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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1388 A4U84 RS04945 WP 062924099.1   ...............MTHLTKLLALLQVPQLGAQRIGRLLSEVDFGEFCQYDKTALKQMG.WNERQIQ...........RWFNPEH   59
NTDB id 1073 ABD1 RS00865 WP 015451369.1    ...........MLTQLSSHHYHTLKVWYLVQHSLVS...FKKIIDYFGNCEK.ATQPDGLAKWSSLGLHANHLKRVNEFQTTQGQA   71
NTDB id 1043 HON27 RS16615 WP 168727007.1   ...........MLTQLSSHQYHTLKVWYLVQHSLVS...FKKIIDYFGNCEK.ATQPDGLAKWSSLGLHANHLKRVNEFQTPQGQA   71
NTDB id 114 BSU 16110 NP 389493.1           MDQAAVCLTICRINQLLSPSLLLKWWKADP.....................SMSLTSPVLQTVTRDQIKAA........ALKNEIE   57
NTDB id 626 LCA RS04960 WP 011374694.1      ...............MLTKNQLLLKVHLAAGFGTIS...ELRLAAWLSTSHNWALSALEIAQIARLPER..........YWPTFQA   58
NTDB id 599 KW2 RS05940 WP 021037268.1      ...............MITNFDLFRW.KKAGMTNLG...VNKLLKFFRK.YDRKISLRQMGQVAQV..K..........SIPNFIE   53
NTDB id 525 SMSK321 RS06295 WP 000705298.1  ...............MKITNYEIYKL.KKSGLTNQQ...ILKVLEYGEN.VDQELLLGDIADISGC..R..........NPAVFME   54
NTDB id 267 KZH43 RS05590 WP 000705306.1    ...............MKITNYEIYKL.KKSGLTNQQ...ILKVLEYGEN.VDQELLLGDIADISGC..R..........NPAVFME   54
NTDB id 226 SPD RS05990 WP 000705306.1      ...............MKITNYEIYKL.KKSGLTNQQ...ILKVLEYGEN.VDQELLLGDIADISGC..R..........NPAVFME   54
NTDB id 192 SPR RS05715 WP 000705306.1      ...............MKITNYEIYKL.KKSGLTNQQ...ILKVLEYGEN.VDQELLLGDIADISGC..R..........NPAVFME   54
NTDB id 157 SP RS06205 WP 000705306.1       ...............MKITNYEIYKL.KKSGLTNQQ...ILKVLEYGEN.VDQELLLGDIADISGC..R..........NPAVFME   54
NTDB id 497 SM12261 RS05565 WP 000705318.1  ...............MKITNYEIYKL.KKSGLTNQQ...VLAVLEYGEN.VDQELLLGDIAEISGC..R..........NPAVFME   54
NTDB id 178198 NX99 RS01425 WP 048790506.1  ................MNHFELFKL.KSAGLTNLN...ILNILDYQET.QDRKLSLRDMAVVSKS..K..........NAVLFME   52
NTDB id 407 SMU RS04605 WP 002262865.1      ................MDNFQLFKL.KKAGLTNLN...ILNIIDYEER.TQKSLSLRDMAVVSKN..K..........KPLIFME   52
consensus                                                   * ********** ** **** *   ******* **   *  * * *** **    *          *  ****
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1388 A4U84 RS04945 WP 062924099.1   KW...IDQALQWAEQDQQQILTLFDEDYPFLLKQISTAPPVLFVRGNVESLSL.PQIAIVGSRDYSHYGEHWAGHFSAELVKHQL   140
NTDB id 1073 ABD1 RS00865 WP 015451369.1    QFEQLVQQVRQHT....DFILTPDDSGYPTQLLPYTDHPPIIFGKGQAQALLQ.PQIAIVGSRKPSPHGRQVAYDFAYYLSEKGF   151
NTDB id 1043 HON27 RS16615 WP 168727007.1   QFEQLVQQVRQHT....DFILTPDDSGYPTQLLPYTDHPPIIFGKGQAQALLQ.PQIAIVGSRKPSPHGRQVAYDFAYYLSEKGF   151
NTDB id 114 BSU 16110 NP 389493.1           QFYPKLPRVLAAYREQGINIIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPTAYGKQVVNHLTKEICRKGW   142
NTDB id 626 LCA RS04960 WP 011374694.1      SFQSTTLQRQCIDHEVRTTYLTILDKDYPQRLLETYLPPVLLFYRGDLRLLKQ.PCLAVVGARQATHYSKQSLEQLLQGLT.A.T   140
NTDB id 599 KW2 RS05940 WP 021037268.1      QYKNQDV.KKLRADYKKFSSFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIVTELN.QSF   135
NTDB id 525 SMSK321 RS06295 WP 000705298.1  RYFQIDD.AHLEKEFKKIPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKIIQGLE.NEL   136
NTDB id 267 KZH43 RS05590 WP 000705306.1    RYFQIDD.AHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NEL   136
NTDB id 226 SPD RS05990 WP 000705306.1      RYFQIDD.AHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NEL   136
NTDB id 192 SPR RS05715 WP 000705306.1      RYFQIDD.AHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NEL   136
NTDB id 157 SP RS06205 WP 000705306.1       RYFQIDD.AHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NEL   136
NTDB id 497 SM12261 RS05565 WP 000705318.1  RYFQIDD.AHLEKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGLE.NEL   136
NTDB id 178198 NX99 RS01425 WP 048790506.1  KYKNLDV.KQLREQFKRFPTLSIFDKEYPIELKHTYNPPVLLFYQGNLDLLSK.PKLAVVGARKCSETGKQSVRKIVSELG.NHF   134
NTDB id 407 SMU RS04605 WP 002262865.1      HYKNLDS.KALRKEFNRFPSLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKIIQDLS.KQF   134
consensus                                   ** ***    *  **  **** ***** !!**! **** !***!**!****!*  *****!!*!  *  *  ** **** *  *
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1388 A4U84 RS04945 WP 062924099.1   AVTSGLAIGIDGFCHQRAANENGITIAVLGSGLDQVYPARHKKLAEQIVETSGALVSEFFPSQPPIAENFPRRNRIISGLSLGTL   225
NTDB id 1073 ABD1 RS00865 WP 015451369.1    FISSGLAYGIDEAAHQGAS.AHQRTIAVTGTGLDTTYPAQNKKLAEYILAQNGAIITEFLPGTPPLQQHFPRRNRIVSGLSLGVL   235
NTDB id 1043 HON27 RS16615 WP 168727007.1   FISSGLAYGIDEAAHQGAS.THQRTIAVTGTGLDTTYPAQNKKLAEHILAKNGAIITEFLPGTPPLQQHFPRRNRIVSGLSLGVL   235
NTDB id 114 BSU 16110 NP 389493.1           VIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHM.AKHHILLSEHPPETKPQKWHFPMRNRIISGLSEGVI   226
NTDB id 626 LCA RS04960 WP 011374694.1      TIISGLAQGADAMAHEVALQRGLAPIGVIGTGINCSYPPQNEHLQQVV.AEKGLLLSEYALGTPARRYQFPARNKIIAGLCHSLI   224
NTDB id 599 KW2 RS05940 WP 021037268.1      TIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYL.AKYQLVLSEYSLGEKPLKYHFPERNRIIAGLSRGVV   219
NTDB id 525 SMSK321 RS06295 WP 000705298.1  VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.SNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVI   220
NTDB id 267 KZH43 RS05590 WP 000705306.1    VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVI   220
NTDB id 226 SPD RS05990 WP 000705306.1      VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVI   220
NTDB id 192 SPR RS05715 WP 000705306.1      VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVI   220
NTDB id 157 SP RS06205 WP 000705306.1       VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVI   220
NTDB id 497 SM12261 RS05565 WP 000705318.1  VIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYI.GNDHLVLSEYGPGEQPLKFHFPARNRIIAGLCRGVI   220
NTDB id 178198 NX99 RS01425 WP 048790506.1  TIVSGLARGIDTCAHMEALKNKGNTIAVIGTGLDVYYPKENKALQDYM.AKNHLVLTEYGPGEQPLKYHFPERNRIISGLCQGVM   218
NTDB id 407 SMU RS04605 WP 002262865.1      VIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYI.AKNHLLLSEYEAQSQPLKYHFPERNRIIAGLSQGVM   218
consensus                                   ***!!!!*!*!***!***** ****!*!***!****!!* ******** *  *****!***********!! !!*!**!!* ***
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logo
NTDB id 1388 A4U84 RS04945 WP 062924099.1   VIEATVNSGSLITARYALEQGREVFALPNSVQNPYSEGCHKLIKEGALLVENVEDILEAIAWQRQSVHIQPSLFDTKPKQAVKSE   310
NTDB id 1073 ABD1 RS00865 WP 015451369.1    VVEATLKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALPTQWQSQQQN...........QT   309
NTDB id 1043 HON27 RS16615 WP 168727007.1   VVEATLKSGSLITANKAAEQGKTVFAIPGHIYSEFHQGCHQLIREGAILIDHPEQIIEDLALPTQWQSQQQN...........QT   309
NTDB id 114 BSU 16110 NP 389493.1           VVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPERNVQYTEPF...............   297
NTDB id 626 LCA RS04960 WP 011374694.1      VTEARHKSGSLITANLALQANRNVYAIPGRIDQSLSQGCNQLIAAGATPLLDKNILIEELRYFD......................   288
NTDB id 599 KW2 RS05940 WP 021037268.1      VVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN......................   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1  VAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF........................   282
NTDB id 267 KZH43 RS05590 WP 000705306.1    VAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF........................   282
NTDB id 226 SPD RS05990 WP 000705306.1      VAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF........................   282
NTDB id 192 SPR RS05715 WP 000705306.1      VAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF........................   282
NTDB id 157 SP RS06205 WP 000705306.1       VAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF........................   282
NTDB id 497 SM12261 RS05565 WP 000705318.1  VAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF........................   282
NTDB id 178198 NX99 RS01425 WP 048790506.1  VVEAKLRSGSLITCERAMEEGRDVFAIPGNILDGKSDGCHHLIQEGAKCITTGFDILSEFS.........................   279
NTDB id 407 SMU RS04605 WP 002262865.1      VAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF........................   280
consensus                                   ! *****!!!!!!***!***********!****** **!***!!**!!********** ** *

logo
NTDB id 1388 A4U84 RS04945 WP 062924099.1   PKFAKNLPELTACQQQLFEQISLEPISVDDLAKATDMAVETALIELLNLELLGVVKQVRGGYVIT..   375
NTDB id 1073 ABD1 RS00865 WP 015451369.1    EEANTNTPEIREHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGLYLRCRS   376
NTDB id 1043 HON27 RS16615 WP 168727007.1   EETNTNTPEIPEHLIDLYQSLDWVGQNIDQLVVHHNIPVSELTSSLMELELLGLCMQQSGLYLRCRS   376
NTDB id 114 BSU 16110 NP 389493.1           ......................................................................   297
NTDB id 626 LCA RS04960 WP 011374694.1      ......................................................................   288
NTDB id 599 KW2 RS05940 WP 021037268.1      ......................................................................   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1  ......................................................................   282
NTDB id 267 KZH43 RS05590 WP 000705306.1    ......................................................................   282
NTDB id 226 SPD RS05990 WP 000705306.1      ......................................................................   282
NTDB id 192 SPR RS05715 WP 000705306.1      ......................................................................   282
NTDB id 157 SP RS06205 WP 000705306.1       ......................................................................   282
NTDB id 497 SM12261 RS05565 WP 000705318.1  ......................................................................   282
NTDB id 178198 NX99 RS01425 WP 048790506.1  ......................................................................   279
NTDB id 407 SMU RS04605 WP 002262865.1      ......................................................................   280
consensus
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X non conserved

X similar

X ≥ 50% conserved