Comparative analysis based on the spike glycoproteins of SARS-CoV2 isolated from COVID 19 patients of different countries.

Preeti Mangar¹, Smriti Pradhan², Subecha Rai³, Khusboo Lepcha⁴, Vivek Kumar Ranjan², Aditi Rai⁴*

¹Department of Botany, University of North Bengal, Raja Rammohanpur, Darjeeling, West Bengal-734013, India.

²Department of Biotechnology, University of North Bengal, Raja Rammohanpur, Darjeeling, West Bengal-734013, India.

³Institute of Bioresources and Sustainable Development, Sikkim Centre, 5th Mile, Metro Point, Tadong, Gangtok, Sikkim-737102, India.

⁴Department of Microbiology, University of North Bengal, Raja Rammohanpur, Darjeeling, West Bengal-734013, India.

Abstract

SARS-CoV2 popularly known as (COVID-19) has presently received worldwide attention. It has been considered a pandemic by the World Health Organisation. Owing to its high transmittance factor the virus has brought about many deaths and spread to all the major countries of the world. Scientists and Researchers worldwide are giving their full efforts to develop a vaccine. In our present study, we have included the comparative analysis of the different spike glycoprotein sequences of the patients suffering from COVID-19 from different countries where this pandemic has occurred. Spike glycoproteins are the structural proteins that bring about the binding of the SARS-CoV-2 viral molecule to the ACE2 receptor of the host following which infection occurs. Through this data, we have shown the different point mutations in the spike glycoproteins that occurred over time in different countries as the disease progressed.

Keywords: SARS-CoV2, spike glycoprotein, mutation

*Corresponding Author- aditimicro009@nbu.ac.in

1. Introduction

Diseases since time immemorial has always cost mankind health and wealth, not surprisingly the quest for survival of mankind has been an everlasting battle. Epidemics and pandemics are not new to the history of mankind and records of diseases like Plague and Spanish Flu devastating lives have been an integral part of the epidemiological study of the human race. In December 2019, an incident occured in Wuhan, Southern China where a series of pneumonia cases, was reported. It wasnt long before the cases were classified as viral pneumonia and the virus was speculated to belong to β coronavirus. Primarily it was named as 2019- novel coronavirus (2019-nCoV) by World Health Organization (WHO), which later named the disease as coronavirus disease 2019 (COVID-19). Also identified with the name SARS-CoV2,

the epidemic COVID-19 progressed by leaps and bounds via human-to-human transmission, that made it basically impossible to contain it within a certain area thus leading to a pandemic that crossed borders spreading into the International community. The SARS-CoV2 being a β-coronavirus (Zhu et., 2019) like SARS-CoV and MERS-CoV is responsible for causing severe and potentially fatal respiratory tract infections (Yin *et al.*, 2018) Sharing 96.2% identity to a bat CoV RaTG13, and 79.5% identity to SARS-CoV, it may be presumed that the SARS-CoV2 might be transmitted from bats to humans. However, recent studies comparing the receptors on host surfaces, suggest the possibility of alternative intermediate hosts (Liu *et al.*, 2020).

Spike glycoprotein of SARS- CoV 2

The complete genome analysis of a strain of SARS-CoV2, obtained from Wuhan revealed that this enveloped virus has a positive stranded RNA genome with a size about 29.9 kb (Wu et al., 2020) The study of genomes of CoVs has revealed a variable number of (6–11) open reading frames (ORFs) (Song et al., 2019). The first ORF (ORF1a/b) encodes 16 non-structural proteins (NSP), and translates two polyproteins, ppla and pplab, and the remaining ORFs encode accessory and structural proteins. However, four essential structural proteins are encoded by the viruses including spike (S), envelope (E), membrane (M), and nucleocapsid (N) proteins (Wang et al., 2020; Du et al., 2016). Among them, an envelope-anchored spike protein specifically recognizes its host receptor and it serves as a target for development of antibodies, entry inhibitors and vaccines (Du et al., 2016; He et al., 2006) The S protein is trimeric and each monomer is about 180 kDa, and contains two subunits, S1 and S2, The minimal RBD(Receptor Binding Domain) region is the fragment covering the residues 318-510 in S1 subunit (Xiao et al., 2003, Wong et al., 2004). The receptor-binding motif (RBM) is the RBD containing a loop region (residues 424-494), which makes complete contact with the receptor ACE2 (Angiotensin Converting Enzyme), the RBM region being tyrosine-rich, It was observed that six out of 14 residues of RBM were tyrosines that were in direct contact with ACE2 (Zhu et al., 2013). The S protein first binds to a host receptor through the receptor-binding domain (RBD) in the S1 subunit and then fuses the viral and host membranes through the S2 subunit (Liu et al., 2004). In the structure, N-terminal domain (NTD) and C-terminal domain (C-domain) portions of S1 fold as two independent domains, Depending on the virus, either NTD or C-domain (occasionally both) binds to a host receptor and functions as a receptorbinding domain (RBD) (Breslin et al., 2003; Lin et al., 2008). Recently, (Zhou et al., 2020) reported that SARS-CoV-2 uses ACE2 as the receptor which is similar to the S1 C-domain of SARS-CoV in the RBD that recognizes host angiontensin- converting enzyme 2 (ACE2) as its receptor (Babcock et al., 2004; Li et al., 2003). In one of the studies by (Wan et al., 2020) it was observed that among the ACE2-contacting residues in the RBD, 9 are fully conserved and 4 are partially conserved among 2019-nCoV and SARS-CoV from human, civet, and bat. ACE2 is a zinc-dependent peptidase that functions in the reninangiotensin pathway and regulates blood pressure (Donoghue et al., 2000; Yagil and Yagil, 2003). However, the physiological function of ACE2 is not related to its role as the SARS-CoV receptor (Li et al., 2005b). ACE2 contains an N-terminal peptidase domain and a C-terminal collectrin domain. The enzymatic active site of ACE2 is buried in a claw-like structure with two lobes of the peptidase domain (Towler et al., 2004). The binding interactions between SARS-CoV, RBD and ACE2 largely determine the host range and cross-species infections of SARS-CoV(Lu et al., 2015). Using computer modeling, Xu et al (2020), found that the spike proteins of SARS-CoV-2 and SARS-CoV share 76.5% identity in amino acid sequences having almost identical 3-D structures in the receptor-binding domain that maintains Van der Waals forces. It has been reported that residue 394 (glutamine) in the SARS-CoV-2 receptor-binding domain (RBD), which corresponds to residue 479 in SARS-CoV, can be recognized by the critical lysine 31 on the human ACE2 receptor (Wu et., 2012). Through recent cryo-EM structure studies which further deciphered the S protein of SARS-CoV2 and ACE2 interaction at Angstrom resolution level it was revealed that the overall ACE2-binding mode of S protein of SARS-CoV2 is almost identical to the mode of S protein of SARS-CoV (Yan et al., 2020; Lan et al., 2020). Yan et al., 2020 performed the bioinformatics analysis of the S protein sequences of coronaviruses and found an evolutionary mutation of K403R in S protein of SARS-CoV-2 compared with that in S protein of SARS-CoV, forming an adjacent RGD (R:Arginine, G:Glycine, D:Aspartic Acid) motif at the interaction surface. The RGD motif is the cell attachment site of a large amount of adhesive extracellular matrix and cell surface proteins and recognized by integrins. The evolutionary obtainment of the RGD (R:Arginine,G:Glycine,D:Aspartic Acid) motif in SARS-CoV2 may play an important role in promoting rapid human to human transmission. Yan et al., 2020 also suggested that the RGD motif on the S glycoprotein may bind to the integrin on the surface of host cells which can be a new potential mechanism for SARS-CoV2 infection, resulting in higher affinity with the host cells in comparison with SARS-CoV.

Spike proteins has been found to be immunogenic and induce high IFN-γ-specific T-cell response (Janice et al., 2012). Mutations in the spike protein could change the tropism of a virus, including new hosts or increasing viral pathogenesis (Shang et al., 2020). SARS-CoV possess some residues in RBD that allows the interspecies infection, known as Y442, L472, N479, D480, and T487 (Lu et al., 2015). However, in SARS-CoV2, slight modification of some residues could improve the interaction with the human cellular receptor: L455, F486, Q493, and N501. In SARS-CoV, two main residues (479 and 487) have been associated to the recognition of the human ACE2 receptor (Lu et al., 2015). These residues suffered a punctual mutation from civet to human, K479N and S487T (Li, 2013). In the SARS-CoV2, the residues corresponding to N479 correspond to Q493 and T487 to N501. Moreover, a model shows the presence of the two capping loops in the binding domain which produces a stabilization effect over the interaction with the cellular receptor (Ortega et al., 2020). Thus the amino acid substitutions and the longer capping loops could explain the increase in binding affinities in SARS-CoV2 compared to SARS-CoV. Since mutations play a major role, our focus of the present study was to understand the mutations in the spike glycoproteins from different countries as it could provide us an idea about the constant shift in the structure of the spike glycoproteins and probably enabling it to be transmitted to different regions However, is the mutation dependant on the race or ethnicity of a person or the gene pool is an entire new story altogether.

2. Methodology

A total of 22 coding sequences for spike glycoproteins were retrieved from NCBI database (http://www.ncbi.nim.nih.gov). Multiple Sequence alignment of the CDS region was performed using CLUSTAL Omega (https://www.ebi.ac.uk/Tools/msa/clustalol) (Madeira et al., 2019). The sequences were selected on the basis of their origin to 14 different countries affected by the COVID19 pandemic namely USA, India, China, Australia, Finland, South Korea, Brazil, Italy, Japan, Vietnam, Pakistan, Sweden, Taiwan and Spain (Accession numbers have been mentioned in Table 1). The phylogenetic analysis of SARS-CoV2 spike proteins of the different countries was done using MEGAX software (MEGA-X Version 7.0) (Kumar et al., 2018). The phylogenetic analysis was accomplished through multiple comparisons using the neighbor-joining algorithm in the MEGA-X. Multiple comparisons were done by ClustalW multiple sequence alignment and the neighbor-joining phylogenies were estimated by p-distance method.

3. Result and Discussion

A total of 22 different amino acid sequences of the spike glycoproteins from different countries were analysed by Multiple Sequence alignment (Table 1, Fig 2). The spike glycoprotein sequence of India showed mutations in the S1 and S2 domains. The mutation Ala930Val in the spike protein of the Indian sequence (Accession Number Q1A985839) has been observed to be in the S2 domain. It is well understood that these point mutation enhances the surface area for interaction with the ACE2 receptor while conserving the physico-chemical property of the side chain. Additionally, increasing the chance of vander-walls interactions and contributing to the protein core stability another mutation of Arg408Ile is noted to in the RBD region of the spike protein of another Indian sequence (Accession number MT012098). It has been seen that the RBD regions are mostly tyrosine rich to ensure proper contact with the ACE2 receptor (Zhu et al., 2013). However in contradiction reducing the binding affinity, the same spike glycoprotein of India shows a deletion at 145 amino acid position whereas the rest of the spike sequences from the other countries have a tyrosine residue. The spike glycoprotein of China (Accession numbers QIA20044 and Q1004367) and Finland (Accession number QHU79173) showed mutations in Tyr28Asn, Asn74Lys and His49Tyr respectively. Our study is the first report that indicates a point mutation of His49Tyr in the sequence of Finland (QH QHU79173) sharing similarity with SARS-CoV S^B(s-domain) of Urbani sequence(Accession number AAP1344)(data not shown) isolated in the late phase of the 2002-2003 SARS-CoV epidemic and dissimilarity with the remaining SARS-CoV2 spike sequences indicating reversion of mutation at specific sites. Likewise the spike glycoproteins of Australia (Accession Number QHR84449) showed mutation at Ser247Arg. It is quite interesting to note that the four different sequences of United States from Cruise A(Accession numbers QII57278, QIJ96493, QIK50427) and Washington (Accession number QH1187830) show mutation at two different positions where one mutation is at Phe157Leu and the other mutation is at Gly181Val, Asp614Gly and His655Tyr respectively. According to our study the spike glycoproteins of USA showed the maximum variations between the submitted sequences from United States itself. Though a drastic difference in the RBD region is not observed it is remarkable how small point mutations in other regions has shifted towards providing a favourable environment through hydrophobic interactions and hydrogen bonds as it binds to the host receptor. The spike glycoprotein of Sweden (Accession number Q1C53204) showed an amino acid deletion at the 910 position, however comparatively in all the other sequences of the spike glycoprotein of the other countries glycine was present. Interestingly, another spike glycoprotein sequence of Sweden (Accession number Q1C53204) showed a mutation in the Phe797Cys. The two Korean spike glycoprotein sequences (Accession number QH200379 and Accession number MT039890) showed mutation in the Ser221Trp however, it is interesting to note that the first spike glycoprotein sequence QH200379 was taken from a patient who had travelled to Wuhan from Korea and it is likely that he/she may have been infected in Wuhan, China. Probably these respective mutations in the SARS-CoV2 spike proteins of the different countries contribute to the occurrence of branches forming different clades in the phylogenetic tree (Fig 1). In the phylogenetic tree (Fig 1) SARS CoV-2 spike glycoprotein sequence from Sweden (QIC53204), China (YP009724390), Spain (QIQ08810) and Taiwan(MT06617) form a separate clade from the other sequences. Most of the SARS-CoV2 spike glycoprotein sequences of USA (QII57278, QII87830, QIJ96493, QIK50427), China(QIA20044), India(QIA98583), Finland(OHU79173, Australia(QHR84449) and South Korea(QHZ00379, MT039890) formed distinct cluster within the second clade. The remaining sequences of Brazil (MT126808), Italy(MT066156), Japan (LC528232) and China(NC_045512)corresponded to the second clade of the phylogenetic tree. However, the sequences of India (MT012098) and Vietnam (MT192772) formed a separate cluster within the phylogenetic tree. It is very important to analyse the spike glycoprotein sequences within different locations so as to monitor the spread and mobilization of the SARS-CoV2 to different countries across the globe.

Continuous analysis of the spike glycoprotein sequences of SARS-CoV2 obtained from different regions interacting with the ACE2 receptor is important. The various conserved domains as well as point mutations were noted across amino acid sequences pertaining to the spike glycoprotein of 14 different countries. Thus, one or a few seemingly trivial mutations at the receptor-binding surface of a virus may lead to dramatic epidemic outcomes by facilitating cross-species infections and human- to-human transmission of the virus. The changes in the amino acid residue of the Receptor binding domain may determine the host's fate and role in a viral epidemic by presenting species barriers for viral infections. The findings can fill in an important missing link and lead to development of vaccines and therapeutics associated with the COVID-19 pandemic. Also, the present work gives a better insight to understand the positions of amino acids which may be susceptible to mutations and can drastically aid SARS-CoV2 to evolve in the near future to another potential pathogenic strain.

References-

Babcock GJ, Esshaki DJ, Thomas WD, Ambrosino DM. 2004. Amino acids 270 to 510 of the severe acute respiratory syndrome coronavirus spike protein are required for interaction with receptor. Journal of Virology. 78, 4552–4560.

Breslin JJ, Mork I, Smith MK, Vogel LK, Hemmila EM, Bonavia A, Talbot PJ, Sjostrom H, Noren O, Holmes KV. 2003. Human coronavirus 229E: Receptorbinding domain and neutralization by soluble receptor at 37 degrees C. Journal of Virology.77, 4435–4438.

Donoghue M, Hsieh F, Baronas E, Godbout K, Gosselin M, Stagliano N, Donovan M, Woolf B, Robison K, Jeyaseelan R, Breitbart RE, Acton S. 2000. A novel angiotensin-converting enzyme-related carboxypeptidase (ACE2) converts angiotensin I to angiotensin 1–9. Circulation Research. 87, E1–E9.

Du L, Zhao G, Kou Z, Ma C, Sun S, Poon VK, Lu L, Wang L, Debnath AK, Zheng BJ, Zhou Y, Jiang S. 2013. Identification of Receptor-Binding Domain in S protein of the Novel Human Coronavirus MERS-CoV as an Essential Targetfor Vaccine Development. J. Virology. 87, 9939–9942.

He YX, Li JJ, Li WH, Lustigman S, Farzan M, Jiang SB. 2006. Crossneutralization of human and palm civet severe acute respiratory syndrome coronaviruses by antibodies targeting the receptor-binding domain of spike protein. Journal of Immunology. 176, 6085–6092.

Janice Oh HL, Ken-En Gan S, Bertoletti A, Tan YJ. 2012. Understanding the T cell immune response in SARS coronavirus infection. Emerging microbes & infections 1.1: 1-6.

Kumar S, Stecher G, Li M, Knyaz C, Tamura K. MEGA X: molecular evolutionary genetics analysis across computing platforms. Molecular biology and evolution. 2018 Jun 1; 35(6):1547-9.

Li F. 2013. Receptor recognition and cross-species infections of SARS coronavirus. Antiviral Research. 100: 246-54.

Li WD, Shi ZL, Yu M, Ren WZ, Smith C, Epstein JH, Wang HZ, Crameri G, Hu ZH, Zhang HJ, Zhang JH, McEachern J, Field H, Daszak P, Eaton BT, Zhang SY, Wang LF, 2005b. Bats are natural reservoirs of SARS-like coronaviruses. Science. 310, 676–679.

Li WH, Moore MJ, Vasilieva N, Sui JH, Wong SK, Berne MA, Somasundaran M, Sullivan JL, Luzuriaga K, Greenough TC, Choe H, Farzan M. 2003. Angiotensin-converting enzyme 2 is a functional receptor for the SARS coronavirus. Nature 426, 450–454.

Lin HX, Fen Y, Wong G, Wang LP, Li B, Zhao XS, Li Y, Smaill F, Zhang CS. 2008. Identification of residues in the receptor-binding domain (RBD) of the spike protein of human coronavirus NL63 that is critical for the RBD-ACE2 receptor interaction. Journal of General Virology. 89, 1015–1024.

Liu Y, O'Connor MB, Mandell KJ, Zen K, Ullrich A, Bühring HJ, Parkos CA. 2004. Peptide-mediated inhibition of neutrophil transmigration by blocking CD47 interactions with signal regulatory protein α. The Journal of Immunology. Feb 15;172(4):2578-85.

Liu Z, Xiao X, Wei X, Li J, Yang J, Tan H, Zhu J, Zhang Q, Wu J, Liu L. 2020. Composition and divergence of coronavirus spike proteins and host ACE2 receptors predict potential intermediate hosts of SARS-CoV-2. Journal of medical virology.

Lu G, Wang Q, Gao GF. 2015. Bat-to-human: spike features determining 'host jump' of coronaviruses SARS-CoV, MERS-CoV, and beyond. Trends Microbiology. 23:468-78.

Madeira F, Park YM, Lee J, Buso N, Gur T, Madhusoodanan N, Basutkar P, Tivey ARN, Potter SC, Finn RD, Lopez R. The EMBL-EBI search and sequence analysis tools APIs in 2019. Nucleic Acids Res. 2019 Jul; 47(W1) W636-W641. doi:10.1093/nar/gkz268. PMID: 30976793; PMCID: PMC6602479.

R Yan, Y Zhang, Y Guo, L Xia, Q Zhou. 2020. Structural basis for the recognition of the 2019-nCoV by human ACE2. BioRxiv.

Shang J, Wan Y, Liu C, Yount B, Gully K, Yang Y, Auerbach A, Peng G, Baric R, Li F. 2020. Structure of mouse coronavirus spike protein complexed with receptor reveals mechanism for viral entry. PLoS Pathogens. 16(3):e1008392.

Shijia Y, Haixia S, Xianzhang B, Guohui W. 2020. An evolutionary RGD motif in the spike protein of SARS-CoV-2 may serve as a potential high risk factor for virus infection?

Song Z, Y, Bao L, Zhang L, Yu P, Qu Y, Zhu H, Zhao W, Han Y, Qin C. 2019. From SARS to MERS, thrusting coronaviruses into the spotlight. Viruses. 11(1):E59.

Towler P, Staker B, Prasad SG, Menon S, Tang J, Parsons T, Ryan D, Fisher M, Williams D, Dales NA, Patane MA, Pantoliano MW. 2004. ACE2 X-ray structures reveal a large hinge-bending motion important for inhibitor binding and catalysis. Journal of Biological Chemistry. 279, 17996–18007.

Wan Y, Shang J, Graham R, Baric RS, Li F. 2020. Receptor recognition by the novel coronavirus from Wuhan: an analysis based on decade-long structural studies of SARS coronavirus." Journal of virology 94.7.

Wang Q, Vlasova AN, Kenney SP, Saif LJ. 2019. Emerging and re-emerging coronaviruses in pigs. Current opinion in virology. Feb 1;34:39-49.

Wong SK, Li W, Moore MJ, Choe H, Farzan MA. 2004. A 193-amino acid fragment of the SARS coronavirus S protein efficiently binds angiotensin-converting enzyme 2. Journal of Biological Chemistry. 279:3197-201.

Wu F, Zhao S, Yu B. 2020. A new coronavirus associated with human respiratory disease in China. Nature.

Wu KL, Peng GQ, Wilken M, Geraghty R.J, Li F. 2012. Mechanisms of Host Receptor Adaptation by Severe Acute Respiratory Syndrome Coronavirus. Journal of Biological Chemistry. 287, 8904–8911.

Xiao X, Chakraborti S, Dimitrov AS, Gramatikoff K, Dimitrov DS. 2003. The SARS-CoV S glycoprotein:expression and functional characterization. Biochemical and Biophysical Research Communications. 312:1159-64.

Xu X, Chen P, Wang J, Feng J, Zhou H, Li X, Zhong W, Hao P. 2020. Evolution of the novel coronavirus from the ongoing Wuhan outbreak and modeling of its Spike protein for risk of human transmission. Science China Life Sciences. Mar;63(3):457-60.

Yagil Y, Yagil C. 2003. Hypothesis - ACE2 modulates blood pressure in the mammalian organism. Hypertension 41, 871–873.

Yan R, Zhang Y, Guo Y, Xia L, Zhou Q. 2020. Structural basis for the recognition of the 2019-nCoV by human ACE2. BioRxiv.

Yin Y, Wunderink RG. 2018. MERS, SARS and other coronaviruses as causes of pneumonia. Respirology. Feb;23(2):130-7.

Zhou P, Yang XL, Wang XG, Hu B, Zhang L, Zhang W, Si HR, Zhu Y, Li B, Huang CL, Chen HD. 2020. Discovery of a novel coronavirus associated with the recent pneumonia outbreak in humans and its potential bat origin. BioRxiv.

Zhu N, Zhang D, Wang W, Li X, Yang B, Song J, Zhao X, Huang B, Shi W, Lu R, Niu P. 2020. A novel coronavirus from patients with pneumonia in China, 2019. New England Journal of Medicine.

Zhu X, Liu Q, Du L, Lu L, Jiang S. 2013. Receptor-binding domain as a target for developing SARS vaccines. Journal of Thoracic Disease 5.Suppl: S142.

Table 1: It represents the Accession Number, Country and the Date of submission of the sequences in the NCBI database.

Serial	A	DL	Date of a Ladada
No.	Accession No.	Place	Date of submission
1	QHR84449	Australia	30.01.2020
2	QHU79173	Finland	17.03.2020
3	QH200379	South Korea	11.02.2020
4	QIA20044	Yunnan(China)	09.02.2020
5	QIA98583	India	11.02.2020
6	QIC53204	Sweden	20.02.2020
7	Q1157278	Cruise A (U.S.A.)	07.03.2020
8	Q1187830	WA/ (U.S.A.)	06.03.2020
9	QIJ96493	Cruise A (U.S.A.)	12.03.2020
10	QIK50427	Cruise A (U.S.A.)	16.03.2020
11	Q1004367	Yunnan (China)	20.03.2020
12	Q1Q08810	Valencia (Spain)	23.03.2020
13	MT012098	India	01.02.2020
14	YP009724390	Wuhan (China)	17.01.2020
15	MT240479	Pakistan	25.03.2020
16	MT126808	Brazil	02.03.2020
17	MT192772	Vietnam	17.3.2020
18	LC528232	Japan	29.02.2020
19	MT039890	South Korea	11.02.2020
20	MT066175	Taiwan	14.2.2020
21	NC045512	Wuhan (China)	3.3.2020
22	MT066156	Italy	09.03.2020

Fig 1. Phylogenetic analysis of SARS cov2 spike proteins obtained from different countries. The evolutionary history was inferred using the Neighbor-Joining method. The optimal tree with the sum of branch length = 0.00942794 is shown. The evolutionary distances were computed using the p-distance method and are in the

units of the number of amino acid differences per site. The analysis involved 22 amino acid sequences. Evolutionary analyses were conducted in MEGAX software.

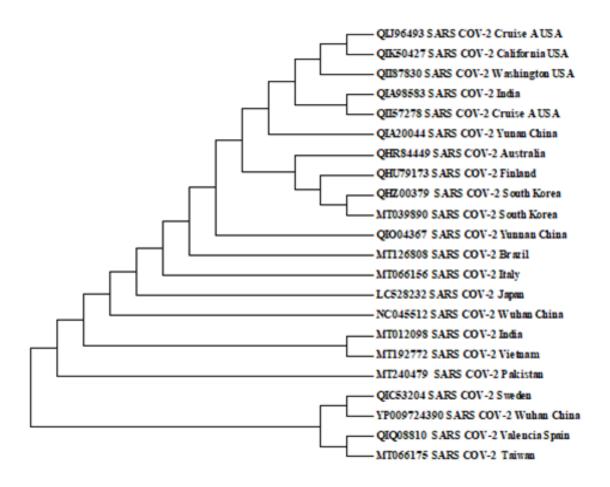


Fig 2. Multiple sequence alignment of 22 SARS-CoV2 glycoprotein encoding sequences using CLUSTAL Omega (https://www.ebi.ac.uk/Tools/msa/clustalol). The "*" means the identical and fully conserved amino acid residue. ":" means conservation within strong group of amino acid residue. ":" means conservation within weaker group of amino acid residues. The red bordered boxes indicate the point mutations.

QIC53204	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
MT012098	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QIQ08810	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QI004367 QIK50427	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QIJ96493	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLFFFS	60
QI187830	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QII57278	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QIA98583	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QIA20044 QHZ00379	MFVFLVLLPLVSSQCVNLTTRTQLPPANTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
MT039890	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QHU79173	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLYSTQDLFLPFFS	60
MT126808	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
MT066156	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
LC528232 NC 045512	MFVFLVLLPLVSSQCVNLTTRTQLPPAY NSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS MFVFLVLLPLVSSQCVNLTTRTQLPPAY NSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
MT240479	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
MT066175	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
MT192772	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
YP009724390	MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QHR84449	MFVFLVLLPLVSSQCVNLTTRTQLPPAY TNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFS	60
QIC53204	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
MT012098	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QIQ08810	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QI004367	NVTWFHAIHVSGTKGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QIK50427	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QIJ96493	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QII87830	NVTWFHAIHVSGT <mark>NG</mark> TKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV NVTWFHAIHVSGT <mark>NG</mark> TKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120 120
QII57278 QIA98583	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGYYFASTEKSNIIRGWIFGTTLDSKTQSLLIV NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QIA20044	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QHZ00379	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
MT039890	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QHU79173	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
MT126808	NVTWFHAIHVSGT <mark>NG</mark> TKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
MT066156	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
LC528232	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
NC_045512 MT240479	NVTWFHAIHVSGT <mark>NG</mark> TKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV NVTWFHAIHVSGT <mark>NG</mark> TKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120 120
MT066175	NVTWFHAINVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
MT192772	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
YP009724390	NVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120
QHR84449	NVTWFHAIHVSGT <mark>NG</mark> TKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIV	120

QIC53204	NNATNVVIKVCEFOFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
MT012098	NNATNVVIKVCEFÖFCNDPFLGVY-HKNNKSWMESEFRVYSSANNCTFEYVSÖPFLMDLE	179
01008810	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
Q1004367	NNATNVVIKVCEFÖFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSÖPFLMDLE	180
QIK50427	NNATNVVIKVCEFŐFCNDPFLGVY <mark>YH</mark> KNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSŐPFLMDLE	180
QIJ96493	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
QII87830	NNATNVVIKVCEFQFCNDPFLGVY <mark>Y</mark> HKNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180
QII57278	NNATNVVIKVCEFQFCNDPFLGVY <mark>YH</mark> KNNKSWMESE <mark>LR</mark> VYSSANNCTFEYVSQPFLMDLE	180
QIA98583	NNATNVVIKVCEFQFCNDPFLGVY <mark>Y</mark> HKNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180
QIA20044	NNATNVVIKVCEFQFCNDPFLGVY <mark>YH</mark> KNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180
QHZ00379	NNATNVVIKVCEFQFCNDPFLGVY <mark>YH</mark> KNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180
MT039890	NNATNVVIKVCEFQFCNDPFLGVY <mark>YH</mark> KNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180
QHU79173	NNATNVVIKVCEFQFCNDPFLGVY <mark>YH</mark> KNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180
MT126808	NNATNVVIKVCEFQFCNDPFLGVY <mark>Y</mark> HKNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180
MT066156	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
LC528232	NNATNVVIKVCEFQFCNDPFLGVY <mark>Y</mark> HKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
NC_045512	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
MT240479	NNATNVVIKVCEFQFCNDPFLGV\\ YHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
MT066175	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
MT192772	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
YP009724390	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLE	180
QHR84449	NNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESE <mark>FR</mark> VYSSANNCTFEYVSQPFLMDLE	180

QIC53204	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
MT012098	GKOGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPOGFSALEPLVDLPIGINITRFOT	239
01008810	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QI004367	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QIK50427	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QIJ96493	VKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQG <mark>F</mark> SALEPLVDLPIGINITRFQT	240
QII87830	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QII57278	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QIA98583	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QIA20044	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QHZ00379	GKOGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPOGFWALEPLVDLPIGINITRFOT	240
MT039890	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFWALEPLVDLPIGINITRFQT	240
QHU79173	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
MT126808	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
MT066156	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
LC528232		
	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
NC_045512	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
MT240479	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
MT066175	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
MT192772	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
YP009724390	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
QHR84449	GKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQT	240
ACCURACY STREET	***************************************	
QIC53204	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
MT012098	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	299
QIQ08810	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QI004367	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QIK50427	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QIJ96493	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QI187830	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QII57278	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLOPRTFLLKYNENGTITDAVDCALDPLSETK	300
QIA98583	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QIA20044	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLOPRTFLLKYNENGTITDAVDCALDPLSETK	300
QHZ00379	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
MT039890	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QHU79173	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
MT126808	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
MT066156	LLALH <mark>RS</mark> YLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
LC528232	LLALH <mark>RS</mark> YLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
NC_045512	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
MT240479	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
MT066175	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
MT192772	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
YP009724390	LLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300
QHR84449	LLALHRYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETK	300

07053004	CT. VCCT VCVCT VCTCUCD VCCTCT VDCCUTTU CCCCC VCUATOCACIA VA NOVOTCU	260
QIC53204	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
MT012098	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	359
QIQ08810	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QI004367	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QIK50427	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QIJ96493	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
OII87830	CTLKSFTVEKGIYOTSNFRVOPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QII57278	CTLKSFTVEKGIYÖTSNFRVÖPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QIA98583	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QIA20044	CTLKSFTVEKGIYOTSNFRVOPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QHZ00379	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
MT039890	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
QHU79173	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
MT126808	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
MT066156	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
LC528232	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
NC_045512	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
MT240479	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
MT066175	CTLKSFTVEKGIYOTSNFRVOPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
MT192772	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
YP009724390	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
OHR84449	CTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISN	360
CHALOUIL'S	CILKSFIVERGITQISHFRVQFIESIVKFFHIINLCFFGEVFHAIKFASVIAWKKISN	500

	П	
QIC53204	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
MT012098	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVIQIAPGQTGKIAD	419
01008810	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRDIAPGOTGKIAD	420
QI004367	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QIK50427	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QIJ96493	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QII87830	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QII57278	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QIA98583	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QIA20044	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QHZ00379	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
MT039890	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
QHU79173	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
MT126808	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEV <mark>R</mark> QIAPGQTGKIAD	420
MT066156	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
LC528232	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEV <mark>R</mark> QIAPGQTGKIAD	420
NC_045512	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
MT240479	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
MT066175	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIAD	420
MT192772	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEV <mark>R</mark> QIAPGQTGKIAD	420
YP009724390	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEV <mark>R</mark> QIAPGQTGKIAD	420
QHR84449	CVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEV <mark>R</mark> QIAPGQTGKIAD	420

QIC53204	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
MT012098	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	479
QIQ08810	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
QI004367	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
QIK50427 QIJ96493	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYOAGSTPC	480
QI187830	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
QII57278	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
QIA98583	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
QIA20044 QHZ00379	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480 480
MT039890	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
QHU79173	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
MT126808	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
MT066156 LC528232	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYOAGSTPC	480
NC_045512	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
MT240479	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480
MT066175	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYOAGSTPC	480
MT192772 YP009724390	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYKLFRKSNLKPFERDISTEIYQAGSTPC YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480 480
QHR84449	YNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPC	480

QIC53204	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
MT012098	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	539
QIQ08810	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPXKSTNLVKNKCVN	540
QI004367	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540 540
QIK50427 QIJ96493	NGVEGFNC1FFLQS1GFQF1NGVGTQFTNVVVLSFELLHAPATVCGPKKS1NLVKNKCVN NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
QII87830	NGVEGENCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
QII57278	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
QIA98583	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
QIA20044	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
QHZ00379	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
MT039890	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
QHU79173 MT126808	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540 540
MT066156	NGVEGFNCYFPLOSYGFOPTNGVGYOPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
LC528232	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
NC_045512	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
MT240479	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
MT066175	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
MT192772	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540
YP009724390 QHR84449	NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN NGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVN	540 540
Kill/O ddd	NGVEGFNCTFFLQSTGFQFINGVGTQFTRVVVLSFELLHAPATVCGFRKSINLVKNKCVN	340

QIC53204	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
MT012098	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	599
QIQ08810	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QI004367	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QIK50427	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QIJ96493	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QII87830	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QII57278	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QIA98583	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QIA20044	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
OHZ00379	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
MT039890	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QHU79173	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
MT126808	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
MT066156	FNFNGLTGTGVLTESNKKFLFFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
LC528232	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
NC 045512	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
MT240479	- 1987를 전한 경기를 보고 있다. (1987년 1987년 1984년 1982년 1987년 1987년 1987년 1987년 1987년 1987년 1987년 1982년 1987년	600
MT066175	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
MT192772	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
YP009724390	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QHR84449	FNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITP	600
QIC53204	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
MT012098	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	659
QIQ08810	GTNTSNQVAVLYQD <mark>V</mark> NCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAE <mark>HV</mark> NNSY	660
QI004367	GTNTSNQVAVLYQD <mark>V</mark> NCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAE <mark>HV</mark> NNSY	660
QIK50427	GTNTSNQVAVLYQGVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
QIJ96493	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
QII87830	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEYVNNSY	660
QII57278	GTNTSNQVAVLYOD VNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEH VNNSY	660
QIA98583	GTNTSNQVAVLYQD VNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHYNNSY	660
QIA20044	GTNTSNQVAVLYOD WIGTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660 660
QHZ00379 MT039890	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
QHU79173	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
MT126808	GTNTSNQVAVLTQDVNCTEVPVAITADQLTFTWKVTSTGSNVFQTRAGCLIGAEHVNNSY	660
MT066156	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
LC528232	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
NC 045512	GTNTSNOVAVLYOD VNCTEVPVAIHADOLTPTWRVYSTGSNVFOTRAGCLIGAEHVNNSY	660
MT240479	GTNTSNOVAVLYODVNCTEVPVAIHADOLTPTWRVYSTGSNVFOTRAGCLIGAEHVNNSY	660
MT066175	GTNTSNOVAVLYOD VNCTEVPVAIHADOLTPTWRVYSTGSNVFOTRAGCLIGAEHVNNSY	660
MT192772	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
YP009724390	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660
QHR84449	GTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSY	660

a box according to the contract of		
QIC53204	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
MT012098	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	719
QIQ08810	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QI004367	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QIK50427	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QIJ96493	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QI187830	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
Q1157278	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QIA98583	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QIA20044	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QHZ00379	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
MT039890	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QHU79173	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
MT126808	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
MT066156	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
LC528232	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
NC 045512	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
MT240479	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
MT066175	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
MT192772	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
YP009724390	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
QHR84449	ECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTI	720
Sullation	**************************************	, 20

QIC53204	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
MT012098	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	779
QIQ08810	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
QI004367	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
QIK50427	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
QIJ96493 QII87830	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780 780
0II57278	SVTTEILPVSMTKTSVDCTMTICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
QIA98583	SVTTEILPVSMTKTSVDCTMT1CGDSTCCSNLLLQYGSFCTQLNRALTGIAVCQDKNTQE	780
QIA20044	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
QHZ00379	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
MT039890	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
QHU79173	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
MT126808	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
MT066156	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
LC528232	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
NC_045512	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
MT240479	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780 780
MT066175 MT192772	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
YP009724390	SVTTEILPVSMTKTSVDCTMT1CGDSTECSNLLLQYGSFCTQLNRALTGIAVCQDKNTQE	780
QHR84449	SVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQE	780
QIC53204	VFAQVKQIYKTPPIKDCGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
MT012098	VFAQVKQİYKTPPIKDFGGFNFSQİLPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	839
QIQ08810	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
Q1004367	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QIK50427	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QIJ96493	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QII87830	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QII57278	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QIA98583	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QIA20044	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QHZ00379	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
MT039890	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
QHU79173	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
MT126808	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
MT066156	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
LC528232	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
NC_045512	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
MT240479	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
MT066175	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
MT192772	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840
YP009724390 QHR84449	VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC VFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDC	840 840
1000000		
QIC53204	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
MT012098	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	899
QIQ08810	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QI004367	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QIK50427	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QIJ96493	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QII87830	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QII57278	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QIA98583	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QIA20044	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QHZ00379	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
MT039890	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QHU79173	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
MT126808	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
MT066156	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
LC528232	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
NC_045512	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
MT240479	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
MT066175	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
MT192772	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
YP009724390	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM	900
QHR84449	LGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAM ************************************	900

MT126808

MT066156

LC528232

MT240479

MT066175

MT192772

QHR84449

YP009724390

NC_045512

QUESSIZOR MT012088 QMAYRFING.TYTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 959 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT008457 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT0084367 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT1587830 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT157278 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT157278 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT1587830 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT1587830 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT1587830 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT1887830 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QT288379 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINSA.TEKTQDS.LSSTASALGKLQDVVNQINQAQLIN 960 QMAYRFING.TOTQINV.YENQK.LIANQFINS			
MTP12988 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 959 Q1088167 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 960 Q108427 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 960 Q1084393 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 960 Q1157278 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 960 Q1157278 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 960 Q1208044 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 960 Q1208044 QWAYRENGIGYTQINU_YENQKLIANQENS. LEXTQDSLSSTSAGLEKLQDWNIQMQALN 960	OIC53204	OMAYRFNGI-VTONVLYENOKLIANOFNSAIGKIODSLSSTASALGKLODVVNONAOALN	959
QIQO83167 QWAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QIK50427 QWAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QIK50427 QWAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QWAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QUAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QUAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QUAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QWAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKLQDWNQMQALN 960 QWAYRFINGTOYTQINU_YENQKLIANQFINSACKTQDSLSSTASALGKQDWNQMQALN 960 QWAY			959
QÜTSP6493 QMAYRFINGTOYTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN QÜTSP6493 QUTSP6493 QMAYRFINGTOYTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN QÜTSP7278 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QUTSP6838 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QUAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QUAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 MT066156 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 MT066157 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 MT066175 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 MT066175 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLSSTASALGKQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENQKLTANQFISATCKTQOSLCSTASALGKQQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENGKTANQFISATCKTQOSLCSTASALGKQQOVNIQNAQALIN 960 QMAYRFINGTGVTQINLYENGKTANQFISATCKTQOSLCSTASALGKQQOVNIQNAQALIN 960 QMAYRFINGTOVTQINLYENGKTANQFISATCKTQOSLCSTASALGKQQOVNI	QIQ08810		960
QÜTSP789 QMYRFINGIOTYQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QTIS77278 QMYRFINGIOTYQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QTIS77278 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QTA920844 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QTA920844 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKLQOVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSSTASALGKQUVVNQNQAQALN 960 QMYRFINGIGVTQINU YENQKI LANQFINSA CKTQDSLSTASALQADA CKTQDSLSTASALQADA CKTQD	QI004367	QMAYRFNGIGVTQNVLYENQKLIANQFNSAIGKIQDSLSSTASALGKLQDVVNQNAQALN	960
QT1157278 ÖMAYRFINGTOYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QT1257278 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QT1280843 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QH208379 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QH208379 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QH0197173 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QH1979173 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN MT126808 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN MT266156 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN MC_645512 QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKIQOSLSSTASALGKLQOVNIQUAQALIN QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKQOSLSSTASALGKLQOVNIQUAQALIN QMAYRFINGTGYTQIN YENGKLIANGPHSA CKKQOSLSSTASALGKLQOVNIQUAQALIN<	QIK50427	QMAYRFNGIGVTQNVLYENQKLIANQFNSATGKIQDSLSSTASALGKLQDVVNQNAQALN	960
Q1157278 ÖMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIQÖSLSSTASALĞKL QÜVVNİQIAĞALN 968 Q1A98583 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISAY ÇKIQÖSLSSTASALĞKL QÜVVNİQIAĞALN 968 Q1A28644 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIQÖSLSSTASALĞKL QÜVVNİQIAĞALN 968 QH289379 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSLSSTASALĞKL QÜVVNİQIAĞALN 960 QH179173 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSLSSTASALĞKL QÜVVNİQIAQALN 960 MT126808 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSLSSTASALĞKL QÜVVNİQIAQALN 960 MT066156 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSLSSTASALĞKL QÜVVNİQIAQALN 960 MT066156 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSLSSTASALĞKL QÜVVNİQIAQALN 960 MT266175 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSLSSTASALĞKL QÜVVNİQIAQALN 960 MT266175 QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSLSSTASALĞKL QÜVVNİQIAQALN 960 YEP8BYZAĞBİ QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSL SSTASALĞKL QÜVVNİQIAQALN 960 QHAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSL ÇİSTASALĞKL QÜVVNİQIAQALN 960 QHAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSL ÇİSTASALĞKL QÜVVNİQIAQALN 960 QHERBALAD QMAYRFINGIGYTQİNLYENĞKLI ANQFHISA ÇKIÇÜSL ÇİSTASAL	QIJ96493	QMAYRFNGIGVTQNVLYENQKLIANQFNSA <mark>IGKIQDSLSSTASALGKLQDVVNQNAQALN</mark>	960
QTA38883 ĞMAYRFINGTOYQİNU, YENĞKLI ANĞERIS YEKÇÜÖSL SSTASALĞKL QÜVVNİQINĞAL NI 960 QTA208044 QMAYRFINGTGYTQİNU, YENĞKLI ANĞERIS AL GKIQDSL SSTASALĞKL QÜVVNİQINĞAL NI 960 QMAYRFINGTGYTQİNU, YENĞKLI ANĞERIS AL GKIQDSL SSTASALĞKL QÜVVNİQINĞAL NI 960 MT8398980 QMAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL GKIÇDSL SSTASALĞKL QÜVVNİQINĞAL NI 960 MT126808 QMAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL GKIÇDSL SSTASALĞKL QÜVVNİQINĞAL NI 960 MT1268156 QMAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL GKIÇDSL SSTASALĞKL QÜVVNİQINĞAL NI 960 LC528232 QMAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL GKIÇDSL SSTASALĞKL QÜVVNİQINĞAL NI 960 NC 845512 QMAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL ÇİKİ ÇÜSL SSTASALĞKL QÜVVNİQINĞAL NI 960 MT866175 QMAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL ÇİKİ ÇÜSL SSTASALĞKL QÜVVNİQINĞAL NI 960 MT192772 QMAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL ÇİKİ ÇÜSL SSTASAL ĞKL QÜVVNİQINĞAL NI 960 QHRAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL ÇİKİ ÇÜSL SSTASAL ĞKL QÜVVNİQINĞAL NI 960 QHRAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL ÇİKİ ÇÜSL SSTASAL ÇİKÜ ÇÜVVNİQINĞAL NI 960 QHAYRFINGTGYTQİNU, YENĞKLI LANÇERIS AL ÇİKİ ÇÜSL ÇÜYVYQÜL ÇİK ÇÜSL ÇİR YÜRÜL ÇİL ÇÜYL ÇÜŞL ÇÜR ÇÜR ÇÜR ÇÜR ÇÜR ÇÜR ÇÜR ÇÜR ÇÜR ÇÜR	QII87830	QMAYRFNGIGVTQNVLYENQKLIANQFN <mark>SA</mark> IGKIQDSLSSTASALGKLQDVVNQNAQALN	960
QTAZ0844 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT039890 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT039890 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT126888 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT066156 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT066156 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT066156 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 NC_045512 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT066156 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT066157 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT066159 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT066159 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSTATASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSTATASALGKLQDVVNQNAQALN 960 QWAYRENGIGVTQMVLYENQKLIANQFINSA GKIQDSLSTATA GKIQDSLSTATATA 1010 QUAYRENGIGVTQMVLYENQKL	QII57278	QMAYRFNGIGVTQNVLYENQKLIANQFN <mark>SA</mark> IGKIQDSLSSTASALGKLQDVVNQNAQALN	960
ÖHZORDATYP ÓMAYRENGIGYTÖNNI/ENÖKL LANGFINSA GKLTÖDSLSSTASALGKLÖDVNIÖNAGALN 966 MTB39898 QMAYRENGIGVTÖNVLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 MT126808 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 MT126808 QMAYRENGIGTOTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 MT266156 QMAYRENGIGTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 NC_045512 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 MT264479 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 MT129772 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 MT192772 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 QHR84449 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 QHR844449 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 QHR844449 QMAYRENGIGVTÖNNLYENÖKL LANGFINSA GKTQDSLSSTASALGKLÖDVNIÖNAGALN 966 QLC53284 TLIVKQLSSINFGAISSVLINDILSRLÖNVEAEVQIDRLTITGRLÖSLÜTVYTÖQLTRAAETRA 1819 QLC63284 TLIVKQLSSINFGAISSVLINDILSRLÖNVEAEVQIDRLTITGRLÖSLÜTVYTÖQLTRAAETRA 1829 <td>QIA98583</td> <td>QMAYRFNGIGVTQNVLYENQKLIANQFNSVIGKIQDSLSSTASALGKLQDVVNQNAQALN</td> <td>960</td>	QIA98583	QMAYRFNGIGVTQNVLYENQKLIANQFNSVIGKIQDSLSSTASALGKLQDVVNQNAQALN	960
MT939890 QMAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT966156 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT966156 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT966156 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT966157 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT240479 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT240479 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT240479 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT92772 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT92772 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QWAYRENGIGVTQMVLYENQKLIANQFHISA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QICS3204 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1019 QIQ08810 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1019 QIQ08810 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIJ6493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QITS7278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QI1878303 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1070 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVL	QIA20044		960
OHIT91733 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 MT126808 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 MT066156 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 NC. 945512 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 MT248479 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 MT248479 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 MT248479 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 MT192772 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 MT192772 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMR84449 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSSTASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTATASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTATASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTATASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTATASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTATASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTATASALGKLQDVVNONAQALN 960 OMAYRENGIGVTOMIV.YENOKLIANOFINSA GKIQDSLSTATASALGKLQDVVNONAQALN 960	QHZ00379		
MT126888 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT066156 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT066156 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT248479 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT248479 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT066175 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQMVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192782 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1019 MT012098 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TLVKQLSSNFGATSSVLNDTLSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT0187830 TL	MT039890		
MT066156 CC528232 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 NC_045512 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 NC_045512 MT240479 MT066175 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT066175 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 QMAYRFNGIGVTQNIVLYENQKLIANQFINSA GKTQDSLSSTASALGKLQDVVNQNAQALN 960 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIS08303 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIJ96493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98580 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98580 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98580 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98580 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA98580 SANLAATKMSEC			
LC528232 QMAYRFNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 NC 945512 QMAYRFNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT240479 QMAYRFNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 QMAYRFNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MYRRNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MYRRNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MYRRNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MYRRNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 MYRRNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QKISSALGALGVANQNAQALN 960 MYRRNGIGVTQNVLYENQKLIANQFINSA GKIQDSLSSTASALGKLQDVVNQNAQALN 960 QKISSALGALGVANQNAQALN 960 QKISSALGALGVANQNAQALN 960 QKISSALGALGVANQNAQALN 960 QKISSALGALGVANQNAQALN 960 QKISSALGALGVANQALGVANQALGVANQALAGALGVANQAL			
NC 945512 MAYRENGIGVTÖNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 MT240479 MAYRENGIGVTÖNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 MT066175 OMAYRENGIGVTÖNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 MT9809724390 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÖÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄA GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄ GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄ GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄ GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄ GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄ GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄ GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄ GKIQÖSLISSTASALGKLÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄÄ GKIQÖSLISSTASALGKULÖDVVNÖNÄÄÄLN 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄÄ 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄÄ 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄÄ 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄÄ 960 OMAYRENGIGVTÖNNLYENÖKLIANÖFINÄÄÄ 960 OMAYRENGIGVTÖNNLYENÖKLIANÖKL			
MT264279 MT066175 MT066175 MT066175 MT06772 MYRFNGIGVTQIVVLYENQKLIANQFNSAIGKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT192772 YPR09724390 QWAYRFNGIGVTQIVVLYENQKLIANQFNSAIGKIQDSLSSTASALGKLQDVVNQNAQALN 960 MT084449 QWAYRFNGIGVTQIVVLYENQKLIANQFNSAIGKIQDSLSSTASALGKLQDVVNQNAQALN 960 QWAYRFNGIGVTQIVVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKLQDVVNQNAQALN 960 QUAYRFNGIGVTQIVLYENQKLIANQFNSAIGKTQDSLSSTASALGKUQDSLSTASALGKUQDSLSTASALGKUQDSLTVTQQLIRAAEIRA 1020 QUIXGASAIC 1040 10			
MT66175 MT192772 MAYRFNGIGVTQİNVLYENQİKLIANQFNISAİĞKIQDSLSSTASALGKLQDVVNQİNAĞALN 960 97099724390 QHAYRFNGIGVTQİNVLYENQİKLIANQFNISAİĞKIQDSLSSTASALGKLQDVVNQİNAĞALN 960 960 960 960 960 960 960 960 960 960			
MT192772 P089724390 QMAYRFNGIGVTQNVLYENQKLIANQFNSALGKIQDSLSSTASALGKLQDVVNQNAQALN 960 QH884449 QMAYRFNGIGVTQNVLYENQKLIANQFNSALGKIQDSLSSTASALGKLQDVVNQNAQALN 960 QIC53204 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1019 MT012098 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIC08367 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIC084367 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIK50427 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QII506493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1021 QII187830 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1021 QIA08084 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA08084 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA08084 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 QIA08084 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT039399 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT04079173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT04079173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT040379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT040379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT040379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT040379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT040379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAAEIRA 1020 MT040379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQQLIRAEIRA 1020 MT0403			
QMAYRFNGIGVTQNULYENQKLIANOFN.SAIGKIQDSLSSTASALGKLQDVVNQNAQALN 960 QKR84449 QMAYRFNGIGVTQNULYENQKLIANOFN.SAIGKIQDSLSSTASALGKLQDVVNQNAQALN 960 QIC53204 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1019 QIQ08810 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIC04367 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIXFS0427 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QITS0493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIIB78780 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIIB78781 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIIB78780 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA20047 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA20049 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT092772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT092093 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPQQEKNFTTAPA 1080 QIR093157 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPQQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPQQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQ			
QHR84449 QMAYRFMGIGYTQMVLYENQKLIANOFN BAIGKTQDSLSSTASALGKLQDVVMQNAQALN QIC53204 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1019 QIQ08810 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA QIQ08810 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIC80817 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIS60427 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIT96493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIT96493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIT96493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIT96493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIT96493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039399 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039399 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT03608 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040479 TLVKQLSSNFGAISSVLNDILS			600000000
TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1019 QIQ08810 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1019 QIQ084367 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIK50427 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIIS06493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIIS06493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIIS06493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIIS07278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA00044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA00044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QH200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QH200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHU79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHU79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066155 TLVKQLSSNFGAISSV			
TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1019 QIQ084367 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIK50427 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIS60437 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QII87830 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QII87830 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QI187831 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT240449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT240449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT096175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT096175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT096175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT096175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAAEIRA 1020 MT096175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVYTQQLIRAEIRA 1020 MT096175 TLVKQLSSNFGAISSVLND	<i>бикочи</i> а	Q"ATRENGIGV I QNVLTCNQKLIANQENDALGKI QDSLSS I ASALGKL QDSVNQNAQALN	960
QIQ08810 QIQ084367 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIK50427 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIS06493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QI1878300 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QI1877278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA980379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ09379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT049373 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT29772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT29772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAEIRA 1020 QHR84449	QIC53204	TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA	1019
QITO4367 QIKS0427 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIS196493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIT187830 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIT187278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHJ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHJ01913 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHJ01913 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHJ01913 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT26688 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT266808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT266156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT266157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT2972 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 PM192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR88410 QHR88419 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR8810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHR88419 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR88419 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR88419 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR88419 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR88419 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAEIRA 1020 QHR88	MT012098	TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA	1019
QITS6493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QITS7278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QH200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QH200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QH200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QH200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QH200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT266156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT266157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT29772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT92772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT92772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040490 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT040490 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIR30491 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTVYPAQEKNFTTAPA 1080 QII575278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTVYPAQEKNFTTAPA 1080 QII575278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTVYPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTVYPAQEKNFTTAPA 1080 QIA20049 SANLAATKMSECV	QIQ08810	TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA	1020
QT1396493 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 QT157278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 QT157278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 QT1A20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 QTA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 QTA200379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT066157 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLTTGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT09272 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT09272 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIRS0403 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIRS0427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS06436 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS06437 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIB187830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIB187833 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA30890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTVVPAQEKNFTTAPA 1080 QIA30890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTVVPAQEKNFTTAPA 1080 QIA30890 SANLAATKM	QI004367		1020
QII57278 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA9044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHU79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHU79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT1240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NT084552 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 NT0396493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 NT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 NT039890 SANLAATKM		TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA	1020
QII57278 QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA QIA9044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIA20044 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHU79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHU79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSS	QIJ96493		
QIA98583 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHU79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT0366156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIC53204 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIC63204 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIB7830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QI187830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QI187830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QI187830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98589 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTA			
QIA20044 QHZ00379 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHJ79173 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLRNFTTAPA 1080 QHR94367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHR9404 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHR9404 SANL			20052000
TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 LC528232 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIO04367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIS50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIS60493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIS157278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIS157278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIS157278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIS157278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTTYVPAQEKNFTTAPA 1080 MT039890			
MT039890 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT09274390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT010208 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS60427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS196493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS196493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS197278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS197278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS19729 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS19729 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS19729 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS19729 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
QHU79173TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020MT126808TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020MT066156TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020LC528232TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020NC_045512TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020MT240479TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020MT066175TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020MT192772TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020VP009724390TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020QHR84449TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA1020VP0098810SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1079QIQ08810SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QIK59427SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QI1876493SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QI187780SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QI187278SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QI198830SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QI198799SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QI190379SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA <td></td> <td>그걸 [생기] 선생님에 되는 경소 전에 가장을 가장 생각이 되었다면 있다면 사람들이 되었다면 하는 이번 사람들이 되었다면 하는 사람들이 되었다면 하는 것이 보니까지 않는데 하는 것이 없다면 하는 것이 없다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데</td> <td></td>		그걸 [생기] 선생님에 되는 경소 전에 가장을 가장 생각이 되었다면 있다면 사람들이 되었다면 하는 이번 사람들이 되었다면 하는 사람들이 되었다면 하는 것이 보니까지 않는데 하는 것이 없다면 하는 것이 없다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데	
MT126808 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066156 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 WT012098 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 WT012098 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 WT012098 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIC03367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIS60439 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII87278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890			
MT066156 LC528232 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTQUIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTQUIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTVTQQLIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVVTQUIRAAEIRA 1020 P009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQ			
LC528232 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 YP009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 ***********************************			
NC_045512 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT240479 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT066175 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 YP009724390 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 ***********************************			
MT240479 MT066175 MT066175 MT066175 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 ********************************			
MT066175 MT066175 MT192772 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 *********************************		TI VKOI SSNEGATSSVI NDTI SRI DKVEAEVQIDKEITAKEQSEQTIVI QQEINACITA	
MT192772 YP009724390 QHR84449 TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAEIRAA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTQQLIRAEIRAA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTVTQQLIRAEIRAA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLGTVTQQLIRAEIRAA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLGTVTQQLIRAEIRAA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLGTVTQQLIRAEIRAA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLRTTAPA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLGTVTQQLIRAEIRAA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLGTVTQQLIRAEIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLGTVTQQLIRAEIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRQUVFLHVTYVPAQEKNFTTAPA TLVKQLSSNFGAISSVLNDICSCKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA TLVKQLSSNFGAISSVLNDICSCKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA TLO20 TLVKQLSSNFGAISSVLNDICSCKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA TLO20 TLVKQLSSNFGAISSVLNDICSCKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA TLO20 TLVKQLSSNFGAISSVLNDICSCKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAP			
TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA TLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRA 1020 QIC53204 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIO04367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIK50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20047 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			200
QIC53204 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 MT012098 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIO04367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIX50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIJ87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA200379 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
QIC53204 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 MT012098 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIO04367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIK50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHZ00379 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
MT012098 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QTQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QT004367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTS0427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20045 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20046 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20047 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20048 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
MT012098 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QTQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QT004367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTS0427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20045 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20046 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20047 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20048 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
MT012098 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QTQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QT004367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTS0427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20045 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20046 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20047 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20048 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
MT012098 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1079 QTQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QT004367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTS0427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTI57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20045 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20046 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20047 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20048 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20049 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QTA20040 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080	01053204	SANI VATKWZECAI GUZKBADECCKCAHI WZEDOZADHCZVAELHALTAAVOZENELTTADA	1070
QIQ08810 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIO04367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIX50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII187830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHZ00379 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080		마리 가수에 전혀 있다면 하는데 하는데 이번에 대통 사용을 하면 이번에 대한 사람들은 사용이 되었다면 하는데 이번에 통해 보고 있다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데	
QTO04367 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIK50427 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIJ96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHZ00379 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
QII96493 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHZ00379 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			1080
QII87830 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QII57278 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA98583 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHZ00379 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080		SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA	
QII57278SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QIA98583SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QIA20044SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QHZ00379SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080MT039890SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080			
QIA98583SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QIA20044SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080QHZ00379SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080MT039890SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA1080		[18] [18] [18] [18] [18] [18] [18] [18]	
QIA20044 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 QHZ00379 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080	•		
ÖHZ00379 SANLAATKMSECVLGÖSKRVDFCGKGYHLMSFPÖSAPHGVVFLHVTYVPAQEKNFTTAPA 1080 MT039890 SANLAATKMSECVLGÖSKRVDFCGKGYHLMSFPÖSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
MT039890 SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA 1080			
	QHU79173		

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

SANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPA

1080

1080

1080

1080

1080

1080

1080

1080

QIC53204	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1199
MT012098	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1199
QIQ08810	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QI004367	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QIK50427	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QIJ96493	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QII87830	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QII57278	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QIA98583	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QIA20044	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QHZ00379	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
MT039890	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QHU79173	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
MT126808	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
MT066156	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
LC528232	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
NC_045512	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
MT240479	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
MT066175	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
MT192772	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
YP009724390	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200
QHR84449	LQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDL	1200

QIC53204	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1259
MT012098	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1259
QIQ08810	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
Q1004367	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QIK50427	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QIJ96493	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QII87830	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QII57278	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QIA98583	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QIA20044	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QHZ00379	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
MT039890	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QHU79173	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
MT126808	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
MT066156	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
LC528232	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
NC 045512	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
MT240479	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
MT066175	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
MT192772	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
YP009724390	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260
QHR84449	QELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDD	1260

QIC53204 SEPVLKGVKLHYT 1272 SEPVLKGVKLHYT 1272 SEPVLKGVKLHYT 1273 MT012098 QIQ08810 QI004367 SEPVLKGVKLHYT 1273 QIK50427 SEPVLKGVKLHYT 1273 SEPVLKGVKLHYT 1273 QIJ96493 SEPVLKGVKLHYT 1273 QII87830 QII57278 SEPVLKGVKLHYT 1273 QIA98583 SEPVLKGVKLHYT 1273 SEPVLKGVKLHYT 1273 SEPVLKGVKLHYT 1273 QIA20044 QHZ00379 MT039890 SEPVLKGVKLHYT 1273 QHU79173 SEPVLKGVKLHYT 1273 SEPVLKGVKLHYT 1273 MT126808 SEPVLKGVKLHYT 1273 MT066156 LC528232 SEPVLKGVKLHYT 1273 NC 045512 SEPVLKGVKLHYT 1273 SEPVLKGVKLHYT 1273 SEPVLKGVKLHYT 1273 MT240479 MT066175 MT192772 SEPVLKGVKLHYT 1273 SEPVLKGVKLHYT 1273 YP009724390 SEPVLKGVKLHYT 1273 QHR84449