

gi | 23943920 | ref | NP\_077734.1 | MSFIDPYQHIIIVEHOYSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 114568449 | ref | XP\_001165694.1 | MSFIDPYQHIIIVEHOYSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 6679369 | ref | NP\_032895.1 | MSFIDPYQHIIIVEHOYSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 19424224 | ref | NP\_598235.1 | MSFIDPYQHIIIVEHOYSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 115497134 | ref | NP\_001069332.1 | MSFIDPYQHIIIVEHSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 73961231 | ref | XP\_537170.2 | MSFIDPYQHIIIVEHOYSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 45382223 | ref | NP\_990754.1 | MSFIDPYQHIIIVEHOYSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 18858457 | ref | NP\_571370.1 | -----MSNIIVEHOYSHKFTVVVLRATKVTKGFAGDMLDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
gi | 68395510 | ref | XP\_687485.1 | -----MS-----PKELSEKCV-----MDTPDPYVELFISTTPDSRKRTRHFNDINPVWNETFEFILDPNQENVLEITLMDANYVMEDETLGATFPVSSMKVGEKKEVVPFIFNQVTEMVLEMSLEVCSPDLRFSMAL 150  
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150



gi | 23943920 | ref | NP\_077734.1 | CDQEKTFROQRKEHIRESMKLLGPKNS EGLHSA-RDVPVVAIILGSGGFRAMVFGSGVMKALYESGILDCAITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 114568449 | ref | XP\_001165694.1 | CDQEKTFROQRKEHIRESMKLLGPKNS EGLHSA-RDVPVVAIILGSGGFRAMVFGSGVMKALYESGILDCAITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 6679369 | ref | NP\_032895.1 | CDQEKTFROQRKENIKENMKLLGPKNS EGLYST-RDVPVVAIILGSGGFRAMVFGSGVMKALYESGILDCAITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 19424224 | ref | NP\_598235.1 | CDQEKTFROQRKENIKENMKLLGPKNS EGLYST-RDVPVVAIILGSGGFRAMVFGSGVMKALYESGILDCAITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 115497134 | ref | NP\_001069332.1 | CDQEKAFROQRKENIKENMKLLGPKNS EGLHST-RDVPVVAIILGSGGFRAMVFGSGVMKALYESGILDCAITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 73961231 | ref | XP\_537170.2 | CDQEKAFROQRKENIKENMKLLGPKNS EGLCST-RDVPVVAIILGSGGFRAMVFGSGVMKALYESGILDCAITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 45382223 | ref | NP\_990754.1 | CDQEKKFRQQRKDNIMLSKFLGPKNS EKLNTLS-RDVPVVAIILGSGGFRAMVFGSGVMKALYESGILDCAITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 18858457 | ref | NP\_571370.1 | CDQEKLFQTRRRDRIKLLKLMENPRFLPSSPREVPTTALILGSGGFRAMVFGSGVMKALYESGVDFCATYIAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
gi | 68395510 | ref | XP\_687485.1 | CPKEKLVRRHRDKVMLAIKLLNIEKPS SLPSCSPHEVPIAVILGSGGFRAMVFGSGVMKALYESGVLCVITYAGLSGSTWYMTLSYHPDFPEKGPPEINEELMKNVSHNPLLLLPQVKRYVESLWKKKSSGQPVTFIDIFGMLI 300  
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300



gi | 23943920 | ref | NP\_077734.1 | GETLIHNRMTTLLSSLKEKVNIAOCPLPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMAPDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDESHEPKGTEN 450  
gi | 114568449 | ref | XP\_001165694.1 | GETLIHNRMTTLLSSLKEKVNIAOCPLPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMAPDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDESHEPKGTEN 450  
gi | 6679369 | ref | NP\_032895.1 | GETLIQNRMSTLLSSLKEKVNIAOCPLPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMAPDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDESHEPKGTEN 450  
gi | 19424224 | ref | NP\_598235.1 | GETLIQNRIPTLLSSLKEKVNIAOCPLPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMPTDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDEDAQPKGTEN 450  
gi | 115497134 | ref | NP\_001069332.1 | GETLIHNRMTTLLSSLKEKVNIAOCPLPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMAPDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDESHEPKGTEN 450  
gi | 73961231 | ref | XP\_537170.2 | GETLIHNRMTTLLSSLKEKVNIAOCPLPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMAPDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDEDETPKGTEN 450  
gi | 45382223 | ref | NP\_990754.1 | GETLIHNRMTTLLSDMKVSEAOALPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMSPDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDESHEPKGTEN 450  
gi | 18858457 | ref | NP\_571370.1 | GETLIHNRMTTLLSDMKVSEAOALPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMSPDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDESHEPKGTEN 450  
gi | 68395510 | ref | XP\_687485.1 | GETLIHNRMTTLLSDMKVSEAOALPLPLFTCLHVKVPDVELMFADVWFVSPYEIGMAYGTFMPTDLFGSKFFMGTVVKKYENPLHFLMGVWGSAFSILFNRVLGVSGSQSRGSTMEEELNITAKHIVSNDS SDEDETPKGTEN 450  
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450



gi | 23943920 | ref | NP\_077734.1 | EDAGSDYQSDNQAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLSDFATQSDFDDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 114568449 | ref | XP\_001165694.1 | EDAGSDYQSDNQAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLSDFATQSDFDDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 6679369 | ref | NP\_032895.1 | EDAEKYQSDNQAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLSDFATQSDFDDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 19424224 | ref | NP\_598235.1 | EDAEREYQNDNQAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLRDFSPQSDFDDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 115497134 | ref | NP\_001069332.1 | EDAEREYQNDNQAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLRDFSPQSDFDDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 73961231 | ref | XP\_537170.2 | EDAKREYHNDNQAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLRDLMTQSLDEDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 45382223 | ref | NP\_990754.1 | SEANEYQNSSEWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLADLITQSVDEDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 18858457 | ref | NP\_571370.1 | ADAEDERHQAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLSDFATQSDFDDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
gi | 68395510 | ref | XP\_687485.1 | -----HDAASWVHRMIMALVSDSALFNTRREGRAKGVHFMGLGNLNTSYPLSPLSDFATQSDFDDELDAAVADPDEFERIEPLDVKSKKIHVVDSGLFNLFPYPLILRQRGVDLII SFDFARPDS SPPFKELLAEKWAKM 600  
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600



gi | 23943920 | ref | NP\_077734.1 | NKLPPKIDPVVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPKA 750  
gi | 114568449 | ref | XP\_001165694.1 | NKLPPKIDPVVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPKA 750  
gi | 6679369 | ref | NP\_032895.1 | NKLPPKIDPVVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPTA 750  
gi | 19424224 | ref | NP\_598235.1 | NKLPPKIDPVVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPTA 750  
gi | 115497134 | ref | NP\_001069332.1 | NKLPPKIDPVVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPTA 750  
gi | 73961231 | ref | XP\_537170.2 | NKLPPKIDPVVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPAA 750  
gi | 45382223 | ref | NP\_990754.1 | NKLPPKIDPVVDFDREGLKCYVFKPKNTSSEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKNLNNH 750  
gi | 18858457 | ref | NP\_571370.1 | NKLPPKIDSKVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPTA 750  
gi | 68395510 | ref | XP\_687485.1 | NKLPPKIDPVVDFDREGLKCYVFKPKNDMEKDCPTIHFVLANIFRKYKAPGVPRETEEEKIADFDFDDPESPFSTFNFOYPNQAFKRLHDLMEFNTLNNIDVIKNAIVESIEYRRONPSCVSLSNVEARRFFNKEFLSKPTA 750  
.....610.....620.....630.....640.....650.....660.....670.....680.....690.....700.....710.....720.....730.....740.....750



gi	23943920	ref	NP_077734.1	-----	756
gi	114568449	ref	XP_001165694.1	-----	756
gi	6679369	ref	NP_032895.1	-----	756
gi	19424224	ref	NP_598235.1	BSI---	756
gi	115497134	ref	NP_001069332.1	-----	756
gi	73961231	ref	XP_537170.2	-----	756
gi	45382223	ref	NP_990754.1	-----	756
gi	18858457	ref	NP_571370.1	IAKRP	756
gi	68395510	ref	XP_687485.1	-----	756

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