

gi | 14589916 | ref | NP\_116586.1 | MIVLLLFALLWMV EGVFSQLHYTVQEEQEHGTFVGNIAEDLGLDITKLSARGFOTVPSRTPYLDLNLLETGVLVNEKIDREQICKQSPSCVLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 150  
gi | 114596043 | ref | XP\_001134989.1 | MIVLLLFALLWMV EGVFSQLHYTVQEEQEHGTFVGNIAEDLGLDITKLSARGFOTVPSRTPYLDLNLLETGVLVNEKIDREQICKQSPSCVLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 150  
gi | 42476150 | ref | NP\_035173.2 | MIVLLLFALLWMV DGVFSQLHYTVQEEQEHGTFVGNIAEDLGLDITKLSARRFOTVANSRTPYLDLNLLETGVLVNEKIDREQICKQSPSCVLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 150  
gi | 76631686 | ref | XP\_869875.1 | MIVLLLFALLWMV EGVFSQLHYTVQEEQEHGTFVGNIAEDLGLDITKLSARGFOTVPSRTPYLDLNLLETGVLVNEKIDREQICKQSPSCVLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 150  
gi | 109464821 | ref | XP\_342243.3 | MIVLLLFALLWMV DGVFSQLHYTVQEEQEHGTFVGNIAEDLGLDITKLSARRFOTVANSRTPYLDLNLLETGVLVNEKIDREQICKQSPSCVLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 150  
gi | 47551309 | ref | NP\_999837.1 | MIVLFLFASLWMLGALGQLHYTVQEEQEHGTFVGNIAEDLGLDITKLSARRFOTASNSRSPYLELNLLETGVLVNEKIDREQICKQSPSCVLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 150  
gi | 33504549 | ref | NP\_878305.1 | --MVFLLLLCLADGVVSGIRYVPEAEAHGTFVGNIAEDLGLDITKLSRRRFOVPSRTPYLVNLENGVLFVNEKIDRERI CKQAS CLLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 148  
gi | 47086889 | ref | NP\_997736.1 | --MILFLFFIILDGGLSGLHFVPEEQERGVVGNIAEDLGLDITKLSARRFOTVPSRTPYLVNLENGVLFVNEKIDRERI CRQTVPCLLHLEVFLENPLELFRVEIEVLDINDNPPSPFPEPDLTVEISESATPGTRFPLESAFDDP 148  
1 .....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi | 14589916 | ref | NP\_116586.1 | VGTNSLRDYEITPNSYFSLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGGGGGVGE GGGGGGGAGLPPQOORTGALLTIRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 300  
gi | 114596043 | ref | XP\_001134989.1 | VGTNSLRDYEITPNSYFSLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGGGGGVGE GGGGGGGAGLPPQOORTGALLTIRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 300  
gi | 42476150 | ref | NP\_035173.2 | VGTNSLRDYEITPNSYFSLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGGGGGVGE GGGGGGGAGLPPQOORTGALLTIRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 300  
gi | 76631686 | ref | XP\_869875.1 | VGTNSLRDYEITPNSYFSLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGGGGGVGE GGGGGGGAGLPPQOORTGALLTIRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 300  
gi | 109464821 | ref | XP\_342243.3 | VGTNSLRDYEITPNSYFSLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGGGGGVGE GGGGGGGAGLPPQOORTGALLTIRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 250  
gi | 47551309 | ref | NP\_999837.1 | VGTNSLRDYEITPNSYFSLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGQP-----QORTGALLTIRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 282  
gi | 33504549 | ref | NP\_878305.1 | VGSNALRTVDITITNRYFYLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGQP-----PRTGALLVLRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 279  
gi | 47086889 | ref | NP\_997736.1 | VGTNALSTYAITITNRYFYLDVOTGGDGNRFAELVLEKPLDREQAVHRYVLTAVDGGQP-----QRTGALLVLRVLDSDNVPVAFDQPVYTVSLPENSPPGTLVLIQNAIDPDEGONGEVVYFSSHSI SPAREL 279  
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi | 14589916 | ref | NP\_116586.1 | FGLSPRTGRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 447  
gi | 114596043 | ref | XP\_001134989.1 | FGLSPRTGRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 447  
gi | 42476150 | ref | NP\_035173.2 | FGLSPRTGRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 447  
gi | 76631686 | ref | XP\_869875.1 | FGLSPRTGRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 447  
gi | 109464821 | ref | XP\_342243.3 | FGLSPRTGRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 397  
gi | 47551309 | ref | NP\_999837.1 | FGIAPRTGRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 432  
gi | 33504549 | ref | NP\_878305.1 | FDIARTGRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 426  
gi | 47086889 | ref | NP\_997736.1 | FNIDSRTRLEVS GELDYEE SPYQVYVQAKDLGPNVAPARCKVLRVLDANDNAPEIIFSFTVKEAVSEGAAPGTVVALFVSDRDSSENGVQVCELLG-DVPPFRLKSSFKNYITIVTEAPLDREA--GDSYTLTVVARDRGEFALSTSK 426  
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi | 14589916 | ref | NP\_116586.1 | SIQVQVSDVNDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 596  
gi | 114596043 | ref | XP\_001134989.1 | SIQVQVSDVNDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 596  
gi | 42476150 | ref | NP\_035173.2 | SIQVQVSDVNDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 596  
gi | 76631686 | ref | XP\_869875.1 | SIQVQVSDVNDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 596  
gi | 109464821 | ref | XP\_342243.3 | SIQVQVSDVNDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 546  
gi | 47551309 | ref | NP\_999837.1 | SIQVRVSDVNDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 572  
gi | 33504549 | ref | NP\_878305.1 | SIKVHVSDENDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 572  
gi | 47086889 | ref | NP\_997736.1 | SIKVHVSDENDNAPRFQCPVYDYYVTEENNVP GAYIYAVSAADRDEGANAGLAYSILECQIQGMSVFTYVNSINSENGLYALRSFDYEQIKDFSFOVEARDAGS-FOALAGNATVNIIVDQNDNAPAVLPGRNGTPAREVLPRAEFP 572  
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi | 14589916 | ref | NP\_116586.1 | GYLLRVAAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 737  
gi | 114596043 | ref | XP\_001134989.1 | GYLLRVAAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 737  
gi | 42476150 | ref | NP\_035173.2 | GYLLRVAAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 737  
gi | 76631686 | ref | XP\_869875.1 | GYLLRVAAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 737  
gi | 109464821 | ref | XP\_342243.3 | GYLLRVAAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 687  
gi | 47551309 | ref | NP\_999837.1 | GYLVSRVAAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 731  
gi | 33504549 | ref | NP\_878305.1 | GYLVTRIVAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 701  
gi | 47086889 | ref | NP\_997736.1 | GYLVTRIVAVDADDGGENARLTYSIVRGNEMNLFMRDWRTEGLRTRARRVPAKRDPQRPYELVIEVRDHGPPLSSTAILLVQLVDGAVEPQGGGGS-----GGGSGEHLRPSRSGGGETSLDLILLIILGVSFIFFLAMIVLA 701  
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



