

gi	281361638	ref	NP_731669.2	VLTLTAVKDAVDYIQRHISDQVNNRKSLLR	450
gi	158290715	ref	XP_312283.4	VLMLTAVKDAVDDFV-----INNRRSKALR	450
gi	40316837	ref	NP_065185.1	VLTTTAVKDAADDYFRHKSQVNNRQSQVLI	450
gi	119889270	ref	XP_001253649.1	VLTTTAVKDAADDYFRHKSQVNNRQSQVLI	450
gi	114559967	ref	XP_001151835.1	VLTTTAVKDAADDYFRHKSQVNNRQSQVLI	450
gi	124487147	ref	NP_001074651.1	VLTTTAVKDAADDYFRHKSQVNNRHSQVLI	450
gi	109465095	ref	XP_001062555.1	VLTTTAVKDAADDYFRHKSQVNSRHSQVLI	450
gi	73961642	ref	XP_547569.2	VLAITAVKDAADDYFRHKSQVNNRQSQVLI	450
gi	189537677	ref	XP_687715.3	VLAITAVKDAADDYFRHKSQVNTRQSQVLI	450
gi	71990329	ref	NP_001023252.1	VLAFAIKDGYDDAQRHISDRNVGRKSYVVR	450
gi	15222212	ref	NP_172780.1	VTAASMVKEATEDWGRKKQDIEMNNRKKVVDG	450
gi	15230859	ref	NP_189189.1	VISATMVKEGIEDWRRKQDDIEVNNRKKVVDG	450
gi	15222647	ref	NP_173938.1	VILATMFKEGVEDWRRKQDDIEVNNRKKVVRHG	450
gi	15221488	ref	NP_177038.1	VIGATMVKEGVEDWRRKQDDNEVNNRKKVVRHG	450
gi	15232278	ref	NP_189425.1	VIGATMVKEGVEDLRRRKQDVEANNRKKVEVLGK	450
gi	15221763	ref	NP_175830.1	VVGLSMGKEALEDWRRFMQDVEVNSRKAQSVHKG	450
gi	240255342	ref	NP_188006.4	VVGLSMGKEALEDWRRFMQDVKVNSRKAIVHRG	450
gi	15218567	ref	NP_177414.1	VVGLSMLKEALEDWRRFMQDVKINARKVCVHKS	450
gi	186478584	ref	NP_173193.2	VVGLSMLKEALEDWRRFMQDVKINASKVYVHKS	450
gi	145610034	ref	XP_366691.2	-----FMETLWSKEARVKRREKAAQVADTPRISIDTRRTGRPEVSISPHTRTSFISARED-----IPMTPVTSPLPRAE-----GQONLEVVPQOEGLAGSRPSSNFSFRGDS-----AELAHIKK	450
gi	85114063	ref	XP_964630.1	IICVTAIKDAVEDYRRITVLNLLNNAFVHKLHGIPNVIVEADNVSLWRRFKKANSFFGALWHKTEGLWKKEDDNPILKNHIAHSHDEPPRMSMESRTSRARRSLNVVRDEVEMTPVPSPLPHQPNEMDFPGEGRSRVDNRYALQDIKG	450
gi	19113761	ref	NP_592849.1	VVGIITAVKDAIEDFRRTMLDIHLNNTPLRLLSHYQNPPIRITREIYSYRFRFKKRIISALFRVFLAKQEEKRAKRLN-----DAVPLEDMAGSESRRPS-----WDSIFRESFEAKRFSFKGKVPALSALDGT-----AIIQSRPM	450
gi	50306053	ref	XP_452988.1	IVVLTISFKDAIEDSRRITILDMEVNNAPIHILKGVENVVNSDNKVSILWRKFKKANTVLEFRFHLCQELFTEEG-----KKQRAQRKRREEMNKIRQTQT-----PRNSLDSVGSYRNSMESSEFGGDLTIR-----GKDDL	450
gi	45201216	ref	NP_986786.1	IVVITGLKDAFEDSRRITILDMEVNMRSHILHGVENVVNSDNVSLWRKFKKLNTRLLIATVRRFRESFTEAG-----LRLGRRARAREESQMAASRLGSDPRMSLDSMGSYRFSILDFDNICQLVLS-----SDQV	450



gi	281361638	ref	NP_731669.2	-----NGKLVVEAKWSEVQVGDVIRLNNQFVAADLLLLSTSEPNGLCFIETAELEDGETNLKAKOCLTEIIEIGDRHDSLWNFNGETICERPNNLLNKFQDGLIWRG-----	600
gi	158290715	ref	XP_312283.4	-----HGKLVDERWSGQVQVDIIRMDNDQFVAADILLSSSEPNGLCFIETAELEDGETNLKIKOCLPETAAALGQOEDLLWKFNGEIVCEPPNLLNKFEGGLTWKN-----	600
gi	40316837	ref	NP_065185.1	-----NGILQOQWMMNVCVGDIIKLENNQFVAADLLLLSSSEPHGLCYIETAELEDGETNMKVRQAIPTVSELG-----DISKLAKFQDGEVCEPPNKLKDFSGGLYWKY-----	600
gi	119889270	ref	XP_001253649.1	-----NGILQOQWMMNVCVGDIIKLENNQFVAADLLLLSSSEPHGLCYIETAELEDGETNMKVRQAIPTVSELG-----DISKLAKFQDGEVCEPPNKLKDFSGGLYWKY-----	600
gi	114559967	ref	XP_001151835.1	-----NGILQOQWMMNVCVGDIIKLENNQFVAADLLLLSSSEPHGLCYIETAELEDGETNMKVRQAIPTVSELG-----DISKLAKFQDGEVCEPPNKLKDFSGGLYWKY-----	600
gi	124487147	ref	NP_001074651.1	-----NGVLQOQWMMNVCVGDIIKLENNQFVAADLLLLSSSEPHGLCYIETAELEDGETNMKVRQAIPTVSELG-----DISQLARFQDGEVCEPPNKLKDFSGGLYWKY-----	600
gi	109465095	ref	XP_001062555.1	-----NGVLQOQWMMNVCVGDIIKLENNQFVAADLLLLSSSEPHGLCYIETAELEDGETNMKVRQAIPTVSELG-----DISQLARFQDGEVCEPPNKLKDFSGGLYWKY-----	600
gi	73961642	ref	XP_547569.2	-----NGSLQOQWMMNVCVGDIIKLENNQFVAADLLLLSSSEPHGLCYIETAELEDGETNMKVRQAIPTVSELG-----DISRLAKFQDGEVCEPPNKLKDFSGGLYWKY-----	600
gi	189537677	ref	XP_687715.3	-----KGRKLNKMMNVRVGDVILKLENNQFVAADLLLLSSSEPHGLCYIETAELEDGETNLKVRQALTVSDLGDDVAKLADFNGEIVCEPPNKLKDFIGGLYWKD-----	600
gi	71990329	ref	NP_001023252.1	-----NGSLCEDWSNVKVDVIRMSNQFVAN-----	600
gi	15222212	ref	NP_172780.1	-----NGIFRRREGWRDLKVGNIIVRVKDEFFPADLLLLSSSYEDGICYVETMNLGGETNLKVKQGLEATSSALHEDSDFKELKAVVKCEDPNADLYTFVGLHFEE-----	600
gi	15230859	ref	NP_189189.1	-----NGIFRQEEWRNLRVGDIVRVKDEFFPADLLLLSSSYEDGICYVETMNLGGETNLKVKQGLEATSSLLNQSDDFKDFRQVVRCEDPNVLNYVFGTLALEE-----	600
gi	15222647	ref	NP_173938.1	-----NGNFDLREWKTLRVGDILKVEKNEFFPADLVLLSSSYEDAVCYVETMNLGGETNLKVKQGLEVTLS-----LRDEELNFRDFEAFKCEDPNANLYSFGTMDLKG-----	600
gi	15221488	ref	NP_177038.1	-----DGSFDAKEWKTLSIGDIVKVEKNEFFPADLVLLSSSYEDDAICYVETMNLGGETNLKVKQGLEVTLS-----LRDEFNFRKGFVAFVKECEDPNANLYSFGTMDLKG-----	600
gi	15232278	ref	NP_189425.1	-----TGTFFVETKWNLRVGDIVKVEKDEFFPADLLLLSSSYEDGICYVETMNLGGETNLKVKHHALEITSD-----EESLKNFRGMKCEDPNENLYSFGTLYFEG-----	600
gi	15221763	ref	NP_175830.1	-----SGDFGRRTWKRIRVGDIVRVKDEFFPADLLLLSSSYEDGICYVETMNLGGETNLKVKRCLDATALA-----LEKDESFNQFSGTIKCEDPNENLYTFVGNLECDG-----	600
gi	240255342	ref	NP_188006.4	-----DGDFFGRKWKLRVGDVVKVEKDEFFPADLLLLSSSYEDGICYVETMNLGGETNLKVKRCLDNLPL-----LERDDTFQFSFGTIKCEDPNENLYTFVGNLECDG-----	600
gi	15218567	ref	NP_177414.1	-----DGVFRQRKWKVSVGDIVKVEKDEFFPADLLLLSSSYEDGICYVETMNLGGETNLKVKRSLEVSLP-----LDDDESFKNFMATIRCEDPNENLYTFVGNLEFER-----	600
gi	186478584	ref	NP_173193.2	-----DGEFRRRKWKVSVGDIVKVEKDEFFPADLLLLSSSYEDGICYVETMNLGGETNLKVKRSLEVSLP-----LDDYDSFKDFDFTGIRCEDPNENLYTFVGNLEFER-----	600
gi	145610034	ref	XP_366691.2	-----DLINRRTIPAEGRKFRFRDKWKNLQVGFVRIYSDDDELPAIIILLATSDPDGACYVETKNLGGETNLKFRSALRCKGRNMK-----NSRDCERAQFIIESEPPQPNLYKNGAIVKWNQPIEGDASGSWREMTPEITIDNILLRGCNLRNTDWWLGV	600
gi	85114063	ref	XP_964630.1	-----DLVNRNLPISGKARFAKDAWKGLVVGFVRIYNDDEIPADIIILLATSDPDGACYVETKNLGGETNLKFRSALRCKGRNMK-----HARDCERAQFIIESEPPQPNLYKNGAIVRNLQELPNEDGDP	600
gi	19113761	ref	NP_592849.1	-----DIIIDYEAATGECHKTYWVWVGVDFVVMNDDEIPADIVIIINSSDPEGICYVETKNLGGETNLKMRHALTCGNVNV-----DEASCECERFWIESEPPHANLYYENGACKEFVHSEAGG	600
gi	50306053	ref	XP_452988.1	-----CLLDPSLPLPDCKFAKYWKSVSVDIVRVHNDDEIPADIIILLSSSDSDGACYVETKNLGGETNLKVRQSLKCSHMIR-----NSRNTITRDKFVSESGPHSNLYSVCNGLKWDRETEG-----	600
gi	45201216	ref	NP_986786.1	-----SVLNRNLPVVPDPCRFGKSHKWDIRVGDIVRIHNDDEIPADIIILLSTSDADGACYVETKNLGGETNLKVRQSLKCSHRIR-----NSKDISRCKFWVESGPHANLYSVCNFKWVDSETG-----	600



gi | 281361638 | ref | NP_731669.2 | VVFAGVDIKLMOISGKIKFKRITIDRLMLFLIIVGLVFLVSIICAFVLCVCAIWEGLIG---QHFLYLPVWHIIPKDYIP---TGAIVIGLLVFFSYAIVLNVVVISLVYSVEVIRFVQSFLLINWDEEMYP--TNTYAKARTITLN 750

gi | 158290715 | ref | XP_312283.4 | VIFAGKDKLMOISGKIKFKRITIDRLMLFLIIVGLVFLVSIICAFVLCVCAIWEALVG---YKFQIYLPVWERIIPKDYI---QGAIIGCLVFFSYAIVLNVVVISLVYSVEVIRFVQSFLLINWDEKMYDK--TKTHAKARTITLN 750

gi | 40316837 | ref | NP_065185.1 | VIFAGPDIKLMOISGKIKFKRITIDRLMLTLVLWIFGFLVCMGVILAIIGNAIWEHEVQ---MRFQVYLPWDEAV---DSAFFSGFLSFWSYIILLNVVVISLVYSVEVIRLGHSYFINWDDKMFCMK--KRTPAEARTITLN 750

gi | 119889270 | ref | XP_001253649.1 | VIFAGPDIKLMOISGKIKFKRITIDRLMLTLVLWIFGFLVCMGVILAIIGNAIWEHEVQ---TRFQVYLPWDEAV---DSAFFSGFLSFWSYIILLNVVVISLVYSVEVIRLGHSYFINWDDKMFCMK--KRTPAEARTITLN 750

gi | 114559967 | ref | XP_001151835.1 | VIFAGPDIKLMOISGKIKFKRITIDRLMLTLVLWIFGFLVCMGVILAIIGNAIWEHEVQ---MRFQVYLPWDEAV---DSAFFSGFLSFWSYIILLNVVVISLVYSVEVIRLGHSYFINWDDKMFCMK--KRTPAEARTITLN 750

gi | 124487147 | ref | NP_001074651.1 | VIFAGPDIKLMOISGKIKFKRITIDRLMLTLVLWIFGFLVCMGVILAIIGNAIWEHEVQ---TRFQVYLPWDEAV---DSAFFSGFLSFWSYIILLNVVVISLVYSVEVIRLGHSYFINWDDKMFCMK--KRTPAEARTITLN 750

gi | 109465095 | ref | XP_001062555.1 | VIFAGPDIKLMOISGKIKFKRITIDRLMLTLVLWIFGFLVCMGVILAIIGNAIWEHEVQ---TRFQVYLPWDEAV---DSAFFSGFLSFWSYIILLNVVVISLVYSVEVIRLGHSYFINWDDKMFCMK--KRTPAEARTITLN 750

gi | 73961642 | ref | XP_547569.2 | VIFAGPDIKLMOISGKIKFKRITIDRLMLTLVLWIFGFLVCMGVILAIIGNAIWEHEVQ---TRFQVYLPWDEAV---DSAFFSGFLSFWSYIILLNVVVISLVYSVEVIRLGHSYFINWDDKMFCMK--KRTPAEARTITLN 750

gi | 189537677 | ref | XP_687715.3 | VIFAGLQIKLMOISGRKFKRITIDRLMLTLVLWIFGFLVCMGIIILAIIGNAIWEHQVSG---SDFWAYLQWKELT---VNAVPSGFLTFWYSIILLNVVVISLVYSVEVIRLGHSYFINWDRRMYYSR--KDTPAEARTITLN 750

gi | 71990329 | ref | NP_001023252.1 | VVFAGKDKLMOISGKIKFKRITSLDRFLMILIVGLVFLIAMCLICTILCAVWEYQTG---RYFTIYLPWDDVVPSPPEORGGRIALIAFLQFFSYIILLNVVVISLVYSVEVIRLGHSYFINWDTQMYENGEKSVPAKARTITLN 750

gi | 15222212 | ref | NP_172780.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 15230859 | ref | NP_189189.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 15222647 | ref | NP_173938.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 15221488 | ref | NP_177038.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 15232278 | ref | NP_189425.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 15221763 | ref | NP_175830.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 240255342 | ref | NP_188006.4 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 15218567 | ref | NP_177414.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 186478584 | ref | NP_173193.2 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 145610034 | ref | XP_366691.2 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 85114063 | ref | XP_964630.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 19113761 | ref | NP_592849.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 50306053 | ref | XP_452988.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

gi | 45201216 | ref | NP_986786.1 | VVFTGHDIKVIONSTDPSPKRSRIERTMDDKIYLMFLMVFSLAFFGSLVFGIWIWTRDD--FQNG--VMERWYLPKDDSSIFDPP---KRAPMAAIIYHFLTALMLNSYFIPISLVYSIEIVKVLQSFIFINQDIHMYYEE--ADKPAHARTSNLN 750

.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750

gi | 281361638 | ref | NP_731669.2 | EELGGIYIFSDKTGTLTQIMVFNKCSINGRSDYGDVLDLRTGELVETEQIIFONS--NINRPSPLSGAIVAPPAAPPILVHKAEVHAKKTSMVVTSSGE---AQVLPRPRDIERLAPPMDASERKPKLKHVRYSSAPRSG 900

gi | 158290715 | ref | XP_312283.4 | EELGGIYIFSDKTGTLTQIMVFNKCSINAGRAYGDVVDVTRGEIVLNVHIAVFRNSPVIYRWNLVHLVCLVCRRLRRKVVVKHQAPFQPPFNTLILLNNAEPPGRSTPPPTTTTTITTEIPVGTNPKKHPPPLHVRFSOHSNSG 900

gi | 40316837 | ref | NP_065185.1 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 119889270 | ref | XP_001253649.1 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 114559967 | ref | XP_001151835.1 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 124487147 | ref | NP_001074651.1 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 109465095 | ref | XP_001062555.1 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 73961642 | ref | XP_547569.2 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 189537677 | ref | XP_687715.3 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 71990329 | ref | NP_001023252.1 | EELGGVVEYIFSDKTGTLTQIMVFNKCSINGRSDYGDVDFVLDG---HKAEELGERPE 900

gi | 15222212 | ref | NP_172780.1 | EELGMVDILSDKTGTLTQIMVFNKCSINAGTAYGRGITVERESMA---MRNSGSSLV 900

gi | 15230859 | ref | NP_189189.1 | EELGMVDILSDKTGTLTQIMVFNKCSINAGTAYGRGITVERESMA---MRNSGSSLV 900

gi | 15222647 | ref | NP_173938.1 | EELGGVGTILSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 15221488 | ref | NP_177038.1 | EELGGVGTILSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 15232278 | ref | NP_189425.1 | EELGGVGTILSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 15221763 | ref | NP_175830.1 | EELGGVGTILSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 240255342 | ref | NP_188006.4 | EELGGVGTILSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 15218567 | ref | NP_177414.1 | EELGGVGTILSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 186478584 | ref | NP_173193.2 | EELGGVGTILSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 145610034 | ref | XP_366691.2 | DDGGIIEYIFSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 85114063 | ref | XP_964630.1 | DDGGIIEYIFSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 19113761 | ref | NP_592849.1 | DDGGIIEYIFSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 50306053 | ref | XP_452988.1 | DDGGIIEYIFSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

gi | 45201216 | ref | NP_986786.1 | DDGGIIEYIFSDKTGTLTQIMVFNKCSINAGTAYGRGITVEREAMG---KRGKSALVN 900

.....760.....770.....780.....790.....800.....810.....820.....830.....840.....850.....860.....870.....880.....890.....900


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gi | 281361638 | ref | NP_731669.2 | FVLLDVHPSLSDKIR-QKSLKKIHSRAS-----SDVRRP ASSRGRGRS-VRSGYAFARQEGFRLITSGKIMHKLPQDFAPPLGLGTTKKTIVLH-----NNLNADGPNKGNVNGHMVNN 1950
gi | 158290715 | ref | XP_312283.4 | FVFVDVFPSPDKIRVQQRLLALLRSROS-----SDVLRTP SARKARRS-LRSGYAFARQEGFRLITSGKIMRKLQDFAPPLGLGSKKQSTETKNNNNNNNNNN SNNANNASNVVNGAGAVGA 1950
gi | 40316837 | ref | NP_065185.1 | FLRLNLKPDLSDTVRYTQLVRKKQKAQH-----RCMRRVGR TGSR---RSGYAFSHQEGFGELIMSGKNMR-----LSSLALSSFTTRSSSWIESLR 1950
gi | 119889270 | ref | XP_001253649.1 | FLRLNLKPDLSDTVRYTQLVRKKQKAQH-----RCMRRVGR TGSR---RSGYAFSHQEGFGELIMSGKNMR-----LSSLALSSFTTRSSSWIESLR 1950
gi | 114559967 | ref | XP_001151835.1 | FLRLNLKPDLSDTVRYTQLVRKKQKAQH-----RCMRRVGR TGSR---RSGYAFSHQEGFGELIMSGKNMR-----LSSLALSSFTTRSSSWIESLR 1950
gi | 124487147 | ref | NP_001074651.1 | FLRLSLKPDLSDTVRYTQLVRKKQKAQH-----RCMRRVGR TGSR---RSGYAFSHQEGFGELIMSGKNMR-----LSSLALSSFTTRSSSWIESLR 1950
gi | 109465095 | ref | XP_001062555.1 | FLRLSLKPDLSDTVRYTQLVRKKQKAQH-----RCMRRVGR TGSR---RSGYAFSHQEGFGELIMSGKNMR-----LSSLALSSFTTRSSSWIESLR 1950
gi | 73961642 | ref | XP_547569.2 | FIKLNLKPDLSDTVRYTQLVRKKQKAQH-----RCLRRVGR RISSR---RSGYAFSHQEGFGELIMSGKNMR-----LSSLALSSFTTRSSSWIESLR 1950
gi | 189537677 | ref | XP_687715.3 | FIKTDLYPTHDKVRLQQATRRQRPEE-----QNLRRVR RISSR---RSAYAFSHQGGYVGLITSGKNMK-----VPSSTSTVPLSSP---RAPG 1950
gi | 71990329 | ref | NP_001023252.1 | FFWLDTHPSPADRLRIRKMGKPSAKD-----KKTAFKR TAATRRSVRGLRSGYAFSHSQGGFGLILKGLFKNVENLRGKNNNAKIHTPDDLDQPLMISVVPDDGCGASSINAMHLPMTTRPQ 1950
gi | 15222212 | ref | NP_172780.1 | SVOMRFFPGYHQMTQWIR-YEGHSNDPE-----FVEMVRQSRIRPTVGF TARRAASVRRSARFHDQLN-----KNFIAP 1950
gi | 15230859 | ref | NP_189189.1 | SVOMRFFPKYHQMTQWIR-YEGHSNDPE-----FVEMVRQSRIRPTVGF TARRAASVRRSARFHDQIY-----KDLVGV 1950
gi | 15222647 | ref | NP_173938.1 | ALOMRFFPMHSGTQWLLR-YEDQCSNCG-----NFEMGRQGSVRPILV-----MRHQPE 1950
gi | 15221488 | ref | NP_177038.1 | ALOMSFFPMYHGMQWLR-YEQQCNDPE-----YCDIVRQSRIRPTVGF TARLEA-KKRSVRISEPAS----- 1950
gi | 15232278 | ref | NP_189425.1 | AFOIKFRPMYHDIIVEQR-RTERTETAD-----NAVLG---ELPVVEFTLHLR-----ANLSRRDS 1950
gi | 15221763 | ref | NP_175830.1 | SYORSVNPDLHHIIOEIKHFRIQVDEER-----MWRERKAREKIKIGFTARVDAKIRQLRGLRQKQ-----SVLSVMSGTS 1950
gi | 240255342 | ref | NP_188006.4 | SPORSVNPDLHHIIOEIKHFRIQVDEER-----MWRERKAREKIKIGFTARVDAKIRQLRGLRQKQ-----SVLSVMSGTS 1950
gi | 15218567 | ref | NP_177414.1 | AFORFLNPLDHHIIOEIKYGRDIEDAR-----LWTRERKAREKIKIGFTARVDAKIRHLRSKLNKKQ-----SNLSHFS 1950
gi | 186478584 | ref | NP_173193.2 | SFORFLHPLDHHIIOEIKYKRRVDERR-----MWRERKAREKIKIGFTARVDAKIRHLRSKLNKKQ-----SNMSQFS 1950
gi | 145610034 | ref | XP_366691.2 | ALOKVYVFPYVDIIREQVQQGKFDRLQ-----APVQOTLPGGRS TAGS---SPSLAKGNPGLTFSGQ-----DDERPVPPSVAT-HTRVOTGSDGTNYTGHRMSMEQQOLEHQPLDQLPMEHIPTRPSIDRARPSVDRVRA MDR--VR 1950
gi | 85114063 | ref | XP_964630.1 | CIOKQMFYPYVDIIRERISGEYKALEVPVAVPEDEALKGTS SSGSESSRAKSKSKSKHSTHYASVDEDRRPVPPSVNTHETRAQNGSDGTNYT---RHSLDTNQIEDEP-----PMG---GGRPSIDRARPSVDRLR MDRERIR 1950
gi | 19113761 | ref | NP_592849.1 | LKOKLFWPYVDIIRSYRIRLHELDE-----EEIENAEQSPDWASS TLQVFPNASSSSLAT-----PKKEPLRLDNTSLNLTSMRPSF-----PSYT 1950
gi | 50306053 | ref | XP_452988.1 | FLRLTYMPKDIIDIRECWMKRGDFDHYPEG-YDPTDPDRPKVNAFV---YNKDIEMAQSSTDS-----ITTEIIPMDELFNSSA SPRSPYHNHRQS-----SGRFS 1950
gi | 45201216 | ref | NP_986786.1 | AVOKLFFPRDIDIVRECWMKRGDFDMPYPEG-YDPTDPNRPINVTHTGVDRASDDERSRTGSDLVGTRTVI SEDIPMLGLDKTAPHSRADPTPLGSED-----SARYS 1950
.....1810.....1820.....1830.....1840.....1850.....1860.....1870.....1880.....1890.....1900.....1910.....1920.....1930.....1940.....1950

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gi | 281361638 | ref | NP_731669.2 | NTNMRHNQNNHNSMADITADGRGNCGDDGR-----CGGSDDMSPRAPCQDLDIINL----- 2026
gi | 158290715 | ref | XP_312283.4 | RTGNTATATLSAMAAVTTLTVNGNQOQQQLVNLPGSSNGGQHSRAPACQDLDIINL----- 2026
gi | 40316837 | ref | NP_065185.1 | RKKSDSASSPSSGGADKPLKG----- 2026
gi | 119889270 | ref | XP_001253649.1 | RKKSDSASSPSSGGADKPLKG----- 2026
gi | 114559967 | ref | XP_001151835.1 | RKKSDSASSPSSGGADKPLKG----- 2026
gi | 124487147 | ref | NP_001074651.1 | RKKSDSANSPPSSGAEKPLKG----- 2026
gi | 109465095 | ref | XP_001062555.1 | RKKSDSANSPPSSGAEKPLKG----- 2026
gi | 73961642 | ref | XP_547569.2 | RKKSDSASSPSSAADKPLKE----- 2026
gi | 189537677 | ref | XP_687715.3 | EKGITFANSRPSSEHKQEVTVDELEAR----- 2026
gi | 71990329 | ref | NP_001023252.1 | VPHLLNVNDDWSQSSDFR PAYAKEPSP LQGTIVIRGDRSHRNHVYSREI QVEEQPDVITRL----- 2026
gi | 15222212 | ref | NP_172780.1 | ----- 2026
gi | 15230859 | ref | NP_189189.1 | ----- 2026
gi | 15222647 | ref | NP_173938.1 | ----- 2026
gi | 15221488 | ref | NP_177038.1 | ----- 2026
gi | 15232278 | ref | NP_189425.1 | ----- 2026
gi | 15221763 | ref | NP_175830.1 | ----- 2026
gi | 240255342 | ref | NP_188006.4 | SNDTPSSNSQ----- 2026
gi | 15218567 | ref | NP_177414.1 | STDITTTQHE----- 2026
gi | 186478584 | ref | NP_173193.2 | AQDAMSPRSL----- 2026
gi | 145610034 | ref | XP_366691.2 | TQDTMSPRSV----- 2026
gi | 85114063 | ref | XP_964630.1 | PSYEAINDFTSAARLSRVESRRSRRGGPPPS-----SHNLFAGRLRGLSIIIAKSR-----HGPDERRGGQ 2026
gi | 19113761 | ref | NP_592849.1 | QSLEQSNDFTSAAARLSRIESTHSAQNLTPGAQRFFNLTVRKRGLVVFVKQSEDEVPHPGVEDEDKRRDRRDSGQ 2026
gi | 50306053 | ref | XP_452988.1 | PSFLEGSVPVFDEILNRCGYMPHRSISISS-----EQPLRP----- 2026
gi | 19113761 | ref | NP_592849.1 | LEITRAEMRNINQLDNRYSVERARVLELP-----GVTRAAALLSHD----- 2026
gi | 50306053 | ref | XP_452988.1 | LEVTRREMLQIHO LDRYSVERARTSLDLP-----GVTRARALLIIN----- 2026
.....1960.....1970.....1980.....1990.....2000.....2010.....2020.....

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