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logo
NTDB id 358 SMU RS01425 WP 002263523.1       MKQVIYVVLIVIAVNILLEIIKRVTKRGGTVSSSNPLPDGQSKLFWRRHYKLVPQIDTRDCGPAVLASVAKHYGSNYSIAYLREL   85
NTDB id 421 SGO RS10260 WP 012131060.1       ..........................................MKFRKQHY..RAQVDTRDCGVAALAMIFGYYGSYFSLATLREK   41
NTDB id 91210 L6411 RS00365 WP 120171173.1   ..........................................MKFRKRHY..RAQVDTRDCGVAALAMILEYHHSHHSLASLREL   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                                    ..........................................**!***!!  **!*!**!!!*!*!!*******!****!*!!!*

logo
NTDB id 358 SMU RS01425 WP 002263523.1       SKTNKQGTTALGIVEAAKKLGFETRSIKADMTLFDYNDLTYPFIVHVIKGKRLQHYYVVYGSQNNQLIIGDPDPSVKVTRMSKER   170
NTDB id 421 SGO RS10260 WP 012131060.1       AKTTNDGTTALGLVKVAEGLNFETRAFKADMSLFDLEEVSYPFIAHILKDGKLLHYYVVTGQDKHTIHIADPDPQVKMTKISRER   126
NTDB id 91210 L6411 RS00365 WP 120171173.1   AKTTMEGTTAFGLVKVAEDLGLETRAIRADMSLFEVGDLTYPFIAHVLKDGKLMHYYVVTGADEKTIHIADPDPSVKLTKLTRER   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                                    *!!***!!!!*!*!**!*****!!!***!!!*!!*******!!**!**!***!*!!!!!*!*******!*!!!!*!!*!****!!

logo
NTDB id 358 SMU RS01425 WP 002263523.1       FQSEWTGLAIFLAPQPNYKPHKGEKNGLSNFFPLIFKQKALMTYIIIASLIVTLIDIVGSYYLQGILDEYIPDQLISTLGMITIG   255
NTDB id 421 SGO RS10260 WP 012131060.1       FEQEWTGITIFLAPSPAYKPSQEKKNGLLDFIPLLIKQKGLITNIVLATLLVTLINIVGSYYLQSIIDTYVPDHMKTTLGMISIG   211
NTDB id 91210 L6411 RS00365 WP 120171173.1   FEQEWTGVSLFMAPRPEYQPHKEKKQGLLSFVPLLAKQKRLIGNIILATLLVTLINIVGSYYLQSIIDTYVPNQMKTTLGVISIG   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                                    !**!!!!***!*!!*!*!*!****!*!!**!*!***!!**!***!**!*!*!!*!*!!!!!!!!*!*!*!*!*****!!!*!*!!

logo
NTDB id 358 SMU RS01425 WP 002263523.1       LIITYIIQQVMAFAKEYLLAVLSLRLVIDVILSYIKHIFTLPMSFFATRRTGEITSRFTDANQIIDAVASTIFSIFLDMTMVILV   340
NTDB id 421 SGO RS10260 WP 012131060.1       LIIVYILQQFLSYAQEYLLLVLGQRLSIDVILSYIKHVFQLPMSFFATRRTGEIVSRFTDANRIIDALASTILSIFLDVSIVSII   296
NTDB id 91210 L6411 RS00365 WP 120171173.1   LVVVYALQQLLSYAQEYLLIILGQRLSIDVILSYIRHVFHLPMSFFATRRTGEIVSRFTDANSIIDALASTILSIFLDVSIILII   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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logo

NTDB id 358 SMU RS01425 WP 002263523.1      GGVLLAQNNNLFFLTLLSIPIYAIIIFAFLKPFEKMNHEVMESNAVVSSSIIEDINGMETIKSLTSESARYQNIDSEFVDYLEKN   425
NTDB id 421 SGO RS10260 WP 012131060.1      AIVLFSQNSSLFFLTLLGIPVYALIIFLFMKPFEKMNHETMEANSLLSSSIIEDINGIETIKSLTSEKQRYQKIDKEFVTYLKKS   381
NTDB id 91210 L6411 RS00365 WP 120171173.1  SVVLFSQNIYLFFIALLSLPIYSVIIFAFMKPFERMNQEVMETNAVLSSSIIEDINGIETIKSLTSEKQRYQKIDKEFVDYLKKS   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                                   **!!**!!**!!!**!!**!*!**!!!*!*!!!!*!!***!!*!***!!!!!!!!!!*!!!!!!!!!!**!!!*!!*!!!*!!*!*

logo

NTDB id 358 SMU RS01425 WP 002263523.1      FKLHKYSAIQTALKSGAKLILNVVILWYGSRLVMDNKISVGQLITFNALLSYFSNPIENIINLQSKLQSARVANTRLNEVYLVES   510
NTDB id 421 SGO RS10260 WP 012131060.1      FAYGRSESLQKVLKAAARLILNVLILWLGATLVMDQKISLGQLITYNTLLVYFTNPLENIINLQTKLQSARVANERLNEVYLVKS   466
NTDB id 91210 L6411 RS00365 WP 120171173.1  FAYNKAEGQQKVLKRLAQLVLNVAILWLGATLVMDNKMTLGQLITFNTLLVYFTNPLENIINLQTKLQTARVANNRLNEVYLVES   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                                   !********!**!!**!*!*!!!*!!!*!**!!!!*!***!!!!!*!*!!*!!*!!*!!!!!!!*!!!*!*!!!*!!!!!!!!*!

logo

NTDB id 358 SMU RS01425 WP 002263523.1      EFEKDGDLSENSFLDGDISFENLSYKYGFGRDTLSDINLSIKKGSKVSLVGASGSGKTTLAKLIVNFYEPNKGIVRINGNDLKVI   595
NTDB id 421 SGO RS10260 WP 012131060.1      EFEEKKLIKDLSHFQADIDFRGVSYKYGYGANVLSEIDLHIPAGSKTSFVGVSGSGKTTLAKMMVHFYAPNQGDICLGGVNLNQL   551
NTDB id 91210 L6411 RS00365 WP 120171173.1  EFADQKTVTDLSLVSGDIDFRDVSYKYGYGADVLSDINLTIKRGEKISFVGVSGSGKTTLAKMMVNFYDPYKGEINLNNVNLNQI   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                                   !!*********!*******!*** !!!!*!***!**!*!****!*!***!!*!!!!!!!!!!**!*!!*!**!********!***

logo

NTDB id 358 SMU RS01425 WP 002263523.1      DKTALRRHISYLPQQAYVFSGSIMDNLVLGAKEGTSQEDIIRACEIAEIRSDIEQMPQGYQTEL.SDGAGISGGQKQRIALARAL   679
NTDB id 421 SGO RS10260 WP 012131060.1      DKQALRQYINYLPQQPYVFNGTILENLLLGAREGTTQEDILRAVELAEIRSDIERMPLNYQTELSADGAGISGGQRQRIALARAL   636
NTDB id 91210 L6411 RS00365 WP 120171173.1  DKHALRQHINYLPQQPYIFNGTILENLLLGAKEGTTQEDVLRAVEIACIREDIEKMPLNYQTELTSDGSGISGGQRQRIALARAL   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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logo
NTDB id 358 SMU RS01425 WP 002263523.1      LTQAPVLILDEATSSLDILTEKKIISNLLQMTEKTIIFVAHRLSISQRTDEVIVMDQGKIVEQGTHKELLAKQGFYYNLFN.   760
NTDB id 421 SGO RS10260 WP 012131060.1      LTDAPVLILDEATSSLDILTEKRIIDNLMVL.DKTIIFIAHRLTIAERSEQVVVLDQGRIVESGSHKELIEREGFYHHLVNS   717
NTDB id 91210 L6411 RS00365 WP 120171173.1 LTDAPIMILDEATSSLDILTEKRIVDNLLAL.DKTLIFIVHRLTIAERTERVVVLDKGKIVEQGCHRELLDQQGFYAHLVNS   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                                  !!*!!**!!!!!!!!!!!!!!!!*!**!!*** *!!*!!**!!!*!**!***!*!***!*!!!*!*!**!****!!!**!*!*
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X non conserved

X similar

X $\geq$ 50% conserved