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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1          ..........................................MKFRKQHY..RAQVDTRDCGVAALAMIFGYYGSYFSLA    36
NTDB id 511 SMSK321 RS10730 WP 000668322.1      ..........................................MKFGKRHY..RPQVDQMDCGVASLAMVFGYYGSYYSLA    36
NTDB id 483 SM12261 RS00275 WP 000668315.1      ..........................................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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1   ..........................................................................    0
NTDB id 358 SMU RS01425 WP 002263523.1          MKQVIYVVLIVIAVNILLEIIKRVTKRGGTVSSSNPLPDGQSKLFWRRHYKLVPQIDTRDCGPAVLASVAKHYGSNYSIA    80
consensus                                                                                 ********  ************************ **

logo
NTDB id 421 SGO RS10260 WP 012131060.1          TLREKAKTTNDGTTALGLVKVAEGLNFETRAFKADMSLFDLEEVSYPFIAHILKDGKLLHYYVVTGQDKHTIHIADPDPQ    116
NTDB id 511 SMSK321 RS10730 WP 000668322.1      HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKGSIHIADPDPG    116
NTDB id 483 SM12261 RS00275 WP 000668315.1      HLRELAKTTMDGTTALGLVKVAEEIGFETRAIKADMTLFDLPDLTFPFVAHVLKEGKLLHYYVVTGQDKDSIHIADPDPG    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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1   ..........................................................................    0
NTDB id 358 SMU RS01425 WP 002263523.1          YLRELSKTNKQGTTALGIVEAAKKLGFETRSIKADMTLFDYNDLTYPFIVHVIKGKRLQHYYVVYGSQNNQLIIGDPDPS    160
consensus                                       ****************************************************************************

logo
NTDB id 421 SGO RS10260 WP 012131060.1          VKMTKISRERFEQEWTGITIFLAPSPAYKPSQEKKNGLLDFIPLLIKQKGLITNIVLATLLVTLINIVGSYYLQSIIDTY    196
NTDB id 511 SMSK321 RS10730 WP 000668322.1      VKLTKLPRERFAEEWTGVTLFMAPSPDYKPHKDQKNGLLSFIPILVKQRGLIANIVLATLLVTVINIVGSYYLQSIIDTY    196
NTDB id 483 SM12261 RS00275 WP 000668315.1      VKLTKLPRERFAEEWTGVTLFMAPSPDYKPHKDQKNGLLSFIPILVKQRGLIANIVLATLLVTLINIVGSYYLQSIIDTY    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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1   ..........................................................MVLSSLLVTIINIGGSYYLQGILDEY    26
NTDB id 358 SMU RS01425 WP 002263523.1          VKVTRMSKERFQSEWTGLAIFLAPQPNYKPHKGEKNGLSNFFPLIFKQKALMTYIIIASLIVTLIDIVGSYYLQGILDEY    240
consensus                                       ************************************************************!*!!*!*!*!!!!!!*!*!*!

logo
NTDB id 421 SGO RS10260 WP 012131060.1          VPDHMKTTLGMISIGLIIVYILQQFLSYAQEYLLLVLGQRLSIDVILSYIKHVFQLPMSFFATRRTGEIVSRFTDANRII    276
NTDB id 511 SMSK321 RS10730 WP 000668322.1      VPDQMRSTLGIISIGLVIVYILQQILSYAQEYLLLVLGQRLSIDVILSYIKHVFHLPMSFFATRRTGEIVSRFTDANSII    276
NTDB id 483 SM12261 RS00275 WP 000668315.1      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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1   IPNQMKSTLGIISVGLVITYILQQVMSFSRDYLLTVLSQRLSIDVILSYIRHIFELPMSFFATRRTGEIISRFTDANSII    106
NTDB id 358 SMU RS01425 WP 002263523.1          IPDQLISTLGMITIGLIITYIIQQVMAFAKEYLLAVLSLRLVIDVILSYIKHIFTLPMSFFATRRTGEITSRFTDANQII    320
consensus                                       *!*****!!!*!**!!*!*!!*!!******!!!*!!**!!*!!!!!!!!!*!*!*!!!!!!!!!!!!!!!!!!!!!!!!!!
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logo

NTDB id 421 SGO RS10260 WP 012131060.1          DALASTILSIFLDVSIVSIIAIVLFSQNSSLFFLTLLGIPVYALIIFLFMKPFEKMNHETMEANSLLSSSIIEDINGIET   356
NTDB id 511 SMSK321 RS10730 WP 000668322.1      DALASTILSIFLDVSTVVIISLVLFSQNTNLFFMTLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET   356
NTDB id 483 SM12261 RS00275 WP 000668315.1      DALASTILSIFLDVSTVVIISLVLFSQNTNLFFITLLALPIYTVIIFAFMKPFEKMNRDTMEANAVLSSSIIEDINGIET   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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1  DALASTILSLFLDVSILILVGGVLLAQNPNLFLLSLLSIPIYMFIIFSFMKPFEKMNHDVMQSNSMVSSAIIEDINGIKT   186
NTDB id 358 SMU RS01425 WP 002263523.1          DAVASTIFSIFLDMTMVILVGGVLLAQNNNLFFLTLLSIPIYAIIIFAFLKPFEKMNHEVMESNAVVSSSIIEDINGMET   400
consensus                                       !!*!!!!*!*!!!*********!!**!!**!!***!!**!*!**!!!*!*!!!!!!!***!**!***!!*!!!!!!!**!

logo

NTDB id 421 SGO RS10260 WP 012131060.1          IKSLTSEKQRYQKIDKEFVTYLKKSFAYGRSESLQKVLKAAARLILNVLILWLGATLVMDQKISLGQLITYNTLLVYFTN   436
NTDB id 511 SMSK321 RS10730 WP 000668322.1      IKSLTSESQRYQKIDKEFVDYLKKSFTYSRAESQQKALKKVAHLLLNVGILWMGAVLVMDGKMSLGQLITYNTLLVYFTN   436
NTDB id 483 SM12261 RS00275 WP 000668315.1      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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1  IKSLTSEENRYQNIDSEFVDYLEKSFKLSKYSILQTSLKQGTKLVLNILILWFGAQLVMSSKISIGQLITFNTLFSYFTT   266
NTDB id 358 SMU RS01425 WP 002263523.1          IKSLTSESARYQNIDSEFVDYLEKNFKLHKYSAIQTALKSGAKLILNVVILWYGSRLVMDNKISVGQLITFNALLSYFSN   480
consensus                                       !!!!!!!**!!!*!!*!!!*!!*!*!********!**!!****!*!!**!!!*!**!!!**!*!*!!!!!*!*!**!!**

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NTDB id 421 SGO RS10260 WP 012131060.1          PLENIINLQTKLQSARVANERLNEVYLVKSEFEEKKLIKDLSHFQADIDFRGVSYKYGYGANVLSEIDLHIPAGSKTSFV   516
NTDB id 511 SMSK321 RS10730 WP 000668322.1      PLENIINLQTKLQTAQVANNRLNEVYLVTSEFEEKKTVEDLSLMKGEMTFKQVYYKYGYGRDVLSDINLTIPQGSKVAFV   516
NTDB id 483 SM12261 RS00275 WP 000668315.1      PLENIINLQTKLQTAQVANNRLNEVYLVASEFEEKKTVEDLSLMKGDMTFKQVSYKYGYGRDVLLDINLTIPQGSKVAFV   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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1  PMENIINLQTKLQSAKVANNRLNEVYLVESEFQVQENPVHSHFLMGDIEFDDLSYKYGFGRDTLTDINLTIKQGDKVSLV   346
NTDB id 358 SMU RS01425 WP 002263523.1          PIENIINLQSKLQSARVANTRLNEVYLVESEFEKDGDLSENSFLDGDISFENLSYKYGFGRDTLSDINLSIKKGSKVSLV   560
consensus                                       !*!!!!!!!*!!!*!*!!!*!!!!!!!!!*!!!*****************!***  !!!!*!***!**!*!****!*!***!

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NTDB id 421 SGO RS10260 WP 012131060.1          GVSGSGKTTLAKMMVHFYAPNQGDICLGGVNLNQLDKQALRQYINYLPQQPYVFNGTILENLLLGAREGTTQEDILRAVE   596
NTDB id 511 SMSK321 RS10730 WP 000668322.1      GISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRAVE   596
NTDB id 483 SM12261 RS00275 WP 000668315.1      GISGSGKTTLAKMMVNFYDPSQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILDNLLLGAKEGTTQEDILRAVE   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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1  GVSGSGKTTLAKMIVNFFEPYKGHISINHQDIKNIDKKVLRRHINYLPQQAYIFNGSILENLTLGGNHMISQEDILRACE   426
NTDB id 358 SMU RS01425 WP 002263523.1          GASGSGKTTLAKLIVNFYEPNKGIVRINGNDLKVIDKTALRRHISYLPQQAYVFSGSIMDNLVLGAKEGTSQEDIIRACE   640
consensus                                       !*!!!!!!!!!!**!*!**!**!***********!!**!!**!*!!*!!*!*!*!*!**!!*!!******!!!!*!!*!
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NTDB id 421 SGO RS10260 WP 012131060.1          LAEIRSDIERMPLNYQTELSADGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIIDNLMVL.DKTIIFIA   675
NTDB id 511 SMSK321 RS10730 WP 000668322.1      LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPILILDEATSSLDILTEKRIVDNLMAL.DKTLIFIA   675
NTDB id 483 SM12261 RS00275 WP 000668315.1      LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLMAL.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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1  LAEIRQDIERMPMGYQTQL.SDGAGLSGGQKQRIALARALLTKSPVLILDEATSGLDVLTEKKVIDNLMSLTDKTILFVA   505
NTDB id 358 SMU RS01425 WP 002263523.1          IAEIRSDIEQMPQGYQTEL.SDGAGISGGQKQRIALARALLTQAPVLILDEATSSLDILTEKKIISNLLQMTEKTIIFVA   719
consensus                                       *!!!!*!!!*!!**!!!*!**!!!!*!!!!*!!!!!!!!!!!**!*!!!!!!!!*!!*!!!!***!!***  *!!**!*!
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logo
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NTDB id 421 SGO RS10260 WP 012131060.1          HRLTIAERSEQVVVLDQGRIVESGSHKELIEREGFYHHLVNS   717
NTDB id 511 SMSK321 RS10730 WP 000668322.1      HRLTIAERTEKVVVLNQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 483 SM12261 RS00275 WP 000668315.1      HRLTIAERTEKVVVLDQGKIVEEGNHADLLAQGGFYAHLVNS   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
NTDB id 1043726 ACD268 RS08380 WP 078132631.1  HRLSIAERTNRVIVLDQGKIIEVGSHQELMQAQGFYHHLFNK   547
NTDB id 358 SMU RS01425 WP 002263523.1          HRLSISQRTDEVIVMDQGKIVEQGTHKELLAKQGFYYNLFN.   760
consensus                                       !!!*!**!***!*!**!!*!*!*!*!**!****!!!**!*!*
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X non conserved

X similar

X $\geq$ 50% conserved