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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 421 SGO RS10260 WP 012131060.1          ..................................................MKFRKQHYRAQVDTRDCGVAALAMIFGYYGSYFSLA   36
NTDB id 511 SMSK321 RS10730 WP 000668322.1      ..................................................MKFGKRHYRPQVDQMDCGVASLAMVFGYYGSYYSLA   36
NTDB id 483 SM12261 RS00275 WP 000668315.1      ..................................................MKFGKRHYRPQVDQMDCGVASLAMVFGYYGSYYSLA   36
NTDB id 247 KZH43 RS00220 WP 000668290.1        ..................................................MKFGKRHYRPQVDQMDCGVASLAMVFGYYGSYYFLA   36
NTDB id 206 SPD RS00235 WP 000668290.1          ..................................................MKFGKRHYRPQVDQMDCGVASLAMVFGYYGSYYFLA   36
NTDB id 171 SPR RS00230 WP 000668290.1          ..................................................MKFGKRHYRPQVDQMDCGVASLAMVFGYYGSYYFLA   36
NTDB id 131 SP RS00255 WP 000668284.1           ..................................................MKFGKRHYRPQVDQMDCGVASLAMVFGYYGSYYFLA   36
NTDB id 32989 SPNINV200 RS02495 WP 000205157.1  ..................................................MTSYKRTFVPQIDARDCGVAALASIAKFYGSDFSLA   36
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 32989 SPNINV200 RS02495 WP 000205157.1  HLRELAKTNKEGTTALGIVKAADEMGFETRPVQADKTLFDMSDVPYPFIVHVNKEGKLQHYYVVYQTKKDYLIIGDPDPS   116
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 32989 SPNINV200 RS02495 WP 000205157.1  VKITKMSKERFFSEWTGVAIFLAPKPSYQPHKDKKNGLLSFLPLIFKQKSLIAYIVLSSLLVTIINIGGSYYLQGILDEY   196
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 32989 SPNINV200 RS02495 WP 000205157.1  IPNQMKSTLGIISVGLVITYILQQVMSFSRDYLLTVLSQRLSIDVILSYIRHIFELPMSFFATRRTGEIISRFTDANSII   276
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 32989 SPNINV200 RS02495 WP 000205157.1  DALASTILSLFLDVSILILVGGVLLAQNPNLFLLSLLSIPIYMFIIFSFMKPFEKMNHDVMQSNSMVSSAIIEDINGIET   356
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 32989 SPNINV200 RS02495 WP 000205157.1  IKSLTSEENRYQNIDSEFVDYLEKSFKLSKYSILQTSLKQGTKLVLNILILWFGAQLVMSSKISIGQLITFNTLFSYFTT   436
NTDB id 358 SMU RS01425 WP 002263523.1          IKSLTSESARYQNIDSEFVDYLEKNFKLHKYSAIQTALKSGAKLILNVVILWYGSRLVMDNKISVGQLITFNALLSYFSN   480
consensus                                       !!!!!!!**!!!*!!*!!!*!!*!*!********!**!!***!*!!**!!!*!**!!!**!*!*!!!!!*!*!*!**!!**

logo

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 32989 SPNINV200 RS02495 WP 000205157.1  PMENIINLQTKLQSAKVANNRLNEVYLVESEFQAPENPVHSHFLMGDIEFDDLSYKYGFGRDTLTDINLTIKQGDKVSLV   516
NTDB id 358 SMU RS01425 WP 002263523.1          PIENIINLQSKLQSARVANTRLNEVYLVESEFEKDGDLSENSFLDGDISFENLSYKYGFGRDTLSDINLSIKKGSKVSLV   560
consensus                                       !*!!!!!!!!*!!!*!*!!!!*!!!!!!!!*!!!*****************!*** !!!!*!***!**!*!****!*!***!

logo

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 32989 SPNINV200 RS02495 WP 000205157.1  GVSGSGKTTLAKMIVNFFEPYKGHISINHQDIKNIDKKVLRRHINYLPQQAYIFNGSILENLTLGGNHMISQEDILKACE   596
NTDB id 358 SMU RS01425 WP 002263523.1          GASGSGKTTLAKLIVNFYEPNKGIVRINGNDLKVIDKTALRRHISYLPQQAYVFSGSIMDNLVLGAKEGTSQEDIIRACE   640
consensus                                       !*!!!!!!!!!!**!*!**!**!***********!!**!!**!*!!*!!*!*!*!*!**!!*!!******!!!!**!*!
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logo
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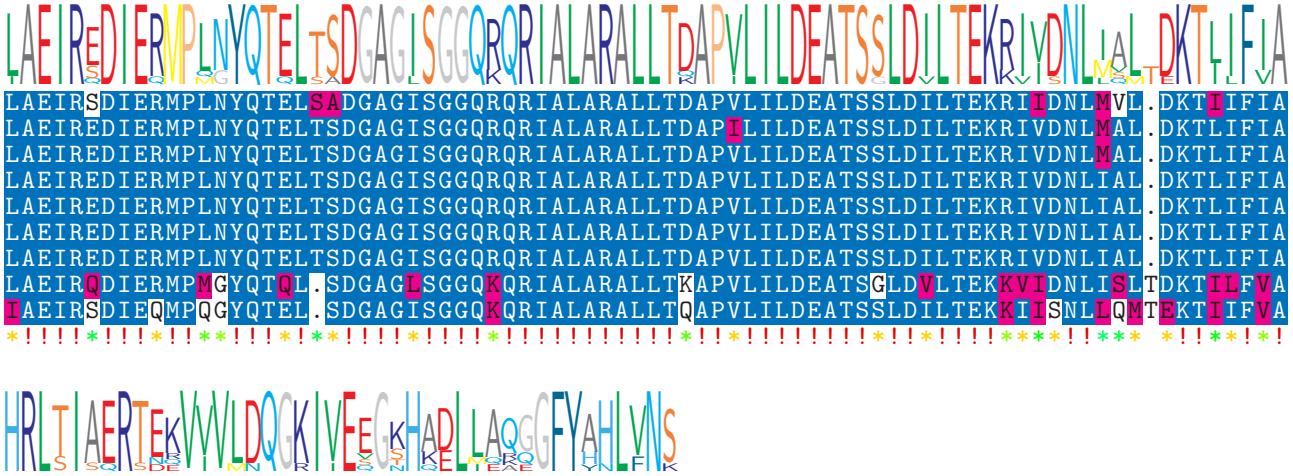

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NTDB id 511 SMSK321 RS10730 WP 000668322.1      LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPILILDEATSSLDILTEKRIVDNLMAL.DKTLIFIA   675
NTDB id 483 SM12261 RS00275 WP 000668315.1      LAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLMAL.DKTLIFIA   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 32989 SPNINV200 RS02495 WP 000205157.1  LAEIRQDIERMPMGYQTQL.SDGAGLSGGQKQRIALARALLTKAPVLILDEATSGLDVLTEKKVIDNLISLTDKTILFVA   675
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 32989 SPNINV200 RS02495 WP 000205157.1  HRLSIAERTNRVIVLDQGKIIEVGSHQELMQAQGFYHHLFNK   717
NTDB id 358 SMU RS01425 WP 002263523.1          HRLSISQRTDEVIVMDQGKIVEQGTHKELLAKQGFYYNLFN.   760
consensus                                       !!!*!**!***!*!**!!*!*!*!*!**!****!!!**!*!*
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X non conserved

X similar

X $\geq$ 50% conserved