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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1074247 ACI3EM RS12455 WP 013246039.1   ...............................MIKYNLKLGQ.AQYYKRYY..TPQVDERDCGVAALNMLLQFNGSDYSLA   46
NTDB id 358 SMU RS01425 WP 002263523.1          MKQVIYVVLIVIAVNILLEIIKRVTKRGGTVSSSNPLPDGQSKLFWRRHYKLVPQIDTRDCGPAVLASVAKHYGSNYSIA   80
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
consensus                                                                                *******!  **!*!**!!!*!*!*******!!****!

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1074247 ACI3EM RS12455 WP 013246039.1   HLRQLAKTDQEGTTALGIVRAAQALHFETKAVKADMTLFDLDDVPYPFLVHVLKRGELLHYYVVFKATKDHILIGDPDPS  126
NTDB id 358 SMU RS01425 WP 002263523.1          YLRELSKTNKQGTTALGIVEAAKKLGFETRSIKADMTLFDYNDLTYPFIVHVIKGKRLQHYYVVYGSQNNQLIIGDPDPS  160
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
consensus                                       *!!***!!***!!!!!!*!**!****!!!***!!!!*!!!******!!**!**!***!*!!!!!*********!*!!!!*

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1074247 ACI3EM RS12455 WP 013246039.1   VAMTWLPKDRFAKEWSGVAIFIAPEPQYQPRKEDKGSLFAFVPMLARQKGIIANIIVAAVLITLISIVGSYFLQSIIDTY  206
NTDB id 358 SMU RS01425 WP 002263523.1          VKVTRMSKERFQSEWTGLAIFLAPQPNYKPHKGEKNGLSNFFPLIFKQKALMTYIIIASLIVTLIDIVGSYYLQGILDEY  240
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
consensus                                       !**!*****!!**!!*!***!*!!*!*!*!****!**!**!*!****!******!**!****!*!*!!!!!*!!*!*!*!

logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1074247 ACI3EM RS12455 WP 013246039.1   IPNGMRTTLGMIATGLILAYVLQSVLTYGQNFLMAVLGQRLSIDVILGYVRHLYELPMSFFSTRRTGEIVSRFSDANKII  286
NTDB id 358 SMU RS01425 WP 002263523.1          IPDQLISTLGMITIGLIITYIIQQVMAFAKEYLLAVLSLRLVIDVILSYIKHIFTLPMSFFATRRTGEITSRFTDANQII  320
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
consensus                                       *!*****!!!*!**!!***!**!********!**!!**!!*!!!!!*!**!***!!!!!!*!!!!!!!!*!!!*!!!*!!
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logo

NTDB id 1074247 ACI3EM RS12455 WP 013246039.1  DALANTIMTLFLDIWIVLILGIVLGIQNTTLFLVSLIAVPCYLVIVFAFQRPFNRLNQETMESNAILSSSIIEDLNGIET  366
NTDB id 358 SMU RS01425 WP 002263523.1         DAVASTIFSIFLDMTMVILVGGVLLAQNNNLFFLTLLSIPIYAIIIFAFLKPFEKMNHEVMESNAVVSSSIIEDINGMET  400
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
consensus                                      !!*!*!!***!!!***!*****!!**!!**!!***!***!*!**!*!*!**!!***!***!!*!***!!!!!!!*!!*!!

logo

NTDB id 1074247 ACI3EM RS12455 WP 013246039.1  IKSLTGEKVSYERVDREFVTYLKKSFNYTKADQLQQAIKGLLKLVLNVVVLWIGASLVMANKMSLGQMLTFNALLAYFTN  446
NTDB id 358 SMU RS01425 WP 002263523.1         IKSLTSESARYQNIDSEFVDYLEKNFKLHKYSAIQTALKSGAKLILNVVILWYGSRLVMDNKISVGQLITFNALLSYFSN  480
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
consensus                                      !!!!!*!***!***!*!!!*!!*!*********!***!****!*!!!**!!*!**!!!**!*!*!!**!*!*!!*!!*!

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NTDB id 1074247 ACI3EM RS12455 WP 013246039.1  PLESIINLQPKLQMAKVANNRLNEVYLVESEFKEQRSLNDRHLIDGAINVTDVSFKYGFGQDVLKQINLEIPENAKYTIV  526
NTDB id 358 SMU RS01425 WP 002263523.1         PIENIINLQSKLQSARVANTRLNEVYLVESEFEKDGDLSENSFLDGDISFENLSYKYGFGRDTLSDINLSIKKGSKVSLV  560
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
consensus                                      !*!*!!!!!*!!!*!*!!!*!!!!!!!!!*!!!**********************  *!!!*!***!**!*!******!***!

logo

NTDB id 1074247 ACI3EM RS12455 WP 013246039.1  GMSGSGKSTLAKLLVGFYPVDTGKGKITFNGVPISDVDLTTLRQYIEYVPQDPFIFSGSVIENLTLGSRSNITEADIEAA  606
NTDB id 358 SMU RS01425 WP 002263523.1         GASGSGKTTLAKLIVNFYEP..NKGIVRINGNDLKVIDKTALRRHISYLPQQAYVFSGSIMDNLVLGAKEGTSQEDIRA  638
NTDB id 421 SGO RS10260 WP 012131060.1         GVSGSGKTTLAKMMVHFYAP..NQGDICLGGVNLNQLDKQALRQYINYLPQQPYVFNGTILENLLLGAREGTTQEDILRA  594
NTDB id 511 SMSK321 RS10730 WP 000668322.1     GISGSGKTTLAKMMVNFYDP..SQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRA  594
NTDB id 483 SM12261 RS00275 WP 000668315.1     GISGSGKTTLAKMMVNFYDP..SQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILDNLLLGAKEGTTQEDILRA  594
NTDB id 247 KZH43 RS00220 WP 000668290.1       GISGSGKTTLAKMMVNFYDP..SQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRA  594
NTDB id 206 SPD RS00235 WP 000668290.1         GISGSGKTTLAKMMVNFYDP..SQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRA  594
NTDB id 171 SPR RS00230 WP 000668290.1         GISGSGKTTLAKMMVNFYDP..SQGEISLGGVNLNQIDKKALRQYINYLPQQPYVFNGTILENLLLGAKEGTTQEDILRA  594
NTDB id 131 SP RS00255 WP 000668284.1          GISGSGKTTLAKMMVNFYDP..SQGEISLGSVNLNQIDKKALRQYINYLSQQPYVFNGTILENLLLGAKEGTTQEDILRA  594
consensus                                      !*!!!!!*!!!!**!*!!**  **!************!***!!**!*!**!****!*!****!!*!!********!!**!
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NTDB id 1074247 ACI3EM RS12455 WP 013246039.1  CSVAEIAGDISNLPQIWQTKLSESGSILSGGQKQRLAIARALLSPAKVLIFDESTSSLDTITERKIVDRLLAMTDRTIIF   686
NTDB id 358 SMU RS01425 WP 002263523.1         CEIAEIRSDIEQMPQGYQTEL.SDGAGISGGQKQRIALARALLTQAPVLILDEATSSLDILTEKKIISNLLQMTEKTIIF   717
NTDB id 421 SGO RS10260 WP 012131060.1         VELAEIRSDIERMPLNYQTELSADGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIIDNLMVL.DKTIIF   673
NTDB id 511 SMSK321 RS10730 WP 000668322.1     VELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPILILDEATSSLDILTEKRIVDNLMAL.DKTLIF   673
NTDB id 483 SM12261 RS00275 WP 000668315.1     VELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLMAL.DKTLIF   673
NTDB id 247 KZH43 RS00220 WP 000668290.1       VELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIF   673
NTDB id 206 SPD RS00235 WP 000668290.1         VELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIF   673
NTDB id 171 SPR RS00230 WP 000668290.1         VELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIF   673
NTDB id 131 SP RS00255 WP 000668284.1          VELAEIREDIERMPLNYQTELTSDGAGISGGQRQRIALARALLTDAPVLILDEATSSLDILTEKRIVDNLIAL.DKTLIF   673
consensus                                      ***!!!**!!***!***!!*!***!***!!!!*!!*!*!!!!!**!**!!*!!!!!**!!**!***!***  **!*!!
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logo
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NTDB id 1074247 ACI3EM RS12455 WP 013246039.1  VAHRLTIAAKTEQIVVMDHGAIVEQGNHAELLAKQGYYARLVSE   730
NTDB id 358 SMU RS01425 WP 002263523.1         VAHRLSISQRTDEVIVMDQGKIVEQGTHKELLAKQGFYYNLFN.   760
NTDB id 421 SGO RS10260 WP 012131060.1         IAHRLTIAERSEQVVVLDQGRIVESGSHKELIEREGFYHHLVNS   717
NTDB id 511 SMSK321 RS10730 WP 000668322.1     IAHRLTIAERTEKVVVLNQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 483 SM12261 RS00275 WP 000668315.1     IAHRLTIAERTEKVVVLDQGKIVEEGNHADLLAQGGFYAHLVNS   717
NTDB id 247 KZH43 RS00220 WP 000668290.1       IAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 206 SPD RS00235 WP 000668290.1         IAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 171 SPR RS00230 WP 000668290.1         IAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
NTDB id 131 SP RS00255 WP 000668284.1          IAHRLTIAERTEKVVVLDQGKIVEEGKHADLLAQGGFYAHLVNS   717
consensus                                      *!!!!*!********!***!*!!!*!*!**!****!*!**!***
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X non conserved

X similar

X $\geq$ 50% conserved