

gi |4502147|ref|NP\_001633.1| MAATGTAATAAATGRLLLVLLGLTAPALALAGYIEALAANAGTGFVAEAPQIAMFCG--KLNMHVNIOTGKWEPPDPTGKSCFEKKEEVLQYCOEMYPELQITNVMEANQRVSDNWCRRDKKCK--SRFVTPFKCLVGEFVSDVLLV 145  
gi |114641249|ref|XP\_001155152.1| MAATGTAATAAATGRLLLVLLGLTAPALALAGYIEALAANAGTGFVAEAPQIAMFCG--KLNMHVNIOTGKWEPPDPTGKSCFEKKEEVLQYCOEMYPELQITNVMEANQRVSDNWCRRDKKCK--SRFVTPFKCLVGEFVSDVLLV 145  
gi |73954451|ref|XP\_856494.1| MAAPGTAATAAATGKLLVLLGLTAPAAALAGYIEALAANAGTGFVAEAPQIAMFCG--KLNMHVNIOTGKWEPPDPTGKSCFEKKEEVLQYCOEMYPELQITNVMEANQRVSDNWCRRDKKCK--SRFVTPFKCLVGEFVSDVLLV 145  
gi |119919082|ref|XP\_001251235.1| MAATGTAATAAATGKLLVLLGLTAPAAALAGYIEALAASAGTGFVAEAPQIAMFCG--KLNMHVNIOTGRWEPDPGSGTOSCFGKKEEVLQYCOEMYPELQITNVMEANQRVSDNWCRRDKKCK--SHIVIPFKCLVGEFVSDVLLV 145  
gi |6753094|ref|NP\_033821.1| MAATGTAATAAATGKLLVLLGLTAPAAALAGYIEALAANAGTGFVAEAPQIAMFCG--KLNMHVNIOTGKWEPPDPTGKSCGLGKKEEVLQYCOEMYPELQITNVMEANQPVNIDSWCRRDKKCK--SHIVIPFKCLVGEFVSDVLLV 145  
gi |109484147|ref|XP\_343514.3| -----MLKWARVQKASRASHGSBEKRGAGLPLAQQPGRLLWDCDDRSYSYVEVSTNQQTMTVADRITKVSCKEFYMSGFVGLY--LLICPPSPQTLPHFPVKPKRKAAMSLR--LLAAFPGALVGEFVSDVLLV 129  
gi |189531910|ref|XP\_001922748.1| -----MGSVPAVSVLILAIIVPFLAGYIEALAANAGTGFVAEAPQVAMFCG--KLNMHVNIOTGRWEPDPGSGKTCVGGKKEEVLQYCOEMYPELQITNVMEANQPVKIEWCKKDKKCKGHAHIVVFKCLVGEFVSDVLLV 136



gi |4502147|ref|NP\_001633.1| PKKCFHFHKERMEVCENHQHWHVTVVKEACLTCGMMLYSYGMMLPCGVDFPHGTEYVCCPOTKIIG--SYVKEEEEEDEEEDEEEDYDVYKSEFPTEADLEDFTEAAVD---EDDEDEEEGER--VVEDRDYIIDFKGDDYN 284  
gi |114641249|ref|XP\_001155152.1| PEKCLFFHKERMEVCENHQHWHMVMVKEACLTCGMMLYSYGMMLPCGVDFPHGTEYVCCPOTKIIG--SYVKEEEEE--EEEEEEEEEDYDVYKSEFPTEADLEDFTEAAVD---EDDEDEEEGER--VVEDRDYIIDFKGDDYN 282  
gi |73954451|ref|XP\_856494.1| PEKCFHFHKERMEVCENHQHWHVTVVKEACLTCGMMLYSYGMMLPCGVDFPHGTEYVCCPOTKIIG--SYVKEEEEEDEEEDYDVYKSEFPTEADLEDFTEAAVD---EDDEDEEEGER--VVEDRDYIIDFKGDDYN 284  
gi |119919082|ref|XP\_001251235.1| PEKCLFFHKERMEVCENHQHWHVTVVKEACLTCGMMLYSYGMMLPCGVDFPHGTEYVCCPOTKIIG--SYVKEEEEEDEEEDYDVYKSEFPTEADLEDFTEAAVD---EDDEDEEEGER--VVEDRDYIIDFKGDDYN 288  
gi |6753094|ref|NP\_033821.1| PDKCFHFHKERMEVCENHQHWHVTVVKEACLTCGMMLYSYGMMLPCGVDFPHGTEYVCCPOTKIIG--SYVKEEEEEDEEEDYDVYKSEFPTEADLEDFTEAAVD---EDDEDEEEGER--VVEDRDYIIDFKGDDYN 284  
gi |109484147|ref|XP\_343514.3| PDKCFHFHKERMEVCENHQHWHVTVVKEACLTCGMMLYSYGMMLPCGVDFPHGTEYVCCPOTKIIG--SYVKEEEEEDEEEDYDVYKSEFPTEADLEDFTEAAVD---EDDEDEEEGER--VVEDRDYIIDFKGDDYN 270  
gi |189531910|ref|XP\_001922748.1| PEKCFHFHKERMEVCENHQHWHVTVVKEACLTCGMMLYSYGMMLPCGVDFPHGTEYVCCPOTKIIG--SYVKEEEEEDEEEDYDVYKSEFPTEADLEDFTEAAVD---EDDEDEEEGER--VVEDRDYIIDFKGDDYN 286



gi |4502147|ref|NP\_001633.1| EENPTEPG---SDGTSMSDKEITHDVKAVCSQEAAMGCPRAVMPRWYFDLSKGGKCVRFIYGGCGGRRNFFSEEDYCMVAVCKAM-----IPPPLPPTNDVDVYFETSADDNEHARFQKAKEOLEIRHRNRMDRVKKEWEEAELQAKN 421  
gi |114641249|ref|XP\_001155152.1| EENPTEPG---SDGTSMSDKEITHDVKAVCSQEAAMGCPRAVMPRWYFDLSKGGKCVRFIYGGCGGRRNFFSEEDYCMVAVCKAM-----IPPPLPPTNDVDVYFETSADDNEHARFQKAKEOLEIRHRNRMDRVKKEWEEAELQAKN 419  
gi |73954451|ref|XP\_856494.1| EENPTEPG---SDGTSMSDKEITHDVKAVCSQEAAMGCPRAVMPRWYFDLSKGGKCVRFIYGGCGGRRNFFSEEDYCMVAVCKAM-----IPPPLPPTNDVDVYFETSADDNEHARFQKAKEOLEIRHRNRMDRVKKEWEEAELQAKN 431  
gi |119919082|ref|XP\_001251235.1| EENPTEPG---SDGTSMSDKEITHDVKAVCSQEAAMGCPRAVMPRWYFDLSKGGKCVRFIYGGCGGRRNFFSEEDYCMVAVCKAM-----IPPPLPPTNDVDVYFETSADDNEHARFQKAKEOLEIRHRNRMDRVKKEWEEAELQAKN 425  
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gi |109484147|ref|XP\_343514.3| EENPTEPG---SDGTSMSDKEITHDVKAVCSQEAAMGCPRAVMPRWYFDLSKGGKCVRFIYGGCGGRRNFFSEEDYCMVAVCKAM-----IPPPLPPTNDVDVYFETSADDNEHARFQKAKEOLEIRHRNRMDRVKKEWEEAELQAKN 407  
gi |189531910|ref|XP\_001922748.1| EENPTEPG---SDGTSMSDKEITHDVKAVCSQEAAMGCPRAVMPRWYFDLSKGGKCVRFIYGGCGGRRNFFSEEDYCMVAVCKAM-----IPPPLPPTNDVDVYFETSADDNEHARFQKAKEOLEIRHRNRMDRVKKEWEEAELQAKN 427



gi |4502147|ref|NP\_001633.1| LPKAERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRRLHTIRHYQHVLAVDPEKAAQMSQVMTLHVIEERRNQSLSLLYKVPVVAEQIIEIDELLOQRAD 571  
gi |114641249|ref|XP\_001155152.1| LPKAERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRRLHTIRHYQHVLAVDPEKAAQMSQVMTLHVIEERRNQSLSLLYKVPVVAEQIIEIDELLOQRAD 569  
gi |73954451|ref|XP\_856494.1| LPKAERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRRLHTIRHYQHVLAVDPEKAAQMSQVMTLHVIEERRNQSLSLLYKVPVVAEQIIEIDELLOQRAD 581  
gi |119919082|ref|XP\_001251235.1| LPKAERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRRLHTIRHYQHVLAVDPEKAAQMSQVMTLHVIEERRNQSLSLLYKVPVVAEQIIEIDELLOQRAD 575  
gi |6753094|ref|NP\_033821.1| LPKTERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRRLHTIRHYQHVLAVDPEKAAQMSQVMTLHVIEERRNQSLSLLYKVPVVAEQIIEIDELLOQRAD 515  
gi |109484147|ref|XP\_343514.3| LPKAERQTLIQHFQAMVKALEKEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRRLHTIRHYQHVLAVDPEKAAQMSQVMTLHVIEERRNQSLSLLYKVPVVAEQIIEIDELLOQRAD 557  
gi |189531910|ref|XP\_001922748.1| LPKAERQTLIQHFQAMVESLEEEAASEKQQLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRRLHTIRHYQHVLAVDPEKAAQMSQVMTLHVIEERRNQSLSLLYKVPVVAEQIIEIDELLOQRAD 577



gi |4502147|ref|NP\_001633.1| MDOFTASISETPVDVVRVSSSESEIIPPFH--PFHPPFALPENEDTQPELYHPMKK-----GSGVGEODGGLIGAEKVINSKNKVDENMVVIDETLDVKEMIFN--AERVGGLEEEEPVGLPREDFSLSSSALIGLLVIA 702  
gi |114641249|ref|XP\_001155152.1| MDOFTASISETPVDVVRVSSSESEIIPPFH--PFHPPFALPENEDTQPELYHPMKKARHISLPELVSRRDPPGSGVGEODGGLIGAEKVINSKNKVDENMVVIDETLDVKEMIFN--AERVGGLEEEEPVGLPREDFSLSSSALIGLLVIA 716  
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gi |119919082|ref|XP\_001251235.1| MDOFTSSISENPVDVVRVSSSESEIIPPFH--SLHPPFSLPENEDTQPELYHPMKK-----GSGVGEODGGLIGAEKVINSKNKVDENMVVIDETLDVKEMIFN--AERVGGLEEEEPVGLPREDFSLSSSALIGLLVIA 706  
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gi |109484147|ref|XP\_343514.3| MDOFTSSISENPVDVVRVSSSESEIIPPFH--PFHPPFALPENEDTQPELYHPMKK-----GSGVGEODGGLIGAEKVINSKNKVDENMVVIDETLDVKEMIFN--AERVGGLEEEEPVGLPREDFSLSSSALIGLLVIA 688  
gi |189531910|ref|XP\_001922748.1| MDOFTSSISENPVDVVRVSSSESEIIPPFH--PFHPPFALPENEDTQPELYHPMKK-----GSGVGEODGGLIGAEKVINSKNKVDENMVVIDETLDVKEMIFN--AERVGGLEEEEPVGLPREDFSLSSSALIGLLVIA 703



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*****:*****:***:***:*****:*****:*****:*****:*****:*****
gi |4502147|ref|NP_001633.1| VAIAIVIVISLVMLRKRQYGTIISHGIVEVDPMLTPEERHLNKMONGYENPTYKYLEQMOI 763
gi |114641249|ref|XP_001155152.1| VAIAIVIVISLVMLRKRQYGTIISHGIVEVDPMLTPEERHLNKMONGYENPTYKYLEQMOI 777
gi |73954451|ref|XP_856494.1| VAIAIVIVISLVMLRKRQYGTIISHGIVEVDPMLTPEERHLNKMONGYENPTYKYLEQMOI 773
gi |119919082|ref|XP_001251235.1| VAIAITIVISLVMLRRRQYGSISHGIVEVDPMLTPEERHLSKMONHGYENPTYKYLEQMOI 767
gi |6753094|ref|NP_033821.1| VAIAIVIVISLVMLRKRQYGTIISHGIVEVDPMLTPEERHLNKMONGYENPTYKYLEQMOI 695
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gi |189531910|ref|XP_001922748.1| VAIAIVIVISLVLLRKRQYGTIISHGIVEVDPMLTPEERHLSKMONHGYENPTYKYLEQMOI 764
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