

gi | 75677420 | ref | NP_031762.2 | -----MQVRGVCLAAWFLALCLWGQPAEAAACHGCSGSKDCDSGIKGEKGERGFPGLGHPGLPGFPPEGPPGPRGQKDDGIPGPPGPKIRGPPGLPGFPPTPLGLPM 150
gi | 6266698 | ref | XP_343779.2 | -----MQVPGVCLAAWFLALCLWGQPEAAACHGCSGSKDCDSGIKGEKGERGFPGLGHPGLPGFPPEGPPGPRGQKDDGIPGPPGPKIRGPPGLPGFPPTPLGLPM 150
gi | 50950201 | ref | NP_001002979.1 | -----MKLRGVSLAAGWFLALSLWGQPAEAAACHGCSGSKDCDSGKGEKGERGFPGLGHPGLPGFPPEGPPGPRGQKDDGIPGPPGPKIRGPPGLPGFPPTPLGLPM 150
gi | 194680449 | ref | XP_001790185.1 | -----MKLRGVSLAAGWFLALSLWGQPAEAAACHGCSGSKDCDSGIKGEKGERGFPGLGHPGLPGFPPEGPPGPRGQKDDGIPGPPGPKIRGPPGLPGFPPTPLGLPM 150
gi | 4502955 | ref | NP_000486.1 | -----MKLRGVSLAAGWFLALSLWGQPAEAAACHGCSGSKDCDSGIKGEKGERGFPGLGHPGLPGFPPEGPPGPRGQKDDGIPGPPGPKIRGPPGLPGFPPTPLGLPM 150
gi | 118089646 | ref | XP_420320.2 | -----MAELETVEQMRKVKLAR-----SKDLIVPETGE-GERGFPGLGHPGLPGFPPEGPPGPRGAKGDDGLPGPIGPKIRGPPGLPGFPPTPLGLPM 150
gi | 181331962 | ref | NP_001116702.1 | -----MNLKSLG-AVLLLVLTLSAGVKSSEAAACHGCSGSKDCDSGKGEKGERGFPGLGHPGLPGFPPEGPPGPRGAKGDDGLPGPIGPKIRGPPGLPGFPPTPLGLPM 150
gi | 71988208 | ref | NP_001022662.1 | -----MSRLSLGLLAAVVLLSLFCQDRIHVDAAAACKCAPPCVCFPKGIRGNDPLGLKHPQPPVGFPEGPPGPRGAKGDDGLPGPIGPKIRGPPGLPGFPPTPLGLPM 150
gi | 17568913 | ref | NP_510663.1 | -----MKQRAALGPVLRLLAALLAVSYVQSQATCRDCS-NRGCFCVGEKGSMDGAPGPPGPTGQIRGFPPEGLGPKGLKGAQGGPPVVGKDRGAVGVGPPGNDGGNR 150
gi | 24581824 | ref | NP_723046.1 | -----MLPFWRLLYAAVIAAGALVGAQAQFWKTAGTAGSITDSEVKKHYNRNEKFPIDDSYDIDVSAGVARGDLPPKNCITAGYAGCVPKCIARKGNRGLPGLGPTGLKGEVFPMEGSPGDKQKQKDPGPPYVQRRGDKGERGSPGLHQAQVVPV 150
gi | 118791830 | ref | XP_319976.3 | -----
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi | 75677420 | ref | NP_031762.2 | -----PGHDGAPGPGIPGCGCTKGERGFPSPGFPGLGPPGPPGIPGMKGEPSIIMSPLPGPKNGQYVPGPPGIGPPGPKGISGPSGPPGPPGLMGGPPGPPGPKNMGLNFGPKGKEGEGLOGPPGPPGIISEKRPIDIEFQKGD 300
gi | 6266698 | ref | XP_343779.2 | -----PGHDGAPGPGIPGCGCTKGERGFPSPGFPGLGPPGPPGIPGMKGEPSIIMSPLPGPKNGQYVPGPPGIGPPGPKGISGPSGPPGPPGLMGGPPGPPGPKNMGLNFGPKGKEGEGLOGPPGPPGIISEKRPIDIDFQKGD 300
gi | 50950201 | ref | NP_001002979.1 | -----PGHDGAPGPGIPGCGCTKGERGFPSPGFPGLGPPGPPGIPGMKGEPSIIMSPLPGPKNGPYVPGPPGIGPAGPTGLPGIIGPPGPPGLMGGPPGPPGLPGPKNMGLNFGPKGKEGEGLOGPPGPPGIISEKRPIDVDFQKGD 300
gi | 194680449 | ref | XP_001790185.1 | -----PGHDGAPGPGIPGCGCTKGERGFPSPGFPGLGPPGPPGIPGMKGEPSIIMSPLPGPKNGPYVPGPPGIGPAGPTGLPGIIGPPGPPGLMGGPPGPPGLPGPKNMGLNFGPKGKEGEGLOGPPGPPGIISEKRPIDVDFQKGD 300
gi | 4502955 | ref | NP_000486.1 | -----PGHDGAPGPGIPGCGCTKGERGFPSPGFPGLGPPGPPGIPGMKGEPSIIMSPLPGPKNGPYVPGPPGIGPAGPTGLPGIIGPPGPPGLMGGPPGPPGLPGPKNMGLNFGPKGKEGEGLOGPPGPPGIISEKRPIDVDFQKGD 300
gi | 118089646 | ref | XP_420320.2 | -----PGQDGAAPGPRGIPGCGCTKGERGFPSPGFPGLGPPGPPGIPGMKGEPSIIMSPLPGPKNGQYVPGPPGIGPPGPKGISGPSGPPGPPGLMGGPPGPPGPKNMGLNFGPKGKEGEGLOGPPGPPGIISEKRPIDIEFQKGD 300
gi | 181331962 | ref | NP_001116702.1 | -----PGQDGAAPGPRGIPGCGCTKGERGFPSPGFPGLGPPGPPGIPGMKGEPSIIMSPLPGPKNGQYVPGPPGIGPPGPKGISGPSGPPGPPGLMGGPPGPPGPKNMGLNFGPKGKEGEGLOGPPGPPGIISEKRPIDIEFQKGD 300
gi | 71988208 | ref | NP_001022662.1 | -----DGLPGLKGEIIPGCGCTDGFPPGMPGLAGPPGQSQNGNPNRPPGLSPPGEGGVNQ-GRKVGKESGSRGVPGLPNSGYPGLKAKDDPPYVGLGFPVGLKGRMVRNMGVSGKGLPLGPPGPPGPGSYVWASKPIEMELVGF 300
gi | 17568913 | ref | NP_510663.1 | -----PGEPGPPGAPGWDGCGCTDGAIPGIPRPPGPPGMPGFPFPMDGLKGEPAIYAGAPGKEDGDMGMPGLPSPGDRDYGPEKEDRDTNAGRPPGPEAGSPGNPGIIGIPKGDPPDIAMGAPGPPGPIASTMSKGTIIGPKGD 300
gi | 24581824 | ref | NP_723046.1 | -----QSPAGNPGAPGINGKDCGCDGIPGLEGLSGMPGPRGVAQLGSKGEKGEPAKENGDYAKGEKGEPPGWRGTAGLAGPQCFPEKGERDSDGVPVAKGPRGHEHLKGEKGAASCYGR-MKFPAGIKKGEKGEFASFFVKTETVMGPRGD 300
gi | 118791830 | ref | XP_319976.3 | -----
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi | 75677420 | ref | NP_031762.2 | -----GVPPGDRGPPGPPGIPGPP-----GPPG--GVKGEKGEPEAGKRKPKKDGGETGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPAPGTGVTMGEKNIIGLPGLPGEKGERGFPFGIC 450
gi | 6266698 | ref | XP_343779.2 | -----GVPPGDRGPPGPPGIPGPP-----GPPG--GVKGEKGEPEAGKRKPKKDGGETGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPAPGTGVTMGEKNIIGLPGLPGEKGERGFPFGIC 450
gi | 50950201 | ref | NP_001002979.1 | -----GGLPDRGPPGPPGIRGPP-----GPPG--GMKGEKGEQEPGKRKPKKDGGENGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPRPGTGTVVEKGNMGLPGLPGEKGERGFPFGIC 450
gi | 194680449 | ref | XP_001790185.1 | -----GGLPDRGPPGPPGIRGPP-----GPPG--GVKGEKGEQEPGKRKPKKDGGENGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPRPGTGTVVEKGNMGLPGLPGEKGERGFPFGIC 450
gi | 4502955 | ref | NP_000486.1 | -----GGLPDRGPPGPPGIRGPP-----GPPG--GEKGEKGEQEPGKRKPKKDGGENGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPRPGTGTVVEKGNMGLPGLPGEKGERGFPFGIC 450
gi | 118089646 | ref | XP_420320.2 | -----GGLPDRGPPGPPGIRGPP-----GPPG--GEKGEKGEQEPGKRKPKKDGGENGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPRPGTGTVVEKGNMGLPGLPGEKGERGFPFGIC 450
gi | 181331962 | ref | NP_001116702.1 | -----GGLPDRGPPGPPGIRGPP-----GPPG--GEKGEKGEQEPGKRKPKKDGGENGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPRPGTGTVVEKGNMGLPGLPGEKGERGFPFGIC 450
gi | 71988208 | ref | NP_001022662.1 | -----GGLPDRGPPGPPGIRGPP-----GPPG--GEKGEKGEQEPGKRKPKKDGGENGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPRPGTGTVVEKGNMGLPGLPGEKGERGFPFGIC 450
gi | 17568913 | ref | NP_510663.1 | -----GGLPDRGPPGPPGIRGPP-----GPPG--GEKGEKGEQEPGKRKPKKDGGENGQPGIIPGLPDGYPGPEPRDGEKQKQDIPGPPGPPGLV--IPRPGTGTVVEKGNMGLPGLPGEKGERGFPFGIC 450
gi | 24581824 | ref | NP_723046.1 | -----VGPAGVGEKGRDGPVGGPMLGLDGPVYGLKQKQDLDGAGQRKGRKDGVPVNVYGEKGSQEQGLGTPYPTKGGAGEPYVPRGPFEGDCPEGLGEGTGEAGPHGAQGFQDGVVGGKGLPGHDGLPGVPRGPPVAGAPAG 450
gi | 118791830 | ref | XP_319976.3 | -----LGEKGEKGEPEGGQRRGYPNGGLSGQPLGMKGEKGLSGPAGPRKGEGRPNAGPPGFKDRLDGLGGIIPGLPGKGEAGYPGRDGFKNGNSGPPGPPGQGTNDGAPGPPGLPGRPNPVPPTDGYPPGAPGAGPIGNTGGPGLP 450
gi | 118791830 | ref | XP_319976.3 | -----MQKGEPPGLVGRKGEPE-----GDTGLDQKGEKGLPGGPPGDRGRQGNFPPGSGTQKQDRGEPGLNGLPKNPGQKGEPPRAGATGKPGLLGPPGPPGGGRGTTPGPPGPKPRGVVYVAPGPPGLNGLVGLPGFPQYVQKGGAGLP 450
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi | 75677420 | ref | NP_031762.2 | -----PPGTAVV-----GPPGPPGYVGERGQKGDGEPGPIGIPGSPGLDQPPGAPGLP-----GPPGPPGPPQLPSRDEICKA-GPPGPPGPPGDKGL-----GERGVKDKGDTICFNIG-----IGISGPPGPP 600
gi | 6266698 | ref | XP_343779.2 | -----PPGTAVV-----GPPGPPGYVGERGQKGDGEPGPIGIPGSPGLDQPPGAPGLP-----GPPGPPGPPQLPSRDEICKA-GPPGPPGPPGDKGL-----GERGVKDKGDTICFNIG-----IGISGPPGPP 600
gi | 50950201 | ref | NP_001002979.1 | -----PPGTAVV-----GPPGPPGYVGERGQKGDGEPGPIGIPGSPGLDQPPGAPGLP-----GPPGPPGPPHLSRDEICEA-GPPGPPGPPGDRGL-----GEQVKDKGDTICFNIG-----IGVSGPPGPP 600
gi | 194680449 | ref | XP_001790185.1 | -----PPGPAVI-----GPPGPPGYVGERGQKGDGEPGPIGIPGSPGLDQPPGAPGLP-----GPPGPPGPPHLSRDEICEA-GPPGPPGPPGDRGL-----GEQVKDKGDTICFNIG-----IGVSGPPGPP 600
gi | 4502955 | ref | NP_000486.1 | -----PPGAAVM-----GPPGPPGYVGERGQKGDGEPGPIGIPGSPGLDQPPGAPGLP-----GPPGPAAGHPPSDEICEP-GPPGPPGPPGDKGL-----GEQVKDKGDTICFNIG-----IGISGPPGPP 600
gi | 118089646 | ref | XP_420320.2 | -----SPGITT-----GPPGPPGPPGGERGQKGDGEPGPIGIPGSPGLDQPPGAPGLP-----GPPGPPGPPHLSRDEICEA-GPPGPPGPPGDRGL-----GERGQKGDQDTICFNIG-----IGISGPPGPP 600
gi | 181331962 | ref | NP_001116702.1 | -----PPGIGPP-----GPPGPPGPPGGERGQKGDGEPGPIGIPGSPGLDQPPGAPGLP-----GPPGPPGPPFN--SDVFCNR-GLPFPGLQGERGFT-----GDSGQKQKGTICVNCFS-----NGNF-VPPGQ 600
gi | 71988208 | ref | NP_001022662.1 | -----QPGIDGMPGYT-EKGDREGDGYVGFAGEPGLPEPEPDGYPGEGDGLPGYDIPGPPGLDQSGDRGFPPIGPIGDIIDGPPYSGEKGFPTGNKVG-GPPGPTGLPGEPPMFGIIVDGYVPPGNNGERGDCSACYCP-----DGVFNGAGDP 600
gi | 17568913 | ref | NP_510663.1 | -----YPGNEGLPCKKGDGGIPGAPVSGSISGIPGLPGRKGEYGRGTPGYDIPGLPKDKKQPLDGA-----GRKGENGLPGRVPPGDSLNGLPAGPQORGAPGPNGLDGRDGVNGLPAGPCKKGRGDCSACAPGKGEKGLPGSGPP 600
gi | 24581824 | ref | NP_723046.1 | -----RPGNEGPPGKGEKGTAGLNGPKGSIGPIGHPPGPEQKGDAGLPGYGIQKSKDAGIIPYPLK-----GSKGERGFKNAGAPDSKLRGPTPGAAGAPQKGDAGRPPGPKQKMDMIGKGVGKCSSRA-----GPKDKGTSGLP 600
gi | 118791830 | ref | XP_319976.3 | -----
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600




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gi |75677420|ref|NP_031762.2|SFWLATVDMSDMFNKPKQSETLKAGDLRTRISRCQVCMKRT---- 1844
gi |62666698|ref|XP_343779.2|SFWLATVDMSDMFSKPKQSETLKAGDLRTRISRCQVCMKRT---- 1844
gi |50950201|ref|NP_001002979.1|SFWLATVDVSDMFSKPKQSETLKAGDLRTRISRCQVCMKRT---- 1844
gi |194680449|ref|XP_001790185.1|SFWLATVDVSDMFSKPKQSETLKAGDLRTRISRCQVCMKRT---- 1844
gi |4502955|ref|NP_000486.1|SFWLATVDVSDMFSKPKQSETLKAGDLRTRISRCQVCMKRT---- 1844
gi |118089646|ref|XP_420320.2|SFWLATVEVSEMFSPKQSETLKAGDLRTRISRCQVCMKRT---- 1844
gi |181331962|ref|NP_001116702.1|SFWLATVDVNEFMFRKPKQSETLKAGNLRTRVSRVCMKRT---- 1844
gi |71988208|ref|NP_001022662.1|GFWLSTIVDQDKQFRKPMSTLQKAGGLKDRVSRVCLKNR---- 1844
gi |17568913|ref|NP_510663.1|SFWLTIIDNDSEFKVPESTLQKSGNLRTRVSRVCMKRTDGRS---- 1844
gi |24581824|ref|NP_723046.1|SFWMYNLESQPFERPQQTIKAGERQSHVSRVCMKNS---- 1844
gi |118791830|ref|XP_319976.3|SFWLVSLSDHQQFQRPEQTLKAGNLLSRVSRVCIIR---- 1844
.....1810.....1820.....1830.....1840....

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