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logo

NTDB id 1323 RAOC RS07335 WP 004916218.1          .MLVKVYGSAIHGVSAQTITIEVNVDQGV.GYHLVGLPDNAIKESSHRISAALKNVGYKLPG.KKITINMAPADL   72
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 MGLALVQSRALLGLQAPAVTVEVHLANGLPSFTLVGLADVEVKEARERVRAAIVNAGLEFPNNKRITVNLAPADL   75
NTDB id 1271 LPP RS03220 WP 011213198.1           MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPC.RKITVNLGPANL   74
NTDB id 1248 GCO85 RS03150 WP 011213198.1         MSLAFTKTRSTIGIVAQPVSVEVHLSNGLPSFTMVGLAETAVKESKDRVRSAIINSQFEFPC.RKITVNLGPANL   74
NTDB id 1397 DSB67 RS15690 WP 005535577.1         MGLAIIHSRASVGVQAPSVSVEVHISNGMPGFTLVGLPETTVKESKDRVRSAIVNSNFQFPA.KRITVNLAPADL   74
NTDB id 1153 A1552VC RS00115 WP 000521788.1       MGLAIIHSRASIGVQAPPVTVEVHISNGMPGFTLVGLPETTVKESRDRVRSAIINSRFEFPA.KRITVNLAPADL   74
NTDB id 1349 HI 1117 AAC22771.1                   MSLAIVYSRASMGVQAPLVTIEVHLSNGKPGFTLVGLPEKTVKEAQDRVRSALMNAQFKYPA.KRITVNLAPADL   74
NTDB id 1387 A4U84 RS06900 WP 020457569.1         MSLAIIYSRASIGVEAPLVTIEVHISGGSPGLTLVGLPEKSVKEAQDRVRSALMNANFDYPA.RRITINLAPADL   74
consensus                                         * !*** *****!* !* ***!!****!*****!!!**  *!!***!***!**! ****!* **!!*!**!!*!

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NTDB id 1323 RAOC RS07335 WP 004916218.1          RKEGSAYDLSIALGILAASGQIIAPEIERYLIMGELSLDGGLQPIKGVLPIAIRAREEG.FKGIILPKQNTREAA  146
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 PKDSGRFDLPIALGILAASGQIDAQRLADYEFAGELSLTGALRPVRGALATALALQRQQQRVRLVLPPDSALEAA  150
NTDB id 1271 LPP RS03220 WP 011213198.1           PKTGSGFDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKDN..QHLIIANANAAEAS  147
NTDB id 1248 GCO85 RS03150 WP 011213198.1         PKTGSGFDLPIALGILAASEQIPLTNLANHEFIGELALSGELRGVSAIIPAVLAAHKDN..QHLIIANANAAEAS  147
NTDB id 1397 DSB67 RS15690 WP 005535577.1         PKEGGRFDLPIALGILAASEQIATDKLKNYEFVGELALSGGLRTVKGVLPAALAANKKQ..RHLVVPHANGDQAA  147
NTDB id 1153 A1552VC RS00115 WP 000521788.1       PKEGGRFDLPIALGILAASDQIARNKLESYEFIGELALSGEIRGVKGVLPAALAANQVE..RCLVVPHSNGDQAA  147
NTDB id 1349 HI 1117 AAC22771.1                   PKEGGRFDLPIAIGILAASDQLDASHLKQFEFVAELALTGQLRGVHGVIPAILAAQKSK..RELIIAKQNANEAS  147
NTDB id 1387 A4U84 RS06900 WP 020457569.1         PKEGGRFDLPIAIGILAASGQIDSDKLKRIELLGELSLTGHLRGVHGAIPAVLAASKAK..REIIVPQQNANEVS  147
consensus                                         *!*****!!*!!*!!!!!!*!*    *  *****!!*!*! **** ***** *** *    * ****  ** **

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NTDB id 1323 RAOC RS07335 WP 004916218.1          IVNDLEVYGVENIKEVIDFFNENCPLEPTKVNTREEF........HKRVNLFPFDFSEVKGQETAKRAMEVAAAG  213
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 FVPAIEVFGAAHLLDVVRQFIAHDATLSEQGDGVEGWQRVHSR..PAEASLPSLDLREVRGQMQAKRALEIAAAG  223
NTDB id 1271 LPP RS03220 WP 011213198.1           LTGHQKVFTANNLREVCDYLCQGTSLQ........SLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACG  210
NTDB id 1248 GCO85 RS03150 WP 011213198.1         LTGHQKVFTANNLREVCDYLCQGTSLQ........SLPPKPDL....LLNNYELDWSDIKGQQHAKNAMVIAACG  210
NTDB id 1397 DSB67 RS15690 WP 005535577.1         LVGKEQHKSAQSLLEVCAELCGQHQLN........LYQTPKKK....ELKAHGRDLQDIIGQQQGKRALEIAAAG  210
NTDB id 1153 A1552VC RS00115 WP 000521788.1       LVGVERHKSAQSLLEVCADLCGQQTLS........LFQSSPSV....QQVSQTRDLQDIIGQQQGKRALEIAAAG  210
NTDB id 1349 HI 1117 AAC22771.1                   LVSDQNTYFAQTLLDVVQFLNGQEKLP........LATEIVKESAVNFSGKNTLDLTDIIGQQHAKRALTIAAAG  214
NTDB id 1387 A4U84 RS06900 WP 020457569.1         LVSNTQTYCASTLLQVVNFLNNRDQLP........IAQQLSQNIAEN.RPLVSRDLTDIIGQQHAKRALIIAASG  213
consensus                                         **      * ** ***!  **     *                          !**** !!* *!*!* *!!*!

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NTDB id 1323 RAOC RS07335 WP 004916218.1          GHNIILIGPPGSGKTMLAKRIPSILPPLTLKEALETTKIHSVAGKMGAETSLMTIRPFRSPHHTISDVALVGGGS  288
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 AHGVLMIGPPGSGKSMLAQRFAGLLPGMTDEEALEAAAIASLSGR.FT.PQLWRQRPFAAPHHTASSIALVGGGS  296
NTDB id 1271 LPP RS03220 WP 011213198.1           GHSILLSGAPGSGKTMMAKRFSTLLPELSETQALECAAINSIRGKLPD.FREWRLPPFRAPHHTASPVALVGGGN  284
NTDB id 1248 GCO85 RS03150 WP 011213198.1         GHSILLSGAPGSGKTMMAKRFSTLLPELSETQALECAAINSIRGKLPD.FREWRLPPFRAPHHTASPVALVGGGN  284
NTDB id 1397 DSB67 RS15690 WP 005535577.1         NHNLLFLGPPGTGKTMLASRLCDLLPEMSDEEAMETASVASLTQSEIN.EHNWKTRPFRAPHHSSSMAALVGGGS  284
NTDB id 1153 A1552VC RS00115 WP 000521788.1       NHNLLFLGPPGTGKTMLASRLCDLLPEMSDEEAMETASIASLTQQEIN.QHNWKLRPFRAPHHSSSMAALVGGGT  284
NTDB id 1349 HI 1117 AAC22771.1                   QHNLLFLGPPGTGKTMLASRLTGLLPEMTDLEAIETASVTSLVQNELN.FHNWKQRPFRAPHHSASMPALVGGGT  288
NTDB id 1387 A4U84 RS06900 WP 020457569.1         QHNLLFLGPPGTGKTMLASRLADLLPEMEDDEAIETASVTSLVQNELN.FQNWKKRPFRSPHHSASMVALVGGGS  287
consensus                                          !*** *!*!!*!!*!*! !*  *!!**** *!*!** * !*          ** *!!**!!!**! *!!!!!!*
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NTDB id 1323 RAOC RS07335 WP 004916218.1          YPQPGEISLAHNGVLFLDEMPEFKRTVLEVMRQPLEDREVTISRAKFTVNYPASFMLVASMNPSPSGFFPDDPNN   363
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 PPRPGEISYAHCGALFLDELPEFARSALEALREPLETGRITIVRAVQRAEFPARFQLVAAMNPCPCGFWGSRIRA   371
NTDB id 1271 LPP RS03220 WP 011213198.1           PPKPGEISLAHHGVLFLDELPEFNRQVLETLREPLESGHICISRAAAQIEFPAKFQLIAAMNPCPCGQWGNSQAN   359
NTDB id 1248 GCO85 RS03150 WP 011213198.1         PPKPGEISLAHHGVLFLDELPEFNRQVLETLREPLESGHICISRAAAQIEFPAKFQLIAAMNPCPCGQWGNSQAN   359
NTDB id 1397 DSB67 RS15690 WP 005535577.1         VPRPGEISLAHNGLLFLDEMPEFDRKVLDSLREPLESGEIIISRAQGKTRFPARFQIVCALNPSPTGYYEGNQAR   359
NTDB id 1153 A1552VC RS00115 WP 000521788.1       IPRPGEISLAHNGLLFLDEMPEFERKVLDSLREPLESGEIVISRAQGKTRFPARFQLVCALNPSPTGYYEGSQAR   359
NTDB id 1349 HI 1117 AAC22771.1                   IPKPGEISLATNGVLFLDELPEFERKVLDALRQPLESGEIIISRANAKIQFPARFQLVAAMNPSPTGHYTGTHNR   363
NTDB id 1387 A4U84 RS06900 WP 020457569.1         IPKPGEISLAHNGVLFLDELPEFERKVLDALRQPLESGEIIISRANAKVQFPACFQLIAAMNPSPTGHYQGTHNR   362
consensus                                          !*!!!!!*!**!*!!!!!*!!!  !  *!*  *!*!!!**** !*!!  ***  *!!*!******!!*!*!  *   *

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NTDB id 1323 RAOC RS07335 WP 004916218.1          T.SSSFEMQRYLNKLSGPLLDRIDIHIEVQKVEFDQLSDK..RKGESSEIIRQRVLKAREIQQERYQDLAISYNA   435
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 CRCSPDQVARYQARISGPLLDRIDLHVEVAALSPEELLAA..PEGESSAAVQQRVSAARDKALQRQG....LPNH   440
NTDB id 1271 LPP RS03220 WP 011213198.1           CMCTPDRISRYLAKLSAPLLDRIDMQVTIHALSQEELIKPNTHLEKQSLAIREKVTKMHEIQMARQD....SLNA   430
NTDB id 1248 GCO85 RS03150 WP 011213198.1         CMCTPDRISRYLAKLSAPLLDRIDMQVTIHALSQEELIKPNTHLEKQSLAIREKVTKMHEIQMARQD....SLNA   430
NTDB id 1397 DSB67 RS15690 WP 005535577.1         ..TNPQAILRYLGRLSGPLLDRFDMSLEIPALPKGTLSEG.GDRGEPTAIVKERVNQARDCMLARSG....KVNA   427
NTDB id 1153 A1552VC RS00115 WP 000521788.1       ..ANPQSILRYLSRLSGPLLDRFDMSIEIPALPKGTLANG.GDRGESTAAVRQRVWVARERMLARSG....KVNA   427
NTDB id 1349 HI 1117 AAC22771.1                   ..TSPQQIMRYLNRLSGPFLDRFDLSIEVPLLPQGSLQNT.GDRGETSAQVREKVLKVREIQMERAG....KINA   431
NTDB id 1387 A4U84 RS06900 WP 020457569.1         ..TSPQQLMRYLNRLSGPFLDRFDLSIEVPLLPQGALQNNTDQRGETTEQARKRVLEARHLQFNRRG....KINA   431
consensus                                            **  *  !!*  **!*!*!!!  !*  ***  **    !       *****  **  *!  ****** ! *      *!*

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NTDB id 1323 RAOC RS07335 WP 004916218.1          QMGPKEIEHFCELDEVSLLLIKNAMEKLNLSARAYDRILKVSRTIADLERETNIQSHHIAEAIQYRSLDRDFWKV   510
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 QLQGAQLDTHLQLEPEALTFAHKAAARLGWSARGTHRALKVARTIADLADSDAITQTHLAEALQYRRALMQP...   512
NTDB id 1271 LPP RS03220 WP 011213198.1           NLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLKVSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK..   503
NTDB id 1248 GCO85 RS03150 WP 011213198.1         NLNSKTCEMVCELGSEEQLFLREVMSKLKLSARGYHRLLKVSRTIADMNSSKKVLLNHLQQALSYKQNLHLPK..   503
NTDB id 1397 DSB67 RS15690 WP 005535577.1         LLGSREIEAFCPLQKSDAEFLENALHRLGLSIRAYHRIIKVARTIADLEGSPQIERTHLAEALGYRAMDRLLKQL   502
NTDB id 1153 A1552VC RS00115 WP 000521788.1       LLQSREIEQYCPLLKADAEFLESALHRLGLSIRAYHRIIKVARTIADLQGEAQIARPHLAEALGYRAMDRLLKQL   502
NTDB id 1349 HI 1117 AAC22771.1                   YLNSKEIERDCKLNDKDAFFLEKALNKLGLSVRAYHRILKVSRTIADLQGEQQIFQPHLAEALGYRAMVRLLQKL   506
NTDB id 1387 A4U84 RS06900 WP 020457569.1         QLTTKEIEQDCKLTDRDALFLENALTKLGLSVRAYHRILKVSRTIADLAGEAQIQQPHLAEALGYRAMDRLLQRL   506
consensus                                         *******  *  !   *  **  ** *!**! !***!**!!*!!!!!*    **   !***!* !* * **   *

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NTDB id 1323 RAOC RS07335 WP 004916218.1          .....   510
NTDB id 90398 Cthiooxydans RS01045 WP 059440125.1 .....   512
NTDB id 1271 LPP RS03220 WP 011213198.1           .....   503
NTDB id 1248 GCO85 RS03150 WP 011213198.1         .....   503
NTDB id 1397 DSB67 RS15690 WP 005535577.1         TAQAV   507
NTDB id 1153 A1552VC RS00115 WP 000521788.1       SAQNV   507
NTDB id 1349 HI 1117 AAC22771.1                   SNM..   509
NTDB id 1387 A4U84 RS06900 WP 020457569.1         QGES.   510
consensus
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X non conserved
X similar
X $\geq$ 50% conserved