

gi | 217272880 | ref | NP\_892010.2 | -----MSAQVLG-----FLRSWTPPLAAP---RGPAAAGNDAGAPATAPGGEPEPHSR-----PCDARLGSADKELKA 150  
gi | 73964995 | ref | XP\_540448.2 | -----MSAHVLA-----FLRRGTPVPPAAPGAARNPAAAGDDAGAPAAPGGEPEPLGR-----HRDARLGSADKELKA 150  
gi | 194676336 | ref | XP\_876032.3 | -----MASAPTTRLWLRVAVAGGPAPAPPSHDSGAVSTISAARGAAEFGSLAPNFARGDGHSPSGIFLHNWTPPLAAP---SDPATAGNDAGAPATAPGGEPEPHSR-----HREARLGSADKELKS 150  
gi | 27532969 | ref | NP\_079643.2 | ----- 150  
gi | 52345437 | ref | NP\_596877.2 | ----- 150  
gi | 292629808 | ref | XP\_002667585.1 | ----- 150  
gi | 118099631 | ref | XP\_425374.2 | ----- 150  
gi | 24641298 | ref | NP\_572717.1 | ----- 150  
MIAANTCTGGENLMGNGGKTHEPSTPTSDTEVASGTPTELESEIFFVDNRRRQKQIKIQVLCPEGVLRRETBEDDINEQLIRIDDIIGSRVGRRLKRRRGGIISCRNPNVPGQEADSFPDSDNSAVLYIYAYLKKKPLRRVQTLRII 150  
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150

gi | 217272880 | ref | NP\_892010.2 | ----- 300  
gi | 73964995 | ref | XP\_540448.2 | ----- 300  
gi | 194676336 | ref | XP\_876032.3 | ----- 300  
gi | 27532969 | ref | NP\_079643.2 | ----- 300  
gi | 52345437 | ref | NP\_596877.2 | ----- 300  
gi | 292629808 | ref | XP\_002667585.1 | ----- 300  
gi | 118099631 | ref | XP\_425374.2 | ----- 300  
gi | 24641298 | ref | NP\_572717.1 | ----- 300  
GAAATGSAPTAPGTFWOREPRVEVMDPAGGPRGVLPRPCRVLVLLNPRGGKGGKALQFRSHVOPLLAEAEISFTIMLTERRNHARELVRS--EELGRWDALVVMSSGDGLMHEVVVNG-LMERPDWEITAIQKP-LCSLPAGSGNALAAASLNH 300  
GAAAARSPTALGTPRORREPRVEVMDSAGGARSLLRPCRVLVLLNPRGGKGGKALQFRSHVOPLLAEAEISFTIMLTERRNHARELVRA--EDLRRWDALVVMSSGDGLMHEVVVNG-LMERPDWEITAIQKP-LCSLPAGSGNAVAASLNH 300  
GAAAADSVRTAPGTPRORG---EVMDAAGGSRNLLPRPCHVLVLLNPRGGKGGKALQFRSHVOPLLAEAEISFTIMLTERRNHARELVRA--EDLRRWDALVVMSSGDGLMHEVVVNG-LMERPDWEITAIQKP-LCSLPAGSGNALAAASLNH 300  
-----MEPVCEPRGLLPRPCRVLVLLNPRGGKGGKALQFRSHVOPFLAEAEISFTIMLTERRNHARELVCA--EELGHWDALAVMSSGDGLMHEVVVNG-LMERPDWEITAIQKP-LCSLPAGSGNALAAASVNH 300  
-----MQPADCPGRLLPRPCRVLVLLNPRGGKGGKALQFRSHVOPFLAEAEISFTIMLTERRNHARELVCA--EELGHWDALAVMSSGDGLMHEVVVNG-LMERPDWEITAIQKP-LCSLPAGSGNALAAASVNH 300  
-----MVLVLERQNHARELVRS--TDLNQWDALVVMSSGDGLMHEVVVNG-LMERPDWEITAIQKP-LGILPAGSGNALAAASVNH 300  
-----KGAQVTVGLLPRPCQALVLLTPQSGAGRPLDFAVVHPMLADANI 300  
RFRSNDYGVNLQIAEMWHHTIRKHKRRNGSSSPADCGKQLLLILLNPKSGSGKGRLEFQKQVAPLLTAEVQVLDQITHPQWAKEFVTRRDLLTRVSGIVVASGDGLFYEVLNG-LMERMDWRRACRELPLGIIPCGSGNGLAKSVAH 300  
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi | 217272880 | ref | NP\_892010.2 | ----- 450  
gi | 73964995 | ref | XP\_540448.2 | ----- 450  
gi | 194676336 | ref | XP\_876032.3 | ----- 450  
gi | 27532969 | ref | NP\_079643.2 | ----- 450  
gi | 52345437 | ref | NP\_596877.2 | ----- 450  
gi | 292629808 | ref | XP\_002667585.1 | ----- 450  
gi | 118099631 | ref | XP\_425374.2 | ----- 450  
gi | 24641298 | ref | NP\_572717.1 | ----- 450  
YAGYEQVTVNEDLLINCILLCRRLSPMNLSSHHTASGLR--LFSVLSLAWGFIADVLDSEKFRRLGEMRFLGFLRLAALRYRGLAYLPVGRVGSKT-----PASPVV--VQGGPVDHVLVPLEEP----- 450  
YAGYEQVTVNEDLLINCILLCRRLSPMNLSSHHTASGLR--LFSVLSLAWGFIADVLDSEKFRRLGEMRFLGFLRLAALRYRGLAYLPVGRVGSKT-----PSPAVDRQNVQGGPVDHVLVPLEEP----- 450  
YAGYEQVTVKEDLLINCILLCRRLSPMNLSSHHTASGLR--LFSVLSLAWGFIADVLDSEKFRRLGEMRFLGACLRVLAALRYRGLAYLPVGRVGSKT-----GPPSPAL--APQGFADTHVLPLEEP----- 450  
YAGYEQVTVNEDLLINCILLCRRLSPMNLSSHHTASGLR--LFSVLSLAWGFIADVLDSEKFRRLGEMRFLGFLRLAALRYRGLAYLPVGRVGSKT-----PASTLV--QKGPVDHVLVPLEEP----- 450  
YTRASPVWGEDLLINCILLCRRLSPMNLSSHHTASGLR--LFSVLSLAWGFIADVLDSEKFRRLGEMRFLGFLRLAALRYRGLAYLPVGRVGSKT-----PASSLA--QKGPVDHVLVPLEEP----- 450  
YAGNDHVAKKLLINCILLCRRLSPMNLSSHHTASGLR--LFSVLSLAWGFIADVLDSEKFRRLGEMRFLGFLRLAALRYRGLAYLPVGRVGSKT-----STGENL--LNDHLMAPPQGP----- 450  
HCN--EYVEPKPILHALLCMAGKSTPMDVVRVBLARDKHFVMSYFLSVGWGLIADIDIESERLRSIGAQRFLLWALKRLLGLRSYKGRVSVLLGKGGKEPP--VEAARELPAESAAAGIRSLLELNAGFHDLPPEEGEAVLDGEG 450  
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi | 217272880 | ref | NP\_892010.2 | ----- 600  
gi | 73964995 | ref | XP\_540448.2 | ----- 600  
gi | 194676336 | ref | XP\_876032.3 | ----- 600  
gi | 27532969 | ref | NP\_079643.2 | ----- 600  
gi | 52345437 | ref | NP\_596877.2 | ----- 600  
gi | 292629808 | ref | XP\_002667585.1 | ----- 600  
gi | 118099631 | ref | XP\_425374.2 | ----- 600  
gi | 24641298 | ref | NP\_572717.1 | ----- 600  
VPSHWTVVPEDEDFVLVLLALLSHLGSMEFAAPMGRCAAGVMHLFVVRAGVSRAMLLRFLAMEKGRHMEYE-CPVLVY 600  
VPSHWTVVPEQDFVLVLLALLSHLGSMEFAAPMGRCRAGTMHLFVVRAGVSRAMLLRFLAMEKGRHMEYD-CPVLVY 600  
VPPHWTVVPEQDFVLVLLALLSHLADLDFAPMGRCSAGAMHLFVVRAGVSRAMLLRFLAMEKGRHMECH-CPHLVY 600  
VPSHWTVVPEQDFVLVLLVLLHLSSELFAPMGRCEAGVMHLFVVRAGVSRALLRFLAMQKGMHMDL-CPVLVH 600  
VPPHWTVVPEQDFVLVLLVLLHLSSTEMFAAPMGRCEAGVMHLFVVRAGVSRAMLLRFLAMQKGMHMDL-CPVLVH 600  
VPPHWTVVPEEFVVCVYAIQSHLGNLMLMFAARLHDCIHLFVYVAGISRVALLKIFLAMGRGTHLDLN-CPHLHC 600  
ADAIQLDRSVYRQHADSWHSAMRRYAYSLGGPEMRSNRSRMSISQRIEANAFAERVPTGIPPLQMPLLSDDGWICEDGDFVMVHAAYTHLSDDVFFAPESRLDDGLIYLVIIIRGVSRHQLLNFMNLNAGTHLPIGHDPPFKV 600  
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi | 217272880 | ref | NP\_892010.2 | ----- 671  
gi | 73964995 | ref | XP\_540448.2 | ----- 671  
gi | 194676336 | ref | XP\_876032.3 | ----- 671  
gi | 27532969 | ref | NP\_079643.2 | ----- 671  
gi | 52345437 | ref | NP\_596877.2 | ----- 671  
gi | 292629808 | ref | XP\_002667585.1 | ----- 671  
gi | 118099631 | ref | XP\_425374.2 | ----- 671  
gi | 24641298 | ref | NP\_572717.1 | ----- 671  
VPVVAFRLEPKDKGVFAVDGELMVSEAVQGVHPNYLWVMVSGCPEPPPEWPKPQMP-----PPEEPL 671  
VPVVAFRLEPKDKGVFAVDGELMVSEAVQGVHPNYLWVMVSGCPEPPPEWPKPQMP-----SPEEPL 671  
VPVVAFRLEPKDKGVFAVDGELMVSEAVQGVHPNYLWVMVSGCPEPPPEWPKPQMP-----SPEEPL 671  
VPVVAFRLEPRSQRGVFSVDGELMVCEAVQGVHPNYLWVMVSGCRDAPSQRDRSRGP-----PPEEPE 671  
VPVVAFRLEPRNRQGVFSVDGELMVCEAVQGVHPNYLWVMVSGSDSPSQRDRSRGP-----PPEEPE 671  
VPVVAFRLEPRGSAGIMTVDGEALACEVQGVHPNYLWVMVSGCRDAPSQRDRSRGP-----PPEEPE 671  
VPCRAFRLEPRSSSDGILLVDGERVEYGPQAEVMPGLINVMITGG----- 671  
.....610.....620.....630.....640.....650.....660.....670

