

gi | 4826673 | ref | NP\_004923.1 | ---MRTYRYFLLFLFWGQPPYPLSTPLSKRTSGFPAKRALELSG-NSKNELNRSKRSMWVNOFFLLEEYTGSDYQVVGKLSHSDDRGDGSLKYILSGDGAGD 150  
gi | 114600839 | ref | XP\_517822.2 | ---MRTYRYFLLFLFWGQPPYPLSTPLSKRTSGFPAKRALELSG-NSKNELNRSKRSMWVNOFFLLEEYTGSDYQVVGKLSHSDDRGDGSLKYILSGDGAGD 150  
gi | 110347562 | ref | NP\_031692.2 | ---MRTYRYFLLFLFWGQPPYPLSTPLSKRTSGFPAKRALELSA-NSRNELSRSKRSMWVNOFFLLEEYTGSDYQVVGKLSHSDDRGDGSLKYILSGDGAGD 150  
gi | 25453400 | ref | NP\_037059.1 | ---MRTYRYFLLFLFWGQPPYPLSTPLSKRTSGFPAKRALELSA-NSRNELSRSKRSMWVNOFFLLEEYTGSDYQVVGKLSHSDDRGDGSLKYILSGDGAGD 150  
gi | 73954373 | ref | XP\_536515.2 | MHSSEKMISESQAQNIKEERRNDAGNSAVKVDTSRVRPTQRLDCVIRMTYRYFLLFLFWGQPPYPLSTPLSKRTSGFPAKRALELSG-NSKNELNRSKRSMWVNOFFLLEEYTGSDYQVVGKLSHSDDRGDGSLKYILSGDGAGD 150  
gi | 77736223 | ref | NP\_001029812.1 | ---MRTYRYFLLFLFWGQPPYPLSTPLSKRTSGFPAKRALELSG-NSKNELNRSKRSMWVNOFFLLEEYTGSDYQVVGKLSHSDDRGDGSLKYILSGDGAGD 150  
gi | 48976113 | ref | NP\_001001758.1 | ---MRTYHCFWLLFWAGQPHQFSLPLSKRTSGFPEKEKVLVLSG-NSRRDLRSKRSMWVNOFFLLEEYTGSDYQVVGKLSHSDDRGDGSLKYILSGDGAGD 150  
gi | 61806606 | ref | NP\_001013538.1 | ---MRTW--IVLLWCAHISVNAIALSRG--PVRKRSKTEIGRQDKGLLRSSKRGWVNOFFLLEEYTGSEHQYIYIYKLSHSDDRGDGSLKYILSGDGAGD 150



gi | 4826673 | ref | NP\_004923.1 | LFIINENTGDIQATKRLDREKPVYILRAQAINRRRTGRVPEPESEFIKIHINDNEPIFTKEVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIAL--LNMRENREOYQVVIQAKDMGGQMG 300  
gi | 114600839 | ref | XP\_517822.2 | LFIINENTGDIQATKRLDREKPVYILRAQAINRRRTGRVPEPESEFIKIHINDNEPIFTKEVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIAL--LNMRENREOYQVVIQAKDMGGQMG 300  
gi | 110347562 | ref | NP\_031692.2 | LFIINENTGDIQATKRLDREKPVYILRAQAINRRRTGRVPEPESEFIKIHINDNEPIFTKEVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIAL--LNMRENREOYQVVIQAKDMGGQMG 300  
gi | 25453400 | ref | NP\_037059.1 | LFIINENTGDIQATKRLDREKPVYILRAQAINRRRTGRVPEPESEFIKIHINDNEPIFTKEVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIAL--LNMRENREOYQVVIQAKDMGGQMG 300  
gi | 73954373 | ref | XP\_536515.2 | LFIINENTGDIQATKRLDREKPVYILRAQAINRRRTGRVPEPESEFIKIHINDNEPIFTKEVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIAL--LNMRENREOYQVVIQAKDMGGQMG 300  
gi | 77736223 | ref | NP\_001029812.1 | LFIINENTGDIQATKRLDREKPVYILRAQAINRRRTGRVPEPESEFIKIHINDNEPIFTKEVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIAL--LNMRENREOYQVVIQAKDMGGQMG 300  
gi | 48976113 | ref | NP\_001001758.1 | LFIINENTGDIQATKRLDREKPVYILRAQAINRRRTGRVPEPESEFIKIHINDNEPIFTKEVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIAL--LNMRENREOYQVVIQAKDMGGQMG 300  
gi | 61806606 | ref | NP\_001013538.1 | IFVIDANSGLHATRSLDREKPVYSYLRQAVNRKTIIGIPLPEPEFIVIKLHINDNEPKFDKVVYATVPEMSDVGTFVVOVQATDADDDPTYGNSAKVVYSILOGOPYFVSEETGIIKIALGPTDMREOREHYQVVIQAKDMGGQMG 300



gi | 4826673 | ref | NP\_004923.1 | LSGTTIVNITLADVNDNPPRFPOSTYQFKIPESPPGPTPIGRKASDADVGENAEIYSITDEGLDMDFDVIIDQETQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450  
gi | 114600839 | ref | XP\_517822.2 | LSGTTIVNITLADVNDNPPRFPOSTYQFKIPESPPGPTPIGRKASDADVGENAEIYSITDEGLDMDFDVIIDQETQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450  
gi | 110347562 | ref | NP\_031692.2 | LSGTTIVNITLADVNDNPPRFPOSTYQFKIPESPPGPTPIGRKASDADVGENAEIYSITDEGLDMDFDVIIDQETQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450  
gi | 25453400 | ref | NP\_037059.1 | LSGTTIVNITLADVNDNPPRFPOSTYQFKIPESPPGPTPIGRKASDADVGENAEIYSITDEGLDMDFDVIIDQETQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450  
gi | 73954373 | ref | XP\_536515.2 | LSGTTIVNITLADVNDNPPRFPOSTYQFKIPESPPGPTPIGRKASDADVGENAEIYSITDEGLDMDFDVIIDQETQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450  
gi | 77736223 | ref | NP\_001029812.1 | LSGTTIVNITLADVNDNPPRFPOSTYQFKIPESPPGPTPIGRKASDADVGENAEIYSITDEGLDMDFDVIIDQETQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450  
gi | 48976113 | ref | NP\_001001758.1 | LSGTTIVNITLADVNDNPPRFPOSTYQFRAPESPPGPTPIGRKASDADVGENAEIYSITDEGLDMDFDVIIDQETQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450  
gi | 61806606 | ref | NP\_001013538.1 | LIGSTIVNITLADVNDNPPRFPOSTYQGIYQFVPELTKVGSVGRIEAEDADIGRNAEMSYSITGGDSLDFVDISDRNTQEGIIYVKKLLDFEKKKVYTLKVEASNPHVPRFLYLGPFKDSATVRIIVVDDVDEPPVFSKLAAYILQIREDAQ 450



gi | 4826673 | ref | NP\_004923.1 | INTTIGSVTAQDPDAARNPVKYSVDRHTMDRIFNIDSNGSIFTSKLLDRETLWENIIVIAEIN--NPKQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLHAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600  
gi | 114600839 | ref | XP\_517822.2 | INTTIGSVTAQDPDAARNPVKYSVDRHTMDRIFNIDSNGSIFTSKLLDRETLWENIIVIAEIN--NPKQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLHAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600  
gi | 110347562 | ref | NP\_031692.2 | INTTIGSVTAQDPDAARNPVKYSVDRHTMDRIFNIDSNGSIFTSKLLDRETLWENIIVIAEIN--NPKQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLRAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600  
gi | 25453400 | ref | NP\_037059.1 | INTTIGSVTAQDPDAARNPVKYSVDRHTMDRIFNIDSNGSIFTSKLLDRETLWENIIVIAEIN--NPKQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLHAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600  
gi | 73954373 | ref | XP\_536515.2 | INTTIGSVTAQDPDAARNPVKYSVDRHTMDRIFNIDSNGSIFTSKLLDRETLWENIIVIAEITQLDNPQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLRAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600  
gi | 77736223 | ref | NP\_001029812.1 | INTTIGSVTAQDPDAARNPVKYSVDRHTMDRIFNIDSNGSIFTSKLLDRETLWENIIVIAEIN--NPKQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLRAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600  
gi | 48976113 | ref | NP\_001001758.1 | INSVIGTVTAQDPDAARNPVKYSVDRHTMDRIFNIDSNGSIFTSKLLDRETLWENIIVIAEIN--NPKQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLHAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600  
gi | 61806606 | ref | NP\_001013538.1 | VGMIGSVSAVDPDMRSEFVKYSIDRHTMDRIFNIDSNGSIFLQKPLDREFAWENIIVIAEIN--NPKQSSRVPLVIKVLVDVNDNAPEFAEFYETFVCEKAKADOLIQTLHAVDKDDPYSGHQFSSFLAPEAASGSNFTIQDNK 600



gi | 4826673 | ref | NP\_004923.1 | NTAGILTRKNGYNRHEMSTYLLPVVINDNDYVQSSSTGVTVTRVACDHHGNMQSCHAEALIHPTGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750  
gi | 114600839 | ref | XP\_517822.2 | --VSTVIHLSYNRHEMSTYLLPVVINDNDYVQSSSTGVTVTRVACDHHGNMQSCHAEALIHPTGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750  
gi | 110347562 | ref | NP\_031692.2 | NTAGILTRKNGYNRHEMSTYLLPVVINDNDYVQSSSTGVTVTRVACDHHGNMQSCHAEALIHPTGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750  
gi | 25453400 | ref | NP\_037059.1 | NTAGILTRKNGYNRHEMSTYLLPVVINDNDYVQSSSTGVTVTRVACDHHGNMQSCHAEALIHPTGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750  
gi | 73954373 | ref | XP\_536515.2 | NTAGILTRKNGYNRHEMSTYLLPVVINDNDYVQSSSTGVTVTRVACDHHGNMQSCHAEALIHPTGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750  
gi | 77736223 | ref | NP\_001029812.1 | NTAGIFTRKNGYNRHEMSTYLLPVVINDNDYVQSSSTGVTVTRVACDHHGNMQSCHAEALIHPTGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750  
gi | 48976113 | ref | NP\_001001758.1 | NTAGIFTRKIRYNRHEMSTYLLPVVINDNDYVQSSSTGVTVTRVACDHRGKMLSCNABALIHPTGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750  
gi | 61806606 | ref | NP\_001013538.1 | NTAGIFTRRSFGRMHKSHTLVAIVVSDGHPFQSSSTGTLTRVCTCDRDNMEMCMCAALSSAGLSTGALVAILLCIVILLVTVVLFALRRQRKKEPLIISKEDIRDNIIVSYNDEGGGEEDTQAFDIGILRNPEAIDNKLRRDIVP 750



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gi |4826673|ref|NP_004923.1| -EALFLP---RRTPARDNTDVRDFINQRLKENDTDPAPPYDSLATYAYEGTGSVADSLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900
gi |114600839|ref|XP_517822.2| -EALFLP---RRTPARDNTDVRDFINQRLKENDTDPAPPYDSLATYAYEGTGSVADSLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900
gi |110347562|ref|NP_031692.2| -EALFLP---RRTPARDNTDVRDFINQRLKENDTDPAPPYDSLATYAYEGTGSVADSLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900
gi |25453400|ref|NP_037059.1| -EALFLP---RRTPARDNTDVRDFISQRLKENDTDPAPPYDSLATYAYEGTGSVADSLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900
gi |73954373|ref|XP_536515.2| -EALFLP---RRTPARDNTDVRDFISQRLKENDTDPAPPYDSLATYAYEGTGSVADSLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900
gi |77736223|ref|NP_001029812.1| -EALFLP---RRTPARDNTDVRDFINQRLKENDTDPAPPYDSLATYAYEGAGSVAASLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900
gi |48976113|ref|NP_001001758.1| -EALFLP---RRTPARDNTDVRDFINQRLKENDTDPAPPYDSLATYAYEGAGSVAASLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900
gi |61806606|ref|NP_001013538.1| -EALFLP---RRTPARDNTDVRDFINQRLKENDTDPAPPYDSLATYAYEGAGSVAASLSSLESVTTDADQDYDYLSDWGPRFKKLADMYGGVDSKDSDS----- 900

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gi |4826673|ref|NP_004923.1| ----- 1050
gi |114600839|ref|XP_517822.2| ----- 1050
gi |110347562|ref|NP_031692.2| ----- 1050
gi |25453400|ref|NP_037059.1| ----- 1050
gi |73954373|ref|XP_536515.2| ----- 1050
gi |77736223|ref|NP_001029812.1| GDEGPPSSDASFKIMGVERTNEFKYGGRRCTASRLKSRISQARVFAKKPPPEPPIINLREELRNGSSKSVSVALSSAPSNNGGLNPTLYWIPDRIDLGTFLVMTSIFTQIITNKVEMEPVCGPHQKRCHTTQGLKLRLYGRGVLYTENT 1050
gi |48976113|ref|NP_001001758.1| ----- 1050
gi |61806606|ref|NP_001013538.1| ----- 1050
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gi |4826673|ref|NP_004923.1| ----- 1062
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gi |25453400|ref|NP_037059.1| ----- 1062
gi |73954373|ref|XP_536515.2| EAWGQKEQIGSI 1062
gi |77736223|ref|NP_001029812.1| ----- 1062
gi |48976113|ref|NP_001001758.1| ----- 1062
gi |61806606|ref|NP_001013538.1| ----- 1062
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