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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1029 TT RS02230 WP 011228203.1          ................MPVYQYKARDRQ.GRLVEATIEAEDLRTAARLLRDRGLFVAEIKEPGKGLQAEVRIPALERGPGL    64
NTDB id 1402 DSB67 RS12670 WP 010643257.1       ........MKTIAPQLKNYRWKGINSS.GKKTSGNVLAMTEIEVRERLDAQHIKIKKLKKGSISFITKI.....SHRVKG    66
NTDB id 1169 A1552VC RS11075 WP 000648511.1     .......MKATQTLPLKNYRWKGINSN.GKKVSGQMLAISEIEVRDKLKDQHIQIKKLKKGSVSLLARL.....THRVKS    67
NTDB id 1112 NGFG RS09215 WP 003689811.1        ..MAKNGGFSLFAKKEKRFIFEGRHSASDKLVNGEVSAFTEEEARKKLAKRGIRPLQITRVKTS.........SKRKITQ    69
NTDB id 1113 AAA85695.1 219..1451( )            ..MAKNGGFSLFAKKEKRFIFEGRHSASDKLVNGEVSAFTEEEARKKLAKRGIRPLQITRVKTS.........SKRKITQ    69
NTDB id 1252 GC085 RS07730 WP 011213805.1       ........MDKNSPPLLTFHYQGINKA.GQKMEGDIQARSLAIAKADLRKQGIVTNKVVKKRKPLFDR.....KNKKITQ    66
NTDB id 1099937 ACNFWN RS06925 WP 416461614.1  MVTAASAARAKSAAKEQIFEWEGKDKN.GKLVRGEIRAGGEAVVNASLRRQGILVTKVKKRRTS.........GGRSIKQ    70
NTDB id 1198 PSJM300 03950 AFN76868.1           ........MAQKAIKNSVFTWEGLDRQ.GAKIKGELSGVSPALVKAQLRKQGINPQKVRKKSISLFS......AGKKIKP    65
NTDB id 1016 ACIAD RS01680 WP 004920476.1       .......MAAKKTQVMPVFAYEGVDRK.GIKLKGELPARNMALAKVTLRKQGITIRTIREKRKNIFEGL....LKKKVKP    68
NTDB id 1059 ABD1 RS01610 WP 000279215.1        .......MAVKKAQMMPTFAYEGVDRK.GVKIKGELPAKNMALAKVTLRKQGVTVRNIREKRKNILEGL....FKKKVTT    68
consensus                                                  *  *  * *******  **** *** * ******  !***** * ****** **   *       ****
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logo
NTDB id 1029 TT RS02230 WP 011228203.1          KDLAIFSRQLATMLGAGLTLLQALAILERQTENRKFREILKQVRTDVEGGMAFSEALSKH.KIFSRLYVNLVRAGETSGG   143
NTDB id 1402 DSB67 RS12670 WP 010643257.1       KDITIFTRQIATMLMTGVPIVQALKLVSENHKKAEMKSILMSVTRAVEAGTPMSKAMRTASTHFDPLYTDLIATGEQSGN   146
NTDB id 1169 A1552VC RS11075 WP 000648511.1     KDITILTRQLATMLTTGVPIVQALKLVGDNHRKAEMKSILAQITKSVEAGTPLSKAMRTASAHFDTLYVDLVETGEMSGN   147
NTDB id 1112 NGFG RS09215 WP 003689811.1        EDITVFTRQLSTMIKAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGV   149
NTDB id 1113 AAA85695.1 219..1451( )            EDITVFTRQLSTMINAGLPLMQAFEIVARGHGNPSMTEMLMEIRGQVEQGSSLSRAFSNHPKYFDRFYCNLVAAGETGGV   149
NTDB id 1252 GC085 RS07730 WP 011213805.1       ADITVFSRQLATMIESGIPLVQAFDIVAKGQSNKRLKDLIETIKHDIETGLTLAESLIKHPLYFNELFCNLVDAGEKSGS   146
NTDB id 1099937 ACNFWN RS06925 WP 416461614.1  KDIAIFTRQLATMMKAGVPLLQAFDIVARGAANPRMTKLLTDIRSDVETGTSLSAAFRKQPQYFDSLYCNLIEAGEAGGI   150
NTDB id 1198 PSJM300 03950 AFN76868.1           MDIALFTRQMATMMKAGVPLLQSFDIIGEGFDNPNMRKLVDDLKQEVAAGNSFASSLRKKPQYFDDLYCNLVDSGEQSGS   145
NTDB id 1016 ACIAD RS01680 WP 004920476.1       LDIAIFTRQLATMMKAGVPLVQAFEIVAEGLENPAMRDVVLGLKNEVEGGNTFAGALRKYPQYFDNLFCSLIESGEQSGS   148
NTDB id 1059 ABD1 RS01610 WP 000279215.1        LDITIFTRQLATMMKAGVPLVQGFEIVAEGLENPAMREVVLGIKGEVEGGSTFASALRKYPQHFDNLFCSLVESGEQSGA   148
consensus                                        !*****!!**!!***!****!****** *   ** ****** ** ****!**** **** * *!* ****!***!! *!
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logo
NTDB id 1029 TT RS02230 WP 011228203.1          LDLLILDRLASFLEKELELRGKIRSAMTYPVIVFVFAVGVAYFLLTGIVPQFAQILTDLGSELPLLLTRFLIAVSDLLRAAT   223
NTDB id 1402 DSB67 RS12670 WP 010643257.1       LSQVFERLATYREKSEQLRAKVIKALIYPAMVVLVALGVSYLMLTRVIPEFEKMFTGFGADLPAFTQMVLNLSAWTQNWG   226
NTDB id 1169 A1552VC RS11075 WP 000648511.1     LPEVFERLATYREKSEQLRAKVIKALIYPSMVVLVALGVSYLMLTMVIPEFESMFKGFGAELPWFTQQVLKLSHWVQAYS   227
NTDB id 1112 NGFG RS09215 WP 003689811.1        LESLLDKLAIYKEKTQAIRKKVKTALTYPVSVIAVAIGLVFVMMIFVLPAFKEVYANMGAELPPLTQTVMDMSDFFVSYG   229
NTDB id 1113 AAA85695.1 219..1451( )            LESLLDKLAIYKEKTQAIRKKVKTALTYPVSVIAVAIGLVFVMMIFVLPAFKEVYANMGAELPALTQTVMDMSDFFVSYG   229
NTDB id 1252 GC085 RS07730 WP 011213805.1       LDIMLDKVATYKEKIEIIKKKIKKALTYPIAVMVVALLVTAGLLIYVVPQFESLFKGFGADLPAMTRAVITMSEFMQAYW   226
NTDB id 1099937 ACNFWN RS06925 WP 416461614.1  LEALLERLAIYQEKTMALKQKIKSALMYPIAVMVVAFVVLTVIMIWVIPAFKEVFRSFGADLPAPTLFVIAMSEFFVAWW   230
NTDB id 1198 PSJM300 03950 AFN76868.1           LETLLDRVATYKEKTEALKAKIKKAMNYPIAVVLVAVIVTAILLIKVVPQFQDVFANFGAELPAFTLMVIGLSEALQAWW   225
NTDB id 1016 ACIAD RS01680 WP 004920476.1       LEIMLDRVAVYKEKSEVLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFKDLFTSFGADLPAFTQLVVNMSNWMQDYW   228
NTDB id 1059 ABD1 RS01610 WP 000279215.1        LETMLDRVAIYKEKSELLKQKIKKAMKYPATVIVVAIVVTIILMVKVVPVFQDLFASFGADLPAFTQMVVNMSKWMQEYW   228
consensus                                       !* *****! **!!** ** !***!* !!* !***!********** **! ! ***  *!**!!**!* ** *!*******
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NTDB id 1029 TT RS02230 WP 011228203.1          LPLLLLAVALFFAY.RWYYGTPQGRRVIDRLKLRLPVFGNLNRKTAVARFSRTLALLLSSGVNIVEALDITKGTAGNSVV   302
NTDB id 1402 DSB67 RS12670 WP 010643257.1       PFIGLSFVSLLISGKIMSQRSDSFRLLAARSSLRVPILGPVLSKAAIAKFSRTLATSFSAGIPILTALKTTSKTSGNMHY   306
NTDB id 1169 A1552VC RS11075 WP 000648511.1     LWAFIAIAAAIFGLKALRKNSFQIRLKTSRLGLKFPIIGNVLAKASIAKFSRTLATSFAAGIPILASLKTTAKTSGNVHF   307
NTDB id 1112 NGFG RS09215 WP 003689811.1        WMVLIALGFAIYGFLKLKARSIKIQRRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDVLDSTAGAAGNLIY   309
NTDB id 1113 AAA85695.1 219..1451( )            WMVLIALGFAIYRFLKLKARSIKIQRRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDVLDSTAGAAGNLIY   309
NTDB id 1252 GC085 RS07730 WP 011213805.1       YIIFGALGCVVYSFFYAKNHSLEFAQTIDRVMLKLPVIGPILEKAAIARFARTLSITFAAGLPLVEALKSVAGATGNIIY   306
NTDB id 1099937 ACNFWN RS06925 WP 416461614.1  WAIFGLIFGGTYFFFQSWKRSEKMQMVMDRLLLRLPVFGALIEKSVIARWTRTLATMFAAGVPLVEALDSVGGASGNAVY   310
NTDB id 1198 PSJM300 03950 AFN76868.1           YVVLAGFVGAAYAFKQAHTRSEKFRNWFDRLMLKVPVVGDILYKSSVARFARTLSTTFAAGVPLVDALDSVAGATGNVVF   305
NTDB id 1016 ACIAD RS01680 WP 004920476.1       FILILVIGAAIAGFLEARKRSKRFRDQLDRLVLRLPIVGDLVYKAIIARYSRTLATTFAAGVPLIDALASTAGATNNTVY   308
NTDB id 1059 ABD1 RS01610 WP 000279215.1        FIMIIAIGAVIAAFLEAKKRSKKFRDGLDKLALKLPIFGDLVYKAIIARYSRTLATTFAAGVPLIDALESTAGATNNVIY   308
consensus                                       *************    * **  ***   *****!**!**!***  !*  *!***!!********!******!********!***
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NTDB id 1029 TT RS02230 WP 011228203.1          EEIVEAAKLKIQQGDPLNLTLAQHPFVFPPMVSSMVAIGEETGALDTMLSKVADFYEREVDEAVASLTAAIEPLMIIFLG   382
NTDB id 1402 DSB67 RS12670 WP 010643257.1       QLAIEEVYRDTAAGMPMYIAM.RHCHVFPELVLQMVMIGEESGRLDDMLNKIAAIYEFEVDNTVDNLSKILEPLIIVFLG   385
NTDB id 1169 A1552VC RS11075 WP 000648511.1     ETAINEVYRDTAAGMPMYIAM.RNTEAFPEMVLQMVMIGEESGQLDDMLNKVATIYEFEVDNTVDNLGKILEPLIIVFLG   386
NTDB id 1112 NGFG RS09215 WP 003689811.1        EEATREIRTRVIQGLSMTSGM.RATELFPNMMLQMSSIGEESGSLDDMLNKAAEFYEDEVDNAVGRLSAMMEPIIIVILG   388
NTDB id 1113 AAA85695.1 219..1451( )            EEATREIRTRVIQGLSMTSGM.RATELFPNMMLQMSSIGEESGSLDDMLNKAAEFYEDEVDNAVGWLSAMMEPIIILILG   388
NTDB id 1252 GC085 RS07730 WP 011213805.1       AKATDKIREEVATGQQMFIAM.ENTHLFPNMVIQMVAIGEESGALEKMLSKVADFYEEEVNNAVDALSSLLEPIIMSILG   385
NTDB id 1099937 ACNFWN RS06925 WP 416461614.1  ARATEQIQKDVSTGSALTTSM.TATSVFPTMVLQMSAIGEESGSLDHMLGKAAEFYEEEVDDMVKGLSSLMEPFIIVILG   389
NTDB id 1198 PSJM300 03950 AFN76868.1           RSATNKIKSDVSSGMQLNFSM.RTTGTFPSMAVQMTAIGEESGALDEMLSKVATFYEDEVDNMVDGLTALMEPMIMAVLG   384
NTDB id 1016 ACIAD RS01680 WP 004920476.1       EQAVLKIREDVSTGQQLNFAM.RVSNRFPTMAIQMVAIGEESGALDEMLDKVANYYESEVDHAVDGLTSMMEPLIMAILG   387
NTDB id 1059 ABD1 RS01610 WP 000279215.1        EKAVMKIREDVATGQQLQFAM.RISNRFPSMAIQMVAIGEESGALDSMLDKVATYYENEVDNAVDGLTSMMEPLIMAILG   387
consensus                                       * **  ** ** *!* *  ** * * *!! ****!**!!!!*!*!**!! !*!**!!*!!***!**!* **!!*****!!
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NTDB id 1029 TT RS02230 WP 011228203.1          VIVGMIVAGMFLPLFKIIGTLSVQ   406
NTDB id 1402 DSB67 RS12670 WP 010643257.1       VVVGGLVTAMYLPIFNLMSVLG..   407
NTDB id 1169 A1552VC RS11075 WP 000648511.1     TVVGGLVVAMYLPIFNLMSVLG..   408
NTDB id 1112 NGFG RS09215 WP 003689811.1        LVIGTLLVAMYLPLFNLGNVVA..   410
NTDB id 1113 AAA85695.1 219..1451( )            LVIGTLLVAMYLPLFNLGNVVA*.   410
NTDB id 1252 GC085 RS07730 WP 011213805.1       ILVGGLVVAMYLPIFKLGSAV...   406
NTDB id 1099937 ACNFWN RS06925 WP 416461614.1  VLIGGIVVSMYLPIFKLGAVV...   410
NTDB id 1198 PSJM300 03950 AFN76868.1           VLVGGLIIAMYLPIFQMGSVV...   405
NTDB id 1016 ACIAD RS01680 WP 004920476.1       ILVGGLVIAMYLPIFQMGSVV...   408
NTDB id 1059 ABD1 RS01610 WP 000279215.1        VLVGGLVIAMYLPIFQMGSVV...   408
consensus                                       ***!*****!*!!*!******
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X non conserved

X similar

X $\geq$ 50% conserved