

gi | 149263557 | ref | XP_001477782.1 | MVGRGASLCAVQPAVAECCGPPARETFP-LEVS PRKRLPAGLDQDPCSSRPAPGAGASAEQSHSAGGGGWCRHCHTKLVELKRWAKLVGPGPTLRDPCSLTLLLDKLPASGVQACRPPDTESRCDVCTHLLHQLTREALRLLTPTASHE 150
gi | 109478769 | ref | XP_234565.4 | MVGRGASLCAVQPAVAECCRSARESP-LEVS PRKRLPAGLDQDLCSSRPAPGAGASAEQSHSTGGGGWCRHCHTKLVELKRWAKLVGPGPTLRDPCSLTLLLDKLPASGVQACRPPDTESRCDVCTHLLHQLTREALRLLTPTASHE 150
gi | 150170699 | ref | NP_056471.1 | MVGRGVPLCAAQPAVAECCGPPARETFP-LEVS PRKRLPAGLDQDPCSSRPAPGAGASAEQSHSAGGGGWCRHCHTKLVELKRWAKLVGPGPTLRDPCSLTLLLDKLPAPGALPACRPPAEERRCDVCTHLLHQLTREALRLLTPTASHE 150
gi | 118092229 | ref | XP_421394.2 | -----MHTLNQASYSSEMP-----DLPPGATAVTSMVPRVVT-----VSHQRDLPLITQQVGRQPGKRS- 150
gi | 189531274 | ref | XP_690215.3 | MFQSPKELMVAVDVAVNIG-----LPPGIDPGFASPIIEQLQIPDWLLKGGHEG--TRCPACGSSAQQLKQALQTLQ-----DLYP-CPDMPPLPSSLPF-----GHPARLMTHTGVTVVSSRPKRS 150
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi | 149263557 | ref | XP_001477782.1 | DPNASRGG--LAAP---SRRDPPFGVGLMGRQP-FVGPDRRKAIAWPPGSPVQVSVAPAGLGGALSTVTIQAQCCLLEGVWLSRVNSFLPPTCLAEAAVAAVAVADTVRDCAPAGPERMSKAWGRGAACITLALVTPAPGTSAGGSTGP 300
gi | 109478769 | ref | XP_234565.4 | DPNASRGG--LGAP---SPRDPPFGVGLMGRQP-FVGPDRRKAIAWPPGSPVQVSVAPAGLGGALSTVTIQAQCCLLEGVWLSRVNSFLPPTCLAEAAVAAVAVADTVRDCPPTAGSDRMSKAWGRGTACTLALVTPAPGTSAGGSTAP 300
gi | 150170699 | ref | NP_056471.1 | DLDAPHGGPSLAPPSTITSSRDTPGPAGPAGRQPGGRAGPDRTKGLAWSPGSPVQVSVAPAGLGGALSTVTIQAQCCLLEGVWLSRVNSFLPPTCLAEAAVAAVAVADTVRDCPPVAGPDGLSKAWGRGGVCTSLALVTPGQVGGSTGP 300
gi | 118092229 | ref | XP_421394.2 | -----PNLFSCTERKKKGLGWSQGTG--SFENSSVQVIVAPSGLSGALSSTVTIQAQCCLLEGVWLSRVNSFLPPTCLAEAAVAAVAVADTVRDCPPVAGPDGLSKAWGRGGVCTSLALVTPGQVGGSTGP 300
gi | 189531274 | ref | XP_690215.3 | IHPH-----AHSVLPVGERQRELGWSQSSSSVSLKPSVQVIMAGRPLAGTISSTVTIQAQCCLLEGVWLSRVNSFLPPTCLAEAAVAAVAVADTVRDCPPVAGPDGLSKAWGRGGVCTSLALVTPGQVGGSTGP 300
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi | 149263557 | ref | XP_001477782.1 | SAAASFFIRAAQKLSLAKRKKHPPPPAPSRGTSTYPTDFSGSLQWPPVPPCLLRAASKAKENPSFGKVKVMLRRIWPAQGVORSAEBSFLKLVSRKKQVILYDPAAGPPGCAGLRHAPITAPVPKMFADFAPDASQAEVCSGT 450
gi | 109478769 | ref | XP_234565.4 | SAAASFFIRAAQKLSLAKRKKHPPPPAPSRGSSYATDFSGSLQWPPVPPCLLRAASKAKENPSNFGKVKVMLRRIWPAQGVORSAEBSFLKLVSRKKQVILYDPAAGPPGCAGLRHAPITAPVPKMFADFAPDASQAEVCSGT 450
gi | 150170699 | ref | NP_056471.1 | SAAASFFIRAMOKLSLAKRKKHPPPPAPTRGTSTYPTDFSGVLOLWPPVPPCLLRAASKAKENPSFGKVKVMLRRIWPAQGVORSAEBSFLKLVSRKKQVILYDPAAGPPGCAGLRHAPITAPVPKMFADFAPDASQAEVCSGT 450
gi | 118092229 | ref | XP_421394.2 | SAAASFFIRAAQKLNLSKRRKHPP-LEPHDFSIYATNFSGLQCPAPPCLLRAASKAKENPSFGKVKVMLRRIWPAQGVORSAEBSFLKLVSRKKQVILYDPAAGPPGCAGLRHAPITAPVPKMFADFAPDASQAEVCSGT 450
gi | 189531274 | ref | XP_690215.3 | SAAASFFIRAAQKLNLSKRRKQPP-LVYPPEPIYPTNFSVAVLQFSPPPAPPCLLRAASKAKENPSFGKVKVMLRRIWPAQGVORSAEBSFLKLVSRKKQVILYDPAAGPPGCAGLRHAPITAPVPKMFADFAPDASQAEVCSGT 450
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi | 149263557 | ref | XP_001477782.1 | VADVLSVVSADGCIFFGHMSLKGSIYMIKGDSSPQSLGIVPCAISWLFRLIDERKERLGTFRFSIRVSAVEVCGHDQSLRDLLEAVASGSLQDTQSPGVYLREDPVCQTQLQNLNLRAPITAEKAAFFLDAALAAARSTRACCGEDAR 600
gi | 109478769 | ref | XP_234565.4 | VADVLSVVGADGCIFFGHMSLKGSIYMIKGDSSPQSLGIVPCAISWLFRLIDERKERLGTFRFSIRVSAVEVCGHDQSLRDLLEAVASGSLQDTQSPGVYLREDPVCQTQLNLRAPITAEKAAFFLDAALAAARSTRACCGEDAR 600
gi | 150170699 | ref | NP_056471.1 | VADVLSVVSADGCIFFGHMSLKGSIYMIKGDSSPQSLGIVPCAISWLFRLIDERKERLGTFRFSIRVSAVEVCGHDQSLRDLLEAVASGSLQDTQSPGVYLREDPVCQAOLNQLNLRAPITAEKAAFFLDAALAAARSTRACCGEDAR 600
gi | 118092229 | ref | XP_421394.2 | VAEVLSVVGADGCIFFGHVSLKGSYMIKGDSSPQSLGIIPCAISWLFKLIINERKEKGTFRFSIRVSAVEVCGHDQSLRDLLEAVASGSLQDTQSPGVYLREDPVCQTQLNQLNLRAPITAEKAAFFLDAALAAARSTRACCGEDAR 600
gi | 189531274 | ref | XP_690215.3 | VAEVLSVVGADGCIFFGHVVKGSIYMIKGDSSPQSLGIIPCAISWLFKLIINERKEKGTFRFSIRVSAVEVCGHDQSLRDLLEAVASGSLQDTQSPGVYLREDPVCQTQLNQLNLRAPITAEKAAFFLDAALAAARSTRACCGEDAR 600
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi | 149263557 | ref | XP_001477782.1 | RSSHMLFTHLVYQYRVEKCGGGMSGGRSRLHLIDLGSCEAAVSRGGEAGGGLCLSLALGNSVILALVNGAKHVYRDRHLLMLLRESLATTNCRITMIAHISDSPAHHAEITLSTVLAARIHRLRKKKAKYASSSSGGESSCEEGRAR 750
gi | 109478769 | ref | XP_234565.4 | RTSHMLFTHLVYQYRVEKCGGGMSGGRSRLHLIDLGSCEAAPSRRGGEAGGGLCLSLALGNSVILALVNGAKHVYRDRHLLMLLRESLATTNCRITMIAHISDSPAHHAEITLSTVLAARIHRLRKKKAKYASSSSGGESSCEEGRAR 750
gi | 150170699 | ref | NP_056471.1 | RSSHMLFTHLVYQYRMEKCGGGMSGGRSRLHLIDLGSCEAAAAGRAGEAAGPLCLSLALGNSVILALVNGAKHVYRDRHLLMLLRESLATTNCRITMIAHISDSPAHHAEITLSTVLAARIHRLRKKKAKYASSSSGGESSCEEGRAR 750
gi | 118092229 | ref | XP_421394.2 | RNSHMLFTHLVYQYRMEKSGGGMSGGRSRLHLIDLGSCEKVLKSRDCEGGLCLSLALGNSVILALVNGAKHVYRDRHLLMLLRESLATTNCRITMIAHISDSPANVAEITLSTVLAARIHRLRKKKAKYASSSSGGESSCEEGRAR 750
gi | 189531274 | ref | XP_690215.3 | RNSHMLFTHLVYQYRMEKSGGGMSGGRSRLHLIDLGSCEKVLKSRDCEGGLCLSLALGNSVILALVNGAKHVYRDRHLLMLLRESLATTNCRITMIAHISDSPANVAEITLSTVLAARIHRLRKKKAKYASSSSGGESSCEEGRAR 750
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi | 149263557 | ref | XP_001477782.1 | RPPHLRPFPHRAVLDLDRSAPALSDDPDYSSSSSEOSCDTVIYVGPAGGALSRELDNEGPPDFVPIIPALSRRRPSSEGR-----DADHFRCTFAELQERLECIDGSEAF-----GPQGGSD----- 900
gi | 109478769 | ref | XP_234565.4 | RPPHLRPFPHRTVLDLDRSAPALSDDPDYSSSSSEOSCDTVIYVGPAGGALSRELDNEGPPDFVPIIPALSRRRPSSEGR-----DADHFRCTFAELQERLECIDGSEAF-----GPQGGSD----- 900
gi | 150170699 | ref | NP_056471.1 | RPPHLRPFPHRTVALDPRITPCLPDDYSSSSSEOSCDTVIYVGPAGGALSRELDNEGPPDFVPIIPALSRRRPSSEGR-----DADHFRCTFAELQERLECIDGSEAF-----GPQGGSD----- 900
gi | 118092229 | ref | XP_421394.2 | RPPHLRPFPHRTVALDPRITPCLPDDYSSSSSEOSCDTVIYVGPAGGALSRELDNEGPPDFVPIIPALSRRRPSSEGR-----DADHFRCTFAELQERLECIDGSEAF-----GPQGGSD----- 900
gi | 189531274 | ref | XP_690215.3 | RPPHLRPFPHRTVALDPRITPCLPDDYSSSSSEOSCDTVIYVGPAGGALSRELDNEGPPDFVPIIPALSRRRPSSEGR-----DADHFRCTFAELQERLECIDGSEAF-----GPQGGSD----- 900
.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900



gi | 149263557 | ref | XP_001477782.1 | ----CAQASPARGGRRKPSLPEEATPRKKAVALPTVVVISCPRRGSPG----HDTHRSASDPKSTGIGQ----SEQRVDG-ERPEPPADKTSGGGRRRLLPSPAPPPRPEAQGIPKEPGEGETD-SVLRTPPVGMSGQALPPLL- 1050
gi | 109478769 | ref | XP_234565.4 | ----CAQASPARGGRRKPSLPEEATCLRKAVAPSVVTGCPRSSSG----QETPRSTSEPSKIGPQ----GDQRVDG-TRPEPPADKITGGGRRLLPSPAPPPRPEARGVPTPEGGEGAD-SGRTIPPVGMSGQALPPLL- 1050
gi | 150170699 | ref | NP_056471.1 | ----CAQASPARGGRRKPSLPEEATPRKKAVALPTVVVISCPRRGSPG----PDTHQCTPEPCKAIW----GDQREDSSAWPELLVPEKAAVSGGRRRLLPSPAPPPRLLACRAPPPEGGGGTD-GVARTIPPVGMSGQVAGSMLLP- 1050
gi | 118092229 | ref | XP_421394.2 | SKLKEKLSLSPGGFKPVSQETASPKKHNTIPQAVAPRGGN----GNCHKESTPHLKTLS----VPOSKNKK--ATAECVIEKESFYVVKRPLSPAPPPRQKQVPSKAQSLBLDNNAVRTIPPVGMSQAMANKPEQN- 1050
gi | 189531274 | ref | XP_690215.3 | KVLSTQDSISKKISIVSKLPSKPKHKLKLEHKLKQSAASDKDLRDMCENVCRISADGKGVQMSSEGLCTGKSKKIIISQNEPVPVREKVFVFNK-LPKAPPPPQQRDQVTVG---SETTEKSAIRVPIGMSHQRKSDSIGN- 1050
.....910.....920.....930.....940.....950.....960.....970.....980.....990.....1000.....1010.....1020.....1030.....1040.....1050



gi | 149263557 | ref | XP_001477782.1 | -----DSANLSPSARGRHLEGRLLTTITVTLQCPVELNGEDELVFLVVEELPLGGLAGATRPSSLASMSDCLQALASGSRPVSIISSINDEFDAYTSMSE---GPGDPGEPFEGAWAGGSPASSIGSWLSDVGVCLSESRGP 1200
gi | 109478769 | ref | XP_234565.4 | -----DSAN--PSARGRHLDGRLLTTITVTLQCPVELNGEDELVFLVEEELPLGGLAGATRPSSLASMSDCLQALASGSRPVSIISSINDEFDAYTSMSE---GPGDAGELPEGVWVPGGSPASSIGSWLSDVGVCLSESRGP 1200
gi | 150170699 | ref | NP_056471.1 | -----GATCPRLAAGSRCPERGLLTTITVTLQCPVELNGEDELVFLVVEELSLGALAGATRPSSLASMSDCLQALASGSRPVSIISSINDEFDAYTSMSE---GGP---LEGAAWAGGSHGSSISWLESEVCTADSRP 1200
gi | 118092229 | ref | XP_421394.2 | -----SVHSFRSAFRGKCFDRDILTTITVTLQCPVELNGEDELVFLVVEELLSIGIMDNGRPSIIIFNDCSLQALASGSRPVSIISSINDEFDAYTSMSEISGVNIDIVVFAKDFPFS--FRRSISISWLESEVICHIESDGA 1200
gi | 189531274 | ref | XP_690215.3 | AVKVVHLLNPRTPGEMRNLRECRMEKIDILRTITVTLQCPVELNGEDELVFLVEEELLSIGIVDGRPSIIIFNDCSLQALASGSRPVSIISSINDEFDAYTSMSEISGVNIDIVVFAKDFPFS--FRRSISISWLESEVICHIESDGA 1200
.....1060.....1070.....1080.....1090.....1100.....1110.....1120.....1130.....1140.....1150.....1160.....1170.....1180.....1190.....1200



gi | 149263557 | ref | XP_001477782.1 | TPPOPPFSF-----NAAAGGPPPEFPTPGSSLEESKVRSECGRPF--DNPGS-ARSLHPGEAVATQTOPGREPWARS-----PHEVASAQTIIHSSLPRKPRITSTASR--ARPSRGPVSP-----GGLFEDPWLLR 1350
gi | 109478769 | ref | XP_234565.4 | TPPOPPFNP-----DSAAAGGPPPEFLTGGSSLEESKVRSECGRPF--DNPSSARSPPHGEAVSITQTOPGREPWARS-----PHEAASAOITIIHSSLPRKPRITSTASR--ARPSRGPVSP-----GGLFEDPWLLR 1350
gi | 150170699 | ref | NP_056471.1 | TPPOPRFSP-----DSLGLDPPGGPALDGLDGSSEGLGDPDRP--DSPGP-TWGCPEGEAAVAPSRPGRPQAGP-----SRWASAAOITIIHSSLPRKPRITSTASR--ARPSRGPVSP-----GGLFEDPWLLR 1350
gi | 118092229 | ref | XP_421394.2 | QSSDSFVACTSYSCYCKE---EDPFNLDSPNLSPVLLKSLALNDSGCFSELDSESMSSKLSGFGKSPQTSETTKASQIKSAFCVSDQPKIKCNARDTPVITETIIHSSLPRKPRITSTASR--ARPSRGPVSP-----GGLFEDPWLLR 1350
gi | 189531274 | ref | XP_690215.3 | QSADVFLPQGTNTGPDSTNFMFDSLNMFSSTQKPEKPNLNDSGCFSELDSESMSSKLSGFGKSPQTSETTKASQIKSAFCVSDQPKIKCNARDTPVITETIIHSSLPRKPRITSTASR--ARPSRGPVSP-----GGLFEDPWLLR 1350
.....1210.....1220.....1230.....1240.....1250.....1260.....1270.....1280.....1290.....1300.....1310.....1320.....1330.....1340.....1350



gi | 149263557 | ref | XP_001477782.1 | AEDCDTRQIASTGRAP-SPTPGSPRLP-----ETQMLLACAQRVVDGCEVASRMS---RRPEAVARIPPLRRGATTLGVITPAASCQ--DAPAEAVVHSGSLKITSKSKSVSPKGA-FFPRPSGAGPPAPPVVKSSLEQ 1500
gi | 109478769 | ref | XP_234565.4 | AEDCDTRHIASTGRAP-SPTPGSPRLP-----ETQIVLACAQRVVDGCEVASRMS---RRPEAVARIPPLRRGATTLGVITPAASCQ--DAPAEATAHSGSLKATSSSKSVSPKGA-FFPRPSGAGPPAPPVVKSSLEQ 1500
gi | 150170699 | ref | NP_056471.1 | VGECDT-QAASAGRAP-SPILGSPRLP-----EAQVMLLACAQRVVDGCEVAARAA---RRPEAVARIPPLRRGATTLGVITPAASCQ--DAPTEVACSGSLKASPTSKKGLAPKAG-FLPRPSGAGPPAPPVVKSSLEQ 1500
gi | 118092229 | ref | XP_421394.2 | EDNQLEKPIIDALLSPKSHAFGIDKQPGKAAQYFQIISGPMKSDTMLLACSQRVVDGCEMAACKSSGAAKKSEAVMKMPQLKRGATTLGVMPAIT--RGNSDTPMAGSLK--SLGKSKMPKSS-MLPRPFGPMPTFPVVKSSLEQ 1500
gi | 189531274 | ref | XP_690215.3 | ESLMDTPIISNSGSSSLVKNMGMSGTPARKAGTSSNSIPRIPKTLGPNSSQRVVDGCEKSCNS---RKTEPPSKMPQLRRGATTLGVITPAASCQ--DAPTEVACSGSLKASPTSKKGLAPKAG-FLPRPSGAGPPAPPVVKSSLEQ 1500
.....1360.....1370.....1380.....1390.....1400.....1410.....1420.....1430.....1440.....1450.....1460.....1470.....1480.....1490.....1500



gi | 149263557 | ref | XP_001477782.1 | -----STALTPQALGLTRAG-----APSAFRGEEEARPSGRSDSVPKATSSLKARAGKMDVPIRPSGHSLERCGLAHGSSK---VRDVVGRPP---RAVPRLGVPVSPAPP--LGPAPACRNSPAKG-----VG 1650
gi | 109478769 | ref | XP_234565.4 | -----STALTPQALGLTRTC-----ATSAFRGEEEARPTGRSDSSVPKATSSLKARAGKMDVPIRPSGHSLERCGLAHGSSK---VRDVAGRPP---RAVPRLGVPVSPAPP--LGPAPACRNSPAKG-----VG 1650
gi | 150170699 | ref | NP_056471.1 | RS-----SPASAPPHAVNPARV-----AAAVLRGEEEARPSRADHSVPRAATSSLKARASKVEAAHRLAGHASLERYEGLAHGSSK---GREAPGRPP---RAVPRKLGVPVSPAPP--LGPAPACRNSGAAGA-----VG 1650
gi | 118092229 | ref | XP_421394.2 | KPVALNGGGKASSLEFARASTPKADELDDLRLKAGSYFSESASRRMNLKGDHSLPKMTSSLKARASKVEAVHRYGHSLERCDSLSLTVGSKANLVREN-GSTGNVVRAGRSVPRLGVPVSPAPP--LGPAPACRNSGAAGA-----VG 1650
gi | 189531274 | ref | XP_690215.3 | KNRILFPSSALKSAVDACKSLAPRAAG-LELDIEVSRGSDNSLRASNKLEHSLMKTSSLKARGARDLQGLHGSQISLERCDSLSLGLSKPALSRNSGASLNSKSKSRSRFGSPVANSSTPTTSSPFCVNVQVSLKSGMVGKSLN 1650
.....1510.....1520.....1530.....1540.....1550.....1560.....1570.....1580.....1590.....1600.....1610.....1620.....1630.....1640.....1650



gi | 149263557 | ref | XP_001477782.1 | ATKPPAGGAKGRNLPSTSRALGAPVKP-LGPVAGKTAGGAVPGR-----AAPRAVPGIG--AKAGRGIMGTKQAFRAAHSRVHELAAAGSPSRGGLLWGSTDSDSGNDGVLNLAERQPSFPALFSPYSKVTAPRRPORYSSGHGS 1800
gi | 109478769 | ref | XP_234565.4 | ATKPPAGGAKSRNLPSTSRALGAPVKP-LAPVVGKTGGAVPGR-----AAPRAVPGIG--AKAGRGIMGTKQAFRAAHSRVHELAAAGSPSRGGLLWGSTDSDSGNDGVLNLAERQPSFPALFSPYSKVTAPRRPORYSSGHGS 1800
gi | 150170699 | ref | NP_056471.1 | APKFPVGGKGRGLVAGGSRALGAPVKP-LGASVTRGSRPGGAVGR-----AAPRAGPSVG--AKAGRGVIMGTKQALRAAHSRVHELAAAGSPSRGGLLWGSTDSDSGNDGVLNLAERQPSFPALFSPYSKVTAPRRPORYSSGHGS 1800
gi | 118092229 | ref | XP_421394.2 | QK-VQASGNKNRGLSASCSKELSSVKS-LAQPVGKSGMAPGK-----AAPRSMQVPG--GKPGRCIMGTKQAMRAANSRVNELVGGSTKVGH-FRGS-TDSDSGNDGVLNLAERQPSFPALFSPYSKVTAPRRPORYSSGHGS 1800
gi | 189531274 | ref | XP_690215.3 | ARSVVNAVANKARTLSANRSLSSSKS-LAAPTTRNANLPPSKGTALPRAAAAASVAAGGKSKTRGIMGTKQAMRAANSRVSELALAN-PSTKQ--RSGGSDSDSGNDGVALNEDKHTPTILFSPYSKVTAPRRPORYSSGHGS 1800
.....1660.....1670.....1680.....1690.....1700.....1710.....1720.....1730.....1740.....1750.....1760.....1770.....1780.....1790.....1800



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*****:*****: ***** ***** :* . * * * *****:*****:*** *.. ***** :.* *****:*****:* *
gi |149263557|ref |XP_001477782.1| DNSSVLSGELPPAMGRITALFYHSGGSSGYESMIRDSEATGSASSAPDSMSSECTAELGARSRLKSPKKRATGLORRRLIPAPLPDAAALGRKPSLPGQWVDLPPPLAGSLKEPFEIKVYEIDDVERLQRHRLPLRENEAKPSQDAKGP 1950
gi |109478769|ref |XP_234565.4| DNSSVLSGELPPAMGRITALFYHSGGSSGYESMIRDSEATGSASSAPDSMSSEGAASPGARSRLKSPKKRATGLORRRLIPAPLPDAAALGRKPSLPGQWVDLPPPLAGSLKEPFEIKVYEIDDVERLQRHRLPLRENEAK-----GP 1950
gi |150170699|ref |NP_056471.1| DNSSVLSGELPPAMGRITALFYHSGGSSGYESLRRDSEATGSASSAPDSMSSEGAASPGARTRLKSPKKRATGLORRRLIPAPLPDTALGRKPSLPGQWVDLPPPLAGSLKEPFEIKVYEIDDVERLQRHRLPLRENEAK-----GL 1950
gi |118092229|ref |XP_421394.2| DNSSVLSGELPPAMGRITALFYHSGGSSGYESMIRDSEATGSASSAHDSMSSEGMSP-GRMRSRLKSPKKRSTGLORRRLIPAPLPDAAALGRKPSVTGQWVDLPP-LPGTLKEPFEIKVYEIDDVERLHRHQEET-----EGL 1950
gi |189531274|ref |XP_690215.3| DNSSVLSGELPPAMGRITALFYHSGGSSGYESMIRDSEATGSASSAHDSMSSEGMSP-S-GRTRSSKVPKKRSNGLORRRLIPAPLPDTSSSLG-KTGTGQWVDLPP-MSGPLKEPFEIKVYEIDDVERLQRHQEETD-----EGL 1950
.....1810.....1820.....1830.....1840.....1850.....1860.....1870.....1880.....1890.....1900.....1910.....1920.....1930.....1940.....1950

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gi |149263557|ref |XP_001477782.1| VCISSKLRLAERRQORLQEVQAKRDHLCEELAEIQGRLMVEPGRWLEQFEVDPELEPEAEYLVALEQATAALEQCVNLCKAHVMMVTCFDIGVAATAVPGPQEV DV 2058
gi |109478769|ref |XP_234565.4| VCISSKLRLAERRQORLQEVQAKRDHLCEELAEIQGRLMVEPGRWLEQFEVDPELEPEAEYLVALEQATAALEQCVNLCKAHVMMVTCFDIGVAATAAVPGPQEV DV 2058
gi |150170699|ref |NP_056471.1| ACVSTRRLAERRQORLREVOAKHHLCEELAEIQGRLMLEPGRWLEQFEVDPELEPEAEYLAALERATAALEQCVNLCKAHVMMVTCFDISVAASAAIPGPQEV DV 2058
gi |118092229|ref |XP_421394.2| MYFHTKLKILERRQORLREVKAKHFLKEELAEIQCRLLMDPNKWKEDFEVDPDLDKESQEYLEALEQVTEELEQCVNLCKSHIMIVTCFDIGIIL-DAQDGVREVEV 2058
gi |189531274|ref |XP_690215.3| MYFSIKMKVLEKRRQQIRDLRAKHKHLKEELDDIKSRLLMDPSKWLGEFEVDQDLQESQEYLEALEQATADLEYCVNLCKSRVMMVTCFDIRVSS-DVQEGPREVEV 2058
.....1960.....1970.....1980.....1990.....2000.....2010.....2020.....2030.....2040.....2050.....

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