1 ,	37935928 gb AAO47171.1 ,	37935918 gb AAO47162.1 ,
37935907 gb AAO47153.1 ,	37935898 gb AAO47145.1 ,	37935887 gb AAO47136.1 ,
37935878 gb AAO47128.1 ,	37935868 gb AAO47119.1 ,	37935858 gb AAO47110.1 ,
37935848 gb AAO47101.1 ,	30269373 gb AAP29651.1 ,	37725246 gb AAR02309.1 ,
34811841 gb AAO40784.1 ,		32189806 gb AAP75717.1 ,
28933410 gb AAO62624.1	AF468970_9,	23394933 gb AAN31654.1 ,
23394926 gb AAN31648.1 ,	33390887 gb AAQ17106.1 ,	32344854 gb AAM82309.1 ,
32344844 gb AAM82300.1 ,	33328328 gb AAQ09617.1 ,	33328206 gb AAQ09554.1 ,
33328196 gb AAQ09545.1 ,	30720414 gb AAP33682.1 ,	25807938 gb AAN74525.1 ,
25807928 gb AAN74516.1 ,	29119350 gb AAO63263.1 ,	29119337 gb AAO63251.1 ,
29119332 gb AAO63247.1 ,	29119323 gb AAO63239.1 ,	29119313 gb AAO63230.1 ,
29119304 gb AAO63222.1 ,	29119294 gb AAO63213.1 ,	29119284 gb AAO63204.1 ,
29119274 gb AAO63195.1 ,	29119262 gb AAO63184.1 ,	29293587 gb AAO72220.1 ,
29293585 gb AAO72219.1 ,	29293583 gb AAO72218.1 ,	29293581 gb AAO72217.1 ,
29293578 gb AAO72216.1 ,	29293576 gb AAO72215.1 ,	29293573 gb AAO72214.1 ,
29293571 gb AAO72213.1 ,	29293569 gb AAO72212.1 ,	29293567 gb AAO72211.1 ,
29293564 gb AAO72210.1 ,	29293562 gb AAO72209.1 ,	29293560 gb AAO72208.1 ,
29293558 gb AAO72207.1 ,	29293556 gb AAO72206.1 ,	29293554 gb AAO72205.1 ,
29293552 gb AAO72204.1 ,	29293550 gb AAO72203.1 ,	29293548 gb AAO72202.1 ,
29293546 gb AAO72201.1 ,	29293544 gb AAO72200.1 ,	29293542 gb AAO72199.1 ,
29293540 gb AAO72198.1 ,	29293538 gb AAO72197.1 ,	29293536 gb AAO72196.1 ,
29293532 gb AAO72195.1 ,	29293530 gb AAO72194.1 ,	29293528 gb AAO72193.1 ,
29293526 gb AAO72192.1 ,	29293524 gb AAO72191.1 ,	29293522 gb AAO72190.1 ,
29293519 gb AAO72189.1 ,	29293517 gb AAO72188.1 ,	29293511 gb AAO72187.1 ,
29293509 gb AAO72186.1 ,	29293507 gb AAO72185.1 ,	29293505 gb AAO72184.1 ,
29293503 gb AAO72183.1 ,	29293501 gb AAO72182.1 ,	29293499 gb AAO72181.1 ,
29293497 gb AAO72180.1 ,	29293495 gb AAO72179.1 ,	29293493 gb AAO72178.1 ,
29293491 gb AAO72177.1 ,	29293489 gb AAO72176.1 ,	29293487 gb AAO72175.1 ,
29293485 gb AAO72174.1 ,	29293483 gb AAO72173.1 ,	29293480 gb AAO72172.1 ,
29293478 gb AAO72171.1 ,	29293476 gb AAO72170.1 ,	29293474 gb AAO72169.1 ,
29293472 gb AAO72168.1 ,	29293470 gb AAO72167.1 ,	29293468 gb AAO72166.1 ,
29293466 gb AAO72165.1 ,	29293464 gb AAO72164.1 ,	29293460 gb AAO72163.1 ,
29293458 gb AAO72162.1 ,	26518645 gb AAN83919.1 ,	22074615 gb AAL82562.1 ,
22074598 gb AAL82561.1 ,	22074595 gb AAL82560.1 ,	22074593 gb AAL82559.1 ,
22074590 gb AAL82558.1 ,	22074586 gb AAL82557.1 ,	22074582 gb AAL82556.1 ,
22074577 gb AAL82555.1 ,	22074572 gb AAL82554.1 ,	22074565 gb AAL82553.1 ,
22074561 gb AAL82552.1 ,	22074557 gb AAL82551.1 ,	22074554 gb AAL82550.1 ,
22074550 gb AAL82549.1 ,	22074546 gb AAL82548.1 ,	22074542 gb AAL82547.1 ,
22074539 gb AAL82546.1 ,	22074535 gb AAL82545.1 ,	22074529 gb AAL82544.1 ,

22074520 gb AAL82543.1 ,	22074458 gb AAL82542.1 ,	22074454 gb AAL82541.1 ,
24754012 gb AAN64130.1 ,	24754002 gb AAN64121.1 ,	24753991 gb AAN64112.1 ,
24753980 gb AAN64103.1 ,	24753969 gb AAN64094.1 ,	24753958 gb AAN64085.1 ,
24181516 gb AAN47135.1 ,	24181506 gb AAN47126.1 ,	24181496 gb AAN47117.1 ,
24181486 gb AAN47108.1 ,	22596582 gb AAN03336.1 AF457090_9,	
22596572 gb AAN03327.1 AF457089_9,	22596562 gb AAN03318.1 AF457088_9,	
22596552 gb AAN03309.1 AF457087_9,	22596542 gb AAN03300.1 AF457086_9,	
22596532 gb AAN03291.1 AF457085_9,	22596522 gb AAN03282.1 AF457084_9,	
22596512 gb AAN03273.1 AF457083_9,	22596502 gb AAN03264.1 AF457082_9,	
22596492 gb AAN03255.1 AF457081_9,	22596482 gb AAN03246.1 AF457080_9,	
22596472 gb AAN03237.1 AF457079_9,	22596462 gb AAN03228.1 AF457078_9,	
22596452 gb AAN03219.1 AF457077_9,	22596439 gb AAN03208.1 AF457075_9,	
22596427 gb AAN03198.1 AF457073_9,	22596417 gb AAN03189.1 AF457072_9,	
22596406 gb AAN03180.1 AF457070_9,	22596396 gb AAN03171.1 AF457069_9,	
22596386 gb AAN03162.1 AF457068_9,	22596376 gb AAN03153.1 AF457067_9,	
22596366 gb AAN03144.1 AF457066_9,	22596356 gb AAN03135.1 AF457065_9,	
22596346 gb AAN03126.1 AF457064_9,	22596336 gb AAN03117.1 AF457063_9,	
22596326 gb AAN03108.1 AF457062_9,	22596316 gb AAN03099.1 AF457061_9,	
22596306 gb AAN03090.1 AF457060_4,	22596301 gb AAN03086.1 AF457059_9,	
22596291 gb AAN03077.1 AF457058_9,	22596280 gb AAN03068.1 AF457056_9,	
22596270 gb AAN03059.1 AF457055_9,	22596260 gb AAN03050.1 AF457054_9,	
22596250 gb AAN03041.1 AF457053_9,	22596240 gb AAN03032.1 AF457052_9,	
22596230 gb AAN03023.1 AF457051_9,	20513087 gb AAM21153.1 ,	
2286141 gb AAB64287.1 ,	2286132 gb AAB64279.1 ,	17902156 gb AAL47819.1 ,
17902145 gb AAL47810.1 ,	17902134 gb AAL47801.1 ,	17902123 gb AAL47792.1 ,
17902112 gb AAL47783.1 ,	17902101 gb AAL47774.1 ,	17864059 gb AAL47052.1 ,
17864049 gb AAL47043.1 ,	17864039 gb AAL47034.1 ,	
22532300 gb AAM97893.1 AF492624_9,	22532290 gb AAM97884.1 AF492623_9,	
22532148 gb AAM97859.1 AF460974_9,	22532139 gb AAM97851.1 AF460972_9,	
22297048 gb AAM94504.1 ,	902807 gb AAB60579.1 ,	818223 gb AAB47935.1 ,
463064 gb AAA99884.1 ,	328908 gb AAA75023.1 ,	71726050 gb AAZ39178.1 ,
71726040 gb AAZ39169.1 ,	71726030 gb AAZ39160.1 ,	71726020 gb AAZ39151.1 ,
71726010 gb AAZ39142.1 ,	71726000 gb AAZ39133.1 ,	71725990 gb AAZ39124.1 ,
71725980 gb AAZ39115.1 ,	71725970 gb AAZ39106.1 ,	71725960 gb AAZ39097.1 ,
83026821 gb ABB96456.1 ,	83026813 gb ABB96449.1 ,	83026803 gb ABB96440.1 ,
83026793 gb ABB96431.1 ,	83026783 gb ABB96422.1 ,	62461844 gb AAX83060.1 ,
82571414 gb ABB84171.1 ,	82571404 gb ABB84162.1 ,	82571393 gb ABB84152.1 ,
82571385 gb ABB84145.1 ,	82571377 gb ABB84138.1 ,	82571367 gb ABB84129.1 ,
82571357 gb ABB84120.1 ,	82571347 gb ABB84111.1 ,	82571337 gb ABB84102.1 ,
82571327 gb ABB84093.1 ,	82571317 gb ABB84084.1 ,	82571307 gb ABB84075.1 ,
82571297 gb ABB84066.1 ,	82571287 gb ABB84057.1 ,	82571277 gb ABB84048.1 ,
82571267 gb ABB84039.1 ,	82571258 gb ABB84031.1 ,	82571248 gb ABB84022.1 ,
82571238 gb ABB84013.1 ,	82571228 gb ABB84004.1 ,	82571218 gb ABB83995.1 ,
82571209 gb ABB83987.1 ,	82571199 gb ABB83978.1 ,	55560594 gb AAV53165.1 ,
55560592 gb AAV53164.1 ,	55560590 gb AAV53163.1 ,	55560588 gb AAV53162.1 ,
55560586 gb AAV53161.1 ,	55560584 gb AAV53160.1 ,	55560582 gb AAV53159.1 ,
55560580 gb AAV53158.1 ,	55560578 gb AAV53157.1 ,	55560576 gb AAV53156.1 ,
55560574 gb AAV53155.1 ,	55560572 gb AAV53154.1 ,	55560570 gb AAV53153.1 ,

55560568 gb AAV53152.1 ,	55560566 gb AAV53151.1 ,	55560564 gb AAV53150.1 ,
55560562 gb AAV53149.1 ,	55560560 gb AAV53148.1 ,	55560558 gb AAV53147.1 ,
55560556 gb AAV53146.1 ,	55560554 gb AAV53145.1 ,	55560552 gb AAV53144.1 ,
55560550 gb AAV53143.1 ,	55560547 gb AAV53142.1 ,	55560545 gb AAV53141.1 ,
55560543 gb AAV53140.1 ,	55560541 gb AAV53139.1 ,	55560539 gb AAV53138.1 ,
55560537 gb AAV53137.1 ,	55560535 gb AAV53136.1 ,	55560533 gb AAV53135.1 ,
55560531 gb AAV53134.1 ,	55560529 gb AAV53133.1 ,	55560527 gb AAV53132.1 ,
55560525 gb AAV53131.1 ,	55560523 gb AAV53130.1 ,	55560521 gb AAV53129.1 ,
55560519 gb AAV53128.1 ,	55560517 gb AAV53127.1 ,	55560515 gb AAV53126.1 ,
55560513 gb AAV53125.1 ,	55560511 gb AAV53124.1 ,	55560509 gb AAV53123.1 ,
55560507 gb AAV53122.1 ,	55560505 gb AAV53121.1 ,	55560503 gb AAV53120.1 ,
55560501 gb AAV53119.1 ,	55560499 gb AAV53118.1 ,	55560497 gb AAV53117.1 ,
55560495 gb AAV53116.1 ,	55560493 gb AAV53115.1 ,	55560491 gb AAV53114.1 ,
55560489 gb AAV53113.1 ,	55560487 gb AAV53112.1 ,	55560485 gb AAV53111.1 ,
55560483 gb AAV53110.1 ,	55560481 gb AAV53109.1 ,	55560479 gb AAV53108.1 ,
55560477 gb AAV53107.1 ,	55560475 gb AAV53106.1 ,	55560473 gb AAV53105.1 ,
55560471 gb AAV53104.1 ,	55560469 gb AAV53103.1 ,	55560467 gb AAV53102.1 ,
55560465 gb AAV53101.1 ,	55560463 gb AAV53100.1 ,	55560461 gb AAV53099.1 ,
55560459 gb AAV53098.1 ,	55560457 gb AAV53097.1 ,	55560455 gb AAV53096.1 ,
55560453 gb AAV53095.1 ,	55560451 gb AAV53094.1 ,	55560449 gb AAV53093.1 ,
55560447 gb AAV53092.1 ,	55560445 gb AAV53091.1 ,	55560443 gb AAV53090.1 ,
55560441 gb AAV53089.1 ,	55560439 gb AAV53088.1 ,	55560437 gb AAV53087.1 ,
55560435 gb AAV53086.1 ,	55560433 gb AAV53085.1 ,	55560431 gb AAV53084.1 ,
55560429 gb AAV53083.1 ,	55560427 gb AAV53082.1 ,	55560424 gb AAV53081.1 ,
55560422 gb AAV53080.1 ,	55560420 gb AAV53079.1 ,	55560418 gb AAV53078.1 ,
55560416 gb AAV53077.1 ,	55560414 gb AAV53076.1 ,	55560412 gb AAV53075.1 ,
55560410 gb AAV53074.1 ,	55560408 gb AAV53073.1 ,	55560406 gb AAV53072.1 ,
55560403 gb AAV53071.1 ,	55560401 gb AAV53070.1 ,	55560399 gb AAV53069.1 ,
55560397 gb AAV53068.1 ,	55560395 gb AAV53067.1 ,	55560393 gb AAV53066.1 ,
55560391 gb AAV53065.1 ,	55560389 gb AAV53064.1 ,	55560387 gb AAV53063.1 ,
55560385 gb AAV53062.1 ,	55560383 gb AAV53061.1 ,	55560381 gb AAV53060.1 ,
55560379 gb AAV53059.1 ,	55560377 gb AAV53058.1 ,	55560375 gb AAV53057.1 ,
55560373 gb AAV53056.1 ,	55560371 gb AAV53055.1 ,	55560369 gb AAV53054.1 ,
55560366 gb AAV53053.1 ,	55560364 gb AAV53052.1 ,	55560362 gb AAV53051.1 ,
55560360 gb AAV53050.1 ,	55560358 gb AAV53049.1 ,	55560356 gb AAV53048.1 ,
55560354 gb AAV53047.1 ,	55560352 gb AAV53046.1 ,	55560350 gb AAV53045.1 ,
55560348 gb AAV53044.1 ,	55560346 gb AAV53043.1 ,	55560344 gb AAV53042.1 ,
55560342 gb AAV53041.1 ,	55560340 gb AAV53040.1 ,	55560338 gb AAV53039.1 ,
55560336 gb AAV53038.1 ,	55560334 gb AAV53037.1 ,	55560332 gb AAV53036.1 ,
55560330 gb AAV53035.1 ,	55560328 gb AAV53034.1 ,	55560326 gb AAV53033.1 ,
55560324 gb AAV53032.1 ,	55560322 gb AAV53031.1 ,	55560320 gb AAV53030.1 ,
55560318 gb AAV53029.1 ,	55560316 gb AAV53028.1 ,	55560314 gb AAV53027.1 ,
55560312 gb AAV53026.1 ,	55560310 gb AAV53025.1 ,	55560308 gb AAV53024.1 ,
55560306 gb AAV53023.1 ,	55560304 gb AAV53022.1 ,	55560302 gb AAV53021.1 ,
55560300 gb AAV53020.1 ,	55560298 gb AAV53019.1 ,	55560296 gb AAV53018.1 ,
55560294 gb AAV53017.1 ,	55560292 gb AAV53016.1 ,	55560290 gb AAV53015.1 ,
55560288 gb AAV53014.1 ,	55560286 gb AAV53013.1 ,	55560284 gb AAV53012.1 ,
55560282 gb AAV53011.1 ,	55560280 gb AAV53010.1 ,	55560278 gb AAV53009.1 ,

55560276 gb AAV53008.1 ,	55560274 gb AAV53007.1 ,	55560272 gb AAV53006.1 ,
55560270 gb AAV53005.1 ,	55560268 gb AAV53004.1 ,	55560266 gb AAV53003.1 ,
55560264 gb AAV53002.1 ,	55560262 gb AAV53001.1 ,	55560260 gb AAV53000.1 ,
55560258 gb AAV52999.1 ,	55560256 gb AAV52998.1 ,	55560254 gb AAV52997.1 ,
55560252 gb AAV52996.1 ,	55560250 gb AAV52995.1 ,	55560248 gb AAV52994.1 ,
55560246 gb AAV52993.1 ,	55560244 gb AAV52992.1 ,	55560242 gb AAV52991.1 ,
55560240 gb AAV52990.1 ,	55560238 gb AAV52989.1 ,	55560236 gb AAV52988.1 ,
55560234 gb AAV52987.1 ,	55560232 gb AAV52986.1 ,	55560230 gb AAV52985.1 ,
55560228 gb AAV52984.1 ,	55560226 gb AAV52983.1 ,	55560224 gb AAV52982.1 ,
55560222 gb AAV52981.1 ,	55560220 gb AAV52980.1 ,	55560218 gb AAV52979.1 ,
55560216 gb AAV52978.1 ,	55560214 gb AAV52977.1 ,	55560212 gb AAV52976.1 ,
55560210 gb AAV52975.1 ,	55560208 gb AAV52974.1 ,	55560206 gb AAV52973.1 ,
55560204 gb AAV52972.1 ,		55560202 gb AAV52971.1 ,
82322074 sp Q50D69 Q50D69_9HIV1,	82322071 sp Q50D60 Q50D60_9HIV1,	
82322069 sp Q50D55 Q50D55_9HIV1,	82321274 sp Q4Zfq7 Q4Zfq7_9HIV1,	
82321270 sp Q79796 Q79796_9HIV1,	82321025 sp Q52VK7 Q52VK7_9HIV1,	
82319471 sp Q9IW36 Q9IW36_9HIV1,	82319168 sp Q9IH70 Q9IH70_9HIV1mutant,	
82318844 sp Q9DRR7 Q9DRR7_9HIV1truncated,	82313427 sp Q8Q617 Q8Q617_9HIV1,	
82311516 sp Q7SPQ2 Q7SPQ2_9HIV1,	82311513 sp Q7SPP7 Q7SPP7_9HIV1,	
82310816 sp Q6YA56 Q6YA56_9HIV1,	82310792 sp Q6X6X9 Q6X6X9_9HIV1,	
82310781 sp Q6X6R0 Q6X6R0_9HIV1,	82310775 sp Q6X6M5 Q6X6M5_9HIV1,	
82310769 sp Q6X6J2 Q6X6J2_9HIV1,	82310765 sp Q6X6H5 Q6X6H5_9HIV1,	
82310761 sp Q6X4Q7 Q6X4Q7_9HIV1,	82310758 sp Q6X4P9 Q6X4P9_9HIV1,	
82310755 sp Q6X4P1 Q6X4P1_9HIV1,	82310752 sp Q6X4N3 Q6X4N3_9HIV1,	
82310750 sp Q6X4M5 Q6X4M5_9HIV1,	82309888 sp Q6PR10 Q6PR10_9HIV1,	
82309836 sp Q5MH20 Q5MH20_9HIV1,	82309833 sp Q5MH11 Q5MH11_9HIV1,	
82309830 sp Q5MH02 Q5MH02_9HIV1,	82309827 sp Q5MGZ3 Q5MGZ3_9HIV1,	
82309824 sp Q5MGY4 Q5MGY4_9HIV1,	82309821 sp Q5MGX5 Q5MGX5_9HIV1,	
82309818 sp Q5MGW6 Q5MGW6_9HIV1,	82309815 sp Q5MGV8 Q5MGV8_9HIV1,	
82309813 sp Q5MGU4 Q5MGU4_9HIV1,	82309810 sp Q5MGT6 Q5MGT6_9HIV1,	
82309381 sp Q5C9Y2 Q5C9Y2_9HIV1,	82309378 sp Q5C9X3 Q5C9X3_9HIV1,	
82308944 sp O41886 O41886_9HIV1,	82308942 sp O41881 O41881_9HIV1,	
82308470 sp Q9YYU9 Q9YYU9_9HIV1,	82308469 sp Q9YYU8 Q9YYU8_9HIV1,	
82308468 sp Q9YYU7 Q9YYU7_9HIV1,	82308467 sp Q9YYU6 Q9YYU6_9HIV1,	
82308466 sp Q9YYU5 Q9YYU5_9HIV1,	82308465 sp Q9YYU4 Q9YYU4_9HIV1,	
82308464 sp Q9YYU3 Q9YYU3_9HIV1,	82308463 sp Q9YYU2 Q9YYU2_9HIV1,	
82308429 sp Q9YX74 Q9YX74_9HIV1,	82308428 sp Q9YX73 Q9YX73_9HIV1,	
82308427 sp Q9YX72 Q9YX72_9HIV1,	82308426 sp Q9YX71 Q9YX71_9HIV1,	
82308377 sp Q9YVE8 Q9YVE8_9HIV1,	82308355 sp Q9YV13 Q9YV13_9HIV1,	
82308353 sp Q9YV07 Q9YV07_9HIV1,	82308351 sp Q9YUZ9 Q9YUZ9_9HIV1,	
82308278 sp Q9YPN8 Q9YPN8_9HIV1,	82308277 sp Q9YPN7 Q9YPN7_9HIV1,	
82308276 sp Q9YPN6 Q9YPN6_9HIV1,	82308275 sp Q9YPN5 Q9YPN5_9HIV1,	
82308274 sp Q9YPN4 Q9YPN4_9HIV1,	82308273 sp Q9YPN3 Q9YPN3_9HIV1,	
82308272 sp Q9YPN2 Q9YPN2_9HIV1,	82308271 sp Q9YPN1 Q9YPN1_9HIV1,	
82308270 sp Q9YPN0 Q9YPN0_9HIV1,	82308269 sp Q9YPM9 Q9YPM9_9HIV1,	
82308268 sp Q9YPM8 Q9YPM8_9HIV1,	82308267 sp Q9YPM7 Q9YPM7_9HIV1,	
82308244 sp Q9YP54 Q9YP54_9HIV1,	82308243 sp Q9YP53 Q9YP53_9HIV1,	
82308223 sp Q9YNC0 Q9YNC0_9HIV1,	82308222 sp Q9YNB9 Q9YNB9_9HIV1,	

82308221 sp Q9YNB8 Q9YNB8_9HIV1,	82308220 sp Q9YNB7 Q9YNB7_9HIV1,
82308219 sp Q9YNA3 Q9YNA3_9HIV1,	82307984 sp Q9WSF2 Q9WSF2_9HIV1,
82307982 sp Q9WSE3 Q9WSE3_9HIV1,	82307973 sp Q9WS44 Q9WS44_9HIV1,
82307901 sp Q9WQI1 Q9WQI1_9HIV1,	82307899 sp Q9WQH3 Q9WQH3_9HIV1,
82307732 sp Q9WM30 Q9WM30_9HIV1,	82307731 sp Q9WM29 Q9WM29_9HIV1,
82307730 sp Q9WM28 Q9WM28_9HIV1,	82307729 sp Q9WM27 Q9WM27_9HIV1,
82307728 sp Q9WM26 Q9WM26_9HIV1,	82307727 sp Q9WM25 Q9WM25_9HIV1,
82307726 sp Q9WM24 Q9WM24_9HIV1,	82307725 sp Q9WM23 Q9WM23_9HIV1,
82307724 sp Q9WM22 Q9WM22_9HIV1,	82307723 sp Q9WM21 Q9WM21_9HIV1,
82307722 sp Q9WM20 Q9WM20_9HIV1,	82307721 sp Q9WM19 Q9WM19_9HIV1,
82307720 sp Q9WM18 Q9WM18_9HIV1,	82307719 sp Q9WM17 Q9WM17_9HIV1,
82307718 sp Q9WM16 Q9WM16_9HIV1,	82307696 sp Q9WLM7 Q9WLM7_9HIV1,
82307695 sp Q9WLM6 Q9WLM6_9HIV1,	82307694 sp Q9WLM5 Q9WLM5_9HIV1,
82307693 sp Q9WLM4 Q9WLM4_9HIV1,	82307687 sp Q9WLH2 Q9WLH2_9HIV1,
82307686 sp Q9WLG9 Q9WLG9_9HIV1,	82307574 sp Q9WK41 Q9WK41_9HIV1,
82307573 sp Q9WK40 Q9WK40_9HIV1,	82307572 sp Q9WK39 Q9WK39_9HIV1,
82307571 sp Q9WK38 Q9WK38_9HIV1,	82307545 sp Q9WJR3 Q9WJR3_9HIV1,
82307542 sp Q9WIU1 Q9WIU1_9HIV1,	82307539 sp Q9WIT1 Q9WIT1_9HIV1,
82307535 sp Q9WIS2 Q9WIS2_9HIV1,	82307276 sp Q9WC70 Q9WC70_9HIV1,
82307274 sp Q9WC61 Q9WC61_9HIV1,	82307187 sp Q9W9D3 Q9W9D3_9HIV1,
82307113 sp Q9QSU1 Q9QSU1_9HIV1,	82307111 sp Q9QST2 Q9QST2_9HIV1,
82307109 sp Q9QSS3 Q9QSS3_9HIV1,	82307107 sp Q9QSR5 Q9QSR5_9HIV1,
82307105 sp Q9QSQ6 Q9QSQ6_9HIV1,	82306567 sp Q9QNX6 Q9QNX6_9HIV1,
82306524 sp Q9QML5 Q9QML5_9HIV1,	82306522 sp Q9QMK7 Q9QMK7_9HIV1,
82306495 sp Q9QM82 Q9QM82_9HIV1,	82305929 sp Q9Q6Y5 Q9Q6Y5_9HIV1,
82305927 sp Q9Q6W8 Q9Q6W8_9HIV1,	82305924 sp Q9Q6V7 Q9Q6V7_9HIV1,
82305922 sp Q9Q6U9 Q9Q6U9_9HIV1,	82305871 sp Q9Q5H6 Q9Q5H6_9HIV1,
82305870 sp Q9Q5H5 Q9Q5H5_9HIV1,	82305869 sp Q9Q5H4 Q9Q5H4_9HIV1,
82305868 sp Q9Q5H3 Q9Q5H3_9HIV1,	82305867 sp Q9Q5H2 Q9Q5H2_9HIV1,
82305866 sp Q9Q5H1 Q9Q5H1_9HIV1,	82305865 sp Q9Q5H0 Q9Q5H0_9HIV1 truncated,
82305864 sp Q9Q5G9 Q9Q5G9_9HIV1 truncated,	82305863 sp Q9Q5G8 Q9Q5G8_9HIV1,
82305862 sp Q9Q5G7 Q9Q5G7_9HIV1,	82305861 sp Q9Q5G6 Q9Q5G6_9HIV1,
82305860 sp Q9Q5G5 Q9Q5G5_9HIV1,	82305859 sp Q9Q5G4 Q9Q5G4_9HIV1,
82305858 sp Q9Q5G3 Q9Q5G3_9HIV1,	82305857 sp Q9Q5G2 Q9Q5G2_9HIV1,
82305856 sp Q9Q5G1 Q9Q5G1_9HIV1,	82305855 sp Q9Q5G0 Q9Q5G0_9HIV1,
82305854 sp Q9Q5F9 Q9Q5F9_9HIV1,	82305853 sp Q9Q5F8 Q9Q5F8_9HIV1,
82305852 sp Q9Q5F7 Q9Q5F7_9HIV1,	82305851 sp Q9Q5F6 Q9Q5F6_9HIV1 truncated,
82305850 sp Q9Q5F5 Q9Q5F5_9HIV1 truncated,	
82305849 sp Q9Q5F4 Q9Q5F4_9HIV1 truncated,	
82305848 sp Q9Q5F3 Q9Q5F3_9HIV1 truncated,	82305847 sp Q9Q5F2 Q9Q5F2_9HIV1,
82305846 sp Q9Q5F1 Q9Q5F1_9HIV1,	82305845 sp Q9Q5F0 Q9Q5F0_9HIV1,
82305844 sp Q9Q5E9 Q9Q5E9_9HIV1,	82305843 sp Q9Q5E8 Q9Q5E8_9HIV1,
82305842 sp Q9Q5E7 Q9Q5E7_9HIV1,	82305841 sp Q9Q5E6 Q9Q5E6_9HIV1,
82305840 sp Q9Q5E5 Q9Q5E5_9HIV1,	82305839 sp Q9Q5E4 Q9Q5E4_9HIV1,
82305838 sp Q9Q5E3 Q9Q5E3_9HIV1,	82305837 sp Q9Q5E2 Q9Q5E2_9HIV1,
82305836 sp Q9Q5E1 Q9Q5E1_9HIV1,	82305835 sp Q9Q5E0 Q9Q5E0_9HIV1,
82305834 sp Q9Q5D9 Q9Q5D9_9HIV1,	82305833 sp Q9Q5D8 Q9Q5D8_9HIV1,
82305832 sp Q9Q5D7 Q9Q5D7_9HIV1,	82305831 sp Q9Q5D6 Q9Q5D6_9HIV1,

82305830 sp Q9Q5D5 Q9Q5D5_9HIV1,	82305829 sp Q9Q5D4 Q9Q5D4_9HIV1truncated,
82305828 sp Q9Q5D3 Q9Q5D3_9HIV1,	82305827 sp Q9Q5D2 Q9Q5D2_9HIV1,
82305826 sp Q9Q5D1 Q9Q5D1_9HIV1,	82305825 sp Q9Q5D0 Q9Q5D0_9HIV1,
82305824 sp Q9Q5C9 Q9Q5C9_9HIV1,	82305823 sp Q9Q5C8 Q9Q5C8_9HIV1,
82305822 sp Q9Q5C7 Q9Q5C7_9HIV1,	82305821 sp Q9Q5C6 Q9Q5C6_9HIV1,
82305820 sp Q9Q5C5 Q9Q5C5_9HIV1,	82305819 sp Q9Q5C4 Q9Q5C4_9HIV1,
82305818 sp Q9Q5C3 Q9Q5C3_9HIV1,	82305817 sp Q9Q5C2 Q9Q5C2_9HIV1,
82305816 sp Q9Q5C1 Q9Q5C1_9HIV1,	82305815 sp Q9Q5C0 Q9Q5C0_9HIV1,
82305814 sp Q9Q5B9 Q9Q5B9_9HIV1,	82305813 sp Q9Q5B8 Q9Q5B8_9HIV1,
82305812 sp Q9Q5B7 Q9Q5B7_9HIV1,	82305811 sp Q9Q5B6 Q9Q5B6_9HIV1,
82305810 sp Q9Q5B4 Q9Q5B4_9HIV1,	82305809 sp Q9Q5B1 Q9Q5B1_9HIV1,
82305808 sp Q9Q5B0 Q9Q5B0_9HIV1,	82305807 sp Q9Q5A9 Q9Q5A9_9HIV1,
82305806 sp Q9Q5A8 Q9Q5A8_9HIV1,	82305805 sp Q9Q5A7 Q9Q5A7_9HIV1,
82305804 sp Q9Q5A6 Q9Q5A6_9HIV1,	82305803 sp Q9Q5A5 Q9Q5A5_9HIV1,
82305802 sp Q9Q5A4 Q9Q5A4_9HIV1,	82305801 sp Q9Q5A3 Q9Q5A3_9HIV1,
82305800 sp Q9Q5A2 Q9Q5A2_9HIV1,	82305799 sp Q9Q5A1 Q9Q5A1_9HIV1,
82305798 sp Q9Q5A0 Q9Q5A0_9HIV1,	82305797 sp Q9Q599 Q9Q599_9HIV1,
82305796 sp Q9Q598 Q9Q598_9HIV1,	82305795 sp Q9Q597 Q9Q597_9HIV1,
82305794 sp Q9Q596 Q9Q596_9HIV1,	82305793 sp Q9Q595 Q9Q595_9HIV1,
82305792 sp Q9Q594 Q9Q594_9HIV1,	82305571 sp Q9PX72 Q9PX72_9HIV1,
82305564 sp Q9PX20 Q9PX20_9HIV1truncated,	
82305563 sp Q9PX11 Q9PX11_9HIV1truncated,	82305553 sp Q9PWX8 Q9PWX8_9HIV1,
82305401 sp Q9JAC0 Q9JAC0_9HIV1,	82305096 sp Q9IW45 Q9IW45_9HIV1,
82305060 sp Q9IV96 Q9IV96_9HIV1,	82305058 sp Q9IV87 Q9IV87_9HIV1,
82305056 sp Q9IV11 Q9IV11_9HIV1,	82304828 sp Q9IH73 Q9IH73_9HIV1mutant,
82304827 sp Q9IH72 Q9IH72_9HIV1,	82304826 sp Q9IH71 Q9IH71_9HIV1,
82304825 sp Q9IH68 Q9IH68_9HIV1,	82304824 sp Q9IH67 Q9IH67_9HIV1,
82304823 sp Q9IH66 Q9IH66_9HIV1,	82304822 sp Q9IH65 Q9IH65_9HIV1,
82304821 sp Q9IH64 Q9IH64_9HIV1,	82304701 sp Q9ID97 Q9ID97_9HIV1,
82304699 sp Q9ID88 Q9ID88_9HIV1,	82304154 sp Q9E2H7 Q9E2H7_9HIV1,
82303646 sp Q9DRX1 Q9DRX1_9HIV1,	82303645 sp Q9DRX0 Q9DRX0_9HIV1,
82303644 sp Q9DRW9 Q9DRW9_9HIV1,	82303643 sp Q9DRW8 Q9DRW8_9HIV1,
82303642 sp Q9DRW7 Q9DRW7_9HIV1,	82303641 sp Q9DRW6 Q9DRW6_9HIV1,
82303640 sp Q9DRW5 Q9DRW5_9HIV1,	82303639 sp Q9DRW4 Q9DRW4_9HIV1,
82303638 sp Q9DRW3 Q9DRW3_9HIV1,	82303637 sp Q9DRW2 Q9DRW2_9HIV1,
82303636 sp Q9DRW1 Q9DRW1_9HIV1,	82303635 sp Q9DRW0 Q9DRW0_9HIV1,
82303634 sp Q9DRV9 Q9DRV9_9HIV1,	82303633 sp Q9DRV8 Q9DRV8_9HIV1,
82303632 sp Q9DRV7 Q9DRV7_9HIV1,	82303631 sp Q9DRV6 Q9DRV6_9HIV1,
82303630 sp Q9DRV5 Q9DRV5_9HIV1,	82303629 sp Q9DRV4 Q9DRV4_9HIV1,
82303628 sp Q9DRV3 Q9DRV3_9HIV1,	82303627 sp Q9DRV2 Q9DRV2_9HIV1,
82303626 sp Q9DRV1 Q9DRV1_9HIV1,	82303625 sp Q9DRV0 Q9DRV0_9HIV1,
82303624 sp Q9DRU9 Q9DRU9_9HIV1,	82303623 sp Q9DRU8 Q9DRU8_9HIV1,
82303622 sp Q9DRU7 Q9DRU7_9HIV1,	82303621 sp Q9DRU6 Q9DRU6_9HIV1,
82303620 sp Q9DRU5 Q9DRU5_9HIV1,	82303619 sp Q9DRU2 Q9DRU2_9HIV1,
82303618 sp Q9DRU1 Q9DRU1_9HIV1truncated,	
82303617 sp Q9DRU0 Q9DRU0_9HIV1,	82303616 sp Q9DRT9 Q9DRT9_9HIV1,
82303615 sp Q9DRT8 Q9DRT8_9HIV1,	82303614 sp Q9DRT7 Q9DRT7_9HIV1,
82303613 sp Q9DRT6 Q9DRT6_9HIV1,	82303612 sp Q9DRT5 Q9DRT5_9HIV1,

82303611 sp Q9DRT4 Q9DRT4_9HIV1truncated,	82303610 sp Q9DRT3 Q9DRT3_9HIV1,
82303609 sp Q9DRT2 Q9DRT2_9HIV1truncated,	82303608 sp Q9DRT1 Q9DRT1_9HIV1,
82303607 sp Q9DRT0 Q9DRT0_9HIV1,	82303606 sp Q9DRS9 Q9DRS9_9HIV1,
82303605 sp Q9DRS8 Q9DRS8_9HIV1truncated,	
82303604 sp Q9DRS7 Q9DRS7_9HIV1truncated,	
82303603 sp Q9DRS6 Q9DRS6_9HIV1truncated,	82303602 sp Q9DRS4 Q9DRS4_9HIV1,
82303601 sp Q9DRS3 Q9DRS3_9HIV1,	82303600 sp Q9DRS2 Q9DRS2_9HIV1,
82303599 sp Q9DRS1 Q9DRS1_9HIV1,	82303598 sp Q9DRR9 Q9DRR9_9HIV1,
82303597 sp Q9DRR5 Q9DRR5_9HIV1truncated,	
82303596 sp Q9DRR4 Q9DRR4_9HIV1truncated,	
82303595 sp Q9DRR3 Q9DRR3_9HIV1truncated,	82303594 sp Q9DRR2 Q9DRR2_9HIV1,
82303593 sp Q9DRR1 Q9DRR1_9HIV1,	82303592 sp Q9DRR0 Q9DRR0_9HIV1,
82303591 sp Q9DRQ9 Q9DRQ9_9HIV1,	82303590 sp Q9DRQ8 Q9DRQ8_9HIV1,
82303589 sp Q9DRQ7 Q9DRQ7_9HIV1,	82303588 sp Q9DRQ6 Q9DRQ6_9HIV1,
82303587 sp Q9DRQ5 Q9DRQ5_9HIV1,	82303586 sp Q9DRQ4 Q9DRQ4_9HIV1,
82303585 sp Q9DRQ3 Q9DRQ3_9HIV1,	82303584 sp Q9DRQ2 Q9DRQ2_9HIV1,
82303583 sp Q9DRQ1 Q9DRQ1_9HIV1,	82303582 sp Q9DRP9 Q9DRP9_9HIV1,
82303581 sp Q9DRP8 Q9DRP8_9HIV1,	82303580 sp Q9DRP7 Q9DRP7_9HIV1,
82303579 sp Q9DRP6 Q9DRP6_9HIV1,	82303578 sp Q9DRP5 Q9DRP5_9HIV1,
82303577 sp Q9DRP4 Q9DRP4_9HIV1,	82303576 sp Q9DRP3 Q9DRP3_9HIV1,
82303575 sp Q9DRP1 Q9DRP1_9HIV1truncated,	82303574 sp Q9DRP0 Q9DRP0_9HIV1,
82303573 sp Q9DRN9 Q9DRN9_9HIV1truncated,	
82303572 sp Q9DRN8 Q9DRN8_9HIV1,	82303571 sp Q9DRN7 Q9DRN7_9HIV1,
82303570 sp Q9DRN6 Q9DRN6_9HIV1,	82303569 sp Q9DRN5 Q9DRN5_9HIV1,
82303325 sp Q9DQ25 Q9DQ25_9HIV1,	82303320 sp Q9DQ16 Q9DQ16_9HIV1,
82303318 sp Q9DQ09 Q9DQ09_9HIV1,	82303317 sp Q9DQ02 Q9DQ02_9HIV1,
82303316 sp Q9DPZ7 Q9DPZ7_9HIV1,	82303158 sp Q9DHB8 Q9DHB8_9HIV1truncated,
82303154 sp Q9DH15 Q9DH15_9HIV1,	82303152 sp Q9DGX7 Q9DGX7_9HIV1,
82303150 sp Q9DGU1 Q9DGU1_9HIV1,	82303145 sp Q9DGR9 Q9DGR9_9HIV1,
82302372 sp Q998H0 Q998H0_9HIV1,	82302363 sp Q994R4 Q994R4_9HIV1,
82302361 sp Q994Q5 Q994Q5_9HIV1,	82302359 sp Q994P6 Q994P6_9HIV1,
82302357 sp Q994N7 Q994N7_9HIV1,	82302355 sp Q994M8 Q994M8_9HIV1,
82302352 sp Q994L0 Q994L0_9HIV1,	82302350 sp Q994K1 Q994K1_9HIV1,
82302348 sp Q994J2 Q994J2_9HIV1,	82302346 sp Q994I3 Q994I3_9HIV1,
82302344 sp Q994H4 Q994H4_9HIV1,	82302342 sp Q994G5 Q994G5_9HIV1,
82302340 sp Q994F6 Q994F6_9HIV1,	82301451 sp Q90VU7 Q90VU7_9HIV1,
82301355 sp Q90VI1 Q90VI1_9HIV1,	82301353 sp Q90VH8 Q90VH8_9HIV1,
82301351 sp Q90VH5 Q90VH5_9HIV1,	82301348 sp Q90VG9 Q90VG9_9HIV1,
82301345 sp Q90VF9 Q90VF9_9HIV1,	82301343 sp Q90VF6 Q90VF6_9HIV1,
82301338 sp Q90VE8 Q90VE8_9HIV1,	82301336 sp Q90VE5 Q90VE5_9HIV1,
82300720 sp Q90QQ4 Q90QQ4_9HIV1,	82300718 sp Q90QP6 Q90QP6_9HIV1,
82300716 sp Q90QN9 Q90QN9_9HIV1,	82300715 sp Q90QN4 Q90QN4_9HIV1,
82300714 sp Q90QN1 Q90QN1_9HIV1,	82300713 sp Q90QM6 Q90QM6_9HIV1,
82300712 sp Q90QM5 Q90QM5_9HIV1,	82300708 sp Q90QJ5 Q90QJ5_9HIV1,
82300630 sp Q90M16 Q90M16_9HIV1,	82300629 sp Q90M15 Q90M15_9HIV1,
82300557 sp Q90DZ6 Q90DZ6_9HIV1,	82300515 sp Q90DU0 Q90DU0_9HIV1,
82300509 sp Q90D23 Q90D23_9HIV1,	82300507 sp Q90D14 Q90D14_9HIV1,
82300505 sp Q90D05 Q90D05_9HIV1,	82300503 sp Q90CZ6 Q90CZ6_9HIV1,

82300501 sp Q90CY7 Q90CY7_9HIV1,	82300499 sp Q90CX8 Q90CX8_9HIV1,
82300497 sp Q90CX0 Q90CX0_9HIV1,	82300495 sp Q90CW1 Q90CW1_9HIV1,
82300493 sp Q90CV2 Q90CV2_9HIV1,	82300491 sp Q90CK5 Q90CK5_9HIV1,
82299666 sp Q903T9 Q903T9_9HIV1truncated,	82299631 sp Q902U1 Q902U1_9HIV1,
82299629 sp Q902T2 Q902T2_9HIV1,	82299627 sp Q902S3 Q902S3_9HIV1,
82299625 sp Q902R4 Q902R4_9HIV1,	82299623 sp Q902Q5 Q902Q5_9HIV1,
82299621 sp Q902P6 Q902P6_9HIV1,	82299619 sp Q902N7 Q902N7_9HIV1,
82299617 sp Q902M3 Q902M3_9HIV1,	82299615 sp Q902L3 Q902L3_9HIV1,
82299613 sp Q902K4 Q902K4_9HIV1,	82299610 sp Q902J2 Q902J2_9HIV1,
82299608 sp Q902I3 Q902I3_9HIV1,	82299606 sp Q902H4 Q902H4_9HIV1,
82299604 sp Q902G5 Q902G5_9HIV1,	82299540 sp Q901Y9 Q901Y9_9HIV1,
82299538 sp Q901Y0 Q901Y0_9HIV1,	82299536 sp Q901X1 Q901X1_9HIV1,
82299534 sp Q901W2 Q901W2_9HIV1,	82299510 sp Q900Z3 Q900Z3_9HIV1,
82299507 sp Q900Y4 Q900Y4_9HIV1,	82299437 sp Q900A5 Q900A5_9HIV1truncated,
82299181 sp Q8USP6 Q8USP6_9HIV1,	82299180 sp Q8USP5 Q8USP5_9HIV1,
82299179 sp Q8USP4 Q8USP4_9HIV1,	82299178 sp Q8USP3 Q8USP3_9HIV1,
82299177 sp Q8USP2 Q8USP2_9HIV1,	82299176 sp Q8USP1 Q8USP1_9HIV1,
82299175 sp Q8USP0 Q8USP0_9HIV1,	82299174 sp Q8USN9 Q8USN9_9HIV1,
82299173 sp Q8USN8 Q8USN8_9HIV1,	82299172 sp Q8USN7 Q8USN7_9HIV1,
82299171 sp Q8USN6 Q8USN6_9HIV1,	82299170 sp Q8USN5 Q8USN5_9HIV1,
82299169 sp Q8USN4 Q8USN4_9HIV1,	82299168 sp Q8USN3 Q8USN3_9HIV1,
82299167 sp Q8USN2 Q8USN2_9HIV1,	82299166 sp Q8USN1 Q8USN1_9HIV1,
82299165 sp Q8USN0 Q8USN0_9HIV1,	82299164 sp Q8USM9 Q8USM9_9HIV1,
82299163 sp Q8USM8 Q8USM8_9HIV1,	82299162 sp Q8USM7 Q8USM7_9HIV1,
82299161 sp Q8USM6 Q8USM6_9HIV1,	82299160 sp Q8USM5 Q8USM5_9HIV1,
82299159 sp Q8USM3 Q8USM3_9HIV1,	82299158 sp Q8USM1 Q8USM1_9HIV1,
82299157 sp Q8USM0 Q8USM0_9HIV1truncated,	82299156 sp Q8USL9 Q8USL9_9HIV1,
82299155 sp Q8USL7 Q8USL7_9HIV1,	82299154 sp Q8USL5 Q8USL5_9HIV1,
82299153 sp Q8USL4 Q8USL4_9HIV1,	82299152 sp Q8USL3 Q8USL3_9HIV1,
82299151 sp Q8USL2 Q8USL2_9HIV1,	82299149 sp Q8USL0 Q8USL0_9HIV1,
82299148 sp Q8USK9 Q8USK9_9HIV1,	82299147 sp Q8USK8 Q8USK8_9HIV1,
82299146 sp Q8USK6 Q8USK6_9HIV1,	82299145 sp Q8USK5 Q8USK5_9HIV1,
82299143 sp Q8USK3 Q8USK3_9HIV1,	82299142 sp Q8USK2 Q8USK2_9HIV1,
82299141 sp Q8USJ9 Q8USJ9_9HIV1,	82299140 sp Q8USJ8 Q8USJ8_9HIV1,
82299139 sp Q8USJ7 Q8USJ7_9HIV1,	82299138 sp Q8USJ6 Q8USJ6_9HIV1,
82299137 sp Q8USJ5 Q8USJ5_9HIV1,	82299136 sp Q8USJ4 Q8USJ4_9HIV1,
82299135 sp Q8USJ3 Q8USJ3_9HIV1,	82299134 sp Q8USJ1 Q8USJ1_9HIV1,
82299133 sp Q8USJ0 Q8USJ0_9HIV1,	82299132 sp Q8USI9 Q8USI9_9HIV1,
82299131 sp Q8USI8 Q8USI8_9HIV1,	82299130 sp Q8USI7 Q8USI7_9HIV1,
82299129 sp Q8USI6 Q8USI6_9HIV1,	82299128 sp Q8USI5 Q8USI5_9HIV1,
82299127 sp Q8USI4 Q8USI4_9HIV1,	82299126 sp Q8USI3 Q8USI3_9HIV1,
82299125 sp Q8USI2 Q8USI2_9HIV1,	82299124 sp Q8USI1 Q8USI1_9HIV1,
82299123 sp Q8USI0 Q8USI0_9HIV1,	82299122 sp Q8USH9 Q8USH9_9HIV1,
82299121 sp Q8USH8 Q8USH8_9HIV1,	82299120 sp Q8USH7 Q8USH7_9HIV1,
82299119 sp Q8USH6 Q8USH6_9HIV1,	82299118 sp Q8USH5 Q8USH5_9HIV1,
82299073 sp Q8UPQ4 Q8UPQ4_9HIV1,	82299071 sp Q8UPP6 Q8UPP6_9HIV1,
82299069 sp Q8UPN7 Q8UPN7_9HIV1,	82299067 sp Q8UPM9 Q8UPM9_9HIV1,
82299065 sp Q8UPM0 Q8UPM0_9HIV1,	82299063 sp Q8UPL1 Q8UPL1_9HIV1,

|82299057|sp|Q8UNL8|Q8UNL8_9HIV1,
|82299053|sp|Q8UNK0|Q8UNK0_9HIV1,
|82298936|sp|Q8UMG0|Q8UMG0_9HIV1,
|82298901|sp|Q8UM91|Q8UM91_9HIV1,
|82298898|sp|Q8UM86|Q8UM86_9HIV1,
|82298867|sp|Q8QFK8|Q8QFK8_9HIV1,
|82298821|sp|Q8QDF4|Q8QDF4_9HIV1,
|82298539|sp|Q8Q662|Q8Q662_9HIV1,
|82298537|sp|Q8Q660|Q8Q660_9HIV1,
|82298535|sp|Q8Q658|Q8Q658_9HIV1,
|82298533|sp|Q8Q656|Q8Q656_9HIV1,
|82298531|sp|Q8Q654|Q8Q654_9HIV1,
|82298529|sp|Q8Q652|Q8Q652_9HIV1,
|82298527|sp|Q8Q650|Q8Q650_9HIV1,
|82298525|sp|Q8Q648|Q8Q648_9HIV1,
|82298523|sp|Q8Q646|Q8Q646_9HIV1,
|82298521|sp|Q8Q644|Q8Q644_9HIV1,
|82298519|sp|Q8Q642|Q8Q642_9HIV1,
|82298517|sp|Q8Q640|Q8Q640_9HIV1,
|82298515|sp|Q8Q638|Q8Q638_9HIV1,
|82298513|sp|Q8Q636|Q8Q636_9HIV1,
|82298511|sp|Q8Q634|Q8Q634_9HIV1,
|82298509|sp|Q8Q632|Q8Q632_9HIV1,
|82298507|sp|Q8Q630|Q8Q630_9HIV1,
|82298505|sp|Q8Q628|Q8Q628_9HIV1,
|82298503|sp|Q8Q626|Q8Q626_9HIV1,
|82298501|sp|Q8Q623|Q8Q623_9HIV1,
|82298499|sp|Q8Q621|Q8Q621_9HIV1,
|82298497|sp|Q8Q619|Q8Q619_9HIV1,
|82298495|sp|Q8Q616|Q8Q616_9HIV1,
|82298493|sp|Q8Q614|Q8Q614_9HIV1,
|82298491|sp|Q8Q611|Q8Q611_9HIV1,
|82298489|sp|Q8Q609|Q8Q609_9HIV1,
|82298487|sp|Q8Q606|Q8Q606_9HIV1,
|82298485|sp|Q8Q604|Q8Q604_9HIV1,
|82298483|sp|Q8Q602|Q8Q602_9HIV1,
|82298481|sp|Q8Q600|Q8Q600_9HIV1,
|82298479|sp|Q8Q5Z8|Q8Q5Z8_9HIV1,
|82298477|sp|Q8Q5Z6|Q8Q5Z6_9HIV1,
|82298475|sp|Q8Q5Z4|Q8Q5Z4_9HIV1,
|82298473|sp|Q8Q5Z2|Q8Q5Z2_9HIV1,
|82298471|sp|Q8Q5Z0|Q8Q5Z0_9HIV1,
|82298469|sp|Q8Q5Y8|Q8Q5Y8_9HIV1,
|82298467|sp|Q8Q5Y5|Q8Q5Y5_9HIV1,
|82298465|sp|Q8Q5Y3|Q8Q5Y3_9HIV1,
|82298463|sp|Q8Q5Y1|Q8Q5Y1_9HIV1,
|82298461|sp|Q8Q5X9|Q8Q5X9_9HIV1,
|82298459|sp|Q8Q5X7|Q8Q5X7_9HIV1,

|82299055|sp|Q8UNK9|Q8UNK9_9HIV1,
|82298938|sp|Q8UMG9|Q8UMG9_9HIV1,
|82298932|sp|Q8UMD3|Q8UMD3_9HIV1,
|82298900|sp|Q8UM89|Q8UM89_9HIV1,
|82298897|sp|Q8UM85|Q8UM85_9HIV1,
|82298866|sp|Q8QFK6|Q8QFK6_9HIV1,
|82298620|sp|Q8Q7Y9|Q8Q7Y9_9HIV1,
|82298538|sp|Q8Q661|Q8Q661_9HIV1,
|82298536|sp|Q8Q659|Q8Q659_9HIV1,
|82298534|sp|Q8Q657|Q8Q657_9HIV1,
|82298532|sp|Q8Q655|Q8Q655_9HIV1,
|82298530|sp|Q8Q653|Q8Q653_9HIV1,
|82298528|sp|Q8Q651|Q8Q651_9HIV1,
|82298526|sp|Q8Q649|Q8Q649_9HIV1,
|82298524|sp|Q8Q647|Q8Q647_9HIV1,
|82298522|sp|Q8Q645|Q8Q645_9HIV1,
|82298520|sp|Q8Q643|Q8Q643_9HIV1,
|82298518|sp|Q8Q641|Q8Q641_9HIV1,
|82298516|sp|Q8Q639|Q8Q639_9HIV1,
|82298514|sp|Q8Q637|Q8Q637_9HIV1,
|82298512|sp|Q8Q635|Q8Q635_9HIV1,
|82298510|sp|Q8Q633|Q8Q633_9HIV1,
|82298508|sp|Q8Q631|Q8Q631_9HIV1,
|82298506|sp|Q8Q629|Q8Q629_9HIV1,
|82298504|sp|Q8Q627|Q8Q627_9HIV1,
|82298502|sp|Q8Q625|Q8Q625_9HIV1,
|82298500|sp|Q8Q622|Q8Q622_9HIV1,
|82298498|sp|Q8Q620|Q8Q620_9HIV1,
|82298496|sp|Q8Q618|Q8Q618_9HIV1,
|82298494|sp|Q8Q615|Q8Q615_9HIV1,
|82298492|sp|Q8Q613|Q8Q613_9HIV1,
|82298490|sp|Q8Q610|Q8Q610_9HIV1,
|82298488|sp|Q8Q608|Q8Q608_9HIV1,
|82298486|sp|Q8Q605|Q8Q605_9HIV1,
|82298484|sp|Q8Q603|Q8Q603_9HIV1,
|82298482|sp|Q8Q601|Q8Q601_9HIV1,
|82298480|sp|Q8Q5Z9|Q8Q5Z9_9HIV1,
|82298478|sp|Q8Q5Z7|Q8Q5Z7_9HIV1,
|82298476|sp|Q8Q5Z5|Q8Q5Z5_9HIV1,
|82298474|sp|Q8Q5Z3|Q8Q5Z3_9HIV1,
|82298472|sp|Q8Q5Z1|Q8Q5Z1_9HIV1,
|82298470|sp|Q8Q5Y9|Q8Q5Y9_9HIV1,
|82298468|sp|Q8Q5Y7|Q8Q5Y7_9HIV1,
|82298466|sp|Q8Q5Y4|Q8Q5Y4_9HIV1,
|82298464|sp|Q8Q5Y2|Q8Q5Y2_9HIV1,
|82298462|sp|Q8Q5Y0|Q8Q5Y0_9HIV1,
|82298460|sp|Q8Q5X8|Q8Q5X8_9HIV1,
|82298458|sp|Q8Q5X6|Q8Q5X6_9HIV1,

|82298457|sp|Q8Q5X5|Q8Q5X5_9HIV1,
|82298123|sp|Q8Q0Y3|Q8Q0Y3_9HIV1,
|82297857|sp|Q8JC70|Q8JC70_9HIV1,
|82297853|sp|Q8JC52|Q8JC52_9HIV1,
|82297849|sp|Q8JC34|Q8JC34_9HIV1,
|82297845|sp|Q8JC16|Q8JC16_9HIV1,
|82297841|sp|Q8JC03|Q8JC03_9HIV1,
|82297837|sp|Q8JBY5|Q8JBY5_9HIV1,
|82297833|sp|Q8JBW7|Q8JBW7_9HIV1,
|82297829|sp|Q8JBU9|Q8JBU9_9HIV1,
|82297825|sp|Q8JBT1|Q8JBT1_9HIV1,
|82297821|sp|Q8JBR3|Q8JBR3_9HIV1,
|82297817|sp|Q8JBP5|Q8JBP5_9HIV1,
|82297811|sp|Q8JBM4|Q8JBM4_9HIV1,
|82297807|sp|Q8JBK6|Q8JBK6_9HIV1,
|82297803|sp|Q8JBI8|Q8JBI8_9HIV1,
|82297799|sp|Q8JBH0|Q8JBH0_9HIV1,
|82297795|sp|Q8JBF2|Q8JBF2_9HIV1,
|82297791|sp|Q8JBD4|Q8JBD4_9HIV1,
|82297787|sp|Q8JBB6|Q8JBB6_9HIV1,
|82297782|sp|Q8JAX5|Q8JAX5_9HIV1,
|82297584|sp|Q8J9B7|Q8J9B7_9HIV1,
|82297363|sp|Q8J6B9|Q8J6B9_9HIV1,
|82297361|sp|Q8J6B7|Q8J6B7_9HIV1,
|82297359|sp|Q8J6B5|Q8J6B5_9HIV1,
|82297357|sp|Q8J6B3|Q8J6B3_9HIV1,
|82297355|sp|Q8J6B1|Q8J6B1_9HIV1,
|82297353|sp|Q8J6A9|Q8J6A9_9HIV1,
|82297106|sp|Q8J580|Q8J580_9HIV1,
|82297104|sp|Q8J578|Q8J578_9HIV1,
|82297102|sp|Q8J576|Q8J576_9HIV1,
|82297100|sp|Q8J574|Q8J574_9HIV1,
|82297098|sp|Q8J572|Q8J572_9HIV1,
|82297096|sp|Q8J570|Q8J570_9HIV1,
|82297094|sp|Q8J568|Q8J568_9HIV1,
|82297092|sp|Q8J566|Q8J566_9HIV1,
|82297090|sp|Q8J564|Q8J564_9HIV1,
|82297088|sp|Q8J562|Q8J562_9HIV1,
|82297086|sp|Q8J560|Q8J560_9HIV1,
|82296965|sp|Q8J3U2|Q8J3U2_9HIV1,
|82296963|sp|Q8J3M8|Q8J3M8_9HIV1,
|82296961|sp|Q8J3M6|Q8J3M6_9HIV1,
|82296959|sp|Q8J3M4|Q8J3M4_9HIV1,
|82296957|sp|Q8J3M2|Q8J3M2_9HIV1,
|82296955|sp|Q8J3M0|Q8J3M0_9HIV1,
|82296953|sp|Q8J3L8|Q8J3L8_9HIV1,
|82296951|sp|Q8J3L6|Q8J3L6_9HIV1,
|82296949|sp|Q8J3L4|Q8J3L4_9HIV1,

|82298456|sp|Q8Q5X4|Q8Q5X4_9HIV1,
|82298093|sp|Q8JEL6|Q8JEL6_9HIV1,
|82297855|sp|Q8JC61|Q8JC61_9HIV1,
|82297851|sp|Q8JC43|Q8JC43_9HIV1,
|82297847|sp|Q8JC25|Q8JC25_9HIV1,
|82297843|sp|Q8JC07|Q8JC07_9HIV1,
|82297839|sp|Q8JBZ4|Q8JBZ4_9HIV1,
|82297835|sp|Q8JBX6|Q8JBX6_9HIV1,
|82297831|sp|Q8JBV8|Q8JBV8_9HIV1,
|82297827|sp|Q8JBU0|Q8JBU0_9HIV1,
|82297823|sp|Q8JBS2|Q8JBS2_9HIV1,
|82297819|sp|Q8JBQ4|Q8JBQ4_9HIV1,
|82297814|sp|Q8JBN5|Q8JBN5_9HIV1,
|82297809|sp|Q8JBL5|Q8JBL5_9HIV1,
|82297805|sp|Q8JBJ7|Q8JBJ7_9HIV1,
|82297801|sp|Q8JBH9|Q8JBH9_9HIV1,
|82297797|sp|Q8JBG1|Q8JBG1_9HIV1,
|82297793|sp|Q8JBE3|Q8JBE3_9HIV1,
|82297789|sp|Q8JBC5|Q8JBC5_9HIV1,
|82297785|sp|Q8JBA7|Q8JBA7_9HIV1,
|82297780|sp|Q8JAW7|Q8JAW7_9HIV1,
|82297582|sp|Q8J9A8|Q8J9A8_9HIV1,
|82297362|sp|Q8J6B8|Q8J6B8_9HIV1,
|82297360|sp|Q8J6B6|Q8J6B6_9HIV1,
|82297358|sp|Q8J6B4|Q8J6B4_9HIV1,
|82297356|sp|Q8J6B2|Q8J6B2_9HIV1,
|82297354|sp|Q8J6B0|Q8J6B0_9HIV1,
|82297352|sp|Q8J6A8|Q8J6A8_9HIV1,
|82297105|sp|Q8J579|Q8J579_9HIV1,
|82297103|sp|Q8J577|Q8J577_9HIV1,
|82297101|sp|Q8J575|Q8J575_9HIV1,
|82297099|sp|Q8J573|Q8J573_9HIV1,
|82297097|sp|Q8J571|Q8J571_9HIV1,
|82297095|sp|Q8J569|Q8J569_9HIV1,
|82297093|sp|Q8J567|Q8J567_9HIV1,
|82297091|sp|Q8J565|Q8J565_9HIV1,
|82297089|sp|Q8J563|Q8J563_9HIV1,
|82297087|sp|Q8J561|Q8J561_9HIV1,
|82297085|sp|Q8J559|Q8J559_9HIV1,
|82296964|sp|Q8J3M9|Q8J3M9_9HIV1,
|82296962|sp|Q8J3M7|Q8J3M7_9HIV1,
|82296960|sp|Q8J3M5|Q8J3M5_9HIV1,
|82296958|sp|Q8J3M3|Q8J3M3_9HIV1,
|82296956|sp|Q8J3M1|Q8J3M1_9HIV1,
|82296954|sp|Q8J3L9|Q8J3L9_9HIV1,
|82296952|sp|Q8J3L7|Q8J3L7_9HIV1,
|82296950|sp|Q8J3L5|Q8J3L5_9HIV1,
|82296948|sp|Q8J3L3|Q8J3L3_9HIV1,

|82296947|sp|Q8J3L2|Q8J3L2_9HIV1,
|82296945|sp|Q8J3L0|Q8J3L0_9HIV1,
|82296943|sp|Q8J3K8|Q8J3K8_9HIV1,
|82296829|sp|Q8J312|Q8J312_9HIV1,
|82296827|sp|Q8AUH8|Q8AUH8_9HIV1,
|82296799|sp|Q8AU76|Q8AU76_9HIV1,
|82296795|sp|Q8AU58|Q8AU58_9HIV1,
|82296793|sp|Q8AU55|Q8AU55_9HIV1,
|82296791|sp|Q8AU53|Q8AU53_9HIV1,
|82296789|sp|Q8AU51|Q8AU51_9HIV1,
|82296787|sp|Q8AU49|Q8AU49_9HIV1,
|82296785|sp|Q8AU47|Q8AU47_9HIV1,
|82296783|sp|Q8AU45|Q8AU45_9HIV1,
|82296781|sp|Q8AU43|Q8AU43_9HIV1,
|82296779|sp|Q8AU41|Q8AU41_9HIV1,
|82296777|sp|Q8AU39|Q8AU39_9HIV1,
|82296775|sp|Q8AU37|Q8AU37_9HIV1,
|82296773|sp|Q8AU35|Q8AU35_9HIV1,
|82296771|sp|Q8AU33|Q8AU33_9HIV1,
|82296769|sp|Q8AU31|Q8AU31_9HIV1,
|82296767|sp|Q8AU29|Q8AU29_9HIV1,
|82296765|sp|Q8AU27|Q8AU27_9HIV1,
|82296732|sp|Q8ATN7|Q8ATN7_9HIV1,
|82296655|sp|Q8AQV6|Q8AQV6_9HIV1,
|82296651|sp|Q8AQT8|Q8AQT8_9HIV1,
|82296647|sp|Q8AQS0|Q8AQS0_9HIV1,
|82296645|sp|Q8AQR8|Q8AQR8_9HIV1,
|82296643|sp|Q8AQR6|Q8AQR6_9HIV1,
|82296641|sp|Q8AQR4|Q8AQR4_9HIV1,
|82296639|sp|Q8AQR2|Q8AQR2_9HIV1,
|82296637|sp|Q8AQR0|Q8AQR0_9HIV1,
|82296635|sp|Q8AQQ8|Q8AQQ8_9HIV1,
|82296633|sp|Q8AQQ6|Q8AQQ6_9HIV1,
|82296631|sp|Q8AQQ4|Q8AQQ4_9HIV1,
|82296629|sp|Q8AQQ2|Q8AQQ2_9HIV1,
|82296627|sp|Q8AQQ0|Q8AQQ0_9HIV1,
|82296625|sp|Q8AQP8|Q8AQP8_9HIV1,
|82296622|sp|Q8AQP5|Q8AQP5_9HIV1,
|82296620|sp|Q8AQP3|Q8AQP3_9HIV1,
|82296618|sp|Q8AQP1|Q8AQP1_9HIV1,
|82296616|sp|Q8AQN9|Q8AQN9_9HIV1,
|82296613|sp|Q8AQN6|Q8AQN6_9HIV1,
|82296611|sp|Q8AQN4|Q8AQN4_9HIV1,
|82296609|sp|Q8AQN2|Q8AQN2_9HIV1,
|82296607|sp|Q8AQN0|Q8AQN0_9HIV1,
|82296605|sp|Q8AQM8|Q8AQM8_9HIV1,
|82296603|sp|Q8AQM6|Q8AQM6_9HIV1,
|82296601|sp|Q8AQM4|Q8AQM4_9HIV1,

|82296946|sp|Q8J3L1|Q8J3L1_9HIV1,
|82296944|sp|Q8J3K9|Q8J3K9_9HIV1,
|82296942|sp|Q8J3K7|Q8J3K7_9HIV1,
|82296828|sp|Q8J310|Q8J310_9HIV1,
|82296801|sp|Q8AU85|Q8AU85_9HIV1,
|82296797|sp|Q8AU67|Q8AU67_9HIV1,
|82296794|sp|Q8AU56|Q8AU56_9HIV1,
|82296792|sp|Q8AU54|Q8AU54_9HIV1,
|82296790|sp|Q8AU52|Q8AU52_9HIV1,
|82296788|sp|Q8AU50|Q8AU50_9HIV1,
|82296786|sp|Q8AU48|Q8AU48_9HIV1,
|82296784|sp|Q8AU46|Q8AU46_9HIV1,
|82296782|sp|Q8AU44|Q8AU44_9HIV1,
|82296780|sp|Q8AU42|Q8AU42_9HIV1,
|82296778|sp|Q8AU40|Q8AU40_9HIV1,
|82296776|sp|Q8AU38|Q8AU38_9HIV1,
|82296774|sp|Q8AU36|Q8AU36_9HIV1,
|82296772|sp|Q8AU34|Q8AU34_9HIV1,
|82296770|sp|Q8AU32|Q8AU32_9HIV1,
|82296768|sp|Q8AU30|Q8AU30_9HIV1,
|82296766|sp|Q8AU28|Q8AU28_9HIV1,
|82296764|sp|Q8AU26|Q8AU26_9HIV1,
|82296730|sp|Q8ATN1|Q8ATN1_9HIV1,
|82296653|sp|Q8AQU7|Q8AQU7_9HIV1,
|82296649|sp|Q8AQS9|Q8AQS9_9HIV1,
|82296646|sp|Q8AQR9|Q8AQR9_9HIV1,
|82296644|sp|Q8AQR7|Q8AQR7_9HIV1,
|82296642|sp|Q8AQR5|Q8AQR5_9HIV1,
|82296640|sp|Q8AQR3|Q8AQR3_9HIV1,
|82296638|sp|Q8AQR1|Q8AQR1_9HIV1,
|82296636|sp|Q8AQQ9|Q8AQQ9_9HIV1,
|82296634|sp|Q8AQQ7|Q8AQQ7_9HIV1,
|82296632|sp|Q8AQQ5|Q8AQQ5_9HIV1,
|82296630|sp|Q8AQQ3|Q8AQQ3_9HIV1,
|82296628|sp|Q8AQQ1|Q8AQQ1_9HIV1,
|82296626|sp|Q8AQP9|Q8AQP9_9HIV1,
|82296623|sp|Q8AQP6|Q8AQP6_9HIV1,
|82296621|sp|Q8AQP4|Q8AQP4_9HIV1,
|82296619|sp|Q8AQP2|Q8AQP2_9HIV1,
|82296617|sp|Q8AQP0|Q8AQP0_9HIV1,
|82296615|sp|Q8AQN8|Q8AQN8_9HIV1,
|82296612|sp|Q8AQN5|Q8AQN5_9HIV1,
|82296610|sp|Q8AQN3|Q8AQN3_9HIV1,
|82296608|sp|Q8AQN1|Q8AQN1_9HIV1,
|82296606|sp|Q8AQM9|Q8AQM9_9HIV1,
|82296604|sp|Q8AQM7|Q8AQM7_9HIV1,
|82296602|sp|Q8AQM5|Q8AQM5_9HIV1,
|82296600|sp|Q8AQM3|Q8AQM3_9HIV1,

82296599 sp Q8AQM2 Q8AQM2_9HIV1,	82296370 sp Q8AMH4 Q8AMH4_9HIV1,
82296369 sp Q8AMH3 Q8AMH3_9HIV1,	82296368 sp Q8AMH2 Q8AMH2_9HIV1,
82296367 sp Q8AMH1 Q8AMH1_9HIV1,	82296366 sp Q8AMH0 Q8AMH0_9HIV1,
82296365 sp Q8AMG9 Q8AMG9_9HIV1,	82296364 sp Q8AMG8 Q8AMG8_9HIV1,
82296363 sp Q8AMG7 Q8AMG7_9HIV1,	82296362 sp Q8AMG6 Q8AMG6_9HIV1,
82296361 sp Q8AMG5 Q8AMG5_9HIV1,	82296360 sp Q8AMG4 Q8AMG4_9HIV1,
82296359 sp Q8AMG3 Q8AMG3_9HIV1,	82296358 sp Q8AMG2 Q8AMG2_9HIV1,
82296357 sp Q8AMG1 Q8AMG1_9HIV1,	82296356 sp Q8AMG0 Q8AMG0_9HIV1,
82296355 sp Q8AMF9 Q8AMF9_9HIV1,	82296354 sp Q8AMF8 Q8AMF8_9HIV1,
82296353 sp Q8AMF7 Q8AMF7_9HIV1,	82296352 sp Q8AMF6 Q8AMF6_9HIV1,
82296351 sp Q8AMF5 Q8AMF5_9HIV1,	82296350 sp Q8AMF4 Q8AMF4_9HIV1,
82296349 sp Q8AMF3 Q8AMF3_9HIV1,	82296348 sp Q8AMF2 Q8AMF2_9HIV1,
82296347 sp Q8AMF1 Q8AMF1_9HIV1,	82296346 sp Q8AMF0 Q8AMF0_9HIV1,
82296345 sp Q8AME9 Q8AME9_9HIV1,	82296344 sp Q8AME8 Q8AME8_9HIV1,
82296343 sp Q8AME7 Q8AME7_9HIV1,	82296342 sp Q8AME6 Q8AME6_9HIV1,
82296341 sp Q8AME5 Q8AME5_9HIV1,	82296340 sp Q8AME4 Q8AME4_9HIV1,
82296339 sp Q8AME3 Q8AME3_9HIV1,	82296338 sp Q8AME2 Q8AME2_9HIV1,
82296337 sp Q8AME1 Q8AME1_9HIV1,	82296336 sp Q8AME0 Q8AME0_9HIV1,
82296335 sp Q8AMD9 Q8AMD9_9HIV1,	82296334 sp Q8AMD8 Q8AMD8_9HIV1,
82296241 sp Q8AK08 Q8AK08_9HIV1,	82296239 sp Q8AJZ9 Q8AJZ9_9HIV1,
82295651 sp Q8AF20 Q8AF20_9HIV1,	82295605 sp Q8AE73 Q8AE73_9HIV1,
82295602 sp Q8AE65 Q8AE65_9HIV1,	82295599 sp Q8AE57 Q8AE57_9HIV1,
82295596 sp Q8AE49 Q8AE49_9HIV1,	82295593 sp Q8AE41 Q8AE41_9HIV1,
82295590 sp Q8AE33 Q8AE33_9HIV1,	82295587 sp Q8AE25 Q8AE25_9HIV1,
82295584 sp Q8AE16 Q8AE16_9HIV1,	82295581 sp Q8AE08 Q8AE08_9HIV1,
82295578 sp Q8AE00 Q8AE00_9HIV1,	82295575 sp Q8ADZ2 Q8ADZ2_9HIV1,
82295572 sp Q8ADY4 Q8ADY4_9HIV1,	82295569 sp Q8ADX6 Q8ADX6_9HIV1,
82295566 sp Q8ADW8 Q8ADW8_9HIV1,	82295563 sp Q8ADW0 Q8ADW0_9HIV1,
82295560 sp Q8ADV2 Q8ADV2_9HIV1,	82295557 sp Q8ADU4 Q8ADU4_9HIV1,
82295554 sp Q8ADT6 Q8ADT6_9HIV1,	82295551 sp Q8ADS8 Q8ADS8_9HIV1,
82295548 sp Q8ADS0 Q8ADS0_9HIV1,	82295545 sp Q8ADR2 Q8ADR2_9HIV1,
82295542 sp Q8ADQ4 Q8ADQ4_9HIV1,	82295539 sp Q8ADP6 Q8ADP6_9HIV1,
82295536 sp Q8ADN8 Q8ADN8_9HIV1,	
82295533 sp Q8ADN0 Q8ADN0_9HIV1truncated,	82295528 sp Q8ADL4 Q8ADL4_9HIV1,
82295531 sp Q8ADM2 Q8ADM2_9HIV1,	82295520 sp Q8ADJ0 Q8ADJ0_9HIV1,
82295523 sp Q8ADJ8 Q8ADJ8_9HIV1,	82295511 sp Q8ADH4 Q8ADH4_9HIV1,
82295514 sp Q8ADI2 Q8ADI2_9HIV1,	82295505 sp Q8ADF8 Q8ADF8_9HIV1,
82295508 sp Q8ADG6 Q8ADG6_9HIV1,	82295499 sp Q8ADE2 Q8ADE2_9HIV1,
82295502 sp Q8ADF0 Q8ADF0_9HIV1,	82295493 sp Q8ADC6 Q8ADC6_9HIV1,
82295496 sp Q8ADD4 Q8ADD4_9HIV1,	82295487 sp Q8ADB0 Q8ADB0_9HIV1,
82295490 sp Q8ADB8 Q8ADB8_9HIV1,	82295481 sp Q8AD94 Q8AD94_9HIV1,
82295484 sp Q8ADA2 Q8ADA2_9HIV1,	82295475 sp Q8AD78 Q8AD78_9HIV1,
82295478 sp Q8AD86 Q8AD86_9HIV1,	82295435 sp Q8ACA6 Q8ACA6_9HIV1,
82295472 sp Q8AD70 Q8AD70_9HIV1,	82295428 sp Q8AC73 Q8AC73_9HIV1,
82295430 sp Q8AC81 Q8AC81_9HIV1,	82295416 sp Q8AC02 Q8AC02_9HIV1,
82295426 sp Q8AC64 Q8AC64_9HIV1,	82293611 sp Q7ZMI3 Q7ZMI3_9HIV1,
82293901 sp Q80156 Q80156_9HIV1,	82293607 sp Q7ZMG6 Q7ZMG6_9HIV1,
82293609 sp Q7ZMH4 Q7ZMH4_9HIV1,	

|82293605|sp|Q7ZMF6|Q7ZMF6_9HIV1,
|82293474|sp|Q7ZJG5|Q7ZJG5_9HIV1,
|82293470|sp|Q7ZJE5|Q7ZJE5_9HIV1,
|82293466|sp|Q7ZJC7|Q7ZJC7_9HIV1,
|82293462|sp|Q7ZJB0|Q7ZJB0_9HIV1,
|82293459|sp|Q7ZJ98|Q7ZJ98_9HIV1,
|82293453|sp|Q7ZJ82|Q7ZJ82_9HIV1,
|82293451|sp|Q7ZJ80|Q7ZJ80_9HIV1,
|82293449|sp|Q7ZJ78|Q7ZJ78_9HIV1,
|82293447|sp|Q7ZJ76|Q7ZJ76_9HIV1,
|82293445|sp|Q7ZJ74|Q7ZJ74_9HIV1,
|82293443|sp|Q7ZJ72|Q7ZJ72_9HIV1,
|82293441|sp|Q7ZJ70|Q7ZJ70_9HIV1,
|82293439|sp|Q7ZJ68|Q7ZJ68_9HIV1,
|82293437|sp|Q7ZJ66|Q7ZJ66_9HIV1,
|82293435|sp|Q7ZJ64|Q7ZJ64_9HIV1,
|82293433|sp|Q7ZJ62|Q7ZJ62_9HIV1,
|82293431|sp|Q7ZJ60|Q7ZJ60_9HIV1,
|82293429|sp|Q7ZJ58|Q7ZJ58_9HIV1,
|82293427|sp|Q7ZJ56|Q7ZJ56_9HIV1,
|82293425|sp|Q7ZJ54|Q7ZJ54_9HIV1,
|82293423|sp|Q7ZJ51|Q7ZJ51_9HIV1,
|82293421|sp|Q7ZJ49|Q7ZJ49_9HIV1,
|82293419|sp|Q7ZJ47|Q7ZJ47_9HIV1,
|82293417|sp|Q7ZJ45|Q7ZJ45_9HIV1,
|82293415|sp|Q7ZJ43|Q7ZJ43_9HIV1,
|82293413|sp|Q7ZJ41|Q7ZJ41_9HIV1,
|82293411|sp|Q7ZJ39|Q7ZJ39_9HIV1,
|82293409|sp|Q7ZJ37|Q7ZJ37_9HIV1,
|82293407|sp|Q7ZJ35|Q7ZJ35_9HIV1,
|82293405|sp|Q7ZJ33|Q7ZJ33_9HIV1,
|82293403|sp|Q7ZJ31|Q7ZJ31_9HIV1,
|82293257|sp|Q7ZFG8|Q7ZFG8_9HIV1,
|82293255|sp|Q7ZFG6|Q7ZFG6_9HIV1,
|82293253|sp|Q7ZFG4|Q7ZFG4_9HIV1,
|82293251|sp|Q7ZFG2|Q7ZFG2_9HIV1,
|82293249|sp|Q7ZFG0|Q7ZFG0_9HIV1,
|82293247|sp|Q7ZFF8|Q7ZFF8_9HIV1,
|82293245|sp|Q7ZFF6|Q7ZFF6_9HIV1,
|82293243|sp|Q7ZFF4|Q7ZFF4_9HIV1,
|82293241|sp|Q7ZFF2|Q7ZFF2_9HIV1,
|82293239|sp|Q7ZFF0|Q7ZFF0_9HIV1,
|82293237|sp|Q7ZFE8|Q7ZFE8_9HIV1,
|82293235|sp|Q7ZFE6|Q7ZFE6_9HIV1,
|82293233|sp|Q7ZFE4|Q7ZFE4_9HIV1,
|82293231|sp|Q7ZFE2|Q7ZFE2_9HIV1,
|82293229|sp|Q7ZFE0|Q7ZFE0_9HIV1,
|82293227|sp|Q7ZFD8|Q7ZFD8_9HIV1,

|82293476|sp|Q7ZJJ0|Q7ZJJ0_9HIV1,
|82293472|sp|Q7ZJF4|Q7ZJF4_9HIV1,
|82293468|sp|Q7ZJD6|Q7ZJD6_9HIV1,
|82293464|sp|Q7ZJB9|Q7ZJB9_9HIV1,
|82293460|sp|Q7ZJA2|Q7ZJA2_9HIV1,
|82293456|sp|Q7ZJ86|Q7ZJ86_9HIV1,
|82293452|sp|Q7ZJ81|Q7ZJ81_9HIV1,
|82293450|sp|Q7ZJ79|Q7ZJ79_9HIV1,
|82293448|sp|Q7ZJ77|Q7ZJ77_9HIV1,
|82293446|sp|Q7ZJ75|Q7ZJ75_9HIV1,
|82293444|sp|Q7ZJ73|Q7ZJ73_9HIV1,
|82293442|sp|Q7ZJ71|Q7ZJ71_9HIV1,
|82293440|sp|Q7ZJ69|Q7ZJ69_9HIV1,
|82293438|sp|Q7ZJ67|Q7ZJ67_9HIV1,
|82293436|sp|Q7ZJ65|Q7ZJ65_9HIV1,
|82293434|sp|Q7ZJ63|Q7ZJ63_9HIV1,
|82293432|sp|Q7ZJ61|Q7ZJ61_9HIV1,
|82293430|sp|Q7ZJ59|Q7ZJ59_9HIV1,
|82293428|sp|Q7ZJ57|Q7ZJ57_9HIV1,
|82293426|sp|Q7ZJ55|Q7ZJ55_9HIV1,
|82293424|sp|Q7ZJ53|Q7ZJ53_9HIV1,
|82293422|sp|Q7ZJ50|Q7ZJ50_9HIV1,
|82293420|sp|Q7ZJ48|Q7ZJ48_9HIV1,
|82293418|sp|Q7ZJ46|Q7ZJ46_9HIV1,
|82293416|sp|Q7ZJ44|Q7ZJ44_9HIV1,
|82293414|sp|Q7ZJ42|Q7ZJ42_9HIV1,
|82293412|sp|Q7ZJ40|Q7ZJ40_9HIV1,
|82293410|sp|Q7ZJ38|Q7ZJ38_9HIV1,
|82293408|sp|Q7ZJ36|Q7ZJ36_9HIV1,
|82293406|sp|Q7ZJ34|Q7ZJ34_9HIV1,
|82293404|sp|Q7ZJ32|Q7ZJ32_9HIV1,
|82293258|sp|Q7ZFG9|Q7ZFG9_9HIV1,
|82293256|sp|Q7ZFG7|Q7ZFG7_9HIV1,
|82293254|sp|Q7ZFG5|Q7ZFG5_9HIV1,
|82293252|sp|Q7ZFG3|Q7ZFG3_9HIV1,
|82293250|sp|Q7ZFG1|Q7ZFG1_9HIV1,
|82293248|sp|Q7ZFF9|Q7ZFF9_9HIV1,
|82293246|sp|Q7ZFF7|Q7ZFF7_9HIV1,
|82293244|sp|Q7ZFF5|Q7ZFF5_9HIV1,
|82293242|sp|Q7ZFF3|Q7ZFF3_9HIV1,
|82293240|sp|Q7ZFF1|Q7ZFF1_9HIV1,
|82293238|sp|Q7ZFE9|Q7ZFE9_9HIV1,
|82293236|sp|Q7ZFE7|Q7ZFE7_9HIV1,
|82293234|sp|Q7ZFE5|Q7ZFE5_9HIV1,
|82293232|sp|Q7ZFE3|Q7ZFE3_9HIV1,
|82293230|sp|Q7ZFE1|Q7ZFE1_9HIV1,
|82293228|sp|Q7ZFD9|Q7ZFD9_9HIV1,
|82293226|sp|Q7ZFD7|Q7ZFD7_9HIV1,

|82293225|sp|Q7ZFD6|Q7ZFD6_9HIV1,
 |82293223|sp|Q7ZFD4|Q7ZFD4_9HIV1,
 |82293221|sp|Q7ZFD2|Q7ZFD2_9HIV1,
 |82293219|sp|Q7ZFD0|Q7ZFD0_9HIV1,
 |82293217|sp|Q7ZFC8|Q7ZFC8_9HIV1,
 |82293215|sp|Q7ZFC6|Q7ZFC6_9HIV1,
 |82293213|sp|Q7ZFC4|Q7ZFC4_9HIV1,
 |82293211|sp|Q7ZFC2|Q7ZFC2_9HIV1,
 |82293209|sp|Q7ZFC0|Q7ZFC0_9HIV1,
 |82293207|sp|Q7ZFB8|Q7ZFB8_9HIV1,
 |82293161|sp|Q7ZC20|Q7ZC20_9HIV1,
 |82293159|sp|Q7ZBW9|Q7ZBW9_9HIV1,
 |82293157|sp|Q7ZBW7|Q7ZBW7_9HIV1,
 |82293155|sp|Q7ZBW5|Q7ZBW5_9HIV1,
 |82293153|sp|Q7ZBW3|Q7ZBW3_9HIV1,
 |82293151|sp|Q7ZBW1|Q7ZBW1_9HIV1,
 |82293149|sp|Q7ZBV9|Q7ZBV9_9HIV1,
 |82293147|sp|Q7ZBV7|Q7ZBV7_9HIV1,
 |82293145|sp|Q7ZBV5|Q7ZBV5_9HIV1,
 |82293143|sp|Q7ZBV3|Q7ZBV3_9HIV1,
 |82293141|sp|Q7ZBV1|Q7ZBV1_9HIV1,
 |82293139|sp|Q7ZBU9|Q7ZBU9_9HIV1,
 |82293137|sp|Q7ZBU7|Q7ZBU7_9HIV1,
 |82293135|sp|Q7ZBU4|Q7ZBU4_9HIV1,
 |82293133|sp|Q7ZBU2|Q7ZBU2_9HIV1,
 |82293131|sp|Q7ZBU0|Q7ZBU0_9HIV1,
 |82293129|sp|Q7ZBT8|Q7ZBT8_9HIV1,
 |82293096|sp|Q7ZAP6|Q7ZAP6_9HIV1,
 |82293094|sp|Q7ZAP4|Q7ZAP4_9HIV1,
 |82292626|sp|Q7SV30|Q7SV30_9HIV1,
 |82292620|sp|Q7SV12|Q7SV12_9HIV1,
 |82292614|sp|Q7SUZ4|Q7SUZ4_9HIV1,
 |82292609|sp|Q7SUX8|Q7SUX8_9HIV1,
 |82292218|sp|Q7SQM7|Q7SQM7_9HIV1,
 |82292214|sp|Q7SQA1|Q7SQA1_9HIV1,
 |82292168|sp|Q7SQ38|Q7SQ38_9HIV1,
 |82292152|sp|Q7SPT2|Q7SPT2_9HIV1,
 |82291716|sp|Q7SKG3|Q7SKG3_9HIV1,
 |82291401|sp|Q7SII6|Q7SII6_9HIV1,
 |82290717|sp|Q78244|Q78244_9HIV1,
 |82289495|sp|Q74825|Q74825_9HIV1,
 |82289493|sp|Q74823|Q74823_9HIV1,
 |82288905|sp|Q72994|Q72994_9HIV1,
 |82288635|sp|Q71VG3|Q71VG3_9HIV1,
 |82288629|sp|Q71AX5|Q71AX5_9HIV1,
 |82288536|sp|Q71820|Q71820_9HIV1,
 |82288464|sp|Q70XD2|Q70XD2_9HIV1,
 |82288062|sp|Q70154|Q70154_9HIV1,

|82293224|sp|Q7ZFD5|Q7ZFD5_9HIV1,
 |82293222|sp|Q7ZFD3|Q7ZFD3_9HIV1,
 |82293220|sp|Q7ZFD1|Q7ZFD1_9HIV1,
 |82293218|sp|Q7ZFC9|Q7ZFC9_9HIV1,
 |82293216|sp|Q7ZFC7|Q7ZFC7_9HIV1,
 |82293214|sp|Q7ZFC5|Q7ZFC5_9HIV1,
 |82293212|sp|Q7ZFC3|Q7ZFC3_9HIV1,
 |82293210|sp|Q7ZFC1|Q7ZFC1_9HIV1,
 |82293208|sp|Q7ZFB9|Q7ZFB9_9HIV1,
 |82293206|sp|Q7ZFB7|Q7ZFB7_9HIV1,
 |82293160|sp|Q7ZBX0|Q7ZBX0_9HIV1,
 |82293158|sp|Q7ZBW8|Q7ZBW8_9HIV1,
 |82293156|sp|Q7ZBW6|Q7ZBW6_9HIV1,
 |82293154|sp|Q7ZBW4|Q7ZBW4_9HIV1,
 |82293152|sp|Q7ZBW2|Q7ZBW2_9HIV1,
 |82293150|sp|Q7ZBW0|Q7ZBW0_9HIV1,
 |82293148|sp|Q7ZBV8|Q7ZBV8_9HIV1,
 |82293146|sp|Q7ZBV6|Q7ZBV6_9HIV1,
 |82293144|sp|Q7ZBV4|Q7ZBV4_9HIV1,
 |82293142|sp|Q7ZBV2|Q7ZBV2_9HIV1,
 |82293140|sp|Q7ZBV0|Q7ZBV0_9HIV1,
 |82293138|sp|Q7ZBU8|Q7ZBU8_9HIV1,
 |82293136|sp|Q7ZBU5|Q7ZBU5_9HIV1,
 |82293134|sp|Q7ZBU3|Q7ZBU3_9HIV1,
 |82293132|sp|Q7ZBU1|Q7ZBU1_9HIV1,
 |82293130|sp|Q7ZBT9|Q7ZBT9_9HIV1,
 |82293121|sp|Q7ZBG0|Q7ZBG0_9HIV1,
 |82293095|sp|Q7ZAP5|Q7ZAP5_9HIV1,
 |82292629|sp|Q7SV37|Q7SV37_9HIV1,
 |82292623|sp|Q7SV21|Q7SV21_9HIV1,
 |82292617|sp|Q7SV03|Q7SV03_9HIV1,
 |82292612|sp|Q7SUY7|Q7SUY7_9HIV1,
 |82292606|sp|Q7SUW9|Q7SUW9_9HIV1,
 |82292216|sp|Q7SQA6|Q7SQA6_9HIV1,
 |82292170|sp|Q7SQ47|Q7SQ47_9HIV1,
 |82292155|sp|Q7SPU2|Q7SPU2_9HIV1,
 |82291718|sp|Q7SKH2|Q7SKH2_9HIV1,
 |82291714|sp|Q7SKF4|Q7SKF4_9HIV1,
 |82291396|sp|Q7SIH6|Q7SIH6_9HIV1,
 |82290250|sp|Q77378|Q77378_9HIV1,
 |82289494|sp|Q74824|Q74824_9HIV1,
 |82289492|sp|Q74813|Q74813_9HIV1,
 |82288902|sp|Q72985|Q72985_9HIV1,
 |82288631|sp|Q71AY4|Q71AY4_9HIV1,
 |82288627|sp|Q71AW6|Q71AW6_9HIV1,
 |82288467|sp|Q70XD9|Q70XD9_9HIV1,
 |82288461|sp|Q70XC5|Q70XC5_9HIV1,
 |82288059|sp|Q70143|Q70143_9HIV1,

|82288008|sp|Q6Y940|Q6Y940_9HIV1,
|82288004|sp|Q6Y922|Q6Y922_9HIV1,
|82288000|sp|Q6Y904|Q6Y904_9HIV1,
|82287997|sp|Q6Y8Y6|Q6Y8Y6_9HIV1,
|82287993|sp|Q6Y8W8|Q6Y8W8_9HIV1,
|82287989|sp|Q6Y8V0|Q6Y8V0_9HIV1,
|82287985|sp|Q6Y8T3|Q6Y8T3_9HIV1,
|82287980|sp|Q6Y8R5|Q6Y8R5_9HIV1,
|82287923|sp|Q6XKB5|Q6XKB5_9HIV1,
|82287892|sp|Q6X6W1|Q6X6W1_9HIV1,
|82287888|sp|Q6X6T5|Q6X6T5_9HIV1,
|82287884|sp|Q6X6R7|Q6X6R7_9HIV1,
|82287880|sp|Q6X6P2|Q6X6P2_9HIV1,
|82287876|sp|Q6X6L6|Q6X6L6_9HIV1,
|82287872|sp|Q6X6J8|Q6X6J8_9HIV1,
|82287868|sp|Q6X6G6|Q6X6G6_9HIV1,
|82287557|sp|Q6V3U8|Q6V3U8_9HIV1,
|82287553|sp|Q6V3S5|Q6V3S5_9HIV1,
|82287372|sp|Q6URH1|Q6URH1_9HIV1,
|82287370|sp|Q6URG9|Q6URG9_9HIV1,
|82287368|sp|Q6URG7|Q6URG7_9HIV1,
|82287366|sp|Q6URG5|Q6URG5_9HIV1,
|82287364|sp|Q6URG3|Q6URG3_9HIV1,
|82287362|sp|Q6URG1|Q6URG1_9HIV1,
|82287360|sp|Q6URF9|Q6URF9_9HIV1,
|82287357|sp|Q6URF6|Q6URF6_9HIV1,
|82287354|sp|Q6URF3|Q6URF3_9HIV1,
|82287352|sp|Q6URF1|Q6URF1_9HIV1,
|82287350|sp|Q6URE9|Q6URE9_9HIV1,
|82287348|sp|Q6URE7|Q6URE7_9HIV1,
|82287346|sp|Q6URE4|Q6URE4_9HIV1,
|82287344|sp|Q6URE2|Q6URE2_9HIV1,
|82287342|sp|Q6URE0|Q6URE0_9HIV1,
|82287340|sp|Q6URD8|Q6URD8_9HIV1,
|82287338|sp|Q6URD6|Q6URD6_9HIV1,
|82287336|sp|Q6URD4|Q6URD4_9HIV1,
|82287334|sp|Q6URD2|Q6URD2_9HIV1,
|82287332|sp|Q6URD0|Q6URD0_9HIV1,
|82287330|sp|Q6URC7|Q6URC7_9HIV1,
|82287239|sp|Q6UFP5|Q6UFP5_9HIV1,
|82287234|sp|Q6UFL9|Q6UFL9_9HIV1,
|82287231|sp|Q6UFK4|Q6UFK4_9HIV1,
|82287227|sp|Q6UFI6|Q6UFI6_9HIV1,
|82287223|sp|Q6UFG8|Q6UFG8_9HIV1,
|82287219|sp|Q6UFF1|Q6UFF1_9HIV1,
|82287215|sp|Q6UFD1|Q6UFD1_9HIV1,
|82287211|sp|Q6UFB3|Q6UFB3_9HIV1,
|82287207|sp|Q6UF95|Q6UF95_9HIV1,

|82288006|sp|Q6Y931|Q6Y931_9HIV1,
|82288002|sp|Q6Y913|Q6Y913_9HIV1,
|82287999|sp|Q6Y8Z5|Q6Y8Z5_9HIV1,
|82287995|sp|Q6Y8X7|Q6Y8X7_9HIV1,
|82287991|sp|Q6Y8V9|Q6Y8V9_9HIV1,
|82287987|sp|Q6Y8U1|Q6Y8U1_9HIV1,
|82287983|sp|Q6Y8S4|Q6Y8S4_9HIV1,
|82287925|sp|Q6XKC4|Q6XKC4_9HIV1,
|82287894|sp|Q6X6X0|Q6X6X0_9HIV1,
|82287890|sp|Q6X6U4|Q6X6U4_9HIV1,
|82287886|sp|Q6X6S6|Q6X6S6_9HIV1,
|82287882|sp|Q6X6Q1|Q6X6Q1_9HIV1,
|82287878|sp|Q6X6N3|Q6X6N3_9HIV1,
|82287874|sp|Q6X6K7|Q6X6K7_9HIV1,
|82287870|sp|Q6X6I3|Q6X6I3_9HIV1,
|82287811|sp|Q6WS68|Q6WS68_9HIV1,
|82287554|sp|Q6V3T3|Q6V3T3_9HIV1,
|82287373|sp|Q6URH2|Q6URH2_9HIV1,
|82287371|sp|Q6URH0|Q6URH0_9HIV1,
|82287369|sp|Q6URG8|Q6URG8_9HIV1,
|82287367|sp|Q6URG6|Q6URG6_9HIV1,
|82287365|sp|Q6URG4|Q6URG4_9HIV1,
|82287363|sp|Q6URG2|Q6URG2_9HIV1,
|82287361|sp|Q6URG0|Q6URG0_9HIV1,
|82287359|sp|Q6URF8|Q6URF8_9HIV1,
|82287356|sp|Q6URF5|Q6URF5_9HIV1,
|82287353|sp|Q6URF2|Q6URF2_9HIV1,
|82287351|sp|Q6URF0|Q6URF0_9HIV1,
|82287349|sp|Q6URE8|Q6URE8_9HIV1,
|82287347|sp|Q6URE5|Q6URE5_9HIV1,
|82287345|sp|Q6URE3|Q6URE3_9HIV1,
|82287343|sp|Q6URE1|Q6URE1_9HIV1,
|82287341|sp|Q6URD9|Q6URD9_9HIV1,
|82287339|sp|Q6URD7|Q6URD7_9HIV1,
|82287337|sp|Q6URD5|Q6URD5_9HIV1,
|82287335|sp|Q6URD3|Q6URD3_9HIV1,
|82287333|sp|Q6URD1|Q6URD1_9HIV1,
|82287331|sp|Q6URC8|Q6URC8_9HIV1,
|82287241|sp|Q6UFQ4|Q6UFQ4_9HIV1,
|82287237|sp|Q6UFN6|Q6UFN6_9HIV1,
|82287233|sp|Q6UFL3|Q6UFL3_9HIV1,
|82287229|sp|Q6UFJ5|Q6UFJ5_9HIV1,
|82287225|sp|Q6UFH7|Q6UFH7_9HIV1,
|82287221|sp|Q6UFF9|Q6UFF9_9HIV1,
|82287217|sp|Q6UFE2|Q6UFE2_9HIV1,
|82287213|sp|Q6UFC2|Q6UFC2_9HIV1,
|82287209|sp|Q6UFA4|Q6UFA4_9HIV1,
|82287205|sp|Q6UF86|Q6UF86_9HIV1,

|82287202|sp|Q6UF69|Q6UF69_9HIV1,
|82287197|sp|Q6UF46|Q6UF46_9HIV1,
|82287193|sp|Q6UF28|Q6UF28_9HIV1,
|82287189|sp|Q6UF10|Q6UF10_9HIV1,
|82287185|sp|Q6UEZ5|Q6UEZ5_9HIV1,
|82287181|sp|Q6UEX7|Q6UEX7_9HIV1,
|82287177|sp|Q6UEV9|Q6UEV9_9HIV1,
|82287173|sp|Q6UEU1|Q6UEU1_9HIV1,
|82287169|sp|Q6UES4|Q6UES4_9HIV1,
|82287165|sp|Q6UEQ6|Q6UEQ6_9HIV1,
|82287161|sp|Q6UEN9|Q6UEN9_9HIV1,
|82287157|sp|Q6UEM4|Q6UEM4_9HIV1,
|82287153|sp|Q6UEK6|Q6UEK6_9HIV1,
|82286728|sp|Q6SZV9|Q6SZV9_9HIV1,
|82286726|sp|Q6SZV7|Q6SZV7_9HIV1,
|82286724|sp|Q6SZV4|Q6SZV4_9HIV1,
|82286722|sp|Q6SZV2|Q6SZV2_9HIV1,
|82286720|sp|Q6SZV0|Q6SZV0_9HIV1,
|82286718|sp|Q6SZU8|Q6SZU8_9HIV1,
|82286716|sp|Q6SZU6|Q6SZU6_9HIV1,
|82286474|sp|Q6S875|Q6S875_9HIV1,
|82286470|sp|Q6S860|Q6S860_9HIV1,
|82286466|sp|Q6S844|Q6S844_9HIV1,
|82286462|sp|Q6S829|Q6S829_9HIV1,
|82286459|sp|Q6S813|Q6S813_9HIV1,
|82286455|sp|Q6S7Z6|Q6S7Z6_9HIV1,
|82286451|sp|Q6S7Y0|Q6S7Y0_9HIV1,
|82286447|sp|Q6S7W2|Q6S7W2_9HIV1,
|82286443|sp|Q6S7U6|Q6S7U6_9HIV1,
|82286439|sp|Q6S7S9|Q6S7S9_9HIV1,
|82286006|sp|Q6RJG5|Q6RJG5_9HIV1,
|82286000|sp|Q6RJD7|Q6RJD7_9HIV1,
|82285998|sp|Q6RJC3|Q6RJC3_9HIV1,
|82285995|sp|Q6RJ81|Q6RJ81_9HIV1,
|82285993|sp|Q6RJ67|Q6RJ67_9HIV1,
|82285991|sp|Q6RJ53|Q6RJ53_9HIV1,
|82285989|sp|Q6RJ39|Q6RJ39_9HIV1,
|82285703|sp|Q6QKX8|Q6QKX8_9HIV1,
|82285279|sp|Q6Q459|Q6Q459_9HIV1,
|82285273|sp|Q6Q434|Q6Q434_9HIV1,
|82285212|sp|Q6Q2U7|Q6Q2U7_9HIV1,
|82285056|sp|Q6PRC2|Q6PRC2_9HIV1,
|82285054|sp|Q6PRB9|Q6PRB9_9HIV1,
|82285052|sp|Q6PRB7|Q6PRB7_9HIV1,
|82285050|sp|Q6PRB3|Q6PRB3_9HIV1,
|82285048|sp|Q6PRB1|Q6PRB1_9HIV1,
|82285046|sp|Q6PRA9|Q6PRA9_9HIV1,
|82285044|sp|Q6PRA6|Q6PRA6_9HIV1,

|82287199|sp|Q6UF55|Q6UF55_9HIV1,
|82287195|sp|Q6UF37|Q6UF37_9HIV1,
|82287191|sp|Q6UF19|Q6UF19_9HIV1,
|82287187|sp|Q6UF04|Q6UF04_9HIV1,
|82287183|sp|Q6UEY6|Q6UEY6_9HIV1,
|82287179|sp|Q6UEW8|Q6UEW8_9HIV1,
|82287175|sp|Q6UEV0|Q6UEV0_9HIV1,
|82287171|sp|Q6UET2|Q6UET2_9HIV1,
|82287167|sp|Q6UER5|Q6UER5_9HIV1,
|82287163|sp|Q6UEP7|Q6UEP7_9HIV1,
|82287159|sp|Q6UEN0|Q6UEN0_9HIV1,
|82287155|sp|Q6UEL5|Q6UEL5_9HIV1,
|82287151|sp|Q6UEJ7|Q6UEJ7_9HIV1,
|82286727|sp|Q6SZV8|Q6SZV8_9HIV1,
|82286725|sp|Q6SZV5|Q6SZV5_9HIV1,
|82286723|sp|Q6SZV3|Q6SZV3_9HIV1,
|82286721|sp|Q6SZV1|Q6SZV1_9HIV1,
|82286719|sp|Q6SZU9|Q6SZU9_9HIV1,
|82286717|sp|Q6SZU7|Q6SZU7_9HIV1,
|82286476|sp|Q6S884|Q6S884_9HIV1,
|82286472|sp|Q6S867|Q6S867_9HIV1,
|82286468|sp|Q6S852|Q6S852_9HIV1,
|82286464|sp|Q6S835|Q6S835_9HIV1,
|82286460|sp|Q6S821|Q6S821_9HIV1,
|82286457|sp|Q6S805|Q6S805_9HIV1,
|82286453|sp|Q6S7Y9|Q6S7Y9_9HIV1,
|82286449|sp|Q6S7X1|Q6S7X1_9HIV1,
|82286445|sp|Q6S7V5|Q6S7V5_9HIV1,
|82286441|sp|Q6S7T8|Q6S7T8_9HIV1,
|82286437|sp|Q6S7S1|Q6S7S1_9HIV1,
|82286004|sp|Q6RJF8|Q6RJF8_9HIV1,
|82285999|sp|Q6RJD0|Q6RJD0_9HIV1,
|82285996|sp|Q6RJA2|Q6RJA2_9HIV1,
|82285994|sp|Q6RJ74|Q6RJ74_9HIV1,
|82285992|sp|Q6RJ60|Q6RJ60_9HIV1,
|82285990|sp|Q6RJ46|Q6RJ46_9HIV1,
|82285987|sp|Q6RFP0|Q6RFP0_9HIV1,
|82285701|sp|Q6QKW9|Q6QKW9_9HIV1,
|82285277|sp|Q6Q450|Q6Q450_9HIV1,
|82285214|sp|Q6Q2V6|Q6Q2V6_9HIV1,
|82285057|sp|Q6PRC4|Q6PRC4_9HIV1,
|82285055|sp|Q6PRC0|Q6PRC0_9HIV1,
|82285053|sp|Q6PRB8|Q6PRB8_9HIV1,
|82285051|sp|Q6PRB6|Q6PRB6_9HIV1,
|82285049|sp|Q6PRB2|Q6PRB2_9HIV1,
|82285047|sp|Q6PRB0|Q6PRB0_9HIV1,
|82285045|sp|Q6PRA8|Q6PRA8_9HIV1,
|82285043|sp|Q6PRA4|Q6PRA4_9HIV1,

|82285042|sp|Q6PRA3|Q6PRA3_9HIV1,
|82285040|sp|Q6PRA0|Q6PRA0_9HIV1,
|82285038|sp|Q6PR97|Q6PR97_9HIV1,
|82285036|sp|Q6PR94|Q6PR94_9HIV1,
|82285034|sp|Q6PR92|Q6PR92_9HIV1,
|82285032|sp|Q6PR90|Q6PR90_9HIV1,
|82285030|sp|Q6PR86|Q6PR86_9HIV1,
|82285028|sp|Q6PR84|Q6PR84_9HIV1,
|82285026|sp|Q6PR82|Q6PR82_9HIV1,
|82285024|sp|Q6PR80|Q6PR80_9HIV1,
|82285022|sp|Q6PR78|Q6PR78_9HIV1,
|82285019|sp|Q6PR25|Q6PR25_9HIV1,
|82285015|sp|Q6PR01|Q6PR01_9HIV1,
|82284944|sp|Q6JP17|Q6JP17_9HIV1,
|82284941|sp|Q6JNZ9|Q6JNZ9_9HIV1,
|82284938|sp|Q6JNY1|Q6JNY1_9HIV1,
|82284934|sp|Q6JNW3|Q6JNW3_9HIV1,
|82284930|sp|Q6JNU5|Q6JNU5_9HIV1,
|82284926|sp|Q6JNS7|Q6JNS7_9HIV1,
|82284924|sp|Q6JNQ9|Q6JNQ9_9HIV1,
|82284920|sp|Q6JNP1|Q6JNP1_9HIV1,
|82284916|sp|Q6JNM3|Q6JNM3_9HIV1,
|82284912|sp|Q6JNK0|Q6JNK0_9HIV1,
|82284908|sp|Q6JNI2|Q6JNI2_9HIV1,
|82284904|sp|Q6JNG6|Q6JNG6_9HIV1,
|82284900|sp|Q6JNE8|Q6JNE8_9HIV1,
|82284895|sp|Q6JND0|Q6JND0_9HIV1,
|82284891|sp|Q6JNB2|Q6JNB2_9HIV1,
|82284887|sp|Q6JN95|Q6JN95_9HIV1,
|82284883|sp|Q6JN77|Q6JN77_9HIV1,
|82284826|sp|Q6IYB8|Q6IYB8_9HIV1,
|82284824|sp|Q6IYB6|Q6IYB6_9HIV1,
|82284822|sp|Q6IYB4|Q6IYB4_9HIV1,
|82284820|sp|Q6IYB2|Q6IYB2_9HIV1,
|82284818|sp|Q6IYB0|Q6IYB0_9HIV1,
|82284816|sp|Q6IYA8|Q6IYA8_9HIV1,
|82284814|sp|Q6IYA6|Q6IYA6_9HIV1,
|82284812|sp|Q6IYA4|Q6IYA4_9HIV1,
|82284810|sp|Q6IYA2|Q6IYA2_9HIV1,
|82284808|sp|Q6IYA0|Q6IYA0_9HIV1,
|82284806|sp|Q6IY98|Q6IY98_9HIV1,
|82284804|sp|Q6IY96|Q6IY96_9HIV1,
|82284802|sp|Q6IY94|Q6IY94_9HIV1,
|82284800|sp|Q6IY92|Q6IY92_9HIV1,
|82284798|sp|Q6IY90|Q6IY90_9HIV1,
|82284796|sp|Q6IY88|Q6IY88_9HIV1,
|82284794|sp|Q6IY86|Q6IY86_9HIV1,
|82284792|sp|Q6IY84|Q6IY84_9HIV1,

|82285041|sp|Q6PRA1|Q6PRA1_9HIV1,
|82285039|sp|Q6PR98|Q6PR98_9HIV1,
|82285037|sp|Q6PR95|Q6PR95_9HIV1,
|82285035|sp|Q6PR93|Q6PR93_9HIV1,
|82285033|sp|Q6PR91|Q6PR91_9HIV1,
|82285031|sp|Q6PR88|Q6PR88_9HIV1,
|82285029|sp|Q6PR85|Q6PR85_9HIV1,
|82285027|sp|Q6PR83|Q6PR83_9HIV1,
|82285025|sp|Q6PR81|Q6PR81_9HIV1,
|82285023|sp|Q6PR79|Q6PR79_9HIV1,
|82285021|sp|Q6PR77|Q6PR77_9HIV1,
|82285017|sp|Q6PR16|Q6PR16_9HIV1,
|82285013|sp|Q6PQZ4|Q6PQZ4_9HIV1,
|82284943|sp|Q6JP08|Q6JP08_9HIV1,
|82284940|sp|Q6JNZ0|Q6JNZ0_9HIV1,
|82284936|sp|Q6JNX2|Q6JNX2_9HIV1,
|82284932|sp|Q6JNV4|Q6JNV4_9HIV1,
|82284928|sp|Q6JNT6|Q6JNT6_9HIV1,
|82284925|sp|Q6JNR8|Q6JNR8_9HIV1,
|82284922|sp|Q6JNQ0|Q6JNQ0_9HIV1,
|82284918|sp|Q6JNN2|Q6JNN2_9HIV1,
|82284914|sp|Q6JNK9|Q6JNK9_9HIV1,
|82284910|sp|Q6JNJ1|Q6JNJ1_9HIV1,
|82284906|sp|Q6JNH5|Q6JNH5_9HIV1,
|82284902|sp|Q6JNF7|Q6JNF7_9HIV1,
|82284897|sp|Q6JND9|Q6JND9_9HIV1,
|82284893|sp|Q6JNC1|Q6JNC1_9HIV1,
|82284889|sp|Q6JNA3|Q6JNA3_9HIV1,
|82284885|sp|Q6JN86|Q6JN86_9HIV1,
|82284881|sp|Q6JN68|Q6JN68_9HIV1,
|82284825|sp|Q6IYB7|Q6IYB7_9HIV1,
|82284823|sp|Q6IYB5|Q6IYB5_9HIV1,
|82284821|sp|Q6IYB3|Q6IYB3_9HIV1,
|82284819|sp|Q6IYB1|Q6IYB1_9HIV1,
|82284817|sp|Q6IYA9|Q6IYA9_9HIV1,
|82284815|sp|Q6IYA7|Q6IYA7_9HIV1,
|82284813|sp|Q6IYA5|Q6IYA5_9HIV1,
|82284811|sp|Q6IYA3|Q6IYA3_9HIV1,
|82284809|sp|Q6IYA1|Q6IYA1_9HIV1,
|82284807|sp|Q6IY99|Q6IY99_9HIV1,
|82284805|sp|Q6IY97|Q6IY97_9HIV1,
|82284803|sp|Q6IY95|Q6IY95_9HIV1,
|82284801|sp|Q6IY93|Q6IY93_9HIV1,
|82284799|sp|Q6IY91|Q6IY91_9HIV1,
|82284797|sp|Q6IY89|Q6IY89_9HIV1,
|82284795|sp|Q6IY87|Q6IY87_9HIV1,
|82284793|sp|Q6IY85|Q6IY85_9HIV1,
|82284791|sp|Q6IY83|Q6IY83_9HIV1,

|82284790|sp|Q6IY82|Q6IY82_9HIV1,
|82284788|sp|Q6IY80|Q6IY80_9HIV1,
|82284786|sp|Q6IY78|Q6IY78_9HIV1,
|82284784|sp|Q6IY76|Q6IY76_9HIV1,
|82284728|sp|Q6H1S6|Q6H1S6_9HIV1,
|82284724|sp|Q6H1Q8|Q6H1Q8_9HIV1,
|82284720|sp|Q6H1P0|Q6H1P0_9HIV1,
|82284716|sp|Q6H1M2|Q6H1M2_9HIV1,
|82284700|sp|Q6EG57|Q6EG57_9HIV1,
|82284697|sp|Q6EG39|Q6EG39_9HIV1,
|82284694|sp|Q6EG21|Q6EG21_9HIV1,
|82284691|sp|Q6EFZ4|Q6EFZ4_9HIV1,
|82284688|sp|Q6EFX6|Q6EFX6_9HIV1,
|82284684|sp|Q6EFV8|Q6EFV8_9HIV1,
|82284680|sp|Q6EFM0|Q6EFM0_9HIV1,
|82284359|sp|Q69GS9|Q69GS9_9HIV1,
|82284354|sp|Q69GR1|Q69GR1_9HIV1,
|82284350|sp|Q69GP3|Q69GP3_9HIV1,
|82284346|sp|Q69GM5|Q69GM5_9HIV1,
|82283877|sp|Q673U3|Q673U3_9HIV1,
|82283873|sp|Q672T4|Q672T4_9HIV1,
|82283869|sp|Q672R9|Q672R9_9HIV1,
|82283825|sp|Q66TS3|Q66TS3_9HIV1,
|82283821|sp|Q66TQ5|Q66TQ5_9HIV1,
|82283278|sp|Q5UEG4|Q5UEG4_9HIV1,
|82283274|sp|Q5U9A9|Q5U9A9_9HIV1,
|82283270|sp|Q5U992|Q5U992_9HIV1,
|82283266|sp|Q5U977|Q5U977_9HIV1,
|82283263|sp|Q5U967|Q5U967_9HIV1,
|82283259|sp|Q5U944|Q5U944_9HIV1,
|82283256|sp|Q5U8K4|Q5U8K4_9HIV1,
|82283252|sp|Q5U8I6|Q5U8I6_9HIV1,
|82283248|sp|Q5U8G8|Q5U8G8_9HIV1,
|82283244|sp|Q5U8F0|Q5U8F0_9HIV1,
|82283239|sp|Q5U8C3|Q5U8C3_9HIV1,
|82283235|sp|Q5U8A5|Q5U8A5_9HIV1,
|82283231|sp|Q5U887|Q5U887_9HIV1,
|82283228|sp|Q5SFQ1|Q5SFQ1_9HIV1,
|82283205|sp|Q5S3F9|Q5S3F9_9HIV1,
|82283203|sp|Q5S3F7|Q5S3F7_9HIV1,
|82283201|sp|Q5S3F5|Q5S3F5_9HIV1,
|82283199|sp|Q5S3F3|Q5S3F3_9HIV1,
|82283197|sp|Q5S3F1|Q5S3F1_9HIV1,
|82283195|sp|Q5S3E8|Q5S3E8_9HIV1,
|82283193|sp|Q5S3E6|Q5S3E6_9HIV1,
|82283191|sp|Q5S3E4|Q5S3E4_9HIV1,
|82283189|sp|Q5S3E1|Q5S3E1_9HIV1,
|82283187|sp|Q5S3D9|Q5S3D9_9HIV1,

|82284789|sp|Q6IY81|Q6IY81_9HIV1,
|82284787|sp|Q6IY79|Q6IY79_9HIV1,
|82284785|sp|Q6IY77|Q6IY77_9HIV1,
|82284730|sp|Q6H1T5|Q6H1T5_9HIV1,
|82284726|sp|Q6H1R7|Q6H1R7_9HIV1,
|82284722|sp|Q6H1P9|Q6H1P9_9HIV1,
|82284718|sp|Q6H1N1|Q6H1N1_9HIV1,
|82284702|sp|Q6EG84|Q6EG84_9HIV1,
|82284699|sp|Q6EG48|Q6EG48_9HIV1,
|82284696|sp|Q6EG30|Q6EG30_9HIV1,
|82284693|sp|Q6EG03|Q6EG03_9HIV1,
|82284690|sp|Q6EFY5|Q6EFY5_9HIV1,
|82284687|sp|Q6EFW7|Q6EFW7_9HIV1,
|82284682|sp|Q6EFM9|Q6EFM9_9HIV1,
|82284399|sp|Q6B4P0|Q6B4P0_9HIV1,
|82284356|sp|Q69GS0|Q69GS0_9HIV1,
|82284352|sp|Q69GQ2|Q69GQ2_9HIV1,
|82284348|sp|Q69GN4|Q69GN4_9HIV1,
|82283879|sp|Q673V6|Q673V6_9HIV1,
|82283875|sp|Q672U2|Q672U2_9HIV1,
|82283871|sp|Q672S7|Q672S7_9HIV1,
|82283827|sp|Q66TT3|Q66TT3_9HIV1,
|82283823|sp|Q66TR5|Q66TR5_9HIV1,
|82283280|sp|Q5UEH3|Q5UEH3_9HIV1,
|82283276|sp|Q5U9B8|Q5U9B8_9HIV1,
|82283272|sp|Q5U9A1|Q5U9A1_9HIV1,
|82283268|sp|Q5U984|Q5U984_9HIV1,
|82283264|sp|Q5U968|Q5U968_9HIV1,
|82283261|sp|Q5U960|Q5U960_9HIV1,
|82283257|sp|Q5U937|Q5U937_9HIV1,
|82283254|sp|Q5U8J5|Q5U8J5_9HIV1,
|82283250|sp|Q5U8H7|Q5U8H7_9HIV1,
|82283246|sp|Q5U8F9|Q5U8F9_9HIV1,
|82283241|sp|Q5U8D2|Q5U8D2_9HIV1,
|82283237|sp|Q5U8B4|Q5U8B4_9HIV1,
|82283233|sp|Q5U896|Q5U896_9HIV1,
|82283229|sp|Q5U878|Q5U878_9HIV1,
|82283206|sp|Q5S3G0|Q5S3G0_9HIV1,
|82283204|sp|Q5S3F8|Q5S3F8_9HIV1,
|82283202|sp|Q5S3F6|Q5S3F6_9HIV1,
|82283200|sp|Q5S3F4|Q5S3F4_9HIV1,
|82283198|sp|Q5S3F2|Q5S3F2_9HIV1,
|82283196|sp|Q5S3E9|Q5S3E9_9HIV1,
|82283194|sp|Q5S3E7|Q5S3E7_9HIV1,
|82283192|sp|Q5S3E5|Q5S3E5_9HIV1,
|82283190|sp|Q5S3E2|Q5S3E2_9HIV1,
|82283188|sp|Q5S3E0|Q5S3E0_9HIV1,
|82283186|sp|Q5S3D8|Q5S3D8_9HIV1,

|82283185|sp|Q5S3D7|Q5S3D7_9HIV1,
|82283183|sp|Q5S3D4|Q5S3D4_9HIV1,
|82283181|sp|Q5S3D1|Q5S3D1_9HIV1,
|82283179|sp|Q5S3C8|Q5S3C8_9HIV1,
|82283177|sp|Q5S3C6|Q5S3C6_9HIV1,
|82283175|sp|Q5S3C3|Q5S3C3_9HIV1,
|82283173|sp|Q5S3B9|Q5S3B9_9HIV1,
|82283171|sp|Q5S3B2|Q5S3B2_9HIV1,
|82283169|sp|Q5S3A9|Q5S3A9_9HIV1,
|82283167|sp|Q5S3A7|Q5S3A7_9HIV1,
|82283165|sp|Q5S3A5|Q5S3A5_9HIV1,
|82283163|sp|Q5S3A2|Q5S3A2_9HIV1,
|82283161|sp|Q5S3A0|Q5S3A0_9HIV1,
|82283159|sp|Q5S396|Q5S396_9HIV1,
|82283157|sp|Q5S394|Q5S394_9HIV1,
|82283155|sp|Q5S392|Q5S392_9HIV1,
|82283153|sp|Q5S389|Q5S389_9HIV1,
|82283151|sp|Q5S385|Q5S385_9HIV1,
|82283149|sp|Q5S383|Q5S383_9HIV1,
|82283147|sp|Q5S380|Q5S380_9HIV1,
|82283145|sp|Q5S374|Q5S374_9HIV1,
|82283143|sp|Q5S370|Q5S370_9HIV1,
|82283141|sp|Q5S367|Q5S367_9HIV1,
|82283139|sp|Q5S365|Q5S365_9HIV1,
|82283137|sp|Q5S363|Q5S363_9HIV1,
|82283135|sp|Q5S360|Q5S360_9HIV1,
|82283133|sp|Q5S358|Q5S358_9HIV1,
|82283131|sp|Q5S356|Q5S356_9HIV1,
|82283129|sp|Q5S354|Q5S354_9HIV1,
|82283127|sp|Q5S352|Q5S352_9HIV1,
|82283125|sp|Q5S349|Q5S349_9HIV1,
|82283123|sp|Q5S346|Q5S346_9HIV1,
|82283121|sp|Q5S342|Q5S342_9HIV1,
|82283119|sp|Q5S338|Q5S338_9HIV1,
|82283117|sp|Q5S336|Q5S336_9HIV1,
|82283115|sp|Q5S331|Q5S331_9HIV1,
|82283113|sp|Q5S329|Q5S329_9HIV1,
|82283111|sp|Q5S325|Q5S325_9HIV1,
|82283109|sp|Q5S322|Q5S322_9HIV1,
|82283107|sp|Q5S314|Q5S314_9HIV1,
|82283105|sp|Q5S308|Q5S308_9HIV1,
|82283103|sp|Q5S306|Q5S306_9HIV1,
|82283101|sp|Q5S303|Q5S303_9HIV1,
|82283099|sp|Q5S300|Q5S300_9HIV1,
|82283097|sp|Q5S2Z8|Q5S2Z8_9HIV1,
|82283095|sp|Q5S2Z6|Q5S2Z6_9HIV1,
|82283093|sp|Q5S2Z4|Q5S2Z4_9HIV1,
|82283091|sp|Q5S2Y8|Q5S2Y8_9HIV1,

|82283184|sp|Q5S3D6|Q5S3D6_9HIV1,
|82283182|sp|Q5S3D2|Q5S3D2_9HIV1,
|82283180|sp|Q5S3D0|Q5S3D0_9HIV1,
|82283178|sp|Q5S3C7|Q5S3C7_9HIV1,
|82283176|sp|Q5S3C5|Q5S3C5_9HIV1,
|82283174|sp|Q5S3C2|Q5S3C2_9HIV1,
|82283172|sp|Q5S3B7|Q5S3B7_9HIV1,
|82283170|sp|Q5S3B0|Q5S3B0_9HIV1,
|82283168|sp|Q5S3A8|Q5S3A8_9HIV1,
|82283166|sp|Q5S3A6|Q5S3A6_9HIV1,
|82283164|sp|Q5S3A3|Q5S3A3_9HIV1,
|82283162|sp|Q5S3A1|Q5S3A1_9HIV1,
|82283160|sp|Q5S397|Q5S397_9HIV1,
|82283158|sp|Q5S395|Q5S395_9HIV1,
|82283156|sp|Q5S393|Q5S393_9HIV1,
|82283154|sp|Q5S391|Q5S391_9HIV1,
|82283152|sp|Q5S387|Q5S387_9HIV1,
|82283150|sp|Q5S384|Q5S384_9HIV1,
|82283148|sp|Q5S382|Q5S382_9HIV1,
|82283146|sp|Q5S377|Q5S377_9HIV1,
|82283144|sp|Q5S371|Q5S371_9HIV1,
|82283142|sp|Q5S369|Q5S369_9HIV1,
|82283140|sp|Q5S366|Q5S366_9HIV1,
|82283138|sp|Q5S364|Q5S364_9HIV1,
|82283136|sp|Q5S362|Q5S362_9HIV1,
|82283134|sp|Q5S359|Q5S359_9HIV1,
|82283132|sp|Q5S357|Q5S357_9HIV1,
|82283130|sp|Q5S355|Q5S355_9HIV1,
|82283128|sp|Q5S353|Q5S353_9HIV1,
|82283126|sp|Q5S350|Q5S350_9HIV1,
|82283124|sp|Q5S348|Q5S348_9HIV1,
|82283122|sp|Q5S344|Q5S344_9HIV1,
|82283120|sp|Q5S341|Q5S341_9HIV1,
|82283118|sp|Q5S337|Q5S337_9HIV1,
|82283116|sp|Q5S332|Q5S332_9HIV1,
|82283114|sp|Q5S330|Q5S330_9HIV1,
|82283112|sp|Q5S328|Q5S328_9HIV1,
|82283110|sp|Q5S323|Q5S323_9HIV1,
|82283108|sp|Q5S319|Q5S319_9HIV1,
|82283106|sp|Q5S312|Q5S312_9HIV1,
|82283104|sp|Q5S307|Q5S307_9HIV1,
|82283102|sp|Q5S304|Q5S304_9HIV1,
|82283100|sp|Q5S302|Q5S302_9HIV1,
|82283098|sp|Q5S2Z9|Q5S2Z9_9HIV1,
|82283096|sp|Q5S2Z7|Q5S2Z7_9HIV1,
|82283094|sp|Q5S2Z5|Q5S2Z5_9HIV1,
|82283092|sp|Q5S2Z0|Q5S2Z0_9HIV1,
|82283090|sp|Q5S2Y7|Q5S2Y7_9HIV1,

|82283089|sp|Q5S2Y6|Q5S2Y6_9HIV1,
 |82283087|sp|Q5S2Y4|Q5S2Y4_9HIV1,
 |82283085|sp|Q5S2Y1|Q5S2Y1_9HIV1,
 |82283083|sp|Q5S2X9|Q5S2X9_9HIV1,
 |82283081|sp|Q5S2X7|Q5S2X7_9HIV1,
 |82283079|sp|Q5S2X4|Q5S2X4_9HIV1,
 |82283077|sp|Q5S2X0|Q5S2X0_9HIV1,
 |82283075|sp|Q5S2W8|Q5S2W8_9HIV1,
 |82283073|sp|Q5S2W6|Q5S2W6_9HIV1,
 |82282923|sp|Q5QCU7|Q5QCU7_9HIV1,
 |82282919|sp|Q5QCS9|Q5QCS9_9HIV1,
 |82282915|sp|Q5QCR1|Q5QCR1_9HIV1,
 |82282912|sp|Q5PYP9|Q5PYP9_9HIV1,
 |82282805|sp|Q5G7F0|Q5G7F0_9HIV1,
 |82282800|sp|Q5G7C4|Q5G7C4_9HIV1,
 |82282796|sp|Q5G7A6|Q5G7A6_9HIV1,
 |82282761|sp|Q5G360|Q5G360_9HIV1,
 |82282759|sp|Q5G358|Q5G358_9HIV1,
 |82282757|sp|Q5G356|Q5G356_9HIV1,
 |82282755|sp|Q5G354|Q5G354_9HIV1,
 |82282753|sp|Q5G352|Q5G352_9HIV1,
 |82282751|sp|Q5G350|Q5G350_9HIV1,
 |82282749|sp|Q5G348|Q5G348_9HIV1,
 |82282717|sp|Q5FY37|Q5FY37_9HIV1,
 |82282712|sp|Q5FY19|Q5FY19_9HIV1,
 |82282708|sp|Q5FY01|Q5FY01_9HIV1,
 |82282704|sp|Q5FXY3|Q5FXY3_9HIV1,
 |82282698|sp|Q5FXW5|Q5FXW5_9HIV1,
 |82282693|sp|Q5FXU7|Q5FXU7_9HIV1,
 |82282688|sp|Q5FXT0|Q5FXT0_9HIV1,
 |82282684|sp|Q5FXR2|Q5FXR2_9HIV1,
 |82282680|sp|Q5FXP6|Q5FXP6_9HIV1,
 |82282574|sp|Q5EEI9|Q5EEI9_9HIV1,
 |82282570|sp|Q5EEH1|Q5EEH1_9HIV1,
 |82282566|sp|Q5EEF4|Q5EEF4_9HIV1,
 |82282562|sp|Q5EED6|Q5EED6_9HIV1,
 |82282558|sp|Q5EEB9|Q5EEB9_9HIV1,
 |82282554|sp|Q5EEA1|Q5EEA1_9HIV1,
 |82282550|sp|Q5EE85|Q5EE85_9HIV1,
 |82282545|sp|Q5EE61|Q5EE61_9HIV1,
 |82282442|sp|Q5ECR6|Q5ECR6_9HIV1,
 |82282440|sp|Q5ECR4|Q5ECR4_9HIV1,
 |82282438|sp|Q5ECR2|Q5ECR2_9HIV1,
 |82282436|sp|Q5ECR0|Q5ECR0_9HIV1,
 |82282434|sp|Q5ECQ8|Q5ECQ8_9HIV1,
 |82282432|sp|Q5ECQ6|Q5ECQ6_9HIV1,
 |82282430|sp|Q5ECQ4|Q5ECQ4_9HIV1,
 |82282428|sp|Q5DJY4|Q5DJY4_9HIV1,

|82283088|sp|Q5S2Y5|Q5S2Y5_9HIV1,
 |82283086|sp|Q5S2Y2|Q5S2Y2_9HIV1,
 |82283084|sp|Q5S2Y0|Q5S2Y0_9HIV1,
 |82283082|sp|Q5S2X8|Q5S2X8_9HIV1,
 |82283080|sp|Q5S2X6|Q5S2X6_9HIV1,
 |82283078|sp|Q5S2X1|Q5S2X1_9HIV1,
 |82283076|sp|Q5S2W9|Q5S2W9_9HIV1,
 |82283074|sp|Q5S2W7|Q5S2W7_9HIV1,
 |82282925|sp|Q5QCV6|Q5QCV6_9HIV1,
 |82282921|sp|Q5QCT8|Q5QCT8_9HIV1,
 |82282917|sp|Q5QCS0|Q5QCS0_9HIV1,
 |82282913|sp|Q5PZV3|Q5PZV3_9HIV1,
 |82282909|sp|Q5PYM3|Q5PYM3_9HIV1,
 |82282803|sp|Q5G7E1|Q5G7E1_9HIV1,
 |82282798|sp|Q5G7B5|Q5G7B5_9HIV1,
 |82282762|sp|Q5G361|Q5G361_9HIV1,
 |82282760|sp|Q5G359|Q5G359_9HIV1,
 |82282758|sp|Q5G357|Q5G357_9HIV1,
 |82282756|sp|Q5G355|Q5G355_9HIV1,
 |82282754|sp|Q5G353|Q5G353_9HIV1,
 |82282752|sp|Q5G351|Q5G351_9HIV1,
 |82282750|sp|Q5G349|Q5G349_9HIV1,
 |82282748|sp|Q5G347|Q5G347_9HIV1,
 |82282714|sp|Q5FY28|Q5FY28_9HIV1,
 |82282710|sp|Q5FY10|Q5FY10_9HIV1,
 |82282706|sp|Q5FXZ2|Q5FXZ2_9HIV1,
 |82282702|sp|Q5FXX4|Q5FXX4_9HIV1,
 |82282696|sp|Q5FXV6|Q5FXV6_9HIV1,
 |82282690|sp|Q5FXT8|Q5FXT8_9HIV1,
 |82282686|sp|Q5FXS1|Q5FXS1_9HIV1,
 |82282682|sp|Q5FXQ5|Q5FXQ5_9HIV1,
 |82282678|sp|Q5FXN7|Q5FXN7_9HIV1,
 |82282572|sp|Q5EEI0|Q5EEI0_9HIV1,
 |82282568|sp|Q5EEG3|Q5EEG3_9HIV1,
 |82282564|sp|Q5EEE5|Q5EEE5_9HIV1,
 |82282560|sp|Q5EEC8|Q5EEC8_9HIV1,
 |82282556|sp|Q5EEB0|Q5EEB0_9HIV1,
 |82282552|sp|Q5EE94|Q5EE94_9HIV1,
 |82282548|sp|Q5EE77|Q5EE77_9HIV1,
 |82282543|sp|Q5EE53|Q5EE53_9HIV1,
 |82282441|sp|Q5ECR5|Q5ECR5_9HIV1,
 |82282439|sp|Q5ECR3|Q5ECR3_9HIV1,
 |82282437|sp|Q5ECR1|Q5ECR1_9HIV1,
 |82282435|sp|Q5ECQ9|Q5ECQ9_9HIV1,
 |82282433|sp|Q5ECQ7|Q5ECQ7_9HIV1,
 |82282431|sp|Q5ECQ5|Q5ECQ5_9HIV1,
 |82282429|sp|Q5ECQ3|Q5ECQ3_9HIV1,
 |82282427|sp|Q5DJY3|Q5DJY3_9HIV1,

|82282426|sp|Q5DJY0|Q5DJY0_9HIV1,
|82282424|sp|Q5DJX8|Q5DJX8_9HIV1,
|82282422|sp|Q5DJX6|Q5DJX6_9HIV1,
|82282420|sp|Q5DJX4|Q5DJX4_9HIV1,
|82282418|sp|Q5DJX2|Q5DJX2_9HIV1,
|82282416|sp|Q5DJX0|Q5DJX0_9HIV1,
|82282414|sp|Q5DJW8|Q5DJW8_9HIV1,
|82282412|sp|Q5DJW6|Q5DJW6_9HIV1,
|82282410|sp|Q5DJW4|Q5DJW4_9HIV1,
|82282408|sp|Q5DJW2|Q5DJW2_9HIV1,
|82282406|sp|Q5DJW0|Q5DJW0_9HIV1,
|82282404|sp|Q5D577|Q5D577_9HIV1,
|82282402|sp|Q5D575|Q5D575_9HIV1,
|82282400|sp|Q5D573|Q5D573_9HIV1,
|82282398|sp|Q5D571|Q5D571_9HIV1,
|82282396|sp|Q5D565|Q5D565_9HIV1,
|82282394|sp|Q5D563|Q5D563_9HIV1,
|82282392|sp|Q5D560|Q5D560_9HIV1,
|82282390|sp|Q5D557|Q5D557_9HIV1,
|82282388|sp|Q5D553|Q5D553_9HIV1,
|82282386|sp|Q5D551|Q5D551_9HIV1,
|82282384|sp|Q5D548|Q5D548_9HIV1,
|82282382|sp|Q5D545|Q5D545_9HIV1,
|82282380|sp|Q5D543|Q5D543_9HIV1,
|82282378|sp|Q5D540|Q5D540_9HIV1,
|82282376|sp|Q5D538|Q5D538_9HIV1,
|82282374|sp|Q5D536|Q5D536_9HIV1,
|82282372|sp|Q5D534|Q5D534_9HIV1,
|82282370|sp|Q5D532|Q5D532_9HIV1,
|82282368|sp|Q5D530|Q5D530_9HIV1,
|82282366|sp|Q5D528|Q5D528_9HIV1,
|82282364|sp|Q5D526|Q5D526_9HIV1,
|82281862|sp|Q5MC93|Q5MC93_9HIV1,
|82281860|sp|Q5MC91|Q5MC91_9HIV1,
|82281858|sp|Q5MC89|Q5MC89_9HIV1,
|82281855|sp|Q5MC87|Q5MC87_9HIV1,
|82281853|sp|Q5MC85|Q5MC85_9HIV1,
|82281851|sp|Q5MC83|Q5MC83_9HIV1,
|82281849|sp|Q5MC81|Q5MC81_9HIV1,
|82281847|sp|Q5MC79|Q5MC79_9HIV1,
|82281844|sp|Q5MC77|Q5MC77_9HIV1,
|82281841|sp|Q5MC75|Q5MC75_9HIV1,
|82281839|sp|Q5MC73|Q5MC73_9HIV1,
|82281837|sp|Q5MC71|Q5MC71_9HIV1,
|82281835|sp|Q5MC69|Q5MC69_9HIV1,
|82281833|sp|Q5MC67|Q5MC67_9HIV1,
|82281831|sp|Q5MC65|Q5MC65_9HIV1,
|82281828|sp|Q5MC63|Q5MC63_9HIV1,

|82282425|sp|Q5DJX9|Q5DJX9_9HIV1,
|82282423|sp|Q5DJX7|Q5DJX7_9HIV1,
|82282421|sp|Q5DJX5|Q5DJX5_9HIV1,
|82282419|sp|Q5DJX3|Q5DJX3_9HIV1,
|82282417|sp|Q5DJX1|Q5DJX1_9HIV1,
|82282415|sp|Q5DJW9|Q5DJW9_9HIV1,
|82282413|sp|Q5DJW7|Q5DJW7_9HIV1,
|82282411|sp|Q5DJW5|Q5DJW5_9HIV1,
|82282409|sp|Q5DJW3|Q5DJW3_9HIV1,
|82282407|sp|Q5DJW1|Q5DJW1_9HIV1,
|82282405|sp|Q5DJV9|Q5DJV9_9HIV1,
|82282403|sp|Q5D576|Q5D576_9HIV1,
|82282401|sp|Q5D574|Q5D574_9HIV1,
|82282399|sp|Q5D572|Q5D572_9HIV1,
|82282397|sp|Q5D570|Q5D570_9HIV1,
|82282395|sp|Q5D564|Q5D564_9HIV1,
|82282393|sp|Q5D561|Q5D561_9HIV1,
|82282391|sp|Q5D558|Q5D558_9HIV1,
|82282389|sp|Q5D555|Q5D555_9HIV1,
|82282387|sp|Q5D552|Q5D552_9HIV1,
|82282385|sp|Q5D550|Q5D550_9HIV1,
|82282383|sp|Q5D546|Q5D546_9HIV1,
|82282381|sp|Q5D544|Q5D544_9HIV1,
|82282379|sp|Q5D542|Q5D542_9HIV1,
|82282377|sp|Q5D539|Q5D539_9HIV1,
|82282375|sp|Q5D537|Q5D537_9HIV1,
|82282373|sp|Q5D535|Q5D535_9HIV1,
|82282371|sp|Q5D533|Q5D533_9HIV1,
|82282369|sp|Q5D531|Q5D531_9HIV1,
|82282367|sp|Q5D529|Q5D529_9HIV1,
|82282365|sp|Q5D527|Q5D527_9HIV1,
|82281946|sp|Q5MJ71|Q5MJ71_9HIV1,
|82281861|sp|Q5MC92|Q5MC92_9HIV1,
|82281859|sp|Q5MC90|Q5MC90_9HIV1,
|82281856|sp|Q5MC88|Q5MC88_9HIV1,
|82281854|sp|Q5MC86|Q5MC86_9HIV1,
|82281852|sp|Q5MC84|Q5MC84_9HIV1,
|82281850|sp|Q5MC82|Q5MC82_9HIV1,
|82281848|sp|Q5MC80|Q5MC80_9HIV1,
|82281846|sp|Q5MC78|Q5MC78_9HIV1,
|82281843|sp|Q5MC76|Q5MC76_9HIV1,
|82281840|sp|Q5MC74|Q5MC74_9HIV1,
|82281838|sp|Q5MC72|Q5MC72_9HIV1,
|82281836|sp|Q5MC70|Q5MC70_9HIV1,
|82281834|sp|Q5MC68|Q5MC68_9HIV1,
|82281832|sp|Q5MC66|Q5MC66_9HIV1,
|82281829|sp|Q5MC64|Q5MC64_9HIV1,
|82281827|sp|Q5MC62|Q5MC62_9HIV1,

|82281826|sp|Q5MC61|Q5MC61_9HIV1,
|82281824|sp|Q5MC59|Q5MC59_9HIV1,
|82281822|sp|Q5MC57|Q5MC57_9HIV1,
|82281820|sp|Q5MC55|Q5MC55_9HIV1,
|82281817|sp|Q5MC53|Q5MC53_9HIV1,
|82281815|sp|Q5MC51|Q5MC51_9HIV1,
|82281813|sp|Q5MC49|Q5MC49_9HIV1,
|82281811|sp|Q5MC47|Q5MC47_9HIV1,
|82281809|sp|Q5MC45|Q5MC45_9HIV1,
|82281806|sp|Q5MC43|Q5MC43_9HIV1,
|82281804|sp|Q5MC40|Q5MC40_9HIV1,
|82281802|sp|Q5MC38|Q5MC38_9HIV1,
|82281800|sp|Q5MC36|Q5MC36_9HIV1,
|82281798|sp|Q5MC34|Q5MC34_9HIV1,
|82281795|sp|Q5MC32|Q5MC32_9HIV1,
|82281793|sp|Q5MC30|Q5MC30_9HIV1,
|82281791|sp|Q5MC28|Q5MC28_9HIV1,
|82281789|sp|Q5MC26|Q5MC26_9HIV1,
|82281786|sp|Q5MC24|Q5MC24_9HIV1,
|82281784|sp|Q5MC22|Q5MC22_9HIV1,
|82281782|sp|Q5MC20|Q5MC20_9HIV1,
|82281780|sp|Q5MC18|Q5MC18_9HIV1,
|82281778|sp|Q5MC16|Q5MC16_9HIV1,
|82281775|sp|Q5MC14|Q5MC14_9HIV1,
|82281773|sp|Q5MC12|Q5MC12_9HIV1,
|82281771|sp|Q5MC10|Q5MC10_9HIV1,
|82281769|sp|Q5MC08|Q5MC08_9HIV1,
|82281767|sp|Q5MC06|Q5MC06_9HIV1,
|82281764|sp|Q5MC04|Q5MC04_9HIV1,
|82281762|sp|Q5MC02|Q5MC02_9HIV1,
|82281760|sp|Q5MC00|Q5MC00_9HIV1,
|82281758|sp|Q5MBZ8|Q5MBZ8_9HIV1,
|82281756|sp|Q5MBZ6|Q5MBZ6_9HIV1,
|82281754|sp|Q5MBZ4|Q5MBZ4_9HIV1,
|82281752|sp|Q5MBZ2|Q5MBZ2_9HIV1,
|82281750|sp|Q5MBZ0|Q5MBZ0_9HIV1,
|82281748|sp|Q5MBY8|Q5MBY8_9HIV1,
|82281746|sp|Q5MBY6|Q5MBY6_9HIV1,
|82281744|sp|Q5MBY4|Q5MBY4_9HIV1,
|82281741|sp|Q5MBY2|Q5MBY2_9HIV1,
|82281739|sp|Q5MBY0|Q5MBY0_9HIV1,
|82281737|sp|Q5MBX8|Q5MBX8_9HIV1,
|82281735|sp|Q5MBD6|Q5MBD6_9HIV1,
|82281733|sp|Q5MBD4|Q5MBD4_9HIV1,
|82281731|sp|Q5MBD2|Q5MBD2_9HIV1,
|82281729|sp|Q5MBD0|Q5MBD0_9HIV1,
|82281727|sp|Q5MBC8|Q5MBC8_9HIV1,
|82281725|sp|Q5MBC6|Q5MBC6_9HIV1,

|82281825|sp|Q5MC60|Q5MC60_9HIV1,
|82281823|sp|Q5MC58|Q5MC58_9HIV1,
|82281821|sp|Q5MC56|Q5MC56_9HIV1,
|82281818|sp|Q5MC54|Q5MC54_9HIV1,
|82281816|sp|Q5MC52|Q5MC52_9HIV1,
|82281814|sp|Q5MC50|Q5MC50_9HIV1,
|82281812|sp|Q5MC48|Q5MC48_9HIV1,
|82281810|sp|Q5MC46|Q5MC46_9HIV1,
|82281807|sp|Q5MC44|Q5MC44_9HIV1,
|82281805|sp|Q5MC42|Q5MC42_9HIV1,
|82281803|sp|Q5MC39|Q5MC39_9HIV1,
|82281801|sp|Q5MC37|Q5MC37_9HIV1,
|82281799|sp|Q5MC35|Q5MC35_9HIV1,
|82281796|sp|Q5MC33|Q5MC33_9HIV1,
|82281794|sp|Q5MC31|Q5MC31_9HIV1,
|82281792|sp|Q5MC29|Q5MC29_9HIV1,
|82281790|sp|Q5MC27|Q5MC27_9HIV1,
|82281787|sp|Q5MC25|Q5MC25_9HIV1,
|82281785|sp|Q5MC23|Q5MC23_9HIV1,
|82281783|sp|Q5MC21|Q5MC21_9HIV1,
|82281781|sp|Q5MC19|Q5MC19_9HIV1,
|82281779|sp|Q5MC17|Q5MC17_9HIV1,
|82281776|sp|Q5MC15|Q5MC15_9HIV1,
|82281774|sp|Q5MC13|Q5MC13_9HIV1,
|82281772|sp|Q5MC11|Q5MC11_9HIV1,
|82281770|sp|Q5MC09|Q5MC09_9HIV1,
|82281768|sp|Q5MC07|Q5MC07_9HIV1,
|82281766|sp|Q5MC05|Q5MC05_9HIV1,
|82281763|sp|Q5MC03|Q5MC03_9HIV1,
|82281761|sp|Q5MC01|Q5MC01_9HIV1,
|82281759|sp|Q5MBZ9|Q5MBZ9_9HIV1,
|82281757|sp|Q5MBZ7|Q5MBZ7_9HIV1,
|82281755|sp|Q5MBZ5|Q5MBZ5_9HIV1,
|82281753|sp|Q5MBZ3|Q5MBZ3_9HIV1,
|82281751|sp|Q5MBZ1|Q5MBZ1_9HIV1,
|82281749|sp|Q5MBY9|Q5MBY9_9HIV1,
|82281747|sp|Q5MBY7|Q5MBY7_9HIV1,
|82281745|sp|Q5MBY5|Q5MBY5_9HIV1,
|82281742|sp|Q5MBY3|Q5MBY3_9HIV1,
|82281740|sp|Q5MBY1|Q5MBY1_9HIV1,
|82281738|sp|Q5MBX9|Q5MBX9_9HIV1,
|82281736|sp|Q5MBD7|Q5MBD7_9HIV1,
|82281734|sp|Q5MBD5|Q5MBD5_9HIV1,
|82281732|sp|Q5MBD3|Q5MBD3_9HIV1,
|82281730|sp|Q5MBD1|Q5MBD1_9HIV1,
|82281728|sp|Q5MBC9|Q5MBC9_9HIV1,
|82281726|sp|Q5MBC7|Q5MBC7_9HIV1,
|82281724|sp|Q5MBC5|Q5MBC5_9HIV1,

82281722 sp Q5MBC4 Q5MBC4_9HIV1,	82281721 sp Q5MBC3 Q5MBC3_9HIV1,
82281720 sp Q5MBC2 Q5MBC2_9HIV1,	82281719 sp Q5MBC1 Q5MBC1_9HIV1,
82281718 sp Q5MBC0 Q5MBC0_9HIV1,	82281717 sp Q5MBB9 Q5MBB9_9HIV1,
82281716 sp Q5MBB8 Q5MBB8_9HIV1,	82281715 sp Q5MBB7 Q5MBB7_9HIV1,
82281714 sp Q5MBB6 Q5MBB6_9HIV1,	82281713 sp Q5MBB5 Q5MBB5_9HIV1,
82281712 sp Q5MBB4 Q5MBB4_9HIV1,	82281236 sp P87925 P87925_9HIV1,
82281203 sp O93204 O93204_9HIV1,	82281180 sp O93025 O93025_9HIV1,
82281155 sp O92887 O92887_9HIV1,	82281072 sp O92593 O92593_9HIV1,
82280765 sp O91186 O91186_9HIV1,	82280764 sp O91185 O91185_9HIV1,
82280763 sp O91184 O91184_9HIV1,	82280762 sp O91183 O91183_9HIV1,
82280740 sp O91078 O91078_9HIV1,	82280739 sp O91077 O91077_9HIV1,
82280738 sp O91076 O91076_9HIV1,	82280737 sp O91075 O91075_9HIV1,
82280736 sp O91074 O91074_9HIV1,	82280735 sp O91073 O91073_9HIV1,
82280734 sp O91072 O91072_9HIV1,	82280733 sp O91071 O91071_9HIV1,
82280732 sp O91070 O91070_9HIV1,	82280731 sp O91069 O91069_9HIV1,
82280730 sp O91068 O91068_9HIV1,	82280729 sp O91067 O91067_9HIV1,
82280728 sp O91066 O91066_9HIV1,	82280727 sp O91065 O91065_9HIV1,
82280726 sp O91064 O91064_9HIV1,	82280725 sp O91063 O91063_9HIV1,
82280724 sp O91062 O91062_9HIV1,	82280723 sp O91061 O91061_9HIV1,
82280722 sp O91060 O91060_9HIV1,	82280721 sp O91059 O91059_9HIV1,
82280720 sp O91058 O91058_9HIV1,	82280719 sp O91057 O91057_9HIV1,
82280718 sp O91056 O91056_9HIV1,	82280717 sp O91055 O91055_9HIV1,
82280716 sp O91054 O91054_9HIV1,	82280715 sp O91053 O91053_9HIV1,
82280714 sp O91052 O91052_9HIV1,	82280713 sp O91051 O91051_9HIV1,
82280712 sp O91050 O91050_9HIV1,	82280711 sp O91049 O91049_9HIV1,
82280710 sp O91048 O91048_9HIV1,	82280709 sp O91047 O91047_9HIV1,
82280708 sp O91046 O91046_9HIV1,	82280707 sp O91045 O91045_9HIV1,
82280706 sp O91044 O91044_9HIV1,	82279882 sp O71256 O71256_9HIV1,
82279832 sp O70680 O70680_9HIV1,	82279581 sp O40522 O40522_9HIV1,
82279580 sp O40521 O40521_9HIV1,	82279579 sp O40520 O40520_9HIV1,
82279578 sp O40519 O40519_9HIV1,	82279577 sp O40518 O40518_9HIV1,
82279576 sp O40517 O40517_9HIV1,	82279575 sp O40516 O40516_9HIV1,
82279528 sp O40367 O40367_9HIV1,	82279527 sp O40365 O40365_9HIV1,
82279526 sp O40363 O40363_9HIV1,	82279525 sp O40362 O40362_9HIV1,
82279524 sp O40361 O40361_9HIV1,	82279523 sp O40359 O40359_9HIV1,
82279522 sp O40358 O40358_9HIV1,	82279479 sp O40223 O40223_9HIV1,
82279466 sp O40178 O40178_9HIV1,	82279465 sp O40177 O40177_9HIV1,
78172857 gb ABB29388.1 ,	78172847 gb ABB29379.1 ,
78172825 gb ABB29359.1 ,	78172819 gb ABB29354.1 ,
55275264 gb AAV49476.1 ,	55275254 gb AAV49467.1 ,
55275234 gb AAV49449.1 ,	55275224 gb AAV49440.1 ,
55275204 gb AAV49422.1 ,	55275194 gb AAV49413.1 ,
55275174 gb AAV49395.1 ,	55275164 gb AAV49386.1 ,
55275144 gb AAV49368.1 ,	55275134 gb AAV49359.1 ,
73914001 gb AAZ91961.1 ,	73913983 gb AAZ91945.1 ,
73913939 gb AAZ91906.1 ,	73913929 gb AAZ91897.1 ,
73913910 gb AAZ91880.1 ,	73913900 gb AAZ91871.1 ,
73913881 gb AAZ91854.1 truncated,	73913871 gb AAZ91845.1 ,

73913861 gb AAZ91836.1 ,	73913851 gb AAZ91827.1 ,	73913841 gb AAZ91818.1 ,
73913831 gb AAZ91809.1 ,	73913821 gb AAZ91800.1 ,	73913811 gb AAZ91791.1 ,
73913802 gb AAZ91783.1 ,		73913792 gb AAZ91774.1 ,
73913782 gb AAZ91765.1 truncated,		73913772 gb AAZ91756.1 ,
73913762 gb AAZ91747.1 ,	46243172 gb AAS83698.1 ,	46243158 gb AAS83685.1 ,
37681539 gb AAQ97649.1 ,	37681549 gb AAQ97658.1 ,	37677912 gb AAQ97577.1 ,
37677902 gb AAQ97568.1 ,	37677892 gb AAQ97559.1 ,	37677882 gb AAQ97550.1 ,
37677872 gb AAQ97541.1 ,	37677862 gb AAQ97532.1 ,	37677842 gb AAQ97514.1 ,
37677832 gb AAQ97505.1 ,	37677822 gb AAQ97496.1 ,	37677811 gb AAQ97486.1 ,
37677802 gb AAQ97478.1 ,	37677791 gb AAQ97468.1 ,	37677782 gb AAQ97460.1 ,
37677772 gb AAQ97451.1 ,	37677762 gb AAQ97442.1 ,	62361775 gb AAX81423.1 ,
71794631 emb CAI28870.1 ,	71794621 emb CAI28861.1 ,	71794611 emb CAI28852.1 ,
71794602 emb CAI28843.1 ,	71794593 emb CAI28834.1 ,	71794583 emb CAI28825.1 ,
57901115 gb AAW57879.1 ,	57901106 gb AAW57871.1 ,	57901096 gb AAW57862.1 ,
57901077 gb AAW57845.1 ,	57901066 gb AAW57835.1 ,	58221045 gb AAW68219.1 ,
58221035 gb AAW68210.1 ,	58221025 gb AAW68201.1 ,	58221015 gb AAW68192.1 ,
58221007 gb AAW68185.1 ,	58220997 gb AAW68176.1 ,	58220987 gb AAW68167.1 ,
58220978 gb AAW68159.1 ,	58220968 gb AAW68150.1 ,	58220958 gb AAW68141.1 ,
58220948 gb AAW68132.1 ,	58220938 gb AAW68123.1 ,	58220928 gb AAW68114.1 ,
58220918 gb AAW68105.1 ,	58220908 gb AAW68096.1 ,	58220898 gb AAW68087.1 ,
58220888 gb AAW68078.1 ,	58220878 gb AAW68069.1 ,	58220868 gb AAW68060.1 ,
38892790 gb AAR27780.1 ,	38892781 gb AAR27772.1 ,	38892771 gb AAR27763.1 ,
38892762 gb AAR27755.1 ,	38892752 gb AAR27746.1 ,	38892744 gb AAR27739.1 ,
38892734 gb AAR27730.1 ,	38892724 gb AAR27721.1 ,	38892714 gb AAR27712.1 ,
38892706 gb AAR27705.1 ,	38892696 gb AAR27696.1 ,	38892687 gb AAR27688.1 ,
38892678 gb AAR27680.1 ,	38892669 gb AAR27672.1 ,	38892662 gb AAR27666.1 ,
38892651 gb AAR27656.1 ,	38892643 gb AAR27649.1 ,	38892634 gb AAR27641.1 ,
38892626 gb AAR27634.1 ,	38892617 gb AAR27626.1 ,	38892607 gb AAR27617.1 ,
55139356 gb AAV41369.1 ,	55139347 gb AAV41361.1 ,	55139336 gb AAV41351.1 ,
55139326 gb AAV41342.1 ,	55139319 gb AAV41336.1 ,	55139315 gb AAV41333.1 ,
55139306 gb AAV41325.1 ,	55139297 gb AAV41317.1 ,	55139286 gb AAV41307.1 ,
55139277 gb AAV41299.1 ,	55139268 gb AAV41291.1 ,	55139260 gb AAV41284.1 ,
68522161 gb AAV98746.1 ,	68522151 gb AAV98737.1 ,	68522142 gb AAV98729.1 ,
68522132 gb AAV98720.1 ,	68522122 gb AAV98711.1 ,	68522112 gb AAV98702.1 ,
68522102 gb AAV98693.1 ,	68522092 gb AAV98684.1 ,	68522082 gb AAV98675.1 ,
68522072 gb AAV98666.1 ,	68522062 gb AAV98657.1 ,	68522052 gb AAV98648.1 ,
68522042 gb AAV98639.1 ,	68522032 gb AAV98630.1 ,	68522022 gb AAV98621.1 ,
68522012 gb AAV98612.1 ,	68522002 gb AAV98603.1 ,	68521992 gb AAV98594.1 ,
68521982 gb AAV98585.1 ,	68521972 gb AAV98576.1 ,	68521962 gb AAV98567.1 ,
68521952 gb AAV98558.1 ,	68521942 gb AAV98549.1 ,	67553119 gb AAV68704.1 ,
67553109 gb AAV68695.1 ,	67553099 gb AAV68686.1 ,	67553089 gb AAV68677.1 ,
67553079 gb AAV68668.1 ,	67553069 gb AAV68659.1 ,	67553059 gb AAV68650.1 ,
67553049 gb AAV68641.1 ,	67553039 gb AAV68632.1 ,	67553029 gb AAV68623.1 ,
67553004 gb AAV68601.1 ,	67552994 gb AAV68592.1 ,	67552984 gb AAV68583.1 ,
66473535 gb AAV46415.1 ,	55416517 gb AAV50222.1 ,	55416515 gb AAV50221.1 ,
55416513 gb AAV50220.1 ,	55416511 gb AAV50219.1 ,	55416509 gb AAV50218.1 ,
55416507 gb AAV50217.1 ,	55416505 gb AAV50216.1 ,	55416503 gb AAV50215.1 ,
55416501 gb AAV50214.1 ,	55416499 gb AAV50213.1 ,	55416497 gb AAV50212.1 ,

|55416495|gb|AAV50211.1|, |55416493|gb|AAV50210.1|, |55416491|gb|AAV50209.1|,
 |55416489|gb|AAV50208.1|, |55416487|gb|AAV50207.1|, |55416483|gb|AAV50205.1|,
 |55416485|gb|AAV50206.1|truncated, |55416479|gb|AAV50203.1|, |55416477|gb|AAV50202.1|,
 |55416481|gb|AAV50204.1|, |55416475|gb|AAV50201.1|, |55416473|gb|AAV50200.1|, |55416471|gb|AAV50199.1|,
 |55416469|gb|AAV50198.1|truncated, |55416467|gb|AAV50197.1|, |55416463|gb|AAV50195.1|,
 |55416465|gb|AAV50196.1|, |55416461|gb|AAV50194.1|, |55416457|gb|AAV50192.1|,
 |55416459|gb|AAV50193.1|, |55416455|gb|AAV50191.1|, |55416451|gb|AAV50189.1|,
 |55416453|gb|AAV50190.1|, |55416449|gb|AAV50188.1|, |55416445|gb|AAV50186.1|,
 |55416447|gb|AAV50187.1|, |55416443|gb|AAV50185.1|, |55416439|gb|AAV50183.1|,
 |55416441|gb|AAV50184.1|, |55416437|gb|AAV50182.1|, |55416433|gb|AAV50180.1|,
 |55416435|gb|AAV50181.1|, |55416431|gb|AAV50179.1|, |55416427|gb|AAV50177.1|,
 |55416429|gb|AAV50178.1|, |55416425|gb|AAV50176.1|, |55416421|gb|AAV50174.1|,
 |55416423|gb|AAV50175.1|, |55416419|gb|AAV50173.1|, |63098438|gb|AAV50172.1|,
 |55416417|gb|AAV50172.1|, |63098438|gb|AAV50172.1|, |63098418|gb|AAV50172.1|,
 |63098428|gb|AAV50172.1|truncated, |63098418|gb|AAV50172.1|, |63098388|gb|AAV50172.1|,
 |63098408|gb|AAV50172.1|, |63098398|gb|AAV50172.1|, |63098388|gb|AAV50172.1|,
 |63098378|gb|AAV50172.1|, |63098369|gb|AAV50172.1|, |63098360|gb|AAV50172.1|,
 |63098351|gb|AAV50172.1|, |63098341|gb|AAV50172.1|, |63098341|gb|AAV50172.1|,
 |63098331|gb|AAV50172.1|truncated, |63098321|gb|AAV50172.1|, |63098293|gb|AAV50172.1|,
 |63098312|gb|AAV50172.1|, |63098303|gb|AAV50172.1|, |63098293|gb|AAV50172.1|,
 |56609344|gb|AAW03294.1|, |56609333|gb|AAW03285.1|, |56609317|gb|AAW03271.1|,
 |56609307|gb|AAW03262.1|, |56609297|gb|AAW03253.1|, |56609287|gb|AAW03244.1|,
 |56609277|gb|AAW03235.1|, |56609267|gb|AAW03226.1|, |56609257|gb|AAW03217.1|,
 |56609247|gb|AAW03208.1|, |3417244|emb|CAA76913.1|, |3417242|emb|CAA76912.1|,
 |3413755|emb|CAA76922.1|, |3413753|emb|CAA76921.1|, |3413751|emb|CAA76920.1|,
 |3413749|emb|CAA76919.1|, |3413747|emb|CAA76918.1|, |3413745|emb|CAA76917.1|,
 |3413743|emb|CAA76916.1|, |3413741|emb|CAA76915.1|, |3413739|emb|CAA76914.1|,
 |60200|emb|CAA77629.1|, |3163938|emb|CAA06954.1|, |37496504|emb|CAD48460.1|,
 |37496496|emb|CAD48453.1|, |37496488|emb|CAD48446.1|, |32399672|emb|CAD58651.1|,
 |32399664|emb|CAD58642.1|, |18074007|emb|CAC86572.1|, |18073417|emb|CAC88007.1|,
 |18073407|emb|CAC87998.1|, |15209258|emb|CAC51037.1|, |14041644|emb|CAC38428.1|,
 |14041634|emb|CAC38437.1|, |9368387|emb|CAB98176.1|, |9368377|emb|CAB98194.1|,
 |7657897|emb|CAB89151.1|, |7452917|emb|CAB86382.1|, |7452907|emb|CAB86373.1|,
 |7321152|emb|CAB82234.1|, |7321142|emb|CAB82225.1|, |5738574|emb|CAB53050.1|,
 |4539057|emb|CAB39746.1|, |4539042|emb|CAB39924.1|, |59895879|gb|AAX11319.1|,
 |59895877|gb|AAX11318.1|, |59895875|gb|AAX11317.1|, |59895873|gb|AAX11316.1|,
 |59895870|gb|AAX11315.1|, |59895868|gb|AAX11314.1|, |59895864|gb|AAX11313.1|,
 |59895860|gb|AAX11312.1|, |59895858|gb|AAX11311.1|, |59895856|gb|AAX11310.1|,
 |59895854|gb|AAX11309.1|, |59895852|gb|AAX11308.1|, |59895849|gb|AAX11307.1|,
 |59895847|gb|AAX11306.1|, |59895845|gb|AAX11305.1|, |59895843|gb|AAX11304.1|,
 |59895841|gb|AAX11303.1|, |59895838|gb|AAX11302.1|, |59895836|gb|AAX11301.1|,
 |59895834|gb|AAX11300.1|, |59895832|gb|AAX11299.1|, |59895829|gb|AAX11298.1|,
 |59895827|gb|AAX11297.1|, |59895825|gb|AAX11296.1|, |59895823|gb|AAX11295.1|,
 |59895821|gb|AAX11294.1|, |59895819|gb|AAX11293.1|, |59895817|gb|AAX11292.1|,
 |59895815|gb|AAX11291.1|, |59895813|gb|AAX11290.1|, |59895811|gb|AAX11289.1|,
 |59895807|gb|AAX11288.1|, |59895805|gb|AAX11287.1|, |59895803|gb|AAX11286.1|,
 |59895801|gb|AAX11285.1|, |59895799|gb|AAX11284.1|, |59895797|gb|AAX11283.1|,

59895795 gb AA X11282.1 ,	59895793 gb AA X11281.1 ,	59895791 gb AA X11280.1 ,
59895789 gb AA X11279.1 ,	59895787 gb AA X11278.1 ,	59895785 gb AA X11277.1 ,
59895783 gb AA X11276.1 ,	59895778 gb AA X11275.1 ,	59895776 gb AA X11274.1 ,
59895774 gb AA X11273.1 ,	59895772 gb AA X11272.1 ,	59895770 gb AA X11271.1 ,
59895768 gb AA X11270.1 ,	59895766 gb AA X11269.1 ,	59895764 gb AA X11268.1 ,
59003675 gb AA W83670.1 ,		59003665 gb AA W83661.1 ,
59003655 gb AA W83652.1 truncated,		59003645 gb AA W83643.1 ,
59003635 gb AA W83634.1 ,	59003625 gb AA W83625.1 ,	59003616 gb AA W83617.1 ,
59003606 gb AA W83608.1 ,	59003596 gb AA W83599.1 ,	59003586 gb AA W83590.1 ,
59003576 gb AA W83581.1 ,	59003566 gb AA W83572.1 ,	59003556 gb AA W83563.1 ,
59003546 gb AA W83554.1 ,	59003536 gb AA W83545.1 ,	59003526 gb AA W83536.1 ,
59003516 gb AA W83527.1 ,	45738228 gb AA S75886.1 ,	45738218 gb AA S75877.1 ,
57904558 gb AA W58814.1 ,	57904556 gb AA W58813.1 ,	57904554 gb AA W58812.1 ,
57904552 gb AA W58811.1 ,	57904548 gb AA W58810.1 ,	57904546 gb AA W58809.1 ,
57904544 gb AA W58808.1 ,	57904542 gb AA W58807.1 ,	57904540 gb AA W58806.1 ,
57904537 gb AA W58805.1 ,	57904535 gb AA W58804.1 ,	57904533 gb AA W58803.1 ,
57904531 gb AA W58802.1 ,	57904529 gb AA W58801.1 ,	57904527 gb AA W58800.1 ,
57338570 gb AA W49364.1 ,	57338561 gb AA W49356.1 ,	57338554 gb AA W49350.1 ,
57338547 gb AA W49344.1 ,	56609039 gb AA W03150.1 ,	56609037 gb AA W03149.1 ,
56609035 gb AA W03148.1 ,	56609033 gb AA W03147.1 ,	56609031 gb AA W03146.1 ,
56609029 gb AA W03145.1 ,	56609026 gb AA W03144.1 ,	56609024 gb AA W03143.1 ,
56609022 gb AA W03142.1 ,	56609020 gb AA W03141.1 ,	56609018 gb AA W03140.1 ,
56609016 gb AA W03139.1 ,	56609014 gb AA W03138.1 ,	56609012 gb AA W03137.1 ,
56609010 gb AA W03136.1 ,	56609008 gb AA W03135.1 ,	56609006 gb AA W03134.1 ,
56609004 gb AA W03133.1 ,	56609002 gb AA W03132.1 ,	56609000 gb AA W03131.1 ,
56608998 gb AA W03130.1 ,	56608996 gb AA W03129.1 ,	56608994 gb AA W03128.1 ,
56608992 gb AA W03127.1 ,	56608990 gb AA W03126.1 ,	56608988 gb AA W03125.1 ,
56608986 gb AA W03124.1 ,	56608984 gb AA W03123.1 ,	56608982 gb AA W03122.1 ,
56608980 gb AA W03121.1 ,	56608978 gb AA W03120.1 ,	56608976 gb AA W03119.1 ,
56608974 gb AA W03118.1 ,	56608972 gb AA W03117.1 ,	56608970 gb AA W03116.1 ,
56608968 gb AA W03115.1 ,	56608966 gb AA W03114.1 ,	56608964 gb AA W03113.1 ,
56608962 gb AA W03112.1 ,	56608960 gb AA W03111.1 ,	56608958 gb AA W03110.1 ,
56608956 gb AA W03109.1 ,	56608954 gb AA W03108.1 ,	56608952 gb AA W03107.1 ,
56608950 gb AA W03106.1 ,	56608948 gb AA W03105.1 ,	56608946 gb AA W03104.1 ,
56608944 gb AA W03103.1 ,	56608942 gb AA W03102.1 ,	56608940 gb AA W03101.1 ,
56608938 gb AA W03100.1 ,	56608936 gb AA W03099.1 ,	56608934 gb AA W03098.1 ,
56608932 gb AA W03097.1 ,	56608930 gb AA W03096.1 ,	56608928 gb AA W03095.1 ,
56608926 gb AA W03094.1 ,	56608924 gb AA W03093.1 ,	56608922 gb AA W03092.1 ,
56608920 gb AA W03091.1 ,	56608918 gb AA W03090.1 ,	56608916 gb AA W03089.1 ,
56608914 gb AA W03088.1 ,	56608912 gb AA W03087.1 ,	56608910 gb AA W03086.1 ,
56608908 gb AA W03085.1 ,	56608906 gb AA W03084.1 ,	56608904 gb AA W03083.1 ,
56608902 gb AA W03082.1 ,	56608900 gb AA W03081.1 ,	56608898 gb AA W03080.1 ,
56608896 gb AA W03079.1 ,	56608894 gb AA W03078.1 ,	56608892 gb AA W03077.1 ,
56608890 gb AA W03076.1 ,	56608888 gb AA W03075.1 ,	56608886 gb AA W03074.1 ,
56608884 gb AA W03073.1 ,	56608882 gb AA W03072.1 ,	56608880 gb AA W03071.1 ,
56608878 gb AA W03070.1 ,	56608876 gb AA W03069.1 ,	56608874 gb AA W03068.1 ,
56608872 gb AA W03067.1 ,	56608870 gb AA W03066.1 ,	56608868 gb AA W03065.1 ,
56608866 gb AA W03064.1 ,	56608864 gb AA W03063.1 ,	56608862 gb AA W03062.1 ,

|56608860|gb|AAW03061.1|, |56608858|gb|AAW03060.1|, |56608856|gb|AAW03059.1|,
 |56608854|gb|AAW03058.1|, |56608852|gb|AAW03057.1|, |56608850|gb|AAW03056.1|,
 |56608848|gb|AAW03055.1|, |56608846|gb|AAW03054.1|, |56608844|gb|AAW03053.1|,
 |56608842|gb|AAW03052.1|, |56608840|gb|AAW03051.1|, |56608838|gb|AAW03050.1|,
 |56608836|gb|AAW03049.1|, |56608834|gb|AAW03048.1|, |56608832|gb|AAW03047.1|,
 |56608830|gb|AAW03046.1|, |56608828|gb|AAW03045.1|, |56608826|gb|AAW03044.1|,
 |56608824|gb|AAW03043.1|, |56608822|gb|AAW03042.1|, |56608820|gb|AAW03041.1|,
 |56608818|gb|AAW03040.1|, |56608816|gb|AAW03039.1|, |56608814|gb|AAW03038.1|,
 |56608812|gb|AAW03037.1|, |56608810|gb|AAW03036.1|, |56608808|gb|AAW03035.1|,
 |55925143|gb|AAV67947.1|, |55925135|gb|AAV67940.1|, |55925127|gb|AAV67933.1|,
 |55925119|gb|AAV67926.1|, |51572130|gb|AAU06777.1|, |51572120|gb|AAU06768.1|,
 |51572111|gb|AAU06760.1|, |51572102|gb|AAU06752.1|, |47060062|gb|AAT09648.1|,
 |49472956|gb|AAT66298.1|, |49472947|gb|AAT66290.1|, |49472939|gb|AAT66283.1|,
 |49472930|gb|AAT66275.1|, |37682607|gb|AAQ98287.1|, |37682597|gb|AAQ98278.1|,
 |37682587|gb|AAQ98269.1|, |37682577|gb|AAQ98260.1|, |37682568|gb|AAQ98252.1|,
 |37682558|gb|AAQ98243.1|, |37682548|gb|AAQ98234.1|, |37682538|gb|AAQ98225.1|,
 |37682528|gb|AAQ98216.1|, |37682518|gb|AAQ98207.1|, |37682508|gb|AAQ98198.1|,
 |37682498|gb|AAQ98189.1|, |37682489|gb|AAQ98181.1|, |37682479|gb|AAQ98172.1|,
 |37682469|gb|AAQ98163.1|, |37682459|gb|AAQ98154.1|, |37682439|gb|AAQ98136.1|,
 |37682449|gb|AAQ98145.1|truncated, |46486670|gb|AAS98773.1|,
 |37682429|gb|AAQ98127.1|, |37682418|gb|AAQ98117.1|, |46486652|gb|AAS98757.1|,
 |46486662|gb|AAS98766.1|, |46486644|gb|AAS98750.1|, |46254446|gb|AAS86196.1|,
 |46486633|gb|AAS98740.1|, |46254422|gb|AAS86180.1|, |46254412|gb|AAS86171.1|,
 |46254402|gb|AAS86162.1|, |38679165|gb|AAR26417.1|, |38679155|gb|AAR26408.1|,
 |38679139|gb|AAR26394.1|, |19072112|dbj|BAB85759.1|, |32261289|gb|AAP74188.1|,
 |32261278|gb|AAP74178.1|, |32261267|gb|AAP74168.1|, |32351110|gb|AAP76518.1|,
 |31980444|dbj|BAC77763.1|, |31980434|dbj|BAC77754.1|, |31980424|dbj|BAC77745.1|,
 |31980414|dbj|BAC77736.1|, |31559698|dbj|BAC77519.1|, |31559688|dbj|BAC77510.1|,
 |31559678|dbj|BAC77501.1|, |31559670|dbj|BAC77494.1|, |31559660|dbj|BAC77485.1|,
 |31559650|dbj|BAC77476.1|, |31559640|dbj|BAC77467.1|, |31559630|dbj|BAC77458.1|,
 |31559622|dbj|BAC77451.1|, |4539079|emb|CAB39754.1|,
 |52000760|sp|Q9QPN3|NEF_HV1LA, |128023|sp|P03406|NEF_HV1BR,
 |128022|sp|P03407|NEF_HV1A2, |6093480|sp|P04601|NEF_HV1H2,
 |548343|sp|P35959|NEF_HV1Y2, |3024191|sp|Q70627|NEF_HV1LW,
 |128018|sp|P04324|NEF_HV112, |52001459|sp|P05854|NEF_HV1H3,
 |128027|sp|P19546|NEF_HV1S1, |128026|sp|P19545|NEF_HV1S3,
 |52001461|sp|P05857|NEF_HV1SC, |52001460|sp|P05856|NEF_HV1MN,
 |128041|sp|P04602|NEF_HV1Z6, |128038|sp|P24741|NEF_HV1U4,
 |128036|sp|P05858|NEF_HV1RH, |128035|sp|P03405|NEF_HV1PV,
 |128034|sp|P20886|NEF_HV1OY, |128033|sp|P04603|NEF_HV1MA,
 |128031|sp|P18801|NEF_HV1ND, |128029|sp|P12479|NEF_HV1BN,
 |128028|sp|P05859|NEF_HV1ZH, |128025|sp|P04604|NEF_HV1EL,
 |128024|sp|P20867|NEF_HV1JR, |128021|sp|P05855|NEF_HV1B8,
 |128017|sp|P03404|NEF_HV1B1, |18766391|gb|AAL78997.1|AF465242_9,
 |10436129|gb|AAG16809.1|, |10436110|gb|AAG16792.1|, |1688158|gb|AAB36918.1|,
 |1688156|gb|AAB36917.1|, |1688154|gb|AAB36916.1|, |1688152|gb|AAB36915.1|,
 |1688150|gb|AAB36914.1|, |1688148|gb|AAB36913.1|, |1688146|gb|AAB36912.1|,
 |1688144|gb|AAB36911.1|, |1688142|gb|AAB36910.1|, |1688140|gb|AAB36909.1|,

|1688138|gb|AAB36908.1|, |1688136|gb|AAB36907.1|, |1688134|gb|AAB36906.1|,
 |1688132|gb|AAB36905.1|, |1688130|gb|AAB36904.1|, |1688128|gb|AAB36903.1|,
 |1688126|gb|AAB36902.1|, |1688124|gb|AAB36901.1|, |1688122|gb|AAB36900.1|,
 |1688120|gb|AAB36899.1|, |1688118|gb|AAB36898.1|, |221482|dbj|BAA00999.1|,
 |1899130|gb|AAC57010.1|, |82278513|sp|O11408|O11408_9PLVG, |77272|pir|S03245,
 |77270|pir|S03246, |77269|pir|S03247, |326684|gb|AAA44330.1|,
 |18426920|gb|AAL69558.1|, |328560|gb|AAB59874.1|, |4262345|gb|AAD14581.1|,
 |82298824|sp|Q8QDN3|Q8QDN3_9PLVG, |9629924|ref|NP_046131.1|,
 |2895574|gb|AAD12143.1|, |2828046|gb|AAB99967.1|,
 |18699188|gb|AAL78448.1|AF413987_3, |58700475|gb|AAW80949.1|,
 |58700473|gb|AAW80948.1|, |58700471|gb|AAW80947.1|, |58700469|gb|AAW80946.1|,
 |58700467|gb|AAW80945.1|, |58700465|gb|AAW80944.1|, |58700463|gb|AAW80943.1|,
 |58700461|gb|AAW80942.1|, |328639|gb|AAA45064.1|, |328424|gb|AAA44993.1|,
 |392792|gb|AAA03700.1| HIV-1 consensus, |82294586|sp|Q85737|Q85737_9HIV1 HIV-1
 consensus, |18699252|gb|AAL78493.1|AF414006_5, |1732492|gb|AAB38839.1|,
 |1732483|gb|AAB38831.1|, |33358354|gb|AAQ16648.1|, |33358352|gb|AAQ16647.1|,
 |33358350|gb|AAQ16646.1|, |33358348|gb|AAQ16645.1|, |33358346|gb|AAQ16644.1|,
 |33358344|gb|AAQ16643.1|, |33358342|gb|AAQ16642.1|, |33358340|gb|AAQ16641.1|,
 |33358338|gb|AAQ16640.1|, |33358336|gb|AAQ16639.1|, |33358334|gb|AAQ16638.1|,
 |33358331|gb|AAQ16637.1|, |33358329|gb|AAQ16636.1|, |37725255|gb|AAR02317.1|,
 |37725235|gb|AAR02299.1|, |37725225|gb|AAR02290.1|, |37725215|gb|AAR02281.1|,
 |37725205|gb|AAR02272.1|, |37725193|gb|AAR02261.1|, |27227859|dbj|BAC45032.1|,
 |27227849|dbj|BAC45023.1|, |23954644|gb|AAN40113.1|truncated,
 |23954624|gb|AAN40103.1|truncated, |1794250|gb|AAC56429.1|, |1794248|gb|AAC56428.1|,
 |1794246|gb|AAC56427.1|, |1794244|gb|AAC56426.1|, |1794242|gb|AAC56425.1|,
 |1794240|gb|AAC56424.1|, |1794238|gb|AAC56423.1|, |1794236|gb|AAC56422.1|,
 |1794234|gb|AAC56421.1|, |1794232|gb|AAC56420.1|, |1794230|gb|AAC56419.1|,
 |1794228|gb|AAC56418.1|, |1794225|gb|AAC56417.1|, |328448|gb|AAA83398.1|,
 |328038|gb|AAA44858.1|, |82304199|sp|Q9E526|Q9E526_9HIV1,
 |82295433|sp|Q8AC97|Q8AC97_9HIV1, |82295432|sp|Q8AC89|Q8AC89_9HIV1,
 |82287838|sp|Q6WWX7|Q6WWX7_9HIV1, |82287837|sp|Q6WWX6|Q6WWX6_9HIV1,
 |82287836|sp|Q6WWX5|Q6WWX5_9HIV1, |82287835|sp|Q6WWX4|Q6WWX4_9HIV1,
 |82287834|sp|Q6WWX3|Q6WWX3_9HIV1, |82287833|sp|Q6WWX2|Q6WWX2_9HIV1,
 |82287832|sp|Q6WWX1|Q6WWX1_9HIV1, |82287831|sp|Q6WWX0|Q6WWX0_9HIV1,
 |82287830|sp|Q6WWW9|Q6WWW9_9HIV1, |82287829|sp|Q6WWW8|Q6WWW8_9HIV1,
 |82287828|sp|Q6WWW7|Q6WWW7_9HIV1, |82287827|sp|Q6WWW6|Q6WWW6_9HIV1,
 |82287826|sp|Q6WWW5|Q6WWW5_9HIV1, |82281651|sp|P90287|P90287_9HIV1,
 |82281644|sp|P90278|P90278_9HIV1, |82281643|sp|P90277|P90277_9HIV1,
 |82281642|sp|P90276|P90276_9HIV1, |82281641|sp|P90275|P90275_9HIV1,
 |82281640|sp|P90274|P90274_9HIV1, |82281638|sp|P90273|P90273_9HIV1,
 |82281637|sp|P90272|P90272_9HIV1, |82281636|sp|P90271|P90271_9HIV1,
 |82281635|sp|P90270|P90270_9HIV1, |82281634|sp|P90269|P90269_9HIV1,
 |82281633|sp|P90268|P90268_9HIV1, |82281632|sp|P90267|P90267_9HIV1,
 |82281631|sp|P90266|P90266_9HIV1, |82281285|sp|P88528|P88528_9HIV1,
 |82281284|sp|P88526|P88526_9HIV1, |82281283|sp|P88524|P88524_9HIV1,
 |82281268|sp|P88425|P88425_9HIV1, |82281267|sp|P88424|P88424_9HIV1,
 |82281266|sp|P88423|P88423_9HIV1, |82281265|sp|P88422|P88422_9HIV1,
 |82281264|sp|P88421|P88421_9HIV1, |82281263|sp|P88420|P88420_9HIV1,

82281262 sp P88419 P88419_9HIV1,	82281261 sp P88418 P88418_9HIV1,	
82281260 sp P88417 P88417_9HIV1,	82281259 sp P88416 P88416_9HIV1,	
82281258 sp P88415 P88415_9HIV1,	82281257 sp P88414 P88414_9HIV1,	
82281256 sp P88413 P88413_9HIV1,	82281255 sp P88412 P88412_9HIV1,	
82281254 sp P88411 P88411_9HIV1,	82281253 sp P88410 P88410_9HIV1,	
82281252 sp P88409 P88409_9HIV1,	82281251 sp P88408 P88408_9HIV1,	
82281250 sp P88407 P88407_9HIV1,	82281249 sp P88406 P88406_9HIV1,	
82281248 sp P88405 P88405_9HIV1,	82281247 sp P88204 P88204_9HIV1,	
82281243 sp P88156 P88156_9HIV1,	82278599 sp O11910 O11910_9HIV1,	
82278598 sp O11909 O11909_9HIV1,	82278597 sp O11908 O11908_9HIV1,	
82278596 sp O11907 O11907_9HIV1,	82278595 sp O11906 O11906_9HIV1,	
4205077 gb AAD10948.1 ,	4205068 gb AAD10940.1 ,	4205059 gb AAD10932.1 ,
4205050 gb AAD10924.1 ,	4205041 gb AAD10916.1 ,	4205032 gb AAD10908.1 ,
4205023 gb AAD10900.1 ,	4205014 gb AAD10892.1 ,	4205005 gb AAD10884.1 ,
4204996 gb AAD10876.1 ,	328667 gb AAB59883.1 ,	326425 gb AAB59752.1 ,
329397 gb AAB53951.1 ,	329404 gb AAA45381.1 ,	328574 gb AAA45058.1 ,
328458 gb AAA45001.1 ,	328414 gb AAA44984.1 ,	328163 gb AAA44874.1 ,
326431 gb AAA44222.1 ,	82320738 sp Q52S68 Q52S68_9HIV1,	
82320734 sp Q52S57 Q52S57_9HIV1,	82320731 sp Q52S48 Q52S48_9HIV1,	
82320728 sp Q52S38 Q52S38_9HIV1,	82320725 sp Q52S27 Q52S27_9HIV1,	
82308345 sp Q9YTC4 Q9YTC4_9HIV1,	82308242 sp Q9YP51 Q9YP51_9HIV1,	
82308241 sp Q9YP47 Q9YP47_9HIV1,	82308240 sp Q9YP45 Q9YP45_9HIV1,	
82308239 sp Q9YP38 Q9YP38_9HIV1,	82308238 sp Q9YP30 Q9YP30_9HIV1,	
82308236 sp Q9YP24 Q9YP24_9HIV1,	82308047 sp Q9YJ66 Q9YJ66_9HIV1,	
82307554 sp Q9WJU7 Q9WJU7_9HIV1,	82307552 sp Q9WJU3 Q9WJU3_9HIV1,	
82304713 sp Q9IDV1 Q9IDV1_9HIV1,	82299117 sp Q8USH4 Q8USH4_9HIV1,	
82296624 sp Q8AQP7 Q8AQP7_9HIV1truncated,		
82296614 sp Q8AQN7 Q8AQN7_9HIV1truncated,	82291331 sp Q79789 Q79789_9HIV1,	
82290362 sp Q77695 Q77695_9HIV1,	82287922 sp Q6XDS8 Q6XDS8_9HIV1,	
82287920 sp Q6XDS4 Q6XDS4_9HIV1,	82282601 sp Q5EFT8 Q5EFT8_9HIV1,	
82282600 sp Q5EFT7 Q5EFT7_9HIV1,	82282599 sp Q5EFT6 Q5EFT6_9HIV1,	
82282598 sp Q5EFT5 Q5EFT5_9HIV1,	82282597 sp Q5EFT4 Q5EFT4_9HIV1,	
82282596 sp Q5EFT3 Q5EFT3_9HIV1,	82282595 sp Q5EFT2 Q5EFT2_9HIV1,	
82282594 sp Q5EFT1 Q5EFT1_9HIV1,	62548206 gb AAX86757.1 ,	
62548196 gb AAX86748.1 ,	62548186 gb AAX86739.1 ,	62548176 gb AAX86730.1 ,
62548166 gb AAX86721.1 ,	8920160 emb CAB96346.1 ,	34330007 gb AAO65893.1 ,
34330001 gb AAO65888.1 ,	82291091 sp Q79149 Q79149_9HIV1	

The preferred HIV strains referred to in the present invention, for example against which the present polypeptides should be immunogenic, are those containing these specific proteins. The above accession numbers specify explicitly the identity of the strain in addition to the specific protein sequence.

The percent homology of a first polypeptide sequence to a second polypeptide sequence, as referred to in the context of the present invention, is defined as the number of amino acid

residues in the second sequence that match in both position (either absolute or relative) and identity to those in the first sequence, divided by the total number of amino acid residues in the second polypeptide (both first and second polypeptides must have the same number of amino acid residues) and multiplied by 100. Although not a common occurrence, not all HIV protein sequences are identical in length for all known strains. There are cases of proteins which are one or two amino acids longer or shorter than the general pool. The skilled person can readily identify these proteins. For this reason, the above definition extends to absolute position for proteins of the same length and relative position for proteins of differing lengths.. This does not, however, affect the definition of the reactive position as defined regarding location (e.g. from amino acid 7 to 37) given above. In the present invention, it is preferred that the polypeptide homology to the defined sequences is 75% or more, 85% or more, 95% or more or 100% (or substantially 100%).

The epitopes within the sequences defined above are not especially limited, provided that they contain 7 amino acid residues or more. Preferably the epitopes are of a length that is appropriate for CTL epitopes in a particular vertebrate species, such as in a human, having a specific MHC. Typically the epitopes contain 8, 9, 10, or 11 amino acid residues, but may contain more if desired. Generally an appropriate epitope is one which is a CTL epitope in a vertebrate such as a human.

Typically, the polypeptide comprises between 7 and 100 amino acids, and preferably from 8-50 amino acids. The size should not be so great that useful epitopes suffer from competition with non-protective epitopes in the immune system (for this reason full proteins are not included), nor should the size be so small that only a very narrow range of protection is offered. More preferred ranges are from 8-45 amino acids, 15-45 amino acids and 20-45 amino acids and 15-35 amino acids. The most preferred length is from 25-45 amino acid residues. It is particularly preferred that the polypeptide consists substantially of a sequence selected from the sequences at the positions defined above in the specific list of proteins set out above.

In addition to the polypeptides described above, which should not be larger than 100 amino acid residues in length, the invention also provides multi-epitope immunogenic polypeptides

comprising two or more polypeptides of the present invention. These multi-epitope polypeptides are not limited in size. Thus, they extend not only to the polypeptides having from 7-100 amino acid residues as outlined above, but also to larger polypeptides, provided that these larger polypeptides comprise two or more units, each unit consisting of a polypeptide of the invention. Thus, a polypeptide having 100 repeating units of a 7-mer according to the present invention is encompassed by the present invention, as is a polypeptide having, say 52 units of one 8-mer epitope, and 23 units of a second 10-mer epitope. Polypeptides of this type will not suffer from the competition problems associated with similar length polypeptides that comprise only one or two epitopes. For the avoidance of doubt, the multi-epitope polypeptide may comprise multiple copies of the same epitope, or single copies of a plurality of different epitopes, or multiple copies of 2 or more epitopes.

Also provided by the invention is a polypeptide composition comprising two or more different polypeptides as defined above. Thus, the polypeptide composition may comprise any number of polypeptides of the present invention together in the same mixture or formulation. The presence of a plurality of polypeptides together is useful since each may elicit its own immune response, widening the protective effect of the composition. It is particularly preferred that the composition contains all of the sequences of SEQ ID 1-4 either each in a separate peptide or several in a smaller number of peptides (e.g. 3 combined in one larger peptide and the other three 3 in another larger peptide, etc.).

The invention also provides a polypeptide construct, which construct comprises a polypeptide as defined above and a carrier. The construct may be formed by combining two or more epitopes and/or a polypeptide as defined above with the carrier. The carrier may be a molecule, such as an adjuvant and/or an excipient. Combining in this context means either mixing together, or attaching together (e.g. via a covalent linkage).

The present invention further provides a polypeptide as defined above for use in medicine. Also provided is a medicament or vaccine composition against an immunodeficiency virus, such as HIV, comprising a polypeptide as defined above, and one or more appropriate excipients and/or adjuvants (if the carrier part of the construct is itself an excipient or adjuvant, then a further excipient or adjuvant may not be needed). The excipient or adjuvant

is not especially limited, and any excipients or adjuvants commonly used in medicaments and vaccines may be employed. The medicament or vaccine composition may be produced according to any known method appropriately adapted to the present invention, such as by mixing a polypeptide of the invention with an appropriate excipient or adjuvant.

A method of producing a polypeptide as defined above is also provided by the invention. The method is not especially limited, and typically comprises joining two or more epitopes to form the polypeptide. The polypeptide may, however, be synthesised by direct chemical synthesis (e.g. incorporating one amino acid at a time until the full polypeptide is formed) or by recombinant methods. Such general methods are well known to the skilled person and may be adapted to the present invention as desired. In some instances, the polypeptide of the present invention may comprise additional amino acid sequences at one or both termini to help in synthesis of the polypeptide. These additional sequences are preferably from 1-5 amino acids in length. Typically 3 amino acids are involved. For example, one may include a cysteine (C) or a Gly-Cys (G-C) chain at the N or C terminus in order to allow for chemical coupling to other protein components.

The invention still further provides use of a polypeptide or composition as defined above, in the manufacture of a medicament or vaccine, effective in the treatment or prevention of an immunodeficiency virus, such as HIV. Also provided is a method of treating or preventing an immunodeficiency virus such as HIV, which method comprises administering a polypeptide, a composition, a medicament or a vaccine as defined above to a vertebrate. The method of administration is not especially limited, and may comprise sub-cutaneous, intra-muscular, intra-venous, intra-dermal, trans-dermal, or intra-nasal administration, or may be administered orally (e.g. in the form of a pill or a liquid preparation), or may be in the form of a suppository, if desired. The form of such administration preparations is not especially limited, and known forms may be employed with appropriate modifications that will be apparent to the skilled person. The dosage is not especially limited and may range from 1 ng to 100 g of the polypeptide per individual, depending upon the size, weight and species of the individual involved.

The invention may be applied to any vertebrate, since the immune systems of vertebrates operate in a related manner. Typically, the vertebrate referred to in the present context is a mammal. It is especially preferred that the vertebrate is a human.

Examples of human MHCs (HLAs) that may be employed with the present invention include the following:

HLA-A

A*010101, A*010102, A*010103, A*0102, A*0103, A*0104N, A*0106, A*0107, A*0108, A*0109, A*0110, A*02010101, A*02010102L, A*020102, A*020103, A*020104, A*020105, A*020106, A*020107, A*020108, A*020109, A*020110, A*020111, A*0202, A*020301, A*020302, A*0204, A*0205, A*020601, A*020602, A*020603, A*0207, A*0208, A*0209, A*0210, A*0211, A*0212, A*0213, A*0214, A*0215N, A*0216, A*021701, A*021702, A*0218, A*0219, A*022001, A*022002, A*0221, A*0222, A*0224, A*0225, A*0226, A*0227, A*0228, A*0229, A*0230, A*0231, A*0232N, A*0233, A*0234, A*023501, A*023502, A*0236, A*0237, A*0238, A*0239, A*0240, A*0241, A*0242, A*0243N, A*0244, A*0245, A*0246, A*0247, A*0248, A*0249, A*0250, A*0251, A*0252, A*0253N, A*0254, A*0255, A*0256, A*0257, A*0258, A*0259, A*0260, A*0261, A*0262, A*0263, A*0264, A*0265, A*0266, A*0267, A*0268, A*0269, A*0270, A*0271, A*0272, A*0273, A*03010101, A*03010102N, A*03010103, A*030102, A*030103, A*0302, A*0303N, A*0304, A*0305, A*0306, A*0307, A*0308, A*0309, A*0310, A*0311N, A*0312, A*0313, A*0314, A*110101, A*110102, A*1102, A*1103, A*1104, A*1105, A*1106, A*1107, A*1108, A*1109, A*1110, A*1111, A*1112, A*1113, A*1114, A*1115, A*1116, A*1117, A*1118, A*1119, A*2301, A*2302, A*2303, A*2304, A*2305, A*2306, A*2307N, A*2308N, A*2309, A*2310, A*2311N, A*2312, A*24020101, A*24020102L, A*240202, A*240203, A*240204, A*240205, A*240206, A*240301, A*240302, A*2404, A*2405, A*2406, A*2407, A*2408, A*2409N, A*2410, A*2411N, A*2413, A*2414, A*2415, A*2417, A*2418, A*2419, A*2420, A*2421, A*2422, A*2423, A*2424, A*2425, A*2426, A*2427, A*2428, A*2429, A*2430, A*2431, A*2432, A*2433, A*2434, A*2435, A*2436N, A*2437, A*2438, A*2439, A*2440N, A*2441, A*2442, A*2443, A*2444, A*2445N, A*2446, A*250101, A*250102, A*2502, A*2503, A*2504, A*2601, A*2602, A*2603, A*2604, A*2605, A*2606, A*260701, A*260702, A*2608,

A*2609, A*2610, A*2611N, A*2612, A*2613, A*2614, A*2615, A*2616, A*2617, A*2618, A*2619, A*2620, A*2621, A*2622, A*2623, A*29010101, A*29010102N, A*290201, A*290202, A*290203, A*2903, A*2904, A*2905, A*2906, A*2907, A*2908N, A*2909, A*2910, A*2911, A*300101, A*300102, A*300201, A*300202, A*3003, A*3004, A*3006, A*3007, A*3008, A*3009, A*3010, A*3011, A*3012, A*310102, A*3102, A*3103, A*3104, A*3105, A*3106, A*3107, A*3108, A*3109, A*3110, A*3201, A*3202, A*3203, A*3204, A*3205, A*3206, A*3207, A*3208, A*3301, A*330301, A*330302, A*3304, A*3305, A*3306, A*3307, A*3401, A*3402, A*3403, A*3404, A*3405, A*3406, A*3601, A*3602, A*3603, A*3604, A*4301, A*6601, A*6602, A*6603, A*6604, A*680101, A*680102, A*680103, A*6802, A*680301, A*680302, A*6804, A*6805, A*6806, A*6807, A*6808, A*6809, A*6810, A*6811N, A*6812, A*6813, A*6814, A*6815, A*6816, A*6817, A*6818N, A*6819, A*6820, A*6821, A*6822, A*6823, A*6824, A*6825, A*6826, A*6827, A*6901, A*7401, A*7402, A*7403, A*7404, A*7405, A*7406, A*7407, A*7408, A*7409, A*7410, A*8001.

HLA-B

B*070201, B*070202, B*070203, B*070204, B*0703, B*0704, B*0705, B*0706, B*0707, B*0708, B*0709, B*0710, B*0711, B*0712, B*0713, B*0714, B*0715, B*0716, B*0717, B*0718, B*0719, B*0720, B*0721, B*0722, B*0723, B*0724, B*0725, B*0726, B*0727, B*0728, B*0729, B*0730, B*0731, B*0732, B*0733, B*0734, B*0735, B*0736, B*0737, B*0738, B*0801, B*0802, B*0803, B*0804, B*0805, B*0806, B*0807, B*0808N, B*0809, B*0810, B*0811, B*0812, B*0813, B*0814, B*0815, B*0816, B*0817, B*0818, B*0819N, B*0820, B*0821, B*0822, B*1301, B*1302, B*1303, B*1304, B*1306, B*1307N, B*1308, B*1309, B*1310, B*1311, B*1312, B*1313, B*1401, B*1402, B*1403, B*1404, B*1405, B*140601, B*140602, B*15010101, B*15010102N, B*150102, B*150103, B*150104, B*150105, B*1502, B*1503, B*1504, B*1505, B*1506, B*1507, B*1508, B*1509, B*1510, B*151101, B*151102, B*1512, B*1513, B*1514, B*1515, B*1516, B*15170101, B*15170102, B*1518, B*1519, B*1520, B*1521, B*1523, B*1524, B*1525, B*1526N, B*1527, B*1528, B*1529, B*1530, B*1531, B*1532, B*1533, B*1534, B*1535, B*1536, B*1537, B*1538, B*1539, B*1540, B*1542, B*1543, B*1544, B*1545, B*1546, B*1547, B*1548, B*1549, B*1550, B*1551, B*1552, B*1553, B*1554, B*1555, B*1556, B*1557, B*1558, B*1560, B*1561, B*1562, B*1563, B*1564, B*1565, B*1566, B*1567, B*1568,

B*1569, B*1570, B*1571, B*1572, B*1573, B*1574, B*1575, B*1576, B*1577, B*1578, B*1579N, B*1580, B*1581, B*1582, B*1583, B*1584, B*1585, B*1586, B*1587, B*1588, B*1589, B*1590, B*1591, B*1592, B*1593, B*1594N, B*180101, B*180102, B*1802, B*1803, B*1804, B*1805, B*1806, B*1807, B*1808, B*1809, B*1810, B*1811, B*1812, B*1813, B*1814, B*1815, B*1817N, B*1818, B*1819, B*1820, B*2701, B*2702, B*2703, B*2704, B*270502, B*270503, B*270504, B*270505, B*270506, B*270507, B*2706, B*2707, B*2708, B*2709, B*2710, B*2711, B*2712, B*2713, B*2714, B*2715, B*2716, B*2717, B*2718, B*2719, B*2720, B*2721, B*2723, B*2724, B*2725, B*2726, B*350101, B*350102, B*3502, B*3503, B*3504, B*3505, B*3506, B*3507, B*3508, B*350901, B*350902, B*3510, B*3511, B*3512, B*3513, B*351401, B*351402, B*3515, B*3516, B*3517, B*3518, B*3519, B*3520, B*3521, B*3522, B*3523, B*3524, B*3525, B*3526, B*3527, B*3528, B*3529, B*3530, B*3531, B*3532, B*3533, B*3534, B*3535, B*3536, B*3537, B*3538, B*3539, B*3540N, B*3541, B*3542, B*3543, B*3544, B*3545, B*3546, B*3547, B*3548, B*3549, B*3550, B*3551, B*3552, B*3553N, B*3701, B*3702, B*3703N, B*3704, B*3705, B*3706, B*3707, B*3801, B*380201, B*380202, B*3803, B*3804, B*3805, B*3806, B*3807, B*3808, B*3809, B*3810, B*390101, B*390103, B*390104, B*390201, B*390202, B*3903, B*3904, B*3905, B*390601, B*390602, B*3907, B*3908, B*3909, B*3910, B*3911, B*3912, B*3913, B*3914, B*3915, B*3916, B*3917, B*3918, B*3919, B*3920, B*3922, B*3923, B*3924, B*3925N, B*3926, B*3927, B*3928, B*3929, B*3930, B*3931, B*3932, B*400101, B*400102, B*400103, B*400104, B*400105, B*400201, B*400202, B*4003, B*4004, B*4005, B*40060101, B*40060102, B*4007, B*4008, B*4009, B*4010, B*4011, B*4012, B*4013, B*401401, B*401402, B*401403, B*4015, B*4016, B*4018, B*4019, B*4020, B*4021, B*4022N, B*4023, B*4024, B*4025, B*4026, B*4027, B*4028, B*4029, B*4030, B*4031, B*4032, B*4033, B*4034, B*4035, B*4036, B*4037, B*4038, B*4039, B*4040, B*4042, B*4043, B*4044, B*4045, B*4046, B*4047, B*4048, B*4049, B*4050, B*4051, B*4052, B*4053, B*4054, B*4055, B*4056, B*4057, B*4101, B*4102, B*4103, B*4104, B*4105, B*4106, B*4201, B*4202, B*4204, B*420501, B*420502, B*4206, B*44020101, B*44020102S, B*440202, B*440203, B*440301, B*440302, B*4404, B*4405, B*4406, B*4407, B*4408, B*4409, B*4410, B*4411, B*4412, B*4413, B*4414, B*4415, B*4416, B*4417, B*4418, B*4419N, B*4420, B*4421, B*4422, B*4423N, B*4424, B*4425, B*4426, B*4427, B*4428, B*4429, B*4430, B*4431, B*4432, B*4433, B*4434, B*4435, B*4436, B*4437, B*4438, B*4439,

B*4440, B*4501, B*4502, B*4503, B*4504, B*4505, B*4506, B*4507, B*4601, B*4602, B*4603, B*4604, B*47010101, B*47010102, B*4702, B*4703, B*4704, B*4705, B*4801, B*4802, B*4803, B*4804, B*4805, B*4806, B*4807, B*4808, B*4809, B*4810, B*4901, B*4902, B*4903, B*5001, B*5002, B*5004, B*510101, B*510102, B*510103, B*510104, B*510105, B*510201, B*510202, B*5103, B*5104, B*5105, B*5106, B*5107, B*5108, B*5109, B*5110, B*5111N, B*5112, B*511301, B*511302, B*5114, B*5115, B*5116, B*5117, B*5118, B*5119, B*5120, B*5121, B*5122, B*5123, B*5124, B*5126, B*5127N, B*5128, B*5129, B*5130, B*5131, B*5132, B*5133, B*5134, B*5135, B*5136, B*520101, B*520102, B*520103, B*520104, B*5202, B*5203, B*5204, B*5205, B*5206, B*530101, B*530102, B*5302, B*5303, B*5304, B*5305, B*5306, B*5307, B*5308, B*5309, B*5401, B*5402, B*5501, B*5502, B*5503, B*5504, B*5505, B*5507, B*5508, B*5509, B*5510, B*5511, B*5512, B*5513, B*5514, B*5515, B*5516, B*5601, B*5602, B*5603, B*5604, B*560501, B*560502, B*5606, B*5607, B*5608, B*5609, B*5610, B*5611, B*5612, B*5613, B*5614, B*570101, B*570102, B*5702, B*570301, B*570302, B*5704, B*5705, B*5706, B*5707, B*5708, B*5709, B*5801, B*5802, B*5804, B*5805, B*5806, B*5807, B*5808, B*5809, B*5810N, B*5901, B*670101, B*670102, B*6702, B*7301, B*7801, B*780201, B*780202, B*7803, B*7804, B*7805, B*8101, B*8102, B*8201, B*8202, B*8301.

HLA-C

Cw*010201, Cw*010202, Cw*0103, Cw*0104, Cw*0105, Cw*0106, Cw*0107, Cw*0108, Cw*0109, Cw*0110, Cw*020201, Cw*020202, Cw*020203, Cw*020204, Cw*020205, Cw*0203, Cw*0204, Cw*0205, Cw*0206, Cw*0207, Cw*0208, Cw*0209, Cw*030201, Cw*030202, Cw*030301, Cw*030302, Cw*030303, Cw*030304, Cw*030401, Cw*030402, Cw*030403, Cw*0305, Cw*0306, Cw*0307, Cw*0308, Cw*0309, Cw*0310, Cw*0311, Cw*0312, Cw*0313, Cw*0314, Cw*0315, Cw*0316, Cw*0317, Cw*0318, Cw*04010101, Cw*04010102, Cw*040102, Cw*0403, Cw*040401, Cw*040402, Cw*0405, Cw*0406, Cw*0407, Cw*0408, Cw*0409N, Cw*0410, Cw*0411, Cw*0412, Cw*0413, Cw*0414, Cw*0415, Cw*050101, Cw*050102, Cw*0502, Cw*0503, Cw*0504, Cw*0505, Cw*0506, Cw*0507N, Cw*0508, Cw*0509, Cw*0510, Cw*0602, Cw*0603, Cw*0604, Cw*0605, Cw*0606, Cw*0607, Cw*0608, Cw*0609, Cw*0610, Cw*0611, Cw*070101, Cw*070102, Cw*070103, Cw*07020101, Cw*07020102, Cw*07020103, Cw*0703, Cw*070401,

Cw*070402, Cw*0705, Cw*0706, Cw*0707, Cw*0708, Cw*0709, Cw*0710, Cw*0711, Cw*0712, Cw*0713, Cw*0714, Cw*0715, Cw*0716, Cw*0717, Cw*0718, Cw*0719, Cw*0720, Cw*0721, Cw*0722, Cw*0723, Cw*0724, Cw*0725, Cw*0726, Cw*0727, Cw*0728, Cw*0729, Cw*080101, Cw*080102, Cw*0802, Cw*0803, Cw*0804, Cw*0805, Cw*0806, Cw*0807, Cw*0808, Cw*0809, Cw*0810, Cw*0811, Cw*0812, Cw*120201, Cw*120202, Cw*120203, Cw*120301, Cw*120302, Cw*120303, Cw*120401, Cw*120402, Cw*1205, Cw*1206, Cw*1207, Cw*1208, Cw*1209, Cw*1210, Cw*1211, Cw*1212, Cw*1213, Cw*1214, Cw*1215, Cw*140201, Cw*140202, Cw*140203, Cw*1403, Cw*1404, Cw*1405, Cw*150201, Cw*150202, Cw*1503, Cw*1504, Cw*150501, Cw*150502, Cw*150503, Cw*150504, Cw*1506, Cw*1507, Cw*1508, Cw*1509, Cw*1510, Cw*1511, Cw*1512, Cw*1601, Cw*1602, Cw*160401, Cw*1606, Cw*1701, Cw*1702, Cw*1703, Cw*1801, Cw*1802.

HLA-E

E*0101, E*010301, E*010302, E*010303, E*0104.

HLA-F

F*010101, F*010102.

HLA-G

G*010101, G*010102, G*010103, G*010104, G*010105, G*010106, G*010107, G*010108, G*0102, G*0103, G*010401, G*010402, G*010403, G*0105N, G*0106.

HLA-DRA

DRA*0101, DRA*010201, DRA*010202.

HLA-DRB1

DRB1*010101, DRB1*010102, DRB1*010103, DRB1*010201, DRB1*010202, DRB1*010203, DRB1*010204, DRB1*0103, DRB1*0104, DRB1*0105, DRB1*0106, DRB1*0107, DRB1*0108, DRB1*0109, DRB1*0110, DRB1*0111, DRB1*030101, DRB1*030102, DRB1*030201, DRB1*030202, DRB1*0303, DRB1*0304, DRB1*030501, DRB1*030502, DRB1*0306, DRB1*0307, DRB1*0308, DRB1*0309, DRB1*0310,

DRB1*0311, DRB1*0312, DRB1*0313, DRB1*0314, DRB1*0315, DRB1*0316,
DRB1*0317, DRB1*0318, DRB1*0319, DRB1*0320, DRB1*0321, DRB1*0322,
DRB1*0323, DRB1*0324, DRB1*0325, DRB1*0326, DRB1*0327, DRB1*0328,
DRB1*040101, DRB1*040102, DRB1*0402, DRB1*040301, DRB1*040302, DRB1*0404,
DRB1*040501, DRB1*040502, DRB1*040503, DRB1*040504, DRB1*0406,
DRB1*040701, DRB1*040702, DRB1*040703, DRB1*0408, DRB1*0409, DRB1*0410,
DRB1*0411, DRB1*0412, DRB1*0413, DRB1*0414, DRB1*0415, DRB1*0416,
DRB1*0417, DRB1*0418, DRB1*0419, DRB1*0420, DRB1*0421, DRB1*0422,
DRB1*0423, DRB1*0424, DRB1*0425, DRB1*0426, DRB1*0427, DRB1*0428,
DRB1*0429, DRB1*0430, DRB1*0431, DRB1*0432, DRB1*0433, DRB1*0434,
DRB1*0435, DRB1*0436, DRB1*0437, DRB1*0438, DRB1*0439, DRB1*0440,
DRB1*0441, DRB1*0442, DRB1*0443, DRB1*0444, DRB1*0445, DRB1*0446,
DRB1*0447, DRB1*0448, DRB1*0449, DRB1*0450, DRB1*070101, DRB1*070102,
DRB1*0703, DRB1*0704, DRB1*0705, DRB1*0706, DRB1*0707, DRB1*0708,
DRB1*080101, DRB1*080102, DRB1*080201, DRB1*080202, DRB1*080203,
DRB1*080302, DRB1*080401, DRB1*080402, DRB1*080403, DRB1*080404,
DRB1*0805, DRB1*0806, DRB1*0807, DRB1*0808, DRB1*0809, DRB1*0810,
DRB1*0811, DRB1*0812, DRB1*0813, DRB1*0814, DRB1*0815, DRB1*0816,
DRB1*0817, DRB1*0818, DRB1*0819, DRB1*0820, DRB1*0821, DRB1*0822,
DRB1*0823, DRB1*0824, DRB1*0825, DRB1*0826, DRB1*0827, DRB1*0828,
DRB1*0829, DRB1*090102, DRB1*090103, DRB1*0902, DRB1*0903, DRB1*100101,
DRB1*100102, DRB1*110101, DRB1*110102, DRB1*110103, DRB1*110104,
DRB1*110105, DRB1*1102, DRB1*1103, DRB1*110401, DRB1*110402, DRB1*1105,
DRB1*110601, DRB1*110602, DRB1*1107, DRB1*110801, DRB1*110802, DRB1*1109,
DRB1*1110, DRB1*1111, DRB1*111201, DRB1*111202, DRB1*1113, DRB1*1114,
DRB1*1115, DRB1*1116, DRB1*1117, DRB1*1118, DRB1*1119, DRB1*1120,
DRB1*1121, DRB1*1122, DRB1*1123, DRB1*1124, DRB1*1125, DRB1*1126,
DRB1*112701, DRB1*112702, DRB1*1128, DRB1*1129, DRB1*1130, DRB1*1131,
DRB1*1132, DRB1*1133, DRB1*1134, DRB1*1135, DRB1*1136, DRB1*1137,
DRB1*1138, DRB1*1139, DRB1*1140, DRB1*1141, DRB1*1142, DRB1*1143,
DRB1*1144, DRB1*1145, DRB1*1146, DRB1*1147, DRB1*1148, DRB1*1149,
DRB1*1150, DRB1*1151, DRB1*1152, DRB1*1153, DRB1*1154, DRB1*120101,

DRB1*120102, DRB1*120201, DRB1*120202, DRB1*120302, DRB1*1204, DRB1*1205, DRB1*1206, DRB1*1207, DRB1*1208, DRB1*1209, DRB1*1210, DRB1*130101, DRB1*130102, DRB1*130103, DRB1*130201, DRB1*130202, DRB1*130301, DRB1*130302, DRB1*1304, DRB1*1305, DRB1*1306, DRB1*130701, DRB1*130702, DRB1*1308, DRB1*1309, DRB1*1310, DRB1*1311, DRB1*1312, DRB1*1313, DRB1*131401, DRB1*131402, DRB1*1315, DRB1*1316, DRB1*1317, DRB1*1318, DRB1*1319, DRB1*1320, DRB1*1321, DRB1*1322, DRB1*1323, DRB1*1324, DRB1*1325, DRB1*1326, DRB1*1327, DRB1*1328, DRB1*1329, DRB1*1330, DRB1*1331, DRB1*1332, DRB1*1333, DRB1*1334, DRB1*1335, DRB1*1336, DRB1*1337, DRB1*1338, DRB1*1339, DRB1*1340, DRB1*1341, DRB1*1342, DRB1*1343, DRB1*1344, DRB1*1345, DRB1*1346, DRB1*1347, DRB1*1348, DRB1*1349, DRB1*1350, DRB1*1351, DRB1*1352, DRB1*1353, DRB1*1354, DRB1*1355, DRB1*1356, DRB1*1357, DRB1*1358, DRB1*1359, DRB1*1360, DRB1*1361, DRB1*1362, DRB1*1363, DRB1*1364, DRB1*1365, DRB1*140101, DRB1*140102, DRB1*1402, DRB1*140301, DRB1*140302, DRB1*1404, DRB1*140501, DRB1*140502, DRB1*1406, DRB1*140701, DRB1*140702, DRB1*1408, DRB1*1409, DRB1*1410, DRB1*1411, DRB1*1412, DRB1*1413, DRB1*1414, DRB1*1415, DRB1*1416, DRB1*1417, DRB1*1418, DRB1*1419, DRB1*1420, DRB1*1421, DRB1*1422, DRB1*1423, DRB1*1424, DRB1*1425, DRB1*1426, DRB1*1427, DRB1*1428, DRB1*1429, DRB1*1430, DRB1*1431, DRB1*1432, DRB1*1433, DRB1*1434, DRB1*1435, DRB1*1436, DRB1*1437, DRB1*1438, DRB1*1439, DRB1*1440, DRB1*1441, DRB1*1442, DRB1*1443, DRB1*1444, DRB1*1445, DRB1*1446, DRB1*1447, DRB1*1448, DRB1*150101, DRB1*150102, DRB1*150103, DRB1*150104, DRB1*150105, DRB1*150201, DRB1*150202, DRB1*150203, DRB1*1503, DRB1*1504, DRB1*1505, DRB1*1506, DRB1*1507, DRB1*1508, DRB1*1509, DRB1*1510, DRB1*1511, DRB1*1512, DRB1*1513, DRB1*1514, DRB1*1515, DRB1*1516, DRB1*160101, DRB1*160102, DRB1*160201, DRB1*160202, DRB1*1603, DRB1*1604, DRB1*160501, DRB1*160502, DRB1*1607, DRB1*1608.

HLA-DRB2-9

DRB2*0101, DRB3*010101, DRB3*01010201, DRB3*01010202, DRB3*010103, DRB3*010104, DRB3*0102, DRB3*0103, DRB3*0104, DRB3*0105, DRB3*0106,

DRB3*0107, DRB3*0108, DRB3*0109, DRB3*0110, DRB3*0111, DRB3*0201, DRB3*020201, DRB3*020202, DRB3*020203, DRB3*020204, DRB3*0203, DRB3*0204, DRB3*0205, DRB3*0206, DRB3*0207, DRB3*0208, DRB3*0209, DRB3*0210, DRB3*0211, DRB3*0212, DRB3*0213, DRB3*0214, DRB3*0215, DRB3*0216, DRB3*0217, DRB3*0218, DRB3*0219, DRB3*030101, DRB3*030102, DRB3*0302, DRB3*0303, DRB4*01010101, DRB4*0102, DRB4*01030101, DRB4*01030102N, DRB4*010302, DRB4*010303, DRB4*010304, DRB4*0104, DRB4*0105, DRB4*0106, DRB4*0107, DRB4*0201N, DRB4*0301N, DRB5*010101, DRB5*010102, DRB5*0102, DRB5*0103, DRB5*0104, DRB5*0105, DRB5*0106, DRB5*0107, DRB5*0108N, DRB5*0109, DRB5*0110N, DRB5*0111, DRB5*0112, DRB5*0113, DRB5*0202, DRB5*0203, DRB5*0204, DRB5*0205, DRB6*0101, DRB6*0201, DRB6*0202, DRB7*010101, DRB7*010102, DRB8*0101, DRB9*0101.

HLA-DQA1

DQA1*010101, DQA1*010102, DQA1*010201, DQA1*010202, DQA1*0103, DQA1*010401, DQA1*010402, DQA1*0105, DQA1*0106, DQA1*0107, DQA1*0201, DQA1*030101, DQA1*0302, DQA1*0303, DQA1*040101, DQA1*040102, DQA1*0402, DQA1*0403N, DQA1*0404, DQA1*050101, DQA1*050102, DQA1*0502, DQA1*0503, DQA1*0504, DQA1*0505, DQA1*060101, DQA1*060102, DQA1*0602.

HLA-DQB1

DQB1*020101, DQB1*020102, DQB1*0202, DQB1*0203, DQB1*030101, DQB1*030102, DQB1*030201, DQB1*030202, DQB1*030302, DQB1*030303, DQB1*0304, DQB1*030501, DQB1*030502, DQB1*030503, DQB1*0306, DQB1*0307, DQB1*0308, DQB1*0309, DQB1*0310, DQB1*0311, DQB1*0312, DQB1*0313, DQB1*0401, DQB1*0402, DQB1*050101, DQB1*050102, DQB1*050201, DQB1*050202, DQB1*050301, DQB1*050302, DQB1*0504, DQB1*060101, DQB1*060102, DQB1*060103, DQB1*0602, DQB1*0603, DQB1*060401, DQB1*060402, DQB1*060501, DQB1*060502, DQB1*0606, DQB1*0607, DQB1*0608, DQB1*0609, DQB1*0610, DQB1*061101, DQB1*061102, DQB1*0612, DQB1*0613, DQB1*0614, DQB1*0615, DQB1*0616, DQB1*0617, DQB1*0618, DQB1*0619, DQB1*0620, DQB1*0621, DQB1*0622, DQB1*0623.

HLA-DPA1

DPA1*010301, DPA1*010302, DPA1*010303, DPA1*0104, DPA1*0105, DPA1*0106, DPA1*0107, DPA1*0108, DPA1*020101, DPA1*020102, DPA1*020103, DPA1*020104, DPA1*020105, DPA1*020106, DPA1*020201, DPA1*020202, DPA1*020203, DPA1*0203, DPA1*0301, DPA1*0302, DPA1*0303, DPA1*0401.

HLA-DPB1

DPB1*010101, DPB1*010102, DPB1*010103, DPB1*0102, DPB1*020102, DPB1*020103, DPB1*020104, DPB1*020105, DPB1*020106, DPB1*0202, DPB1*0203, DPB1*030101, DPB1*030102, DPB1*0302, DPB1*040101, DPB1*040102, DPB1*0402, DPB1*0501, DPB1*0601, DPB1*0801, DPB1*0901, DPB1*1001, DPB1*110101, DPB1*110102, DPB1*1301, DPB1*1401, DPB1*1501, DPB1*1601, DPB1*1701, DPB1*1801, DPB1*1901, DPB1*200101, DPB1*200102, DPB1*2101, DPB1*2201, DPB1*2301, DPB1*2401, DPB1*2501, DPB1*260101, DPB1*260102, DPB1*2701, DPB1*2801, DPB1*2901, DPB1*3001, DPB1*3101, DPB1*3201, DPB1*3301, DPB1*3401, DPB1*3501, DPB1*3601, DPB1*3701, DPB1*3801, DPB1*3901, DPB1*4001, DPB1*4101, DPB1*4401, DPB1*4501, DPB1*4601, DPB1*4701, DPB1*4801, DPB1*4901, DPB1*5001, DPB1*5101, DPB1*5201, DPB1*5301, DPB1*5401, DPB1*5501, DPB1*5601, DPB1*5701, DPB1*5801, DPB1*5901, DPB1*6001, DPB1*6101N, DPB1*6201, DPB1*6301, DPB1*6401N, DPB1*6501, DPB1*6601, DPB1*6701, DPB1*6801, DPB1*6901, DPB1*7001, DPB1*7101, DPB1*7201, DPB1*7301, DPB1*7401, DPB1*7501, DPB1*7601, DPB1*7701, DPB1*7801, DPB1*7901, DPB1*8001, DPB1*8101, DPB1*8201, DPB1*8301, DPB1*8401, DPB1*8501, DPB1*8601, DPB1*8701, DPB1*8801, DPB1*8901, DPB1*9001, DPB1*9101, DPB1*9201, DPB1*9301, DPB1*9401, DPB1*9501, DPB1*9601, DPB1*9701, DPB1*9801, DPB1*9901.

HLA-DMA

DMA*0101, DMA*0102, DMA*0103, DMA*0104.

HLA-DMB

DMB*0101, DMB*0102, DMB*0103, DMB*0104, DMB*0105, DMB*0106.

HLA-DOA

DOA*010101, DOA*01010201, DOA*01010202, DOA*01010203, DOA*010103,
DOA*01010401, DOA*01010402, DOA*010105.

HLA-DOB

DOB*01010101, DOB*01010102, DOB*010102, DOB*010201, DOB*010202, DOB*0103,
DOB*01040101, DOB*01040102.

The invention is not limited to such HLA molecules, and can be adapted to newly discovered such molecules, if desired, simply by establishing the reactivity of substances such as peptides with the molecules. This can be readily achieved using known techniques that are standard in the field. Particularly preferred HLA alleles for use with the present invention include the following:

HLA Class I

<u>HLA A</u>	<u>HLA B</u>	<u>HLA Cw</u>
A*6802	B*5801	Cw*1701
A*6801	B*5701	Cw*1601
A*6601	B*5501	Cw*1502
A*3303	B*5201	Cw*1402
A*3301	B*5101	Cw*1203
A*3201	B*5001	Cw*0802
A*310102	B*4901	Cw*0801
A*3002	B*4501	Cw*0704
A*3001	B*4403	Cw*0703
A*2902	B*4402	Cw*0702
A*2608	B*4101	Cw*0701
A*2601	B*4002	Cw*0602
A*2501	B*4001	Cw*0501
A*2402	B*3901	Cw*0401
A*2301	B*3801	Cw*0304
A*1101	B*3701	Cw*0303
A*0302	B*3503	Cw*0202
A*0301	B*3501	Cw*0102
A*0205	B*2705	
A*0201	B*1801	
A*0101	B*1501	
	B*1402	
	B*1401	
	B*1302	
	B*0801	
	B*0705	
	B*0702	

HLA Class II

<u>HLA DPB</u>	<u>HLA DQA</u>	<u>HLA DQB</u>	<u>HLA DRB</u>
DPB1*1701	DQA1*0505	DQB1*0604	DRB1*1601
DPB1*1301	DQA1*0501	DQB1*0603	DRB1*1501
DPB1*1001	DQA1*0401	DQB1*0602	DRB1*1401
DPB1*0601	DQA1*0303	DQB1*0503	DRB1*1302
DPB1*0501	DQA1*0302	DQB1*0502	DRB1*1301
DPB1*0402	DQA1*0301	DQB1*0501	DRB1*1201
DPB1*0401	DQA1*0201	DQB1*0402	DRB1*1104
DPB1*0301	DQA1*0104	DQB1*0303	DRB1*1101
DPB1*0201	DQA1*0103	DQB1*0302	DRB1*0801
DPB1*0101	DQA1*0102	DQB1*0301	DRB1*0701
	DQA1*0101	DQB1*0202	DRB1*0404
		DQB1*0201	DRB1*0401
			DRB1*0301
			DRB1*0103
			DRB1*0102
			DRB1*0101

The most preferred alleles according to the invention are the following:

HLA-A*0201, HLA-A*0206, HLA-A*0301, HLA-A*1101, HLA-A*2402, HLA-A*3401, HLA-B*0702, HLA-B*0801, HLA-B*1301, HLA-B*27, HLA-B*4002, HLA-B*5101, HLA-Cw*03, HLA-cW*07

HLA-DRB1*0301, HLA-DRB1*0401, HLA-DRB1*0701, HLA-DRB1*1501, HLA-DRB1*1104, HLA-DRB1*1101, HLA-DRB4*0101

HLA-DQA1*01, HLA-DQA1*02, HLA-DQA1*05

HLA-DQB1*03, HLA-DQB1*04, HLA-DQB1*05, HLA-DQB1*06

HLA-DPA1*01, HLA-DPA1*02

HLA-DPB1*02, HLA-DPB1*04

The invention will now be described by way of example only, with reference to the following specific embodiments.

EXAMPLES

EXPERIMENT 1 – Reactivity against HIV antigens

The purpose of the study is to assess reactivity of the above described HIV polypeptides and their ability to induce a specific Th1-type cytokine response against naturally processed and presented HIV proteins in the context of human HLA (HLA A*0201).

As background to the experiments, it is useful to understand that Th1 and Th2 responses are defined by the pattern of cytokines produced by the T helper cells involved in them. That, however, does not mean that the remaining lymphocytes (T and B cells) involved in those specific responses do not also produce cytokines that help drive the characteristic pattern of response in which they are involved. In this way, a Th1-like response is characterised by the production of IFN- γ and IL-2, leading to the stimulation of a CD8⁺ CTL response and an associated (in mice) IgG2a antibody response. The IFN- γ response can be produced both by the CD4⁺ T helper 1 cells as well as by the CD8⁺ T cells that also form part of it. In this case the IFN- γ component of the response produced by the CD8⁺ T cells was investigated. That was because the experiment was primarily investigating CD8⁺ T cell epitopes and it was desirable to prove that the response seen was caused by those cells. Since CD8⁺ T cells react to epitopes only on MHC class I molecules, human cells that share with the transgenic mouse only one MHC class I molecule (i.e. HLA-A*0201) were used. A Th2-like response is characterised by the production of IL-4 and IL-10, leading to the stimulation of an IgGE, IgG1 and (in mice) IgG2b antibody response. Both responses are antagonistic with IFN- γ and IL-10 downregulating the production of each other.

All the experiments described below were carried out in duplicate.

Materials and methods

Peptides and recombinant proteins

All the polypeptides used in this study (i.e. P1: VPR aa 51 to 80 (SEQ ID 1); P2: VIF: aa 142 to 181 (SEQ ID 2); P3: REV aa 69 to 95 (SEQ ID 3); P4: NEF: aa 81 to 123 (SEQ ID 4); and NRP: a control non-relevant polypeptide) were synthesised by Fmoc chemistry and re-suspended in 10 % DMSO in PBS.

HIV-1 recombinant proteins VIF (ref: EVA659), REV (His-tag fusion; ref: ARP663.2) and NEF (ref: EVA650) were obtained from the Repository of HIV reagents (NIBSC, UK). Protein preparations were mixed in equimolar quantities in PBS at 1 mg/ml and stored at -80°C until use.

Cell lines

The T1 and JURKAT cell lines are human lymphoblastoid lines derived from HLA-A*0201 bearing and non-bearing individuals respectively. T1 was maintained in IMDM medium (Invitrogen) whilst JURKAT was maintained in RPMI-1640 medium (Sigma) containing 10 mM HEPES and 1 mM sodium pyruvate. Both media were supplemented with 50 IU/50 mg/ml of penicillin/streptomycin (Sigma) and, as complete medium, 10 % FCS. Cell cultures were maintained at 37°C in a humidified atmosphere of 5% CO₂.

Primary splenocytes were maintained in IMDM medium (Invitrogen) supplemented with 0.02 mM β -mercaptoethanol (Sigma), 50 IU/50 mg/ml of penicillin/streptomycin (Sigma) and 10 % FCS (Sigma) at 37°C in a humidified atmosphere of 5 % CO₂.

Preparation of target cells for cytokine analysis

Cell cultures in exponential phase were harvested by centrifugation (250 g, 5 min) and resuspended at a density of 10⁶ cells/ml in serum-free medium. Aliquots of the cell suspensions were transfected with a range of polypeptide antigens at a concentration of 5 μ g per 10⁶ cells using Lipofectin (Invitrogen) according to the manufacturer's instructions and incubated in complete medium for 8-10 hours before Mytomycin C (MMC) treatment.

For MMC treatment, cells were harvested by centrifugation (250 g, 5 min) and resuspended in serum-free IMDM medium containing 50 µg/ml of Mitomycin C (Sigma). After 45 min incubation at 37°C, the cell suspensions were washed four times in serum-free IMDM medium (250 g, 5 min) and finally resuspended in complete IMDM medium.

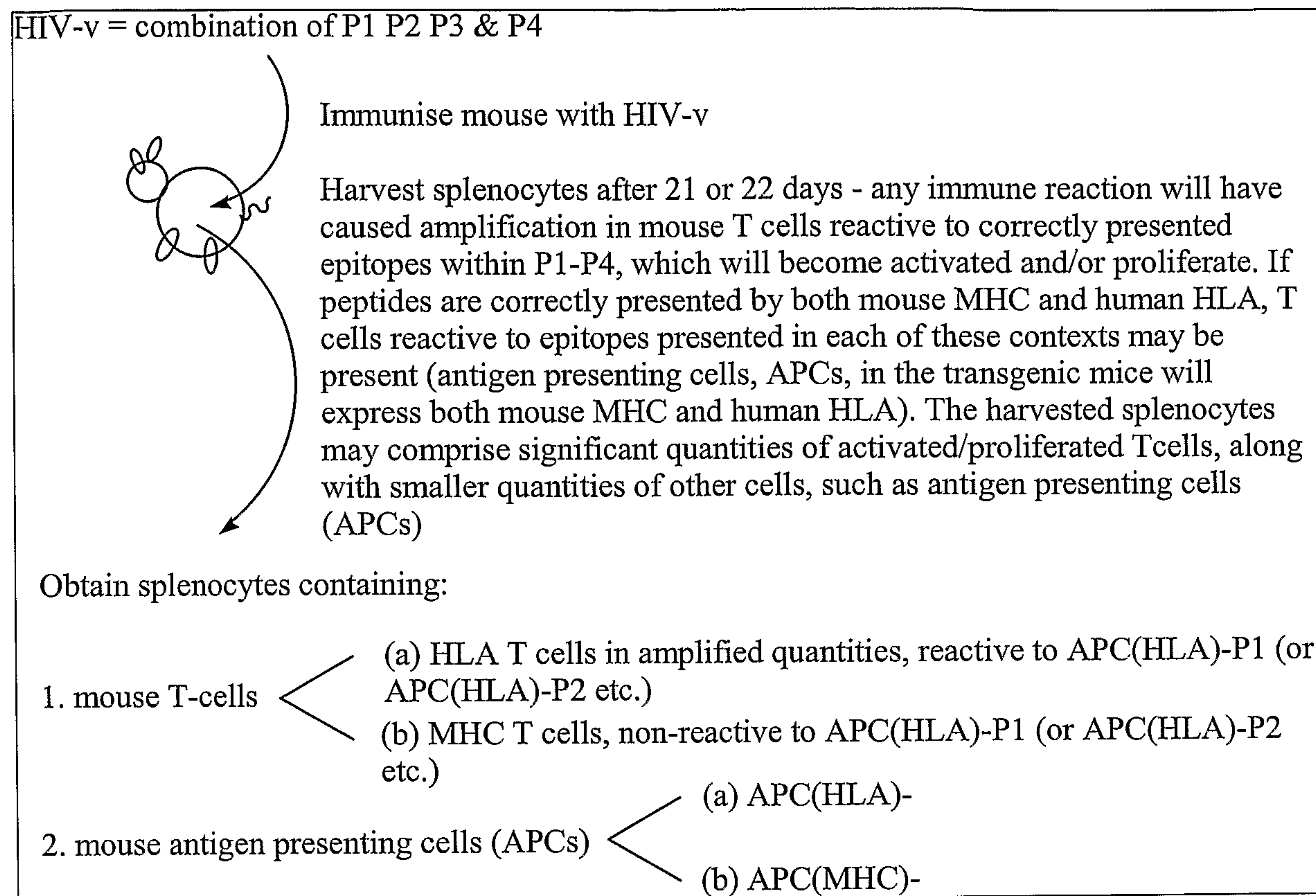
Immunisations

Seven to ten week old C57BL/6-Tg(HLA-A2.1)1Enge/J mice (HLA-A*0201 transgenic on a C57/BL6 background, Jackson Labs) were immunised intradermally with a 100 µl dose (delivered in 5 sites at 20 µl/site) per mouse of the antigen preparation. In the test group, each dose of the antigen preparation contained 40 nmol of an equimolar mixture of all four peptides (HIV-v) (10 nmol each) and 0.5 nmol Cholera Toxin Subunit B (>99 % pure, BioMol) and was prepared in Lipofectin (Invitrogen) according to the manufacturer's instructions. In the control group, each dose of the antigen preparation contained 40 nmol of the non-relevant polypeptide and 0.5 nmol Cholera Toxin Subunit B (>99 % pure, BioMol) and was prepared in Lipofectin (Invitrogen) according to the manufacturer's instructions.

On day 14 post-immunisation, all animals received a booster immunisation using the same doses and route of delivery as used originally. Finally, on day 21 or 22, all animals were culled and their spleens collected.

The immunisation protocol can be represented schematically as follows:

Scheme 1 - inoculation



Cytokine ELISA

Mouse spleens belonging to the same experimental group were pooled, gently pressed through cell strainers and red blood cells removed by treatment with red cell lysis buffer (nine parts 0.16 M NH_4Cl and one part of 0.17 M Tris, pH 7.2). Splenocyte suspensions from each experimental group were plated in 24-well plates at a density of 4×10^6 cells/well containing a range of polypeptide antigens (5 $\mu\text{g}/\text{ml}$) or, alternatively, MMC treated cell lines (splenocyte to cell (S:C) ratio 10:1) transfected with polypeptide antigens as described above.

After 4 days incubation at 37°C , the supernatant was collected and analysed for IFN- γ and IL-4 by a sandwich cytokine ELISA according to the manufacturer's protocol (Pharmingen). The lower detection limits for the assay were 9.77 pg/ml for IL-4 and 39.06 pg/ml for IFN- γ .

After 4 days incubation at 37°C, the supernatant was collected and analysed for IFN- γ and IL-4 by a sandwich cytokine ELISA according to the manufacturer's protocol (Pharmingen). The lower detection limits for the assay were 9.77 pg/ml for IL-4 and 39.06 pg/ml for IFN- γ .

Results

Reactivity of peptide 1

Each of the polypeptides described in this patent application (including P1, P2, P3 and P4 tested in this Example) contains several CD8+ T cell epitopes of which several are specific for HLA-A*0201. Upon internal processing of the polypeptide by the antigen presenting cells (APCs) of a HLA-A*0201 bearing recipient, these CD8+ T cell specific epitopes are presented in the surface of the APC where they proceed to activate naïve CD8+ T cells and induce a Th1-like immune response specific to the peptide being tested, in this case P1, P2, P3 and P4.

To confirm this, HLA-A*0201 bearing (T1) and non-bearing (JURKAT) human cell lines were intracellularly loaded with P1 by means of a lipid vehicle (Lipofectin, INVITROGEN). Splenocytes from animals immunised with the HIV polypeptide preparation (HIV-v) were found to produce increased levels of IFN- γ compared to splenocytes from NRP immunised animals when co-cultured with MMC treated HLA-A*0201 bearing human cells (T1) transfected with P1, but not when co-cultured with non-HLA-A*0201 bearing human cells (JURKAT) treated in the same way (see Figure 1, the data for which is presented in Table 1 below).

DEMANDE OU BREVET VOLUMINEUX

LA PRÉSENTE PARTIE DE CETTE DEMANDE OU CE BREVET COMPREND PLUS D'UN TOME.

CECI EST LE TOME 1 DE 2
CONTENANT LES PAGES 1 À 164

NOTE : Pour les tomes additionels, veuillez contacter le Bureau canadien des brevets

JUMBO APPLICATIONS/PATENTS

THIS SECTION OF THE APPLICATION/PATENT CONTAINS MORE THAN ONE VOLUME

THIS IS VOLUME 1 OF 2
CONTAINING PAGES 1 TO 164

NOTE: For additional volumes, please contact the Canadian Patent Office

NOM DU FICHER / FILE NAME :

NOTE POUR LE TOME / VOLUME NOTE:

CLAIMS:

1. A polypeptide having no more than 100 amino acids, which polypeptide comprises one or more sequences having at least 60% homology with any of SEQ ID 1-4, or comprises two or more epitopes having 7 amino acids or more, each epitope having at least 60% homology with a sub-sequence of any of SEQ ID 1-4 that has the same length as the epitope:

SEQ ID 1	GDTWAGVEAIRILQQLLFHFRIGCQHSR
SEQ ID 2	KVGSLQYLALTALITPKKIKPPLPSVKKLTEDRWNPQKT
SEQ ID 3	EPVPLQLPPLERLTLDCEDCGTSGTQ
SEQ ID 4	YKGALDLSHFLKEKGGLEGLIYSQKRQDILDLWVYHTQGYFPD

wherein, the polypeptide is immunogenic in a vertebrate expressing a major histocompatibility complex (MHC) allele, and wherein the polypeptide is not a complete HIV virus protein.

2. A polypeptide having no more than 100 amino acids, which polypeptide comprises one or more sequences defined by the following amino acid residues of an HIV virus protein, or comprises two or more epitopes having 7 amino acids or more from a sequence defined by the following amino acid residues of an HIV virus protein:

residues 51-80	of a VPR protein
residues 142-181	of a VIF protein
residues 69-95	of an REV protein
residues 81-123	of a NEF protein

wherein, the polypeptide is immunogenic in a vertebrate expressing a major histocompatibility complex (MHC) allele, and wherein the polypeptide is not a complete HIV virus protein.

3. A polypeptide according to claim 1 or claim 2, which polypeptide comprises a cytotoxic T lymphocyte (CTL), CD8+ T cell and/or CD4+ T cell epitope.

4. A polypeptide according to any preceding claim, comprising 2, 3, 4, 5 or more epitopes.
5. A polypeptide according to any preceding claim, which is immunogenic to an epitope within any of the sequences of SEQ ID 1-4.
6. A polypeptide according to any preceding claim, which is immunogenic to an HIV strain.
7. A polypeptide according to claim 6, which is immunogenic to a plurality of HIV strains.
8. A polypeptide according to any preceding claim, further comprising one or more further sequences from an immunodeficiency virus protein.
9. A polypeptide according to claim 8, wherein when the polypeptide is at least 60% homologous to SEQ ID 1, the protein is an VPR protein, when the polypeptide is at least 60% homologous to SEQ ID 2, the protein is an VIF protein, when the polypeptide is at least 60% homologous to SEQ ID 3, the protein is an REV protein, and when the polypeptide is at least 60% homologous to SEQ ID 4, the protein is an NEF protein.
10. A polypeptide according to any preceding claim, wherein the homology is 75% or more.
11. A polypeptide according to claim 9, wherein the homology is 85% or more.
12. A polypeptide according to any preceding claim, wherein the homology is substantially 100%.
13. A polypeptide according to any preceding claim, wherein the epitope comprises 8, 9 10 or 11 amino acids or more.

14. A polypeptide according to any preceding claim, having no more than 50 amino acid residues.
15. A polypeptide according to any preceding claim comprising from 15-45 amino acid residues.
16. An immunogenic multi-epitope polypeptide comprising two or more polypeptides as defined in any preceding claim.
17. A polypeptide composition comprising two or more polypeptides as defined in any preceding claim.
18. A polypeptide composition according to claim 17, in which polypeptides having sequences of SEQ ID 1-4 are all present.
19. A polypeptide as defined in any preceding claim for use in medicine.
20. A method of producing a polypeptide as defined in any preceding claim, which method comprises combining two or more epitopes to form the polypeptide.
21. A polypeptide construct, which construct comprises a polypeptide as defined in any preceding claim and a carrier.
22. A method of producing a polypeptide construct as defined in claim 21, which method comprises combining two or more epitopes and/or a polypeptide with the carrier.
23. A polypeptide construct or a method according to claim 21 or claim 22, wherein the carrier is a molecule.
24. A polypeptide construct or a method according to claim 22 or claim 23, wherein the carrier comprises an adjuvant and/or an excipient.

25. A medicament or vaccine composition against an HIV virus, comprising a polypeptide or polypeptide composition as defined in any of claims 1-19, and an appropriate excipient and/or adjuvant.

26. A medicament or vaccine composition against an HIV virus, comprising a polypeptide construct as defined in claim 21, claim 23 or claim 24 and optionally an appropriate excipient and/or adjuvant.

27. A method of producing a medicament or vaccine composition as defined in claim 25 or claim 26, which method comprises mixing a polypeptide as defined in any of claims 1-19 with an appropriate excipient and/or adjuvant.

28. Use of a polypeptide, a polypeptide composition, a polypeptide construct or a medicament or vaccine composition as defined in any of claims 1-19, 21 and 23-26 in the manufacture of a medicament or vaccine, effective in the treatment or prevention of an HIV virus.

29. A method of treating or preventing an HIV virus infection, which method comprises administering a polypeptide, a polypeptide composition, a polypeptide construct, a medicament or vaccine composition, as defined in any of claims 1-19, 21 and 23-26 to a vertebrate.

30. A method according to claim 29, wherein the vertebrate is a human.

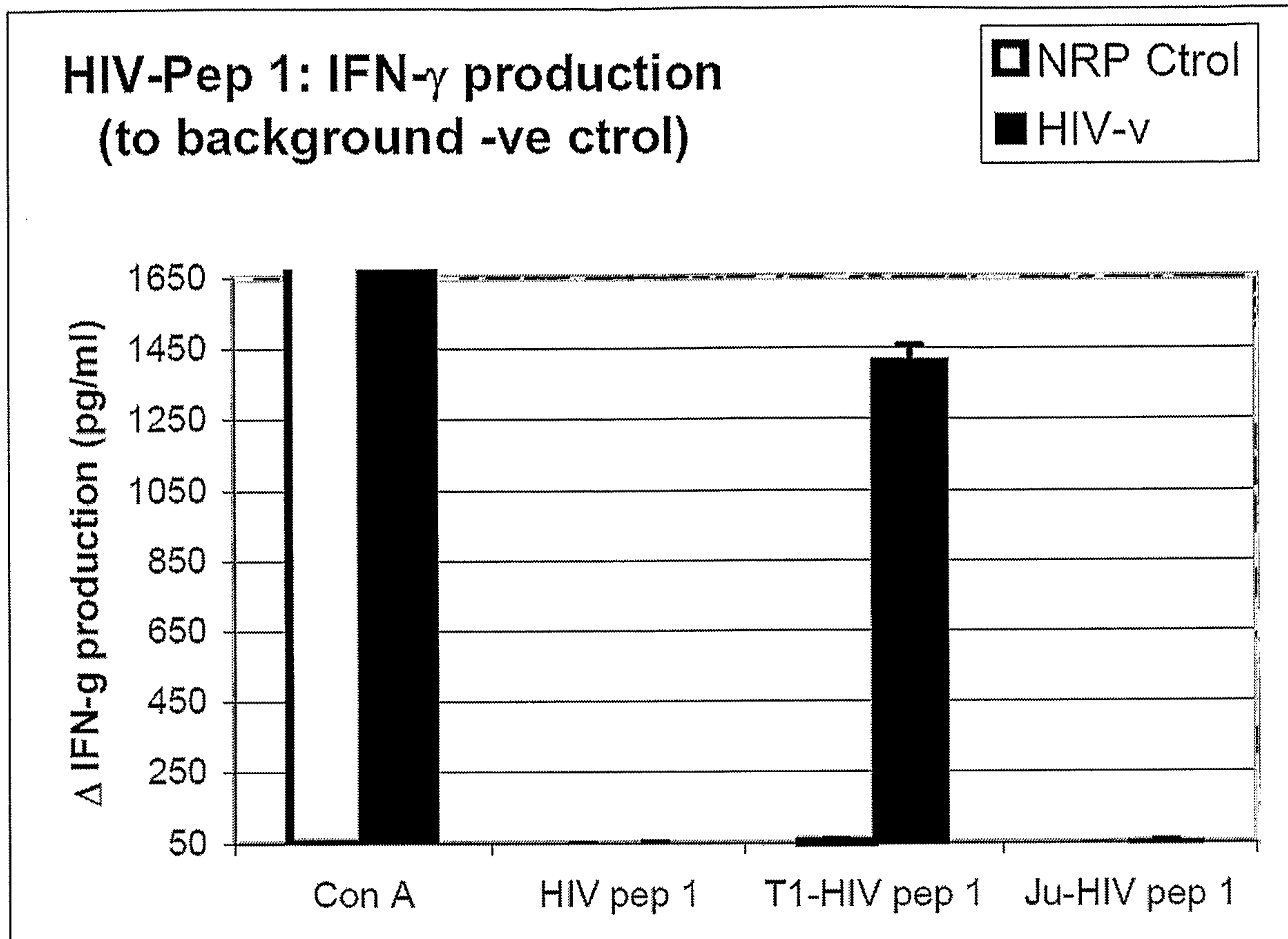


FIGURE 1

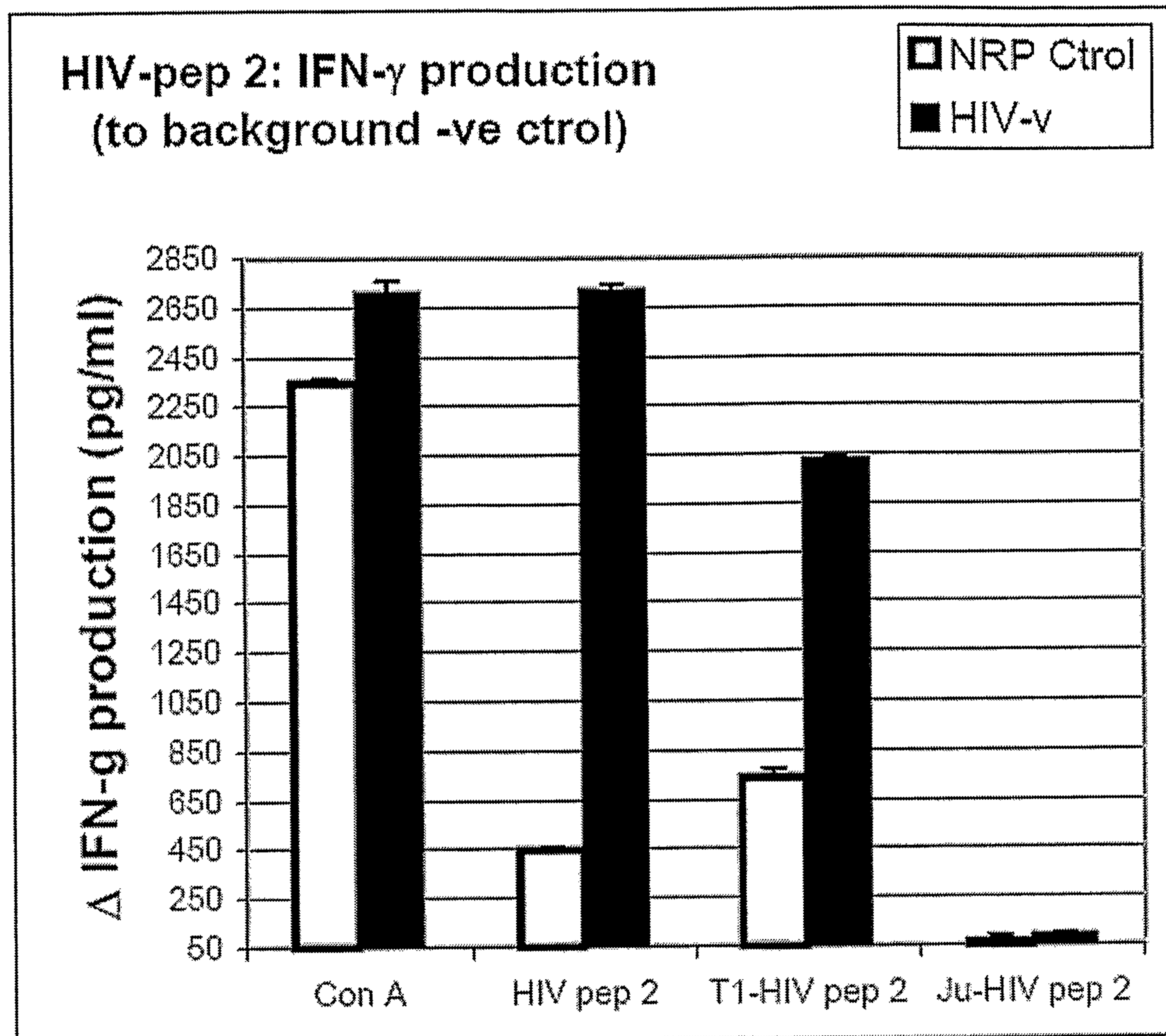


FIGURE 2

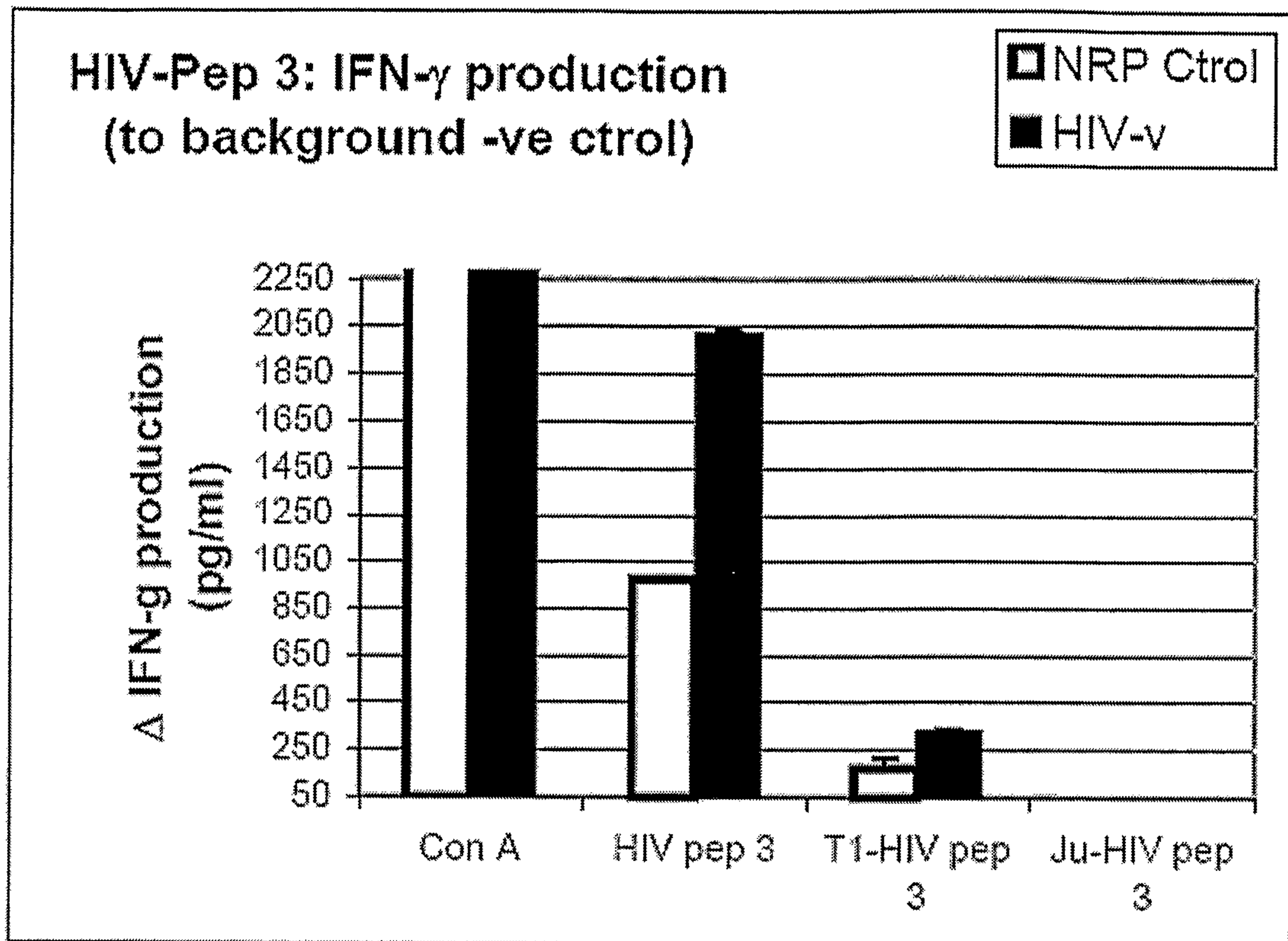


FIGURE 3

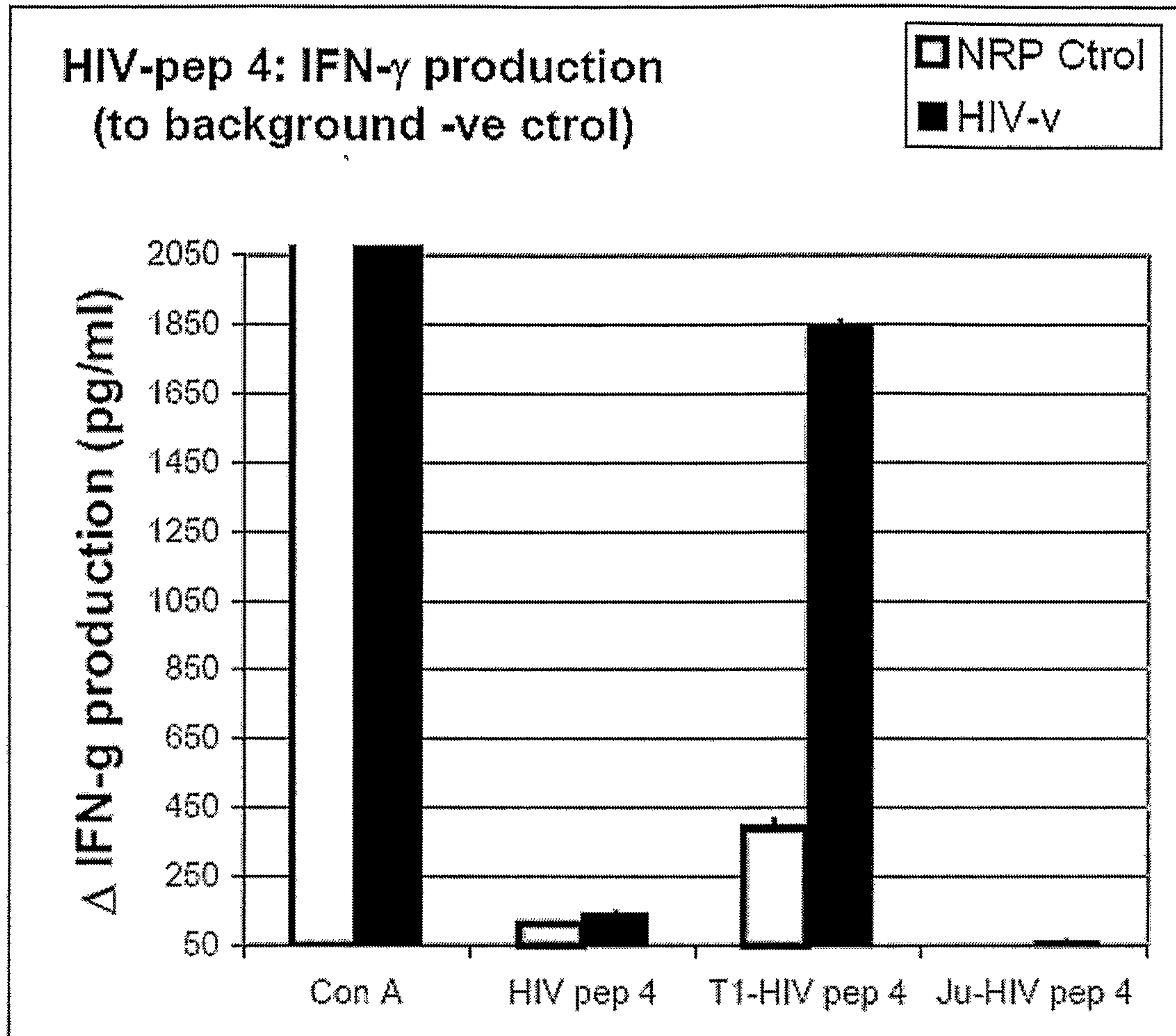


FIGURE 4

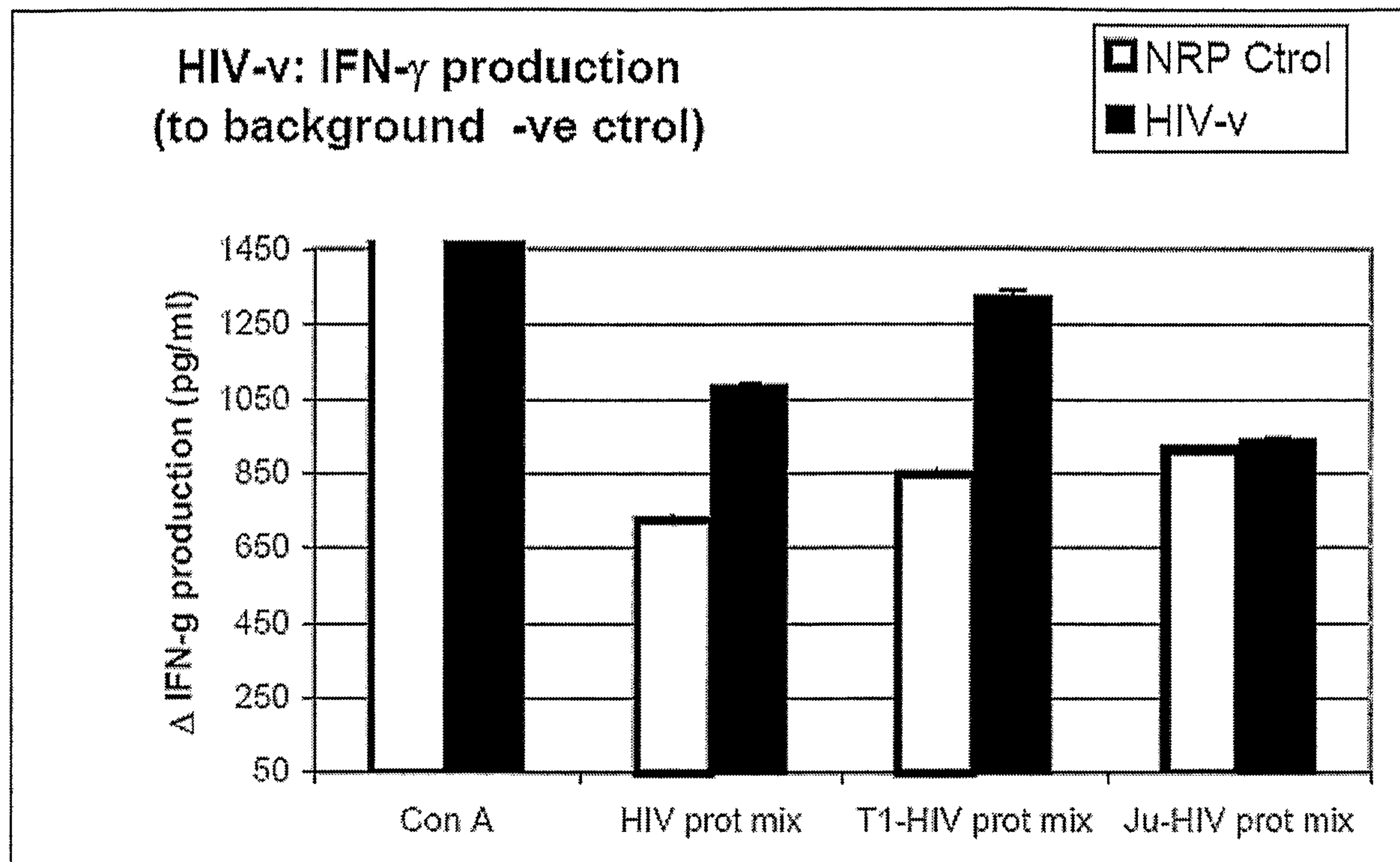


FIGURE 5

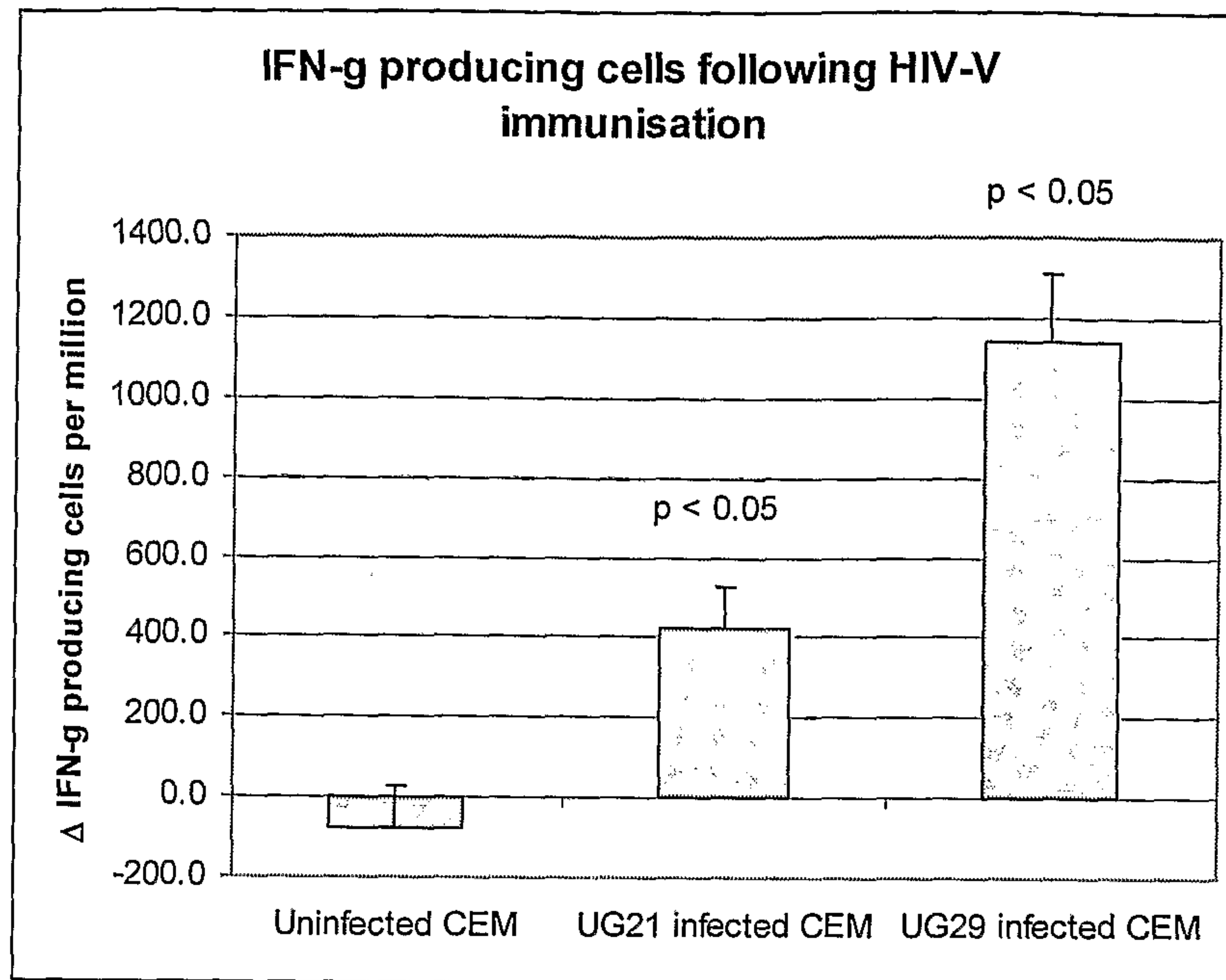


FIGURE 6