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logo
NTDB id 596 KW2 RS08720 WP 021037686.1      ..MRFLLIKFPLIFLTYLVVLLYFCIFTYNLPLLI....LFICSILLALFRKYYLMIPILIVFAVFFLLINSLSIRDNENQPKTL   79
NTDB id 494 SM12261 RS04305 WP 000942409.1  MLQWIKNFSIPLIYLSFLLLWLYYAIFSSSYLALLGFVFLLVCLFIQFPWKSAGKVLIICGIFGFWFLFQNWQQSQASQNLADSV   85
NTDB id 522 SMSK321 RS04965 WP 000942453.1  MLQWTKNFPIPLIYLSFLLLWLYYAIFSVSYLALLGFVFLLVCLFIQFLWKSAGKVLVICGIFGFWFVFQNWQQSQASQNLSDSV   85
NTDB id 154 SP RS04735 WP 000942394.1       MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGKVLIICGIFGFWFVFQNWQQSQASQNLADSV   85
NTDB id 189 SPR RS04300 WP 000942407.1      MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGKVLIICGIFGFWFVFQNWQQSQASQNLADSV   85
NTDB id 223 SPD RS04540 WP 000942407.1      MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGKVLIICGIFGFWFVFQNWQQSQASQNLADSV   85
NTDB id 97947 R8566 RS04640 WP 000942383.1  MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFFQFPWKSASKVLVICGIFGFWFVFQNWQQSQASQNLADSV   85
NTDB id 264 KZH43 RS04200 WP 000942407.1    MLQWIKNFSIPLIYLSFLLLWLYYAIFSASYLALLGFVFLLVCLFIQFPWKSAGKVLIICGIFGFWFVFQNWQQSQASQNLADSV   85
consensus                                   **********!!!*!**!***!!**!!*****!*****!**!*************!***!***!***!********!*****

logo
NTDB id 596 KW2 RS08720 WP 021037686.1      SKIELISDTIQVNGDLLSFQGRMNGQNYQVYDTLKSLKEKKFYQNLSQNCQLSFTGNLQIPETQRNFNGFDDQKYLASQNIYRQI  164
NTDB id 494 SM12261 RS04305 WP 000942409.1  ERVRILPDTVKVNGDSLSFRGKSDGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPDGQRNFGGFDYQAYLKTQGIYQTL  170
NTDB id 522 SMSK321 RS04965 WP 000942453.1  EIVRILPDTIKVNGDSLSFRGKADGRIFQVYYKLQSEEEKETFQILTALHDLELEGKLSEPEGKRNFGGFDYQAYLKTQGIYQTL  170
NTDB id 154 SP RS04735 WP 000942394.1       ERVRILPDTIKVNGDSLSFRGKSNGRAFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLKTQGIYQTL  170
NTDB id 189 SPR RS04300 WP 000942407.1      ERVRILPDTVKVNGDSLSFRGKADGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLKTQGIYQTL  170
NTDB id 223 SPD RS04540 WP 000942407.1      ERVRILPDTVKVNGDSLSFRGKADGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLKTQGIYQTL  170
NTDB id 97947 R8566 RS04640 WP 000942383.1  ERVRILPDTIKVNGDSLSFRGKSNGRAFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLKTQGIYQTL  170
NTDB id 264 KZH43 RS04200 WP 000942407.1    ERVRILPDTVKVNGDSLSFRGKADGRIFQVYYKLQSEEEKEAFQALTDLHEIGLEGKLSEPEGQRNFGGFNYQAYLKTQGIYQTL  170
consensus                                   *******!!**!!!!*!!!*!* *!***!!!**!*!**!!***!*!*********!*!**!***!!!*!!**!*!!**!*!!***

logo
NTDB id 596 KW2 RS08720 WP 021037686.1      TIQQITNVEIKKNF....DLHTLRRKAIVWTQNHFPKPMSDYMTGLLFGFLSKDFNQMSDIYSSLGIIHLFALSGMQVNFFIDWF  245
NTDB id 494 SM12261 RS04305 WP 000942409.1  TIKRIQSLQKVSSWDIGENLSSLRRKTVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNGLYSSLGIIHLFALSGMQVGFFMDGF  255
NTDB id 522 SMSK321 RS04965 WP 000942453.1  NIKKIQSLQKVGSWDLGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQVGFFMDGF  255
NTDB id 154 SP RS04735 WP 000942394.1       NIKTIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMGNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQVGFFMNGF  255
NTDB id 189 SPR RS04300 WP 000942407.1      NIKKIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQVGFFMNGF  255
NTDB id 223 SPD RS04540 WP 000942407.1      NIKKIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQVGFFMNGF  255
NTDB id 97947 R8566 RS04640 WP 000942383.1  NIKRIQSLQKVGSWDIGEKLSSLRRKAVVWIKMHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQVGFFMNGF  255
NTDB id 264 KZH43 RS04200 WP 000942407.1    NIKKIQSLQKIGSWDIGENLSSLRRKAVVWIKTHFPDPMRNYMTGLLLGHLDTDFEEMNELYSSLGIIHLFALSGMQVGFFMNGF  255
consensus                                   *!**!*************!**!!!!**!!***!!!*!!**!!!!!!*!*!**!!**!***!!!!!!!!!!!!!!!!*!!***!

logo
NTDB id 596 KW2 RS08720 WP 021037686.1      RKILLRMGLTREIVNLVQIPFSIFYAFMTGLSVSVLRALFQKNIR...LTSLDNIGVTTLVLMLISPKFLLTTGGQLTLFYAFVI  327
NTDB id 494 SM12261 RS04305 WP 000942409.1  KKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFLTAGGVLSCAYAFIL  340
NTDB id 522 SMSK321 RS04965 WP 000942453.1  KKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIIMPNFFLTAGGVLSCAYAFIL  340
NTDB id 154 SP RS04735 WP 000942394.1       KKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFLTAGGVLSCAYAFIL  340
NTDB id 189 SPR RS04300 WP 000942407.1      KKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFFTAGGVLSCAYAFIL  340
NTDB id 223 SPD RS04540 WP 000942407.1      KKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFFTAGGVLSCAYAFIL  340
NTDB id 97947 R8566 RS04640 WP 000942383.1  KKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFLTAGGVLSCAYAFIL  340
NTDB id 264 KZH43 RS04200 WP 000942407.1    KKLLLRLGLTQEKLKWLTYPFSLIYAGLTGFSASVIRSLLQKLLAQHGVKGLDNFALTVLVLFIVMPNFFFTAGGVLSCAYAFIL  340
consensus                                   *!*!!!*!!!*!*******!!!**!!**!!*!*!!*!*!*!!*********!!!***!*!!!****!*!**!*!!*!***!!!**
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logo

NTDB id 596 KW2 RS08720 WP 021037686.1      SMLNHPFSNLNGLKKVLTESAVLSLCVLPLLIFDFHIFQPLSILLTIIFGFLFDFMLLPLLLCCFLISFLGFSLNLNFIFGILEW   412
NTDB id 494 SM12261 RS04305 WP 000942409.1  TMTSK...EGEGLKAVARESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLVFLPLLSILFALSFLHPVIQLNFIFEWLEG   422
NTDB id 522 SMSK321 RS04965 WP 000942453.1  TMTSK...EGEGLKAVARESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLVFLPLLSVLFALSFLYPVIQLNFIFEWLEG   422
NTDB id 154 SP RS04735 WP 000942394.1       TMTSK...EGEGLKAVTSESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLVFLPLLSILFVLSFLYPVIQLNFIFEWLEG   422
NTDB id 189 SPR RS04300 WP 000942407.1      TMTSK...EGEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLTFLPLLSILFVLSFLYPVIQLNFIFEWLEG   422
NTDB id 223 SPD RS04540 WP 000942407.1      TMTSK...EGEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLTFLPLLSILFVLSFLYPVIQLNFIFEWLEG   422
NTDB id 97947 R8566 RS04640 WP 000942383.1  TMTIK...EGKGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLTFLPLLSILFVLSFLYPVIQLNFIFEWLEG   422
NTDB id 264 KZH43 RS04200 WP 000942407.1    TMTSK...EGEGLKAVASESLVISLGILPILSFYFAEFQPWSILLTFVFSFLFDLTFLPLLSILFVLSFLYPVIQLNFIFEWLEG   422
consensus                                   *!***   ***!!!*!**!!*!*!!**!!*!*!*!**!!!*!!!!!**!*!!!!*  *!!!!***!**!!!*****!!!!!**!!*

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NTDB id 596 KW2 RS08720 WP 021037686.1      LVHKVDLPLHYPFVLGKPSSLELIILFVLIGLFVDSFSHKKRRFFLVGFIFLFFFITKNPMRASITAVDIGQGDSIFLQDKFNKE   497
NTDB id 494 SM12261 RS04305 WP 000942409.1  MIRFVSQVASRPLVFGQPNAWILILLLISLALVYDLRKNIKRLAVLSLLITGLFFLTKHPLENEITMLDVGQGESIFLRDVTGK.   506
NTDB id 522 SMSK321 RS04965 WP 000942453.1  MIRLVSQVASRPLVFGQPNAWLLILLLISLALVYDLRKNIKRLAVLSLLITGLFFLTKYPLENEITMLDVGQGESIFLRDVAGK.   506
NTDB id 154 SP RS04735 WP 000942394.1       IIRLVSQVARRPLVFGQPNAWLLILLLISLALVYDLRKNIKGLTVLSLLITGLFFLTKYPLENEITMLDVGQGESIFLRDVTGK.   506
NTDB id 189 SPR RS04300 WP 000942407.1      IIRLVSQVTSRPLVFGQPNTWLLILLLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLENEITMLDVGQGESIFLRDVTGK.   506
NTDB id 223 SPD RS04540 WP 000942407.1      IIRLVSQVTSRPLVFGQPNTWLLILLLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLENEITMLDVGQGESIFLRDVTGK.   506
NTDB id 97947 R8566 RS04640 WP 000942383.1  IIRLVSQVTSRPLVFGQPNEWLLILLLISLALVYDLRKNIKGLTVLSLLITGLFFLTKYPLENEITMLDVGQGESIFLRDVTGK.   506
NTDB id 264 KZH43 RS04200 WP 000942407.1    IIRLVSQVTSRPLVFGQPNTWLLILLLISLALVYDLRKNIKKLTVLCLLITGLFLLTKHPLENEITMLDVGQGESIFLRDVTGK.   506
consensus                                   ****!***  **!*!*!*!*  **!!*!*****!**!*****!****!  **!***!**!!  !****!!**!*!!!*!!!!*!***!

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NTDB id 596 KW2 RS08720 WP 021037686.1      NILIDTGGRLAL..PQKNWQKAQTQSNADKTLIPYLESMGVAHIDQLILTHTDADHVGDFLSLADKIKIREIWVSPGELTNSSFV   580
NTDB id 494 SM12261 RS04305 WP 000942409.1  IILIDVGGKAESSKKIEKWQEKTTTSNAQRTLIPYLKSRGVSKIDQLILTNTDKEYVGDLLEVTKAFHVGEILVSKGSLKQKQFV   591
NTDB id 522 SMSK321 RS04965 WP 000942453.1  TILIDVGGKAESDKKIEKWQEKATTSNAQRTLIPYLKSRGVAKIDQLILTNTDKEHVGDLLEVTKAFHVGEILVSKGSLKQKEFV   591
NTDB id 154 SP RS04735 WP 000942394.1       TILIDVGGKAESYKKIKKWQEKMTTSNAQRTLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKDSLKQKEFV   591
NTDB id 189 SPR RS04300 WP 000942407.1      TILIDVGGKAESYKKIKKWQEKMTTSNAQRSLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKDSLKQKEFV   591
NTDB id 223 SPD RS04540 WP 000942407.1      TILIDVGGKAESYKKIKKWQEKMTTSNAQRSLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKDSLKQKEFV   591
NTDB id 97947 R8566 RS04640 WP 000942383.1  TILIDVGGKAESYKKIEKWQEKMTTSNAQRTLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEVTKAFHVGEILVSKGSLKQKQFV   591
NTDB id 264 KZH43 RS04200 WP 000942407.1    TILIDVGGKAESYKKIKKWQEKMTTSNAQRSLIPYLKSRGVAKIDQLILTNTDKEHVGDLSEMTKAFHVGEILVSKDSLKQKEFV   591
consensus                                   *!!!!*!!*********!!***!*!!!***!!!!!*!*!!**!!!!!!!*!!***!!!!*********!!*!!*  *!****!!

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NTDB id 596 KW2 RS08720 WP 021037686.1      EKLKKAKIPIHVSKVGDKIPIFDSFLQVLSNGYTKKGDNNDSIVTYGNFYHTKFLFTGDLEQEGEKKLLQNYPKLQVDVLKVGHH   665
NTDB id 494 SM12261 RS04305 WP 000942409.1  AELQATQTKVRSITAGENLSIFGSQLEVLSPRKIGDGGYEDSLVLYGKLLDKYFLFTGNLEEKGEKELLKHYPDLKVDVLKAGQH   676
NTDB id 522 SMSK321 RS04965 WP 000942453.1  AELQATQIKVHSVAEGENVPIFGSQLEVLSPRKIGDGGHDDSLVLYGKLLDKHFLFTGNLEEKGEKDLLKQYPDLEVDVLKASQH   676
NTDB id 154 SP RS04735 WP 000942394.1       AELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKVNVLKASQH   676
NTDB id 189 SPR RS04300 WP 000942407.1      AELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKVNVLKASQH   676
NTDB id 223 SPD RS04540 WP 000942407.1      AELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKVNVLKASQH   676
NTDB id 97947 R8566 RS04640 WP 000942383.1  VELQATKTKVRSMTVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKVNVLKASQH   676
NTDB id 264 KZH43 RS04200 WP 000942407.1    AELQATQTKVRSMIVGENLPIFGSQLEVLSPRKMGDGGHDDTLVLYGKFLDKQFLFTGNLEEKGEKDLLKHYPDLKVNVLKASQH   676
consensus                                   **!**********  *!****!!*!*!*!!!*******!***!**!*!!******!!!!!*!!**!!!*!!**!!*!*!*!!!***!
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logo
NTDB id 596 KW2 RS08720 WP 021037686.1      GSKTSSSPEFIKEIHPKLALISVGKANRYGHPNQETLETLAKYQVKTLRTDQKGAIKLTEVNQQWQIKTVR   736
NTDB id 494 SM12261 RS04305 WP 000942409.1  GSKKSSSSDFLEKLKPEFTLISVGKNNRAKLPHQETLTRLETINSKVYRTDQHGAIRFKGWN.SWKVETVG   746
NTDB id 522 SMSK321 RS04965 WP 000942453.1  GSKKSSSSAFLEQLKPEMTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQQGAIRFKGWN.SWKIESVR   746
NTDB id 154 SP RS04735 WP 000942394.1       GNKKSSSPAFLEKLKPELTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQQGAIRFKGLD.SWKIESVR   746
NTDB id 189 SPR RS04300 WP 000942407.1      GNKKSSSPAFLEKLKPELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQQGAIRFKGLD.SWKIESVR   746
NTDB id 223 SPD RS04540 WP 000942407.1      GNKKSSSPAFLEKLKPELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQQGAIRFKGLD.SWKIESVR   746
NTDB id 97947 R8566 RS04640 WP 000942383.1  GNKKSSSPAFLEKLKPELTLISVGKSNRMKLPHQETLTRLEGINSKVYRTDQQGAIRFKGLD.SWKIESVR   746
NTDB id 264 KZH43 RS04200 WP 000942407.1    GNKKSSSPAFLEKLKPELTLISVGKSNRMKLPYQETLTRLEGINSKVYRTDQQGAIRFKGLD.SWKIESVR   746
consensus                                   !*!*!!!**!******!***!!!!!!*!!***! !!!!**!*****!**!!!!*!!!****** *!****!*
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X non conserved

X similar

X ≥ 50% conserved