logo

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NTDB id 389841 F3I00 RS02870 WP 003649216.1  ...........................................MLFKYKSVYVPQVDEMDCGVACLAMILKQYHSRVSLA   37
NTDB id 358 SMU RS01425 WP 002263523.1       MKQVIYVVLIVIAVNILLEIIKRVTKRGGTVSSSNPLPDGQSKLFWRRHYKLVPQIDTRDCGPAVLASVAKHYGSNYSIA   80
NTDB id 421 SGO RS10260 WP 012131060.1       ..........................................MKFRKQHY..RAQVDTRDCGVAALAMIFGYYGSYFSLA   36
NTDB id 483 SM12261 RS00275 WP 000668315.1   ..........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYSLA   36
NTDB id 511 SMSK321 RS10730 WP 000668322.1   ..........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYSLA   36
NTDB id 247 KZH43 RS00220 WP 000668290.1     ..........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLA   36
NTDB id 206 SPD RS00235 WP 000668290.1       ..........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLA   36
NTDB id 171 SPR RS00230 WP 000668290.1       ..........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLA   36
NTDB id 131 SP RS00255 WP 000668284.1        ..........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLA   36
consensus                                                                              ********  **!*!**!!!*!*!!*****!*!****!
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logo

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NTDB id 389841 F3I00 RS02870 WP 003649216.1  HLRHEARTNLEGTTALGLVKTAQKFNFKTEAVKADMSLFDENSIQYPFIAHVLKQGELLHYYVVLKNAKNYLVIADPDPS  117
NTDB id 358 SMU RS01425 WP 002263523.1       YLRELSKTNKQGTTALGIVEAAKKLGFETRSIKADMTLFDYNDLTYPFIVHVIKGKRLQHYYVVYGSQNNQLIIGDPDPS  160
NTDB id 421 SGO RS10260 WP 012131060.1       TLREKAKTTNDGTTALGLVKVAEGLNFETRAFKADMSLFDLEEVSYPFIAHILKDGKLLHYYVVTGQDKHTIHIADPDPQ  116
NTDB id 483 SM12261 RS00275 WP 000668315.1   HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPG  116
NTDB id 511 SMSK321 RS10730 WP 000668322.1   HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKGSIHIADPDPG  116
NTDB id 247 KZH43 RS00220 WP 000668290.1     HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPG  116
NTDB id 206 SPD RS00235 WP 000668290.1       HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPG  116
NTDB id 171 SPR RS00230 WP 000668290.1       HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPG  116
NTDB id 131 SP RS00255 WP 000668284.1        HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPG  116
consensus                                    *!!****!***!!!!!!*!**!****!*!***!!!!*!!!******!!**!**!***!*!!!!!*********!*!!!!*
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NTDB id 389841 F3I00 RS02870 WP 003649216.1  VGVVKMPKDKFAQEWTGVALFMVPNEDFEPIKEKKNNLWSLFPYMFKQKRLMINIILAALLMTIISICSSYFVQGIIDTY  197
NTDB id 358 SMU RS01425 WP 002263523.1       VKVTRMSKERFQSEWTGLAIFLAPQPNYKPHKGEKNGLSNFFPLIFKQKALMTYIIIASLIVTLIDIVGSYYLQGILDEY  240
NTDB id 421 SGO RS10260 WP 012131060.1       VKMTKISRERFEQEWTGITIFLAPSPAYKPSQEKKNGLLDFIPLLIKQKGLITNIVLATLLVTLINIVGSYYLQSIIDTY  196
NTDB id 483 SM12261 RS00275 WP 000668315.1   VKLTKLPRERFAEEWTGVTLFMAPSPDYKPHKDQKNGLLSFIPILVKQRGLIANIVLATLLVTLINIVGSYYLQSIIDTY  196
NTDB id 511 SMSK321 RS10730 WP 000668322.1   VKLTKLPRERFAEEWTGVTLFMAPSPDYKPHKDQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTY  196
NTDB id 247 KZH43 RS00220 WP 000668290.1     VKLTKLPRERFEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTY  196
NTDB id 206 SPD RS00235 WP 000668290.1       VKLTKLPRERFEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTY  196
NTDB id 171 SPR RS00230 WP 000668290.1       VKLTKLPRERFEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTY  196
NTDB id 131 SP RS00255 WP 000668284.1        VKLTKLPRERFEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTY  196
consensus                                    !*********!**!!!!***!**!*****!****!!*!****!***!!**!***!**!*!**!*!*!**!!**!*!*!*!
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logo

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NTDB id 389841 F3I00 RS02870 WP 003649216.1  IPDGTYQTLSILAVGLLIAYVFNSIFSYGQNFLLNILGQRLSIDLNLRYIRHIFELPMEFFVTRRTGEITSRFSDASRII  277
NTDB id 358 SMU RS01425 WP 002263523.1       IPDQLISTLGMITIGLIITYIIQQVMAFAKEYLLAVLSLRLVIDVILSYIKHIFTLPMSFFATRRTGEITSRFTDANQII  320
NTDB id 421 SGO RS10260 WP 012131060.1       VPDHMKTTLGMISIGLIIVYILQQFLSYAQEYLLLVLGQRLSIDVILSYIKHVFQLPMSFFATRRTGEIVSRFTDANRII  276
NTDB id 483 SM12261 RS00275 WP 000668315.1   VPDQMRSTLGIISIGLVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSII  276
NTDB id 511 SMSK321 RS10730 WP 000668322.1   VPDQMRSTLGIISIGLVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSII  276
NTDB id 247 KZH43 RS00220 WP 000668290.1     VPDQMRSTLGIISIGLVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSII  276
NTDB id 206 SPD RS00235 WP 000668290.1       VPDQMRSTLGIISIGLVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSII  276
NTDB id 171 SPR RS00230 WP 000668290.1       VPDQMRSTLGIISIGLVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSII  276
NTDB id 131 SP RS00255 WP 000668284.1        VPDQMRSTLGIISIGLVIVYIFQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSII  276
consensus                                    *!!****!!*****!!*!*!*************!!**!**!!*!!**!*!!*!*!*!!!*!!*!!!!!!!!*!!!*!!**!!
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logo
NTDB id 389841 F3I00 RS02870 WP 003649216.1  DALASTVISLFLDLSIVIVMGLVLAAQNMTLFGITLLALPIYAVVILGFTKKFEKLNNEQMESNAVLSSSVIEDIQGIET  357
NTDB id 358 SMU RS01425 WP 002263523.1       DAVASTIFSIFLDMTMVILVGGVLLAQNNNLFFLTLLSIPIYAIIIFAFLKPFEKMNHEVMESNAVVSSSIIEDINGMET  400
NTDB id 421 SGO RS10260 WP 012131060.1       DALASTILSIFLDVSIVSIIAIVLFSQNSSLFFLTLLGIPVYALIIFLFMKPFEKMNHETMEANSLLSSSIIEDINGIET  356
NTDB id 483 SM12261 RS00275 WP 000668315.1   DALASTILSIFLDVSTVVIISLVLFSQNTNLFFITLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET  356
NTDB id 511 SMSK321 RS10730 WP 000668322.1   DALASTILSIFLDVSTVVIISLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET  356
NTDB id 247 KZH43 RS00220 WP 000668290.1     DALASTILSIFLDVSTVVIISLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET  356
NTDB id 206 SPD RS00235 WP 000668290.1       DALASTILSIFLDVSTVVIISLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET  356
NTDB id 171 SPR RS00230 WP 000668290.1       DALASTILSIFLDVSTVVIISLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET  356
NTDB id 131 SP RS00255 WP 000668284.1        DALASTILSIFLDVSTVVIISLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET  356
consensus                                    !!*!!!**!*!!!***!*****!!**!!**!!**!!!**!*!***!**!*!*!!!*!***!!*!***!!!*!!!!*!*!!

logo
NTDB id 389841 F3I00 RS02870 WP 003649216.1  IKALNSENTRYRRIDSQFVDYLKKSFKYSKTESLQTALKTFIQLSLNVIVLWVGAKIVMQGQLSIGQLMTFNALLAYFID  437
NTDB id 358 SMU RS01425 WP 002263523.1       IKSLTSESARYQNIDSEFVDYLEKNFKLHKYSAIQTALKSGAKLILNVVILWYGSRLVMDNKISVGQLITFNALLSYFSN  480
NTDB id 421 SGO RS10260 WP 012131060.1       IKSLTSEKQRYQKIDKEFVTYLKKSFAYGRSESLQKVLKAAARLILNVLILWLGATLVMDQKISLGQLITYNTLLVYFTN  436
NTDB id 483 SM12261 RS00275 WP 000668315.1   IKSLTSESQRYQKIDKEFVDYLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTN  436
NTDB id 511 SMSK321 RS10730 WP 000668322.1   IKSLTSESQRYQKIDKEFVDYLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTN  436
NTDB id 247 KZH43 RS00220 WP 000668290.1     IKSLTSESQRYQKIDKEFVDYLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTN  436
NTDB id 206 SPD RS00235 WP 000668290.1       IKSLTSESQRYQKIDKEFVDYLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTN  436
NTDB id 171 SPR RS00230 WP 000668290.1       IKSLTSESQRYQKIDKEFVDYLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTN  436
NTDB id 131 SP RS00255 WP 000668284.1        IKSLTSESQRYQKIDKEFVDYLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTN  436
consensus                                    !!*!*!!**!!**!!**!!*!!*!*!********!**!!****!*!!!**!!*!***!!****!*!!!*!*!*!!*!!**

logo
NTDB id 389841 F3I00 RS02870 WP 003649216.1  PLQSIINLQPRLQSASVAQNRLNEVYQVKSEFNQKATIEDRKLLEGNIEYKNVDYSYGYGTDVLKDINLKISQGEKLTIV  517
NTDB id 358 SMU RS01425 WP 002263523.1       PIENIINLQSKLQSARVANTRLNEVYLVESEFEKDGDLSENSFLDGDISFENLSYKYGFGRDTLSDINLSIKKGSKVSLV  560
NTDB id 421 SGO RS10260 WP 012131060.1       PLENIINLQTKLQSARVANERLNEVYLVKSEFEEKKLIKDLSHFQADIDFRGVSYKYGYGANVLSEIDLHIPAGSKTSFV  516
NTDB id 483 SM12261 RS00275 WP 000668315.1   PLENIINLQTKLQTAQVANNRLNEVYLVASEFEEKKTVEDLSLMKGDMTFKQVSYKYGYGRDVLLDINLTIPQGSKVAFV  516
NTDB id 511 SMSK321 RS10730 WP 000668322.1   PLENIINLQTKLQTAQVANNRLNEVYLVTSEFEEKKTVEDLSLMKGEMTFKQVYYKYGYGRDVLSDINLTIPQGSKVAFV  516
NTDB id 247 KZH43 RS00220 WP 000668290.1     PLENIINLQTKLQTAQVANNRLNEVYLVASEFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFV  516
NTDB id 206 SPD RS00235 WP 000668290.1       PLENIINLQTKLQTAQVANNRLNEVYLVASEFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFV  516
NTDB id 171 SPR RS00230 WP 000668290.1       PLENIINLQTKLQTAQVANNRLNEVYLVASEFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFV  516
NTDB id 131 SP RS00255 WP 000668284.1        PLENIINLQTKLQTAQVANNRLNEVYLVASEFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFV  516
consensus                                    !***!!!!!**!!*!*!!**!!!!!!*!*!!!*********************  !*!!*!***!**!*!****!*!***!

logo
NTDB id 389841 F3I00 RS02870 WP 003649216.1  GMSGSGKSTMVKLLVDFFSPSKGQVTLNGHATSEIDKHTLRSYVNYVPQTPYIFSGTVKENLLLGCRPDITEEDVIKACQ  597
NTDB id 358 SMU RS01425 WP 002263523.1       GASGSGKTTLAKLIVNFYEPNKGIVRINGNDLKVIDKTALRRHISYLPQQAYVFSGSIMDNLVLGAKEGTSQEDIIRACE  640
NTDB id 421 SGO RS10260 WP 012131060.1       GVSGSGKTTLAKMMVHFYAPNQGDICLGGVNLNQLDKQALRQYINYLPQQPYVFNGTILENLLLGAREGTTQEDILRAVE  596
NTDB id 483 SM12261 RS00275 WP 000668315.1   GISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILDNLLLGAKEGTTQEDILRAVE  596
NTDB id 511 SMSK321 RS10730 WP 000668322.1   GISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVE  596
NTDB id 247 KZH43 RS00220 WP 000668290.1     GISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVE  596
NTDB id 206 SPD RS00235 WP 000668290.1       GISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVE  596
NTDB id 171 SPR RS00230 WP 000668290.1       GISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVE  596
NTDB id 131 SP RS00255 WP 000668284.1        GISGSGKTTLAKMMVNFYDPSQGEISLGSVNLNQIDKKALRQYINYLSQQPYVFNGTILENLLLGAKEGTTQEDILRAVE  596
consensus                                    !*!!!!!*!**!**!*!**!**!************!!**!!****!**!**!*!*!****!!*!!*******!!***!**
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NTDB id 389841 F3I00 RS02870 WP 003649216.1   IAEIDQEIANLPLQFETKLDENAKILSGGQKQRLTIARALLSPAKVFIFDEVTSGLDTITEKKVIDNLMKLKDKTIIFIA   677
NTDB id 358 SMU RS01425 WP 002263523.1        IAEIRSDIFQMPQGYQTEL.SDGAGISGGQKQRIALARALLTQAPVLILDEATSSLDILTEKKIISNLLQMTEKTIIFVA   719
NTDB id 421 SGO RS10260 WP 012131060.1        LAEIRSDIERMPLNYQTELSADGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIIDNLMVL.DKTIIFIA   675
NTDB id 483 SM12261 RS00275 WP 000668315.1    LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLMAL.DKTLIFIA   675
NTDB id 511 SMSK321 RS10730 WP 000668322.1    LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPILILDEATSSLDILTEKRIVDNLMAL.DKTLIFIA   675
NTDB id 247 KZH43 RS00220 WP 000668290.1      LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIA   675
NTDB id 206 SPD RS00235 WP 000668290.1        LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIA   675
NTDB id 171 SPR RS00230 WP 000668290.1        LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIA   675
NTDB id 131 SP RS00255 WP 000668284.1         LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIA   675
consensus                                     *!!!***!***!****!*!*******!!!!*!!***!!!!!**!***!*!!*!!*!!**!!!****!!***  *!!*!!*!
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logo
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NTDB id 389841 F3I00 RS02870 WP 003649216.1   HRLAIAERADKVVVIDHGQIVEEGSHSELMSKHGFYYDLVKG   719
NTDB id 358 SMU RS01425 WP 002263523.1        HRLSISQRTDEVIVMDQGKIVEQGTHKELLAKQGFYYNLFN.   760
NTDB id 421 SGO RS10260 WP 012131060.1        HRLTIAERSEQVVVLDQGRIVESGSHKELIEREGFYHHLVNS   717
NTDB id 483 SM12261 RS00275 WP 000668315.1    HRLTIAERTEKVVVLDQGKIVEEGNHADLLAQGGFYAHLVNS   717
NTDB id 511 SMSK321 RS10730 WP 000668322.1    HRLTIAERTEKVVVLNQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 247 KZH43 RS00220 WP 000668290.1      HRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 206 SPD RS00235 WP 000668290.1        HRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 171 SPR RS00230 WP 000668290.1        HRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 131 SP RS00255 WP 000668284.1         HRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
consensus                                     !!!*!**!***!*!***!*!!!*!*!**!****!!!**!***
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X non conserved

X similar

X $\geq$ 50% conserved