





gi | 124486835 | ref | NP\_001074759.1 | KEEQVIVVWSKKNIGEKGRSQ--FSKLPPRFARKQATGTCQIQAPPSAPVVSSSAPGLLAPAAAAPASTP---APVPLILASALALVVPVSTPAPVLTSPAPVPT-----ASAPVPASTSPVITASSSSQPFVPAPVPLASAST 1809  
gi | 109498088 | ref | XP\_341142.3 | KEEQVIVVWSKKNIGEKGRSQ--FSKLPPRFARKQATGTCQVQAAPPSAPLVSSSAPALVSLAPAVPASTP---APVPLILASALALVVPVSTPAPVLTSPAPVPT-----ASAPVPASTSPVITASSSSQPFVPAPVPLASAST 1823  
gi | 115298682 | ref | NP\_055987.2 | KEEQVIVVWSKKNIGEKGRSQ--FSKLPPRFARKQATGTCQQAQSSASVPLASAPLPPSTASVVPASTSAPLPAILLTPVPASTSAPVPASTLAPVLASASAPVPASPLAPVSAASVSASVVPASTSAAATSSSSAPASAPAPVPLASVST 1849  
gi | 114565399 | ref | XP\_001144679.1 | KEEQVIVVWSKKNIGEKGRSQ--FSKLPPRFARKQATGTCQQAQSSASVPLASAPLPPSTASVVPASTSAPLPAILLTPVPASTSAPVPASTLAPVLASASAPVPASPLAPVSAASVSASVVPASTSAAATSSSSAPASAPAPVPLASVST 1790  
gi | 73960628 | ref | XP\_862019.1 | KEEQVIVVWSKKNIGEKGRSQ--FSKLPPRFARKQATGTCQQAQALAPAP-----ASTPGLASASAPVPAAPAPVLTSPAPVPT-----ASTPVPSTSPAPVITVTS---SAPAPVPLASASS 1791  
gi | 189533009 | ref | XP\_001919460.1 | KEEQVIVVWSKKNIGEKGRGGGSKLPPRFARKQQQQQQQG-----AAAVQQPAPAPQS-----ASTPVPSTSPAPVITVTS---SAPAPVPLASASS 1747  
.....1810.....1820.....1830.....1840.....1850.....1860.....1870.....1880.....1890.....1900.....1910.....1920.....1930.....1940.....1950



gi | 124486835 | ref | NP\_001074759.1 | TVSVPIILTSASIPILASALAPAVSSPPVVSATAVPISITPAVPAASAPVPLASAPASAS-----VPPPASVIVTQTOTQTHKPVQSPLPFPAPSSKQPPSIRLPSAQTNGIDFVAAGKSMPTSSQSHGSLTAEIWDKVAAP 1951  
gi | 109498088 | ref | XP\_341142.3 | TVSVPIILTSASIPILASALAPAVSSPPVVSATAVPISITPAVPAASAPVPLASAPASAS-----VAPTPASVIVTQTOTQ--HKPVQSPLPFPAPSSKQPPSIRLPSAQTNGIDFVAAGKSMPTSSQSHGSLTAEIWDKVAAP 1963  
gi | 115298682 | ref | NP\_055987.2 | PASVITILASASIPILASALASTSAPVPAASASPAAPVITAPITPAASAPVPLASAPASAPAPAPVFAAPNAPAPAPAOQAQTHKPVQNPQTSSQSSKQPPSIRLPSAQTNGIDFVAAGKSIOTPSHGILLTAEIWDKVAAP 1999  
gi | 114565399 | ref | XP\_001144679.1 | PASVPIILASASIPILASALASTSAPVPAASASPAAPVITAPITPAASAPVPLASAPASAPAPAPVFAAPNAPALPAPAOQAQTHKPVQNPQTSSQSSKQPPSIRLPSAQTNGIDFVAAGKSIOTPSHGILLTAEIWDKVAAP 1940  
gi | 73960628 | ref | XP\_862019.1 | PASVPIILTSASIPILASALTPSASAPAPVITVAPVAPVTS--APAPVAPITPAVPAASAPALVPIPAAPASAPAOQAQTHKPVQSLOQTTPSSKQPPSIRLPSAQTNGIDFVAAGKSIOTPSHGILLTAEIWDKVAAP 1940  
gi | 189533009 | ref | XP\_001919460.1 | .....1960.....1970.....1980.....1990.....2000.....2010.....2020.....2030.....2040.....2050.....2060.....2070.....2080.....2090.....2100



gi | 124486835 | ref | NP\_001074759.1 | AVLNDISKKLGPIPPPPSVSAWNKPLTSFGSATSSGTRNGQESGVEIGIDTIQFGAPASNG--NENEVVPVLSSEKATD--KVEPEKORQKOPRAGPIKAQKLPDLSPVENKEHKPGPIGKERSLKNRK--VKDAQOQVEPEGQEKPSPAV 2098  
gi | 109498088 | ref | XP\_341142.3 | AVLNDISKKLGPIPPPPSVSAWNKPLTSFGSATSSGTRNGQESGVEIGIDTIQFGAPASNG--NENEVVPVLSSEKPTD--KVEPEKORQKOPRAGPIKAQKLPDLSPVENKEHKPGPIGKERSLKNRK--VKDAQOQVEPEGQEKPSPA 2110  
gi | 115298682 | ref | NP\_055987.2 | AVLNDISKKLGPIPPPPSVSAWNKPLTSFGSATSSGTRNGQESGVEIGIDTIQFGAPASNG--NENEVVPVLSSEKAD--KIEPEKORQKOPRAGPIKAQKLPDLSPVENKEHKPGPIGKERSLKNRK--VKDAQOQVEPEGQEKPSPA 2146  
gi | 114565399 | ref | XP\_001144679.1 | AVLNDISKKLGPIPPPPSVSAWNKPLTSFGSATSSGTRNGQESGVEIGIDTIQFGAPASNG--NENEVVPVLSSEKAD--KIEPEKORQKOPRAGPIKAQKLPDLSPVENKEHKPGPIGKERSLKNRK--VKDAQOQVEPEGQEKPSPA 2087  
gi | 73960628 | ref | XP\_862019.1 | AVLNDISKKLGPIPPPPSVSAWNKPLTSFGSATSSGTRNGQESGVEIGIDTIQFGAPASNG--NENEVVPVLSSEKTD--KIEPEKORQKOPRAGPIKAQKLPDLSPVENKEHKPGPIGKERSLKNRK--VKDAQOQVEPEGQEKPSPA 2087  
gi | 189533009 | ref | XP\_001919460.1 | TVLSDV--KKLGPIPPPPSVSAWNKPLTSFGTVLPEGVKAGVESGVELGMDSIQFGAPSSAG--TDSGVPALLETSDNKLPEKORQKOPRAGVVKPKQLPDPPEHKEYKPGPIGKERSLKNRKAADKVRQDGEGLDNGSTGA 1965  
.....2110.....2120.....2130.....2140.....2150.....2160.....2170.....2180.....2190.....2200.....2210.....2220.....2230.....2240.....2250



gi | 124486835 | ref | NP\_001074759.1 | VRSTDPEAKETKAVSEMSAIEIGAMISVSSAEYGDAKESVTDYTPSSSLPNTVATNNKMEDILVNNVPLPNTLPLPKRETIQSSSLTVSPPPTFSLFKMESARKAWENSPNLRKGSFVITSTAPPVIVGSSSAGPSTANYNSF 2248  
gi | 109498088 | ref | XP\_341142.3 | VRSTDPEAKETKAVSEMSAIEIGAMISVSAPEYGDAKESVTDYTPSSSLPNTVATNNKMEDILVNNVPLPNTLPLPKRETIQSSSLTVSPPPTFSLFKMESARKAWENSPNLRKGSFVITSTAPPVIVGSSSAGPSTANYNSF 2260  
gi | 115298682 | ref | NP\_055987.2 | VRSTDPEAKETKAVSEMSAIEIGAMISVSSAEYGNAKESVTDYTPSSSLPNTVATNNKMEDILVNNVPLPNTLPLPKRETIQSSSLTVSPPPTFSLFKMESARKAWENSPNLRKGSFVITSTAPPVIVGSSSAGPSTANYNSF 2296  
gi | 114565399 | ref | XP\_001144679.1 | VRSTDPEAKETKAVSEMSAIEIGAMISVSSAEYGNAKESVTDYTPSSSLPNTVATNNKMEDILVNNVPLPNTLPLPKRETIQSSSLTVSPPPTFSLFKMESARKAWENSPNLRKGSFVITSTAPPVIVGSSSAGPSTANYNSF 2237  
gi | 73960628 | ref | XP\_862019.1 | VRSTDPEAKETKAVSEMSAIEIGAMISVSSAEYGNAKESVTDYTPSSSLPNTVATNNKMEDILVNNVPLPNTLPLPKRETIQSSSLTVSPPPTFSLFKMESARKAWENSPNLRKGSFVITSTAPPVIVGSSSAGPSTANYNSF 2237  
gi | 189533009 | ref | XP\_001919460.1 | VRSTDPEAKETKAVSEMSAIEIGAMISVSSAEYGNAKESVTDYTPSSSLPNTVATNNKMEDILVNNVPLPNTLPLPKRETIQSSSLTVSPPPTFSLFKMESARKAWENSPNLRKGSFVITSTAPPVIVGSSSAGPSTANYNSF 2109  
.....2260.....2270.....2280.....2290.....2300.....2310.....2320.....2330.....2340.....2350.....2360.....2370.....2380.....2390.....2400



gi | 124486835 | ref | NP\_001074759.1 | SSASMPQIPVASVPTASLSCAGTYITSSLSLTKSTTTSDPPNICKVKPQQLQTSLSLPSASHFSQLSCMPSLIA--QQQSPQVIVVSQSAQAQIPAFYMDTSHLFNTQHARLAPPSLAQOQGFQPLSQPTVQVQIPPIYAPLQGHQAQL 2397  
gi | 109498088 | ref | XP\_341142.3 | SSASMPQIPVASVPTASLSCAGTYITSSLSLTKSTTTSDPPNICKVKPQQLQTSLSLPSASHFSQLSCMPSLIA--QQQSPQVIVVSQSAQAQIPAFYMDTSHLFNTQHARLAPPSLAQOQGFQPLSQPTVQVQIPPIYAPLQGHQAQL 2409  
gi | 115298682 | ref | NP\_055987.2 | SSASMPQIPVASVPTASLSCAGTYITSSLSLTKSTTTSDPPNICKVKPQQLQTSLSLPSASHFSQLSCMPSLIA--QQQSPQVIVVSQSAQAQIPAFYMDTSHLFNTQHARLAPPSLAQOQGFQPLSQPTVQVQIPPIYAPLQGHQAQL 2445  
gi | 114565399 | ref | XP\_001144679.1 | SSASMPQIPVASVPTASLSCAGTYITSSLSLTKSTTTSDPPNICKVKPQQLQTSLSLPSASHFSQLSCMPSLIA--QQQSPQVIVVSQSAQAQIPAFYMDTSHLFNTQHARLAPPSLAQOQGFQPLSQPTVQVQIPPIYAPLQGHQAQL 2386  
gi | 73960628 | ref | XP\_862019.1 | SSASMPQIPVASVPTASLSCAGTYITSSLSLTKSTTTSDPPNICKVKPQQLQTSLSLPSASHFSQLSCMPSLIA--QQQSPQVIVVSQSAQAQIPAFYMDTSHLFNTQHARLAPPSLAQOQGFQPLSQPTVQVQIPPIYAPLQGHQAQL 2386  
gi | 189533009 | ref | XP\_001919460.1 | SSASVPIIPVASVPTASLSCAGTYITSSLSLTKSTTTSDPPNICKVKPQQLQTSLSLPSASHFSQLSCMPSLIA--QQQSPQVIVVSQSAQAQIPAFYMDTSHLFNTQHARLAPPSLAQOQGFQPLSQPTVQVQIPPIYAPLQGHQAQL 2258  
.....2410.....2420.....2430.....2440.....2450.....2460.....2470.....2480.....2490.....2500.....2510.....2520.....2530.....2540.....2550



gi | 124486835 | ref | NP\_001074759.1 | SLGAGPAVSQAQELFSSSIQPYRSQPAFMOSLSQPS--VVLSGTAIHNFPVAVQHELAQAQSLGAFQOQTSNTPQIPILYEHQGLGQASGLGSSQLIDTHLLQARANLQAASNLVSGVQVQPGQTNFYNTAOSPS--ALQOQVIVPLPASQLSL 2545  
gi | 109498088 | ref | XP\_341142.3 | SLGAGPAVSQAQELFSSSIQPYRSQPAFMOSLSQPS--VVLSGTALHNFPVAVQHELAQAQSLGAFQOQTSNTPQIPILYEHQGLGQASGLGSSQLIDTHLLQARANLQAASNLVSGVQVQPGQTNFYNTAOSPS--ALQOQVIVPLPASQLSL 2577  
gi | 115298682 | ref | NP\_055987.2 | SLGAGPAVSQAQELFSSSIQPYRSQPAFMOSLSQPS--VVLSGTAIHNFPVAVQHELAQAQSLGAFQOQTSNTPQIPILYEHQGLGQASGLGSSQLIDTHLLQARANLQAASNLVSGVQVQPGQTNFYNTAOSPS--ALQOQVIVPLPASQLSL 2593  
gi | 114565399 | ref | XP\_001144679.1 | SLGAGPAVSQAQELFSSSIQPYRSQPAFMOSLSQPS--VVLSGTALHNFPVAVQHELAQAQSLGAFQOQTSNTPQIPILYEHQGLGQASGLGSSQLIDTHLLQARANLQAASNLVSGVQVQPGQTNFYNTAOSPS--ALQOQVIVPLPASQLSL 2534  
gi | 73960628 | ref | XP\_862019.1 | SLGAGPAVSQAQELFSSSIQPYRSQPAFMOSLSQPS--VVLSGTAIHNFPVAVQHELAQAQSLGAFQOQTSNTPQIPILYEHQGLGQASGLGSSQLIDTHLLQARANLQAASNLVSGVQVQPGQTNFYNTAOSPS--ALQOQVIVPLPASQLSL 2534  
gi | 189533009 | ref | XP\_001919460.1 | SLSTGPFVQPDQLFSSSIQPYRSQPAFMOSLSQPS--VVLSGTALHNFPVAVQHELAQAQSLGAFQOQTSNTPQIPILYEHQGLGQASGLGSSQLIDTHLLQARANLQAASNLVSGVQVQPGQTNFYNTAOSPS--ALQOQVIVPLPASQLSL 2405  
.....2560.....2570.....2580.....2590.....2600.....2610.....2620.....2630.....2640.....2650.....2660.....2670.....2680.....2690.....2700



