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NTDB id 358 SMU RS01425 WP 002263523.1       MKQVIYVVLIVIAVNILLEIIKRVTKRGGTVSSSNPLPDGQSKLFWRRHYKLVPQIDTRDCGPAVLASVAKHYGSNYSIAYLREL   85
NTDB id 421 SGO RS10260 WP 012131060.1       ........................................MKFRKQHY..RAQVDTRDCGVAALAMIFGYYGSYFSLATLREK   41
NTDB id 511 SMSK321 RS10730 WP 000668322.1   ........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYSLAHLREL   41
NTDB id 483 SM12261 RS00275 WP 000668315.1   ........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYSLAHLREL   41
NTDB id 247 KZH43 RS00220 WP 000668290.1     ........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLAHLREL   41
NTDB id 206 SPD RS00235 WP 000668290.1       ........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLAHLREL   41
NTDB id 171 SPR RS00230 WP 000668290.1       ........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLAHLREL   41
NTDB id 131 SP RS00255 WP 000668284.1        ........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYFLAHLREL   41
consensus                                    ****!***!!  **!*!**!!!*!*!!*****!!!**  *!*!!!*
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NTDB id 358 SMU RS01425 WP 002263523.1       SKTNKQGTTALGIVEAAKKLGFETRSIKADMTLFDYNDLTYPFIVHVIKGKRLQHYYVVYGSQNNQLIIGDPDPSVKVTRMSKER   170
NTDB id 421 SGO RS10260 WP 012131060.1       AKTTNDGTTALGLVKVAEGLNFETRAFKADMSLFDLEEVSYPFIAHILKDGKLLHYYVVTGQDKHTIHIADPDPQVKMTKISRER   126
NTDB id 511 SMSK321 RS10730 WP 000668322.1   AKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKGSIHIADPDPGVKLTKLPRER   126
NTDB id 483 SM12261 RS00275 WP 000668315.1   AKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPGVKLTKLPRER   126
NTDB id 247 KZH43 RS00220 WP 000668290.1     AKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPGVKLTKLPRER   126
NTDB id 206 SPD RS00235 WP 000668290.1       AKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPGVKLTKLPRER   126
NTDB id 171 SPR RS00230 WP 000668290.1       AKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPGVKLTKLPRER   126
NTDB id 131 SP RS00255 WP 000668284.1        AKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPGVKLTKLPRER   126
consensus                                    *!!***!!!!!!*!**!***!!!!**!!!!*!!!*****!!**!**!***!*!!!!!*!*******!*!!!!*!!*!****!!
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NTDB id 358 SMU RS01425 WP 002263523.1       FQSEWTGLAIFLAPQPNYKPHKGEKNGLSNFFPLIFKQKALMTYIIIASLIVTLIDIVGSYYLQGILDEYIPDQLISTLGMITIG   255
NTDB id 421 SGO RS10260 WP 012131060.1       FEQEWTGITIFLAPSPAYKPSQEKKNGLLDFIPLLIKQKGLITNIVLATLLVTLINIVGSYYLQSIIDTYVPDHMKTTLGMISIG   211
NTDB id 511 SMSK321 RS10730 WP 000668322.1   FAEEWTGVTLFMAPSPDYKPHKDQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTYVPDQMRSTLGIISIG   211
NTDB id 483 SM12261 RS00275 WP 000668315.1   FAEEWTGVTLFMAPSPDYKPHKDQKNGLLSFIPILVKQRGLIANIVLATLLVTLINIVGSYYLQSIIDTYVPDQMRSTLGIISIG   211
NTDB id 247 KZH43 RS00220 WP 000668290.1     FEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTYVPDQMRSTLGIISIG   211
NTDB id 206 SPD RS00235 WP 000668290.1       FEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTYVPDQMRSTLGIISIG   211
NTDB id 171 SPR RS00230 WP 000668290.1       FEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTYVPDQMRSTLGIISIG   211
NTDB id 131 SP RS00255 WP 000668284.1        FEEEWTGVTLFMAPSPDYKPHKEQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTYVPDQMRSTLGIISIG   211
consensus                                    !**!!!!***!*!!*!*!!!****!!!!**!*!***!!**!***!**!*!*!!*!*!!!!!!!!!*!*!*!*!!***!!!*!*!!
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NTDB id 358 SMU RS01425 WP 002263523.1       LIITYIIQQVMAFAKEYLLAVLSLRLVIDVILSYIKHIFTLPMSFFATRRTGEITSRFTDANQIIDAVASTIFSIFLDMTMVILV   340
NTDB id 421 SGO RS10260 WP 012131060.1       LIIVYILQQFLSYAQEYLLLVLGQRLSIDVILSYIKHVFQLPMSFFATRRTGEIVSRFTDANRIIDALASTILSIFLDVSIVSII   296
NTDB id 511 SMSK321 RS10730 WP 000668322.1   LVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSIIDALASTILSIFLDVSTVVII   296
NTDB id 483 SM12261 RS00275 WP 000668315.1   LVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSIIDALASTILSIFLDVSTVVII   296
NTDB id 247 KZH43 RS00220 WP 000668290.1     LVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSIIDALASTILSIFLDVSTVVII   296
NTDB id 206 SPD RS00235 WP 000668290.1       LVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSIIDALASTILSIFLDVSTVVII   296
NTDB id 171 SPR RS00230 WP 000668290.1       LVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSIIDALASTILSIFLDVSTVVII   296
NTDB id 131 SP RS00255 WP 000668284.1        LVIVYIFQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSIIDALASTILSIFLDVSTVVII   296
consensus                                    !*!*!!*!!****!*!!!!*!!**!!*!!!!!!!!!!*!*!!!!!!!!!!!!!!!*!!!!!!!*!!!!*!!!!*!!!!!***!***
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NTDB id 358 SMU RS01425 WP 002263523.1    GGVLLAQNNNLFFLTLLSIPIYAIIIFAFLKPFEKMNHEVMESNAVVSSSIIEDINGMETIKSLTSESARYQNIDSEFVDYLEKN  425
NTDB id 421 SGO RS10260 WP 012131060.1    AIVLFSQNSSLFFLTLLGIPVYALIIFLFMKPFEKMNHETMEANSLLSSSIIEDINGIETIKSLTSEKQRYQKIDKEFVTYLKKS  381
NTDB id 511 SMSK321 RS10730 WP 000668322.1 SLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIETIKSLTSESQRYQKIDKEFVDYLKKS  381
NTDB id 483 SM12261 RS00275 WP 000668315.1 SLVLFSQNTNLFFITLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIETIKSLTSESQRYQKIDKEFVDYLKKS  381
NTDB id 247 KZH43 RS00220 WP 000668290.1  SLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIETIKSLTSESQRYQKIDKEFVDYLKKS  381
NTDB id 206 SPD RS00235 WP 000668290.1    SLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIETIKSLTSESQRYQKIDKEFVDYLKKS  381
NTDB id 171 SPR RS00230 WP 000668290.1    SLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIETIKSLTSESQRYQKIDKEFVDYLKKS  381
NTDB id 131 SP RS00255 WP 000668284.1     SLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIETIKSLTSESQRYQKIDKEFVDYLKKS  381
consensus                                 **!!**!!**!!!*!!!**!*!**!!!*!*!!!!!!!***!!*!***!!!!!!!!!!*!!!!!!!!!!**!!!*!!*!!!*!!*!*
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NTDB id 358 SMU RS01425 WP 002263523.1    FKLHKYSAIQTALKSGAKLILNVVILWYGSRLVMDNKISVGQLITFNALLSYFSNPIENIINLQSKLQSARVANTRLNEVYLVES  510
NTDB id 421 SGO RS10260 WP 012131060.1    FAYGRSESLQKVLKAAARLILNVLILWLGATLVMDQKISLGQLITYNTLLVYFTNPLENIINLQTKLQSARVANERLNEVYLVKS  466
NTDB id 511 SMSK321 RS10730 WP 000668322.1 FTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTNPLENIINLQTKLQTAQVANNRLNEVYLVTS  466
NTDB id 483 SM12261 RS00275 WP 000668315.1 FTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTNPLENIINLQTKLQTAQVANNRLNEVYLVAS  466
NTDB id 247 KZH43 RS00220 WP 000668290.1  FTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTNPLENIINLQTKLQTAQVANNRLNEVYLVAS  466
NTDB id 206 SPD RS00235 WP 000668290.1    FTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTNPLENIINLQTKLQTAQVANNRLNEVYLVAS  466
NTDB id 171 SPR RS00230 WP 000668290.1    FTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTNPLENIINLQTKLQTAQVANNRLNEVYLVAS  466
NTDB id 131 SP RS00255 WP 000668284.1     FTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTNPLENIINLQTKLQTAQVANNRLNEVYLVAS  466
consensus                                 !*********!**!!**!*!*!!!*!!!*!**!!!!*!*!*!!!!!*!*!!*!!*!!*!!!!!!!!*!!!*!*!!!*!!!!!!!!*!
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NTDB id 358 SMU RS01425 WP 002263523.1    EFEKDGDLSENSFLDGDISFENLSYKYGFGRDTLSDINLSIKKGSKVSLVGASGSGKTTLAKLIVNFYEPNKGIVRINGNDLKVI  595
NTDB id 421 SGO RS10260 WP 012131060.1    EFEEKKLIKDLSHFQADIDFRGVSYKYGYGANVLSEIDLHIPAGSKTSFVGVSGSGKTTLAKMMVHFYAPNQGDICLGGVNLNQL  551
NTDB id 511 SMSK321 RS10730 WP 000668322.1 EFEEKKTVEDLSLMKGEMTFKQVYYKYGYGRDVLSDINLTIPQGSKVAFVGISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQI  551
NTDB id 483 SM12261 RS00275 WP 000668315.1 EFEEKKTVEDLSLMKGDMTFKQVSYKYGYGRDVLLDINLTIPQGSKVAFVGISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQI  551
NTDB id 247 KZH43 RS00220 WP 000668290.1  EFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFVGISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQI  551
NTDB id 206 SPD RS00235 WP 000668290.1    EFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFVGISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQI  551
NTDB id 171 SPR RS00230 WP 000668290.1    EFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFVGISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQI  551
NTDB id 131 SP RS00255 WP 000668284.1     EFEEKKTVEDLSLMKGDMTFKQVHYKYGYGRDVLSDINLTVPQGSKVAFVGISGSGKTTLAKMMVNFYDPSQGEISLGSVNLNQI  551
consensus                                 !!!*********!********!***  !!!!*!***!**!*!****!!!***!!*!!!!!!!!!!**!*!!*!**!*********!***
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NTDB id 358 SMU RS01425 WP 002263523.1    DKTALRRHISYLPQQAYVFSGSIMDNLVLGAKEGTSQEDIIRACEIAEIRSDIEQMPQGYQTEL.SDGAGISGGQKQRIALARAL  679
NTDB id 421 SGO RS10260 WP 012131060.1    DKQALRQYINYLPQQPYVFNGTILENLLLGAREGTTQEDILRAVELAEIRSDIERMPLNYQTELSADGAGISGGQRQRIALARAL  636
NTDB id 511 SMSK321 RS10730 WP 000668322.1 DKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARAL  636
NTDB id 483 SM12261 RS00275 WP 000668315.1 DKKALRQYINYLPQQPYVFNGTILDNLLLGAKEGTTQEDILRAVELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARAL  636
NTDB id 247 KZH43 RS00220 WP 000668290.1  DKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARAL  636
NTDB id 206 SPD RS00235 WP 000668290.1    DKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARAL  636
NTDB id 171 SPR RS00230 WP 000668290.1    DKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARAL  636
NTDB id 131 SP RS00255 WP 000668284.1     DKKALRQYINYLSQQPYVFNGTILENLLLGAKEGTTQEDILRAVELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARAL  636
consensus                                 !!*!!!**!*!!*!!*!!!*!*!**!!*!!!*!!!*!!!!*!!!*!*!!!!*!!!*!!**!!!!!*!!!!!!!!!*!!!!!!!!!
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NTDB id 358 SMU RS01425 WP 002263523.1 LTQAPVLILDEATSSLDILTEKKIISNLLQMTEKTIIFVAHRLSISQRTDEVIVMDQGKIVEQGTHKELLAKQGFYYNLFN. 760
NTDB id 421 SGO RS10260 WP 012131060.1 LTDAPVLILDEATSSLDILTEKRIIDNLMVL.DKTIIFIAHRLTIAERSEQVVVLDQGRIVESGSHKELIEREGFYHHLVNS 717
NTDB id 511 SMSK321 RS10730 WP 000668322.1 LTDAPILILDEATSSLDILTEKRIVDNLMAL.DKTLIFIAHRLTIAERTEKVVVLNQGKIVEEGKHADLLAQGGFYAHLVNS 717
NTDB id 483 SM12261 RS00275 WP 000668315.1 LTDAPVLILDEATSSLDILTEKRIVDNLMAL.DKTLIFIAHRLTIAERTEKVVVLDQGKIVEEGNHADLLAQGGFYAHLVNS 717
NTDB id 247 KZH43 RS00220 WP 000668290.1 LTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS 717
NTDB id 206 SPD RS00235 WP 000668290.1 LTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS 717
NTDB id 171 SPR RS00230 WP 000668290.1 LTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS 717
NTDB id 131 SP RS00255 WP 000668284.1 LTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIFIAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS 717
consensus
X non conserved
X similar
X ≥ 50% conserved