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logo
NTDB id 596 KW2 RS08720 WP 021037686.1      .MR.FLLIKFPLIFLTYLVVLLYFCIFTYNLPLLLLFI....CSILLALF.....RKYYLMIPILIVFAVF...FLLINSLSIRD   71
NTDB id 91142 SUT RS06955 WP 237373048.1    MLRL.DKLPCQPIHLAILAVVTYFTVHRFSMLTM.....SLLILLLIIFWRRQGKLTFFKMLPLLVLCGLF...FGCQKLKWKQE   76
NTDB id 494 SM12261 RS04305 WP 000942409.1  MLQWIKNFSIPLIYLSFLLLWLYYAIFSSSYLALLGFVFLLVCLFIQFPWKSAGK........VLIICGIFGFWFLFQNWQQSQA   77
NTDB id 522 SMSK321 RS04965 WP 000942453.1  MLQWTKNFPIPLIYLSFLLLWLYYAIFSVSYLALLGFVFLLVCLFIQFLWKSAGK........VLVICGIFGFWFVFQNWQQSQA   77
NTDB id 189 SPR RS04300 WP 000942407.1      MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGK........VLIICGIFGFWFVFQNWQQSQA   77
NTDB id 223 SPD RS04540 WP 000942407.1      MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGK........VLIICGIFGFWFVFQNWQQSQA   77
NTDB id 154 SP RS04735 WP 000942394.1       MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGK........VLIICGIFGFWFVFQNWQQSQA   77
NTDB id 264 KZH43 RS04200 WP 000942407.1    MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGK........VLIICGIFGFWFVFQNWQQSQA   77
consensus                                   ************!*!**!****!*****  **************************        *!*****!***!*********

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NTDB id 596 KW2 RS08720 WP 021037686.1      NFNQPKTLSKIELISDTIQVNGDLLSFQGRMNGQNYQVYDTLKSLKEKKFYQNLSQNCQLSFTGNLQIPETQRNFNGFDDQKYLA  156
NTDB id 91142 SUT RS06955 WP 237373048.1    EQAVSKQVTAVEIVPDTININGDQLSFRARTDGQIYQGFYKLTSQKEQEYFQKLTALVQVEVKAETSLPSGQRNFNGFDYQAYLK  161
NTDB id 494 SM12261 RS04305 WP 000942409.1  SQNLADSVERVRILPDTVKVNGDSLSFRGKSDGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPDGQRNFGGFDYQAYLK  162
NTDB id 522 SMSK321 RS04965 WP 000942453.1  SQNLSDSVEIVRILPDTIKVNGDSLSFRGKADGRIFQVYYKLQSEEEKETFQILTALHDLELEGKLSEPEGKRNFGGFDYQAYLK  162
NTDB id 189 SPR RS04300 WP 000942407.1      SQNLADSVERVRILPDTVKVNGDSLSFRGKADGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLK  162
NTDB id 223 SPD RS04540 WP 000942407.1      SQNLADSVERVRILPDTVKVNGDSLSFRGKADGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLK  162
NTDB id 154 SP RS04735 WP 000942394.1       SQNLADSVERVRILPDTIKVNGDSLSFRGKSNGRAFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLK  162
NTDB id 264 KZH43 RS04200 WP 000942407.1    SQNLADSVERVRILPDTVKVNGDSLSFRGKADGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLK  162
consensus                                   **************!!***!!!*!!!*** *!***!****!*!**!****!*!*************!***!!!*!! *!*!!*

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NTDB id 596 KW2 RS08720 WP 021037686.1      SQNIYRQITIQQITNVEIKKNFD....LHTLRRKAIVWTQNHFPKPMSDYMTGLLFGFLSKDFNQMSDIYSSLGIIHLFALSGMQ  237
NTDB id 91142 SUT RS06955 WP 237373048.1    TQGIYRILTIATINKIVPIHSWNPMDWLSIWRRKALVFIKSNFPSPMSHYMTGLLFGELDSDFDQMSALYSSLGIIHLFALSGMQ  246
NTDB id 494 SM12261 RS04305 WP 000942409.1  TQGIYQTLTIKRIQSLQKVSSWDIGENLSSLRRKTVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNGLYSSLGIIHLFALSGMQ  247
NTDB id 522 SMSK321 RS04965 WP 000942453.1  TQGIYQTLNIKKIQSLQKVGSWDLGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQ  247
NTDB id 189 SPR RS04300 WP 000942407.1      TQGIYQTLNIKKIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQ  247
NTDB id 223 SPD RS04540 WP 000942407.1      TQGIYQTLNIKKIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQ  247
NTDB id 154 SP RS04735 WP 000942394.1       TQGIYQTLNIKTIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMGNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQ  247
NTDB id 264 KZH43 RS04200 WP 000942407.1    TQGIYQTLNIKKIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQ  247
consensus                                   *!*!!****!**!**************!***!!!**!*****!!*!!**!!!!!!*!*!**!!**!***!!!!!!!!!!!!!!!!

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NTDB id 596 KW2 RS08720 WP 021037686.1      VNFFIDWFRKILLRMGLTREIVNLVQIPFSIFYAFMTGLSVSVLRALFQKNI...RLTSLDNIGVTTLVLMLISPKFLLTTGGQL  319
NTDB id 91142 SUT RS06955 WP 237373048.1    VGFFIDKFRWILLRLGLTKETVDQLQVPFSLVYAGLTGFSVSVVRSLIQKILSNLGLRKLDNFAATLFICFLVQPRFLLTVGGVL  331
NTDB id 494 SM12261 RS04305 WP 000942409.1  VGFFMDGFKKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFLTAGGVL  332
NTDB id 522 SMSK321 RS04965 WP 000942453.1  VGFFMDGFKKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIIMPNFFLTAGGVL  332
NTDB id 189 SPR RS04300 WP 000942407.1      VGFFMNGFKKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFFTAGGVL  332
NTDB id 223 SPD RS04540 WP 000942407.1      VGFFMNGFKKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFFTAGGVL  332
NTDB id 154 SP RS04735 WP 000942394.1       VGFFMNGFKKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFLTAGGVL  332
NTDB id 264 KZH43 RS04200 WP 000942407.1    VGFFMNGFKKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFFTAGGVL  332
consensus                                   !*!!* *!***!!!*!!!*!*******!!!**!!**!!*!*!!*!*!*!!*********!!!***!********!*!**!*!!*!
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logo
NTDB id 596 KW2 RS08720 WP 021037686.1      TLFYAFVISMLNHPFSNLNGLKKVLTESAVLSLCVLPLLIFDFHIFQPLSILLTIIFGFLFDFMLLPLLLCCFLISFLGFSLNLN   404
NTDB id 91142 SUT RS06955 WP 237373048.1    TFTYAFLLTVFD..FEDLKQIKKVVVESLSISLGILPILMTYFYAFQPLSILLTFFFSFVFDVLLLPSLSVIFLLSPLVKITWVN   414
NTDB id 494 SM12261 RS04305 WP 000942409.1  SCAYAFILTMTS..KE.GEGLKAVARESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLVFLPLLSILFALSFLHPVIQLN   414
NTDB id 522 SMSK321 RS04965 WP 000942453.1  SCAYAFILTMTS..KE.GEGLKAVARESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLVFLPLLSVLFALSFLYPVIQLN   414
NTDB id 189 SPR RS04300 WP 000942407.1      SCAYAFILTMTS..KE.GEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLTFLPLLSILFVLSFLYPVIQLN   414
NTDB id 223 SPD RS04540 WP 000942407.1      SCAYAFILTMTS..KE.GEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLTFLPLLSILFVLSFLYPVIQLN   414
NTDB id 154 SP RS04735 WP 000942394.1       SCAYAFILTMTS..KE.GEGLKAVTSESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLVFLPLLSILFVLSFLYPVIQLN   414
NTDB id 264 KZH43 RS04200 WP 000942407.1    SCAYAFILTMTS..KE.GEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLTFLPLLSILFVLSFLYPVIQLN   414
consensus                                   ***!!!******  **  ****!*!**!!***!!**!!*!***!**!!!*!!!!!**!*!*!!***!!*!***!**!*!******!

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NTDB id 596 KW2 RS08720 WP 021037686.1      FIFQILEWLVHKVDLPLHYPFVLGKPSSLELIILFVLIGLFVDSFSHKKRRFFLVGFIFLFFFITKNPMRASITAVDIGQGDSIF   489
NTDB id 91142 SUT RS06955 WP 237373048.1    SFFVLMEKMIIWVSDLGLRPLILGKPSDFILLVLLLGFFMLYDFHRQKKWLLGLSLLLTLLFFITKHPLENEVTVVDIGQGDSIF   499
NTDB id 494 SM12261 RS04305 WP 000942409.1  FIFEWLEGMIRFVSQVASRPLVFGQPNAWILILLLISLALVYDLRKNIKRLAVLSLLITGLFFLTKHPLENEITMLDVGQGESIF   499
NTDB id 522 SMSK321 RS04965 WP 000942453.1  FIFEWLEGMIRLVSQVASRPLVFGQPNAWLLILLLISLALVYDLRKNIKRLAVLSLLITGLFFLTKYPLENEITMLDVGQGESIF   499
NTDB id 189 SPR RS04300 WP 000942407.1      FIFEWLEGIIRLVSQVTSRPLVFGQPNTWLLILLLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLENEITMLDVGQGESIF   499
NTDB id 223 SPD RS04540 WP 000942407.1      FIFEWLEGIIRLVSQVTSRPLVFGQPNTWLLILLLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLENEITMLDVGQGESIF   499
NTDB id 154 SP RS04735 WP 000942394.1       FIFEWLEGIIRLVSQVARRPLVFGQPNAWLLILLLISLALVYDLRKNIKGLTVLSLLITGLFFLTKYPLENEITMLDVGQGESIF   499
NTDB id 264 KZH43 RS04200 WP 000942407.1    FIFEWLEGIIRLVSQVTSRPLVFGQPNTWLLILLLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLENEITMLDVGQGESIF   499
consensus                                   **!***!*****!***  **!***!*!*  **!**!*******!*****!**  *!  ******!**!!*!*****!**!*!!!*!!!

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NTDB id 596 KW2 RS08720 WP 021037686.1      LQDKFNKENILIDTGGRLALP..QKNWQKAQTQSNADKTLIPYLESMGVAHIDQLILTHTDADHVGDFLSLADKIKIREIWVSPG   572
NTDB id 91142 SUT RS06955 WP 237373048.1    LRDIQG.RTVLIDVGGRVDFTV.KEGWKARSRQANAERTLIPYLHSRGVDKIDSLVLTHTDTDHVGDVLEVAKNFKIGKIYVSSG   582
NTDB id 494 SM12261 RS04305 WP 000942409.1  LRDVTG.KIILIDVGGKAESSKKIEKWQEKTTTSNAQRTLIPYLKSRGVSKIDQLILTNTDKEYVGDLLEVTKAFHVGEILVSKG   583
NTDB id 522 SMSK321 RS04965 WP 000942453.1  LRDVAG.KTILIDVGGKAESDKKIEKWQEKATTSNAQRTLIPYLKSRGVAKIDQLILTNTDKEHVGDLLEVTKAFHVGEILVSKG   583
NTDB id 189 SPR RS04300 WP 000942407.1      LRDVTG.KTILIDVGGKAESYKKIKKWQEKMTTSNAQRSLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKD   583
NTDB id 223 SPD RS04540 WP 000942407.1      LRDVTG.KTILIDVGGKAESYKKIKKWQEKMTTSNAQRSLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKD   583
NTDB id 154 SP RS04735 WP 000942394.1       LRDVTG.KTILIDVGGKAESYKKIKKWQEKMTTSNAQRTLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKD   583
NTDB id 264 KZH43 RS04200 WP 000942407.1    LRDVTG.KTILIDVGGKAESYKKIKKWQEKMTTSNAQRSLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKD   583
consensus                                   !*!***  ***!!!*!!****  *****!***  ***!!***!!!!!*!*!!**!!*!*!!*!!***!!!*  **********!*!!*

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NTDB id 596 KW2 RS08720 WP 021037686.1      ELTNSSFVEKLKKAKIPIHVSKVGDKIPIFDSFLQVLSNGYTKKGDNNDSIVTYGNFYHTKFLFTGDLEQEGEKKLLQNYPKLQV   657
NTDB id 91142 SUT RS06955 WP 237373048.1    SLTVPSFVTTLKKINVPVHVVQVGDRLPIVDSYLEVLYPSRSGDGSNNDSIVLYGRLLGINFLFTGDLEE.GELELIKTYPKLSV   666
NTDB id 494 SM12261 RS04305 WP 000942409.1  SLKQKQFVAELQATQTKVRSITAGENLSIFGSQLEVLSPRKIGDGGYEDSLVLYGKLLDKYFLFTGNLEEKGEKELLKHYPDLKV   668
NTDB id 522 SMSK321 RS04965 WP 000942453.1  SLKQKEFVAELQATQIKVHSVAEGENVPIFGSQLEVLSPRKIGDGGHDDSLVLYGKLLDKHFLFTGNLEEKGEKDLLKQYPDLEV   668
NTDB id 189 SPR RS04300 WP 000942407.1      SLKQKEFVAELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKV   668
NTDB id 223 SPD RS04540 WP 000942407.1      SLKQKEFVAELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKV   668
NTDB id 154 SP RS04735 WP 000942394.1       SLKQKEFVAELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKV   668
NTDB id 264 KZH43 RS04200 WP 000942407.1    SLKQKEFVAELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKV   668
consensus                                   *!****!!**!**********  *!****!**!*!*!!*******!***!**!*!!******!!!!!*!!**!!**!***!!*!*!
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NTDB id 596 KW2 RS08720 WP 021037686.1        DVLKVGHHGSKTSSSPEFIKEIHPKLALISVGKANRYGHPNQETLETLAKYQVKTLRTDQKGAIKLTEVNQQWQIKTVR   736
NTDB id 91142 SUT RS06955 WP 237373048.1      DVLKAGHHGSKGSSYPEFLDHIGAKIALISAGEKNRYKHPHQETLERFEQKNMQIYRTDRQGAIRFRGW.RSWSIETVR   744
NTDB id 494 SM12261 RS04305 WP 000942409.1    DVLKAGQHGSKKSSSSDFLEKLKPEFTLISVGKNNRAKLPHQETLTRLETINSKVYRTDQHGAIRFKGW.NSWKVETVG   746
NTDB id 522 SMSK321 RS04965 WP 000942453.1    DVLKASQHGSKKSSSSAFLEQLKPEMTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQQGAIRFKGW.NSWKIESVR   746
NTDB id 189 SPR RS04300 WP 000942407.1        NVLKASQHGNKKSSSPAFLEKLKPELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQQGAIRFKGL.DSWKIESVR   746
NTDB id 223 SPD RS04540 WP 000942407.1        NVLKASQHGNKKSSSPAFLEKLKPELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQQGAIRFKGL.DSWKIESVR   746
NTDB id 154 SP RS04735 WP 000942394.1         NVLKASQHGNKKSSSPAFLEKLKPELTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQQGAIRFKGL.DSWKIESVR   746
NTDB id 264 KZH43 RS04200 WP 000942407.1      NVLKASQHGNKKSSSPAFLEKLKPELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQQGAIRFKGL.DSWKIESVR   746
consensus                                      !!!**#!! !*!!***!*********!!!*!**!!***! !!!!*********#*!!!**!!!*****  *!****!*
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X non conserved

X similar

X ≥ 50% conserved