

gi|74008809|ref|XP\_867483.1|MSSSHSRAGQSAAGAAPGGGADTRDAEMPATEKDLAEDAPWKKIQQNTFRWCNEHLKCVSKRIANLQTDLSDGLRLIALLEVLVSQKKMHRKHNRPTFRMOMLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLIWLILILHYSI 150  
gi|194680254|ref|XP\_614269.4|MSSSHSRAGQSAAGAVLGIADTRDAEMPATEKDLAEDAPWKKIQQNTFRWCNEHLKCVSKRIANLQTDLSDGLRLIALLEVLVSQKKMHRKHNRPTFRMOMLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLIWLILILHYSI 150  
gi|125347376|ref|NP\_034357.2|MSSSHSRAGQSAAGAVLGIADTRDAEMPATEKDLAEDAPWKKIQQNTFRWCNEHLKCVSKRIANLQTDLSDGLRLIALLEVLVSQKKMHRKHNRPTFRMOMLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLIWLILILHYSI 150  
gi|109511356|ref|XP\_238167.4|MSSSHSRAGQSAAGASPAGGIDTRDAEMPATEKDLAEDAPWKKIQQNTFRWCNEHLKCVSKRIANLQTDLSDGLRLIALLEVLVSQKKMHRKHNRPTFRMOMLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLIWLILILHYSI 150  
gi|160420317|ref|NP\_001104026.1|MSSSHSRAGQSAAGAAPGGGVDTRDAEMPATEKDLAEDAPWKKIQQNTFRWCNEHLKCVSKRIANLQTDLSDGLRLIALLEVLVSQKKMHRKHNRPTFRMOMLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLIWLILILHYSI 150  
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi|74008809|ref|XP\_867483.1|SMPMWDEEEDAEAKKQTPKQRLLGWIQNKLPQLPITNFSRDWQSGRALGALVDSAPGLCPDWDSDWASKPVNAREAMQADDWLGIPQVITPEEIVDPNVDEHSVMTYLSQFPKAKLPGAPLRPKLNPKKARAYGPIEPTGNMVKK 300  
gi|194680254|ref|XP\_614269.4|SMPMWDEEEDAEAKKQTPKQRLLGWIQNKLPQLPITNFSRDWQSGRALGALVDSAPGLCPDWDSDWASKPVNAREAMQADDWLGIPQVITPEEIVDPNVDEHSVMTYLSQFPKAKLPGAPLRPKLNPKKARAYGPIEPTGNMVKK 300  
gi|125347376|ref|NP\_034357.2|SMPMWDEEEDAEAKKQTPKQRLLGWIQNKLPQLPITNFSRDWQSGRALGALVDSAPGLCPDWDSDWASKPVNAREAMQADDWLGIPQVITPEEIVDPNVDEHSVMTYLSQFPKAKLPGAPLRPKLNPKKARAYGPIEPTGNMVKK 300  
gi|109511356|ref|XP\_238167.4|SMPMWDEEEDAEAKKQTPKQRLLGWIQNKLPQLPITNFSRDWQSGRALGALVDSAPGLCPDWDSDWASKPVNAREAMQADDWLGIPQVITPEEIVDPNVDEHSVMTYLSQFPKAKLPGAPLRPKLNPKKARAYGPIEPTGNMVKK 300  
gi|160420317|ref|NP\_001104026.1|SMPMWDEEEDAEAKKQTPKQRLLGWIQNKLPQLPITNFSRDWQSGRALGALVDSAPGLCPDWDSDWASKPVNAREAMQADDWLGIPQVITPEEIVDPNVDEHSVMTYLSQFPKAKLPGAPLRPKLNPKKARAYGPIEPTGNMVKK 300  
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi|74008809|ref|XP\_867483.1|RAEFTVETRSAGQGEVLVYVEDPAGHOEAKVTANNDKNRFTSVVYVPEVTGTHKVTVLFAGQHIAKSPFEVYVDKSGDASKVTAQGGPLEPSGNIANKTYFEIFTAGAGTGEVEVVIQDPTGQKGTVEPQLEARGDSTYRCSYQPTM 450  
gi|194680254|ref|XP\_614269.4|RAEFTVETRSAGQGEVLVYVEDPAGHOEAKVTANNDKNRFTSVVYVPEVTGTHKVTVLFAGQHIAKSPFEVYVDKSGDASKVTAQGGPLEPSGNIANKTYFEIFTAGAGTGEVEVVIQDPTGQKGTVEPQLEARGDSTYRCSYQPTM 450  
gi|125347376|ref|NP\_034357.2|RAEFTVETRSAGQGEVLVYVEDPAGHOEAKVTANNDKNRFTSVVYVPEVTGTHKVTVLFAGQHIAKSPFEVYVDKSGDASKVTAQGGPLEPSGNIANKTYFEIFTAGAGTGEVEVVIQDPTGQKGTVEPQLEARGDSTYRCSYQPTM 450  
gi|109511356|ref|XP\_238167.4|RAEFTVETRSAGQGEVLVYVEDPAGHOEAKVTANNDKNRFTSVVYVPEVTGTHKVTVLFAGQHIAKSPFEVYVDKSGDASKVTAQGGPLEPSGNIANKTYFEIFTAGAGTGEVEVVIQDPTGQKGTVEPQLEARGDSTYRCSYQPTM 450  
gi|160420317|ref|NP\_001104026.1|RAEFTVETRSAGQGEVLVYVEDPAGHOEAKVTANNDKNRFTSVVYVPEVTGTHKVTVLFAGQHIAKSPFEVYVDKSGDASKVTAQGGPLEPSGNIANKTYFEIFTAGAGTGEVEVVIQDPTGQKGTVEPQLEARGDSTYRCSYQPTM 450  
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi|74008809|ref|XP\_867483.1|EGVHTVHVTFAGVPIPRSPYTVTVGQACNPGACRAVGRGLQPKGVRVKEADFKVYTKGAGSGELKVTGKPKGEEERVKQKDLGDGVYGFYYPMVPGTYIVTITWGGONIGRSPFEVKVGTCEGNQKVRWAGPGLGGVVGKSADEFVVE 600  
gi|194680254|ref|XP\_614269.4|EGVHMVHVTFAGVPIPRSPYTVTVGQACNPGACRAVGRGLQPKGVRVKEADFKVYTKGAGSGELKVTGKPKGEEERVKQKDLGDGVYGFYYPMIPGTITVITWGGONIGRSPFEVKVGTCEGNQKVRWAGPGLGGVVGKSADEFVVE 600  
gi|125347376|ref|NP\_034357.2|EGVHTVHVTFAGVPIPRSPYTVTVGQACNPAACRAIGRGLQPKGVRVKEADFKVYTKGAGSGELKVTGKPKGEEERVKQKDLGDGVYGFYYPIIPGTITVITWGGONIGRSPFEVKVGTCEGNQKVRWAGPGLGGVVGKSADEFVVE 600  
gi|109511356|ref|XP\_238167.4|EGVHTVHVTFAGVPIPRSPYTVTVGQACNPTACRAVGRGLQPKGVRVKEADFKVYTKGAGSGELKVTGKPKGEEERVKQKDLGDGVYGFYYPIIPGTITVITWGGONIGRSPFEVKVGTCEGNQKVRWAGPGLGGVVGKSADEFVVE 600  
gi|160420317|ref|NP\_001104026.1|EGVHTVHVTFAGVPIPRSPYTVTVGQACNPSACRAVGRGLQPKGVRVKEADFKVYTKGAGSGELKVTGKPKGEEERVKQKDLGDGVYGFYYPMVPGTYIVTITWGGONIGRSPFEVKVGTCEGNQKVRWAGPGLGGVVGKSADEFVVE 600  
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi|74008809|ref|XP\_867483.1|AIGDDVGLGFSVEGPPQAKIECDDKGDGSCDVRYPWQEAEGYAVHVLCNSIEDIRLSPFMADIREAPQDFHPDRVKARGPGLKTVAVNKPAEFTVDAKHGGKAPLRVQVODNEGCPVDAIVKDNNGNTYSCSYVPRKPKVHTAMVSWG 750  
gi|194680254|ref|XP\_614269.4|AIGDDVGLGFSVEGPPQAKIECDDKGDGSCDVRYPWQEAEGYAVHVLCNSIEDIRLSPFMADIREAPQDFHPDRVKARGPGLKTVAVNKPAEFTVDAKHGGKAPLRVQVODNEGCPVDAIVKDNNGNTYSCSYVPRKPKVHTAMVSWG 750  
gi|125347376|ref|NP\_034357.2|AIGDDVGLGFSVEGPPQAKIECDDKGDGSCDVRYPWQEAEGYAVHVLCNSIEDIRLSPFMADIREAPQDFHPDRVKARGPGLKTVAVNKPAEFTVDAKHAGKAPLRVQVODNEGCSVEAIVKDNNGNTYSCSYVPRKPKVHTAMVSWG 750  
gi|109511356|ref|XP\_238167.4|AIGDDVGLGFSVEGPPQAKIECDDKGDGSCDVRYPWQEAEGYAVHVLCNSIEDIRLSPFMADIREAPQDFHPDRVKARGPGLKTVAVNKPAEFTVDAKHGGKAPLRVQVODNEGHSVETIVKDNNGNTYSCSYVPRKPKVHTAMVSWG 750  
gi|160420317|ref|NP\_001104026.1|AIGDDVGLGFSVEGPPQAKIECDDKGDGSCDVRYPWQEAEGYAVHVLCNSIEDIRLSPFMADIREAPQDFHPDRVKARGPGLKTVAVNKPAEFTVDAKHGGKAPLRVQVODNEGCPVEALVKNNGNTYSCSYVPRKPKVHTAMVSWG 750  
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi|74008809|ref|XP\_867483.1|GVSIPNSPFRVNVGAGSHPNKKVKVYGPVAKTGLKAHEPTYFTVDCTEAGQGDVSIKICAPGVVGPTEADIDFDIIRNDNDFTVKYTPRGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLSRIGVELGKPTHTVNAK 900  
gi|194680254|ref|XP\_614269.4|GVSIPNSPFRVNVGAGSHPNKKVKVYGPVAKTGLKAHEPTYFTVDCTEAGQGDVSIKICAPGVVGPTEADIDFDIIRNDNDFTVKYTPRGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLSRIGVELGKPTHTVNAK 900  
gi|125347376|ref|NP\_034357.2|GVSIPNSPFRVNVGAGSHPNKKVKVYGPVAKTGLKAHEPTYFTVDCTEAGQGDVSIKICAPGVVGPTEADIDFDIIRNDNDFTVKYTPCGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLNRTIGVELGKPTHTVNAK 900  
gi|109511356|ref|XP\_238167.4|GVSIPNSPFRVNVGAGSHPNKKVKVYGPVAKTGLKAHEPTYFTVDCTEAGQGDVSIKICAPGVVGPTEADIDFDIIRNDNDFTVKYTPCGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLNRTIGVELGKPTHTVNAK 900  
gi|160420317|ref|NP\_001104026.1|GVSIPNSPFRVNVGAGSHPNKKVKVYGPVAKTGLKAHEPTYFTVDCTEAGQGDVSIKICAPGVVGPTEADIDFDIIRNDNDFTVKYTPRGAGSYTIMVLFADQATPTSPIRVKVEPSHDASKVKAEGPGLSRIGVELGKPTHTVNAK 900  
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900



gi|74008809|ref|XP\_867483.1| AAGKGPDPVQFSGLAKDAVRDVIDIDHDNTYTVKYIPVQQGPGVGNVYGGDPIPKSPFFVGVGSPFLDLSKIKVSGLGEKVDVGDQEFVTKSKGAGGQKVASKITGPGTAVPCKVEPGLGADNSVVRFPREEGPYEVEVTYDGV 1050  
gi|194680254|ref|XP\_614269.4| AAGKGLDVPFSGPAKDAVRDVIDIDHDNTYTVKYIPVQQGPGVGNVYGGDPIPKSPFFVGVGSPFLDLSKIKVSGLGEKVDVGDQEFVTKSKGAGGQKVASKITGPGTAVPCKVEPGLGADNSVVRFPREEGPYEVEVTYDGV 1050  
gi|125347376|ref|NP\_034357.2| TAGKGLDVPFSGLAKDAVRDVIDIDHDNTYTVKYIPVQQGPGVGNVYGGDHIKSPFFVGVGSPFLDLSKIKVSGLGEKVDVGDQEFVTKSKGAGGQKVASKITGPGTAVPCKVEPGLGADNSVVRFPREEGPYEVEVTYDGV 1050  
gi|109511356|ref|XP\_238167.4| TAGKGLDVPFSGLAKDAVRDVIDIDHDNTYTVKYIPVQQGPGVGNVYGGDHIKSPFFVGVGSPFLDLSKIKVSGLGEKVDVGDQEFVTKSKGAGGQKVASKITGPGTAVPCKVEPGLGADNSVVRFPREEGPYEVEVTYDGV 1050  
gi|160420317|ref|NP\_001104026.1| AAGKGLDVPFSGLAKDAVRDVIDIDHDNTYTVKYIPVQQGPGVGNVYGGDPIPKSPFFVGVGSPFLDLSKIKVSGLGEKVDVGDQEFVTKSKGAGGQKVASKITGPGTAVPCKVEPGLGADNSVVRFPREEGPYEVEVTYDGV 1050  
.....910.....920.....930.....940.....950.....960.....970.....980.....990.....1000.....1010.....1020.....1030.....1040.....1050



gi|74008809|ref|XP\_867483.1| PVPSPFFVEALPPTKPSKVKAFPGPLQGGAGSAPARFIDITKAGMGGLLVEGPCBAOLECLDNGDGCVSYSYVPTFPGDYNINILFADTHIPGSPFKAHVVPFCFASKVKCSGPGGLERATAGEAGQPHVDCSSAGSAGLTIETIRSE 1200  
gi|194680254|ref|XP\_614269.4| PVPSPFFSLEAVPPTKPSKVKAFPGPLQGGAGSAPARFIDITKAGMGGLLVEGPCBAOLECLDNGDGCVSYSYVPTFPGDYNINILFADTHIPGSPFKAHVVPFCFASKVKCSGPGGLERATAGEAGQPHVDCSSAGSAGLTIETIRSE 1200  
gi|125347376|ref|NP\_034357.2| PVPSPFFLEAVAPPTKPSKVKAFPGPLQGGAGSAPARFIDITKAGMGGLLVEGPCBAOLECLDNGDGCVSYSYVPTFPGDYNINILFADTHIPGSPFKAHVVPFCFASKVKCSGPGGLERATAGEAGQPHVDCSSAGSAGLTIETIRSE 1200  
gi|109511356|ref|XP\_238167.4| PVPSPFFVEAVAPPTKPSKVKAFPGPLQGGAGSAPARFIDITKAGMGGLLVEGPCBAOLECLDNGDGCVSYSYVPTFPGDYNINILFADTHIPGSPFKAHVVPFCFASKVKCSGPGGLERATAGEAGQPHVDCSSAGSAGLTIETIRSE 1200  
gi|160420317|ref|NP\_001104026.1| PVPSPFFLEAVAPPTKPSKVKAFPGPLQGGAGSAPARFIDITKAGMGGLLVEGPCBAOLECLDNGDGCVSYSYVPTFPGDYNINILFADTHIPGSPFKAHVVPFCFASKVKCSGPGGLERATAGEAGQPHVDCSSAGSAGLTIETIRSE 1200  
.....1060.....1070.....1080.....1090.....1100.....1110.....1120.....1130.....1140.....1150.....1160.....1170.....1180.....1190.....1200



gi|74008809|ref|XP\_867483.1| AGLPAEVHIQDHGDGTHITIIYIPLCPGAYTVIKYGGQPVNPFPSKLOVEPAVDTSGVQCYGPIEGQGVFREATTFSVDARALTOTGGPHVKARVANPFGNLTETIYVQDCDGTQYKVEYTPYEEGLHSVDVTDGSPVSPFPQVPT 1350  
gi|194680254|ref|XP\_614269.4| AGLPAEVHIQDHGDGTHITIIYIPLCPGAYTVIKYGGQPVNPFPSKLOVEPAVDTSGVQCYGPIEGQGVFREATTFSVDARALTOTGGPHVKARVANPFGNLTETIYVQDCDGTQYKVEYTPYEEGLHSVDVTDGSPVSPFPQVPT 1350  
gi|125347376|ref|NP\_034357.2| AGLPAEVYIQDHGDGTHITIIYIPLCPGAYTVIKYGGQPVNPFPSKLOVEPAVDTSGVQCYGPIEGQGVFREATTFSVDARALTOTGGPHVKARVANPFGNLTETIYVQDCDGTQYKVEYTPYEEGLHSVDVTDGSPVSPFPQVPT 1350  
gi|109511356|ref|XP\_238167.4| AGLPAEVYIQDHGDGTHITIIYIPLCPGAYTVIKYGGQPVNPFPSKLOVEPAVDTSGVQCYGPIEGQGVFREATTFSVDARALTOTGGPHVKARVANPFGNLTETIYVQDCDGTQYKVEYTPYEEGLHSVDVTDGSPVSPFPQVPT 1350  
gi|160420317|ref|NP\_001104026.1| AGLPAEVYIQDHGDGTHITIIYIPLCPGAYTVIKYGGQPVNPFPSKLOVEPAVDTSGVQCYGPIEGQGVFREATTFSVDARALTOTGGPHVKARVANPFGNLTETIYVQDRDGMKVEYTPYEEGLHSVDVTDGSPVSPFPQVPT 1350  
.....1210.....1220.....1230.....1240.....1250.....1260.....1270.....1280.....1290.....1300.....1310.....1320.....1330.....1340.....1350



gi|74008809|ref|XP\_867483.1| EGCDDPSRVRVHGPGIQSGTINKPNKFTVETRGAGTGGGLLAVEGSPSEAKMSCMDNKDGCVSVEYIPYEAQYSLNVTYGGHQVPGSPFKVPVHDVTDASKVKCSGPGGLSPGMVRANLPQSFQVDTSKAGVAPLQVKVQGPGLVEPVDVV 1500  
gi|194680254|ref|XP\_614269.4| EGCDDPSRVRVHGPGIQSGTINKPNKFTVETRGAGTGGGLLAVEGSPSEAKMSCMDNKDGCVSVEYIPYEAQYSLNVTYGGHQVPGSPFKVPVHDVTDASKVKCSGPGGLSPGMVRANLPQSFQVDTSKAGMAPLQVKVQGPGLVEPVDVV 1500  
gi|125347376|ref|NP\_034357.2| EGCDDPSRVRVHGPGIQSGTINKPNKFTVETRGAGTGGGLLAVEGSPSEAKMSCMDNKDGCVSVEYIPYEAQYSLNVTYGGHQVPGSPFKVPVHDVTDASKVKCSGPGGLSPGMVRANLPQSFQVDTSKAGVAPLQVKVQGPGLVEPVDVV 1500  
gi|109511356|ref|XP\_238167.4| EGCDDPSRVRVHGPGIQSGTINKPNKFTVETRGAGTGGGLLAVEGSPSEAKMSCMDNKDGCVSVEYIPYEAQYSLNVTYGGHQVPGSPFKVPVHDVTDASKVKCSGPGGLSPGMVRANLPQSFQVDTSKAGVAPLQVKVQGPGLVEPVDVV 1500  
gi|160420317|ref|NP\_001104026.1| EGCDDPSRVRVHGPGIQSGTINKPNKFTVETRGAGTGGGLLAVEGSPSEAKMSCMDNKDGCVSVEYIPYEAQYSLNVTYGGHQVPGSPFKVPVHDVTDASKVKCSGPGGLSPGMVRANLPQSFQVDTSKAGVAPLQVKVQGPGLVEPVDVV 1500  
.....1360.....1370.....1380.....1390.....1400.....1410.....1420.....1430.....1440.....1450.....1460.....1470.....1480.....1490.....1500



gi|74008809|ref|XP\_867483.1| DNADGTQTVNYPVREGPYSISVLYGEEVPRSPFKVKVLPHTDASKVKASGPGGLNTTGVPSLVEFTIDAKDAGEGLLAVQITDPEGPKKTHIQDNHDTYTVAYVPDVTGRYITILIKYGGDEIPFSPYRVRVPTGDASKCTVTV 1650  
gi|194680254|ref|XP\_614269.4| DNADGTQTVNYPVREGPYSISVLYGEEVPRSPFKVKVLPHTDASKVKASGPGGLNTTGVPSLVEFTIDAKDAGEGLLAVQITDPEGPKKTHIQDNHDTYTVAYVPDVTGRYITILIKYGGDEIPFSPYRVRVPTGDASKCTVTV 1650  
gi|125347376|ref|NP\_034357.2| DNADGTQTVNYPVREGPYSISVLYGEEVPRSPFKVKVLPHTDASKVKASGPGGLNTTGVPSLVEFTIDAKDAGEGLLAVQITDPEGPKKTHIQDNHDTYTVAYVPDVTGRYITILIKYGGDEIPFSPYRVRVPTGDASKCTVTV 1650  
gi|109511356|ref|XP\_238167.4| DNADGTQTVNYPVREGPYSISVLYGEEVPRSPFKVKVLPHTDASKVKASGPGGLNTTGVPSLVEFTIDAKDAGEGLLAVQITDPEGPKKTHIQDNHDTYTVAYVPDVTGRYITILIKYGGDEIPFSPYRVRVPTGDASKCTVTV 1650  
gi|160420317|ref|NP\_001104026.1| DNADGTQTVNYPVREGPYSISVLYGEEVPRSPFKVKVLPHTDASKVKASGPGGLNTTGVPSLVEFTIDAKDAGEGLLAVQITDPEGPKKTHIQDNHDTYTVAYVPDVTGRYITILIKYGGDEIPFSPYRVRVPTGDASKCTVTV 1650  
.....1510.....1520.....1530.....1540.....1550.....1560.....1570.....1580.....1590.....1600.....1610.....1620.....1630.....1640.....1650



gi|74008809|ref|XP\_867483.1| IGGHGLGAGIGPTIQIGEEVIVVDKAAAGKGVCTVCTPDGSEVDVVDVVENEDGTFDIFYTAPQPKYVICVRFGEHVPNSPFQVIALAGDQPAAPPLRPOQLAPPYTYAGGQQTWAPERPLMGVNGLDVTSLRPFDLVIPTTIK 1800  
gi|194680254|ref|XP\_614269.4| -----GAGIGPTIQIGEEVIVVDKAAAGKGVCTVCTPDGSEVDVVDVVENEDGTFDIFYTAPQPKYVICVRFGEHVPNSPFQVIALAGDQPAAPPLRPOQLAPPYTYAGGQQTWAPERPLMGVNGLDVTSLRPFDLVIPTTIK 1800  
gi|125347376|ref|NP\_034357.2| -----GAGIGPTIQIGEEVIVVDKAAAGKGVCTVCTPDGSEVDVVDVVENEDGTFDIFYTAPQPKYVICVRFGEHVPNSPFQVIALAGDQPTVQTPLRPSQALAPYTYAGGQQTWAPERPLMGVNGLDVTSLRPFDLVIPTTIK 1800  
gi|109511356|ref|XP\_238167.4| IGGHGLGAGIGPTIQIGEEVIVVDKAAAGKGVCTVCTPDGSEVDVVDVVENEDGTFDIFYTAPQPKYVICVRFGEHVPNSPFQVIALAGDQPTVQTPLRPSQALAPYTYAGGQQTWAPERPLMGVNGLDVTSLRPFDLVIPTTIK 1800  
gi|160420317|ref|NP\_001104026.1| IGGHGLGAGIGPTIQIGEEVIVVDKAAAGKGVCTVCTPDGSEVDVVDVVENEDGTFDIFYTAPQPKYVICVRFGEHVPNSPFQVIALAGDQPSVQPLRPSQALAPYTYAGGQQTWAPERPLMGVNGLDVTSLRPFDLVIPTTIK 1800  
.....1660.....1670.....1680.....1690.....1700.....1710.....1720.....1730.....1740.....1750.....1760.....1770.....1780.....1790.....1800



gi | 74008809 | ref | XP\_867483.1 | KGEITGEVRMPGKVAQPAITDNDKDTVTRVYAPSEAGLHMDIRYDNMHIIPGSPLOFVVDVYVNCGHVITAYGPGLTGTVVNVKPAVFTVNTKDAGEGGLSLAIEGPKAEISCTDNODGTCVSYLFPVLPDYSILVKYNEQHIPGSPFFTA 1950  
gi | 194680254 | ref | XP\_614269.4 | KGEVITGEVRMPGKVAQPAITDNDKDTVTRVYAPSEAGLHMDIRYDNMHIIPGSPLOFVVDVYVNCGHVITAYGPGLTGTVVNVKPAVFTVNTKDAGEGGLSLAIEGPKAEISCTDNODGTCVSYLFPVLPDYSILVKYNEQHIPGSPFFTA 1950  
gi | 125347376 | ref | NP\_034357.2 | KGEITGEVRMPGKVAQPSITDNDKDTVTRVYAPSEAGLHMDIRYDNMHIIPGSPLOFVVDVYVNCGHITAYGPGLTGTVVNVKPAVFTVNTKDAGEGGLSLAIEGPKAEISCTDNODGTCVSYLFPVLPDYSILVKYNDQHIPGSPFFTA 1950  
gi | 109511356 | ref | XP\_238167.4 | KGEITGEVRMPGKVAQPSITDNDKDTVTRVYAPSEAGLHMDIRYDNMHIIPGSPLOFVVDVYVNCGHITAYGPGLTGTVVNVKPAVFTVNTKDAGEGGLSLAIEGPKAEISCTDNODGTCVSYLFPVLPDYSILVKYNDQHIPGSPFFTA 1950  
gi | 160420317 | ref | NP\_001104026.1 | KGEITGEVRMPGKVAQPTITDNDKDTVTRVYAPSEAGLHMDIRYDNMHIIPGSPLOFVVDVYVNCGHVITAYGPGLTGTVVNVKPAVFTVNTKDAGEGGLSLAIEGPKAEISCTDNODGTCVSYLFPVLPDYSILVKYNEQHVPGSPFFTA 1950  
.....1810.....1820.....1830.....1840.....1850.....1860.....1870.....1880.....1890.....1900.....1910.....1920.....1930.....1940.....1950



gi | 74008809 | ref | XP\_867483.1 | RVTGDDSMRMSHLKVGSAADIPINISSETDLSLLTATVVPVPSGREEPCLLKRRLRNGHVGISFVPKETGEHLVHVKKNGQHVASSPIPVVISQSEIGDASRVRVSGGLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPKVDINTEDLEDG 2100  
gi | 194680254 | ref | XP\_614269.4 | RVTGDDSMRMSHLKVGSAADIPINISSETDLSLLTATVVPVPSGREEPCLLKRRLRNGHVG-----KRLGGRALHVKKNGQHVASSPIPVVISQSEIGDASRVRVSGGLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPKVDINTEDLEDG 2100  
gi | 125347376 | ref | NP\_034357.2 | RVTGDDSMRMSHLKVGSAADIPINISSETDLSLLTATVVPVPSGREEPCLLKRRLRNGHVGISFVPKETGEHLVHVKKNGQHVASSPIPVVISQSEIGDASRVRVSGGLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPKVDINTEDLEDG 2100  
gi | 109511356 | ref | XP\_238167.4 | RVTGDDSMRMSHLKVGSAADIPINISSETDLSLLTATVVPVPSGREEPCLLKRRLRNGHVGISFVPKETGEHLVHVKKNGQHVASSPIPVVISQSEIGDASRVRVSGGLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPKVDINTEDLEDG 2100  
gi | 160420317 | ref | NP\_001104026.1 | RVTGDDSMRMSHLKVGSAADIPINISSETDLSLLTATVVPVPSGREEPCLLKRRLRNGHVGISFVPKETGEHLVHVKKNGQHVASSPIPVVISQSEIGDASRVRVSGGLHEGHTFEPAEFIIDTRDAGYGGLSLSIEGPKVDINTEDLEDG 2100  
.....1960.....1970.....1980.....1990.....2000.....2010.....2020.....2030.....2040.....2050.....2060.....2070.....2080.....2090.....2100



gi | 74008809 | ref | XP\_867483.1 | TCRVTYCPTEPGNYIINIKFADQHVPGSPFVVKVTEGGRVKESITRRRRAPSVANVGSCHDLSLKIPEISIQDMTAVTSPGKTHEAEIVEGENHTYCIKRVFPAEMGMHTVSVKYGQHVPGSPFOFTVGPLGEGGAHKVRAGGPGLER 2250  
gi | 194680254 | ref | XP\_614269.4 | TCRVTYCPTEPGNYIINIKFADQHVPGSPFVVKVTEGGRVKESITRRRRAPSVANVGSCHDLSLKIPEISIQDMTAVTSPGKTHEAEIVEGENHTYCIKRVFPAEMGMHTVSVKYGQHVPGSPFOFTVGPLGEGGAHKVRAGGPGLER 2250  
gi | 125347376 | ref | NP\_034357.2 | TCRVTYCPTEPGNYIINIKFADQHVPGSPFVVKVTEGGRVKESITRRRRAPSVANVGSCHDLSLKIPEISIQDMTAVTSPGKTHEAEIVEGENHTYCIKRVFPAEMGMHTVSVKYGQHVPGSPFOFTVGPLGEGGAHKVRAGGPGLER 2250  
gi | 109511356 | ref | XP\_238167.4 | TCRVTYCPTEPGNYIINIKFADQHVPGSPFVVKVTEGGRVKESITRRRRAPSVANVGSCHDLSLKIPEISIQDMTAVTSPGKTHEAEIVEGENHTYCIKRVFPAEMGMHTVSVKYGQHVPGSPFOFTVGPLGEGGAHKVRAGGPGLER 2250  
gi | 160420317 | ref | NP\_001104026.1 | TCRVTYCPTEPGNYIINIKFADQHVPGSPFVVKVTEGGRVKESITRRRRAPSVANVGSCHDLSLKIPEISIQDMTAVTSPGKTHEAEIVEGENHTYCIKRVFPAEMGMHTVSVKYGQHVPGSPFOFTVGPLGEGGAHKVRAGGPGLER 2250  
.....2110.....2120.....2130.....2140.....2150.....2160.....2170.....2180.....2190.....2200.....2210.....2220.....2230.....2240.....2250



gi | 74008809 | ref | XP\_867483.1 | AEAGVPAEFSIWTREAGAGGLAIAVGEPSKAEISFEDRKDSCGVAVVVEPGDYEVSVKFNEEHIIPDPPFVVPVAVSPGDARRLVSSLOESGLKVNQPAFAVSLNAGKGAIDAKVHSPGALBECYVTEIDQKYAVRFTIPRENGVY 2400  
gi | 194680254 | ref | XP\_614269.4 | AEAGVPAEFSIWTREAGAGGLAIAVGEPSKAEISFEDRKDSCGVAVVVEPGDYEVSVKFNEEHIIPDPPFVVPVAVSPGDARRLVSSLOESGLKVNQPAFAVSLNAGKGAIDAKVHSPGALBECYVTEIDQKYAVRFTIPRENGVY 2400  
gi | 125347376 | ref | NP\_034357.2 | AEAGVPAEFSIWTREAGAGGLAIAVGEPSKAEISFEDRKDSCGVAVVVEPGDYEVSVKFNEEHIIPDPPFVVPVAVSPGDARRLVSSLOESGLKVNQPAFAVSLNAGKGAIDAKVHSPGALBECYVTEIDQKYAVRFTIPRENGVY 2400  
gi | 109511356 | ref | XP\_238167.4 | AEAGVPAEFSIWTREAGAGGLAIAVGEPSKAEISFEDRKDSCGVAVVVEPGDYEVSVKFNEEHIIPDPPFVVPVAVSPGDARRLVSSLOESGLKVNQPAFAVSLNAGKGAIDAKVHSPGALBECYVTEIDQKYAVRFTIPRENGVY 2400  
gi | 160420317 | ref | NP\_001104026.1 | AEAGVPAEFSIWTREAGAGGLAIAVGEPSKAEISFEDRKDSCGVAVVVEPGDYEVSVKFNEEHIIPDPPFVVPVAVSPGDARRLVSSLOESGLKVNQPAFAVSLNAGKGAIDAKVHSPGALBECYVTEIDQKYAVRFTIPRENGVY 2400  
.....2260.....2270.....2280.....2290.....2300.....2310.....2320.....2330.....2340.....2350.....2360.....2370.....2380.....2390.....2400



gi | 74008809 | ref | XP\_867483.1 | LIDVKFNGTHIPGSPFKIRVGEPEGHGGDPLVSAYGAGLEGGVITGPAEFIVNTSNAGAGALSVIIDGPKVKMDCQECPEGYRVITYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLVSNHSLHETSSVFVDSLTKVAPQHG 2550  
gi | 194680254 | ref | XP\_614269.4 | LIDVKFNGTHIPGSPFKIRVGEPEGHGGDPLVSAYGAGLEGGVITGPAEFIVNTSNAGAGALSVIIDGPKVKMDCQECPEGYRVITYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLVSNHSLHETSSVFVDSLTKVAPQHG 2550  
gi | 125347376 | ref | NP\_034357.2 | LIDVKFNGTHIPGSPFKIRVGEPEGHGGDPLVSAYGAGLEGGVITGPAEFIVNTSNAGAGALSVIIDGPKVKMDCQECPEGYRVITYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLVSNHSLHETSSVFVDSLTKVAPQHG 2550  
gi | 109511356 | ref | XP\_238167.4 | LIDVKFNGTHIPGSPFKIRVGEPEGHGGDPLVSAYGAGLEGGVITGPAEFIVNTSNAGAGALSVIIDGPKVKMDCQECPEGYRVITYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLVSNHSLHETSSVFVDSLTKVAPQHG 2550  
gi | 160420317 | ref | NP\_001104026.1 | LIDVKFNGTHIPGSPFKIRVGEPEGHGGDPLVSAYGAGLEGGVITGPAEFIVNTSNAGAGALSVIIDGPKVKMDCQECPEGYRVITYTPMAPGSYLISIKYGGPYHIGGSPFKAKVTGPRLVSNHSLHETSSVFVDSLTKVAPQHG 2550  
.....2410.....2420.....2430.....2440.....2450.....2460.....2470.....2480.....2490.....2500.....2510.....2520.....2530.....2540.....2550



gi | 74008809 | ref | XP\_867483.1 | LAGSTDAKVLAKGLGLSKAYVQKSSFVDCSKAGNMLLVGVHGPRTPCBEILVKHVGSRLYSVSLLKDKGEYTLVVKWGDDEHIPGSPYRVLPV 2647  
gi | 194680254 | ref | XP\_614269.4 | LPG-TPAISWLTAL-----PSSFVDCSKAGNMLLVGVHGPRTPCBEILVKHVGSRLYSVSLLKDKGEYTLVVKWGDDEHIPGSPYRVLPV 2647  
gi | 125347376 | ref | NP\_034357.2 | GPGPADVSKVVAKGLGLSKAYVQKSNFVDCSKAGNMLLVGVHGPRTPCBEILVKHMGSRLYSVSLLKDKGEYTLVVKWGDDEHIPGSPYRIMVP 2647  
gi | 109511356 | ref | XP\_238167.4 | GPGPADVSKVVAKGLGLSKAYVQKSNFVDCSKAGNMLLVGVHGPRTPCBEILVKHMGSRLYSVSLLKDKGEYTLVVKWGDDEHIPGSPYRIMVP 2647  
gi | 160420317 | ref | NP\_001104026.1 | GPGPADASKVVAKGLGLSKAYVQKSSFVDCSKAGNMLLVGVHGPRTPCBEILVKHVGSRLYSVSLLKDKGEYTLVVKWGDDEHIPGSPYRVLPV 2647  
.....2560.....2570.....2580.....2590.....2600.....2610.....2620.....2630.....2640.....2650

