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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1250 GCO85 RS13065 WP 027219989.1      ...............MNNLQPLLALNRMKRIGPRTVLKLQ.KRWPDLNLMF...QLSSVDLEE....AGLPSWLAQTIKN   57
NTDB id 1399 DSB67 RS15600 WP 010645755.1      ..........MTPQNDIDLAAWLKLSCLPGIGGVKMNKLLSKDTPSNIVQYSTEQLQLLGLTA....KQLQAWSQV....   62
NTDB id 626 LCA RS04960 WP 011374694.1         ...............MLTKNQLLLKVHLAAGFGTISELRLAA..WLSTSHNW...ALSALEIAQI......ARLPERYWPT   55
NTDB id 114 BSU 16110 NP 389493.1              MDQAAVCLTICRINQLLSPSLLLKWWK.ADPSMSLTSPVLQ..T...........VTRDQIKA.AALK...NEIEQFYPK   62
NTDB id 599 KW2 RS05940 WP 021037268.1         ...............MITNFDLFRWKK.AGMTNLGVNKLLK..FF.RKYDR...KISLRQMGQVAQVKSIPNFIEQY.KN   57
NTDB id 525 SMSK321 RS06295 WP 000705298.1     ...............MKITNYEIYKLKK.SGLTNQQILKVLE..YG.ENVDQ...ELLLGDIADISGCRNPAVFMERY.FQ   58
NTDB id 267 KZH43 RS05590 WP 000705306.1       ...............MKITNYEIYKLKK.SGLTNQQILKVLE..YG.ENVDQ...ELLLGDIADISGCRNPAVFMERY.FQ   58
NTDB id 226 SPD RS05990 WP 000705306.1         ...............MKITNYEIYKLKK.SGLTNQQILKVLE..YG.ENVDQ...ELLLGDIADISGCRNPAVFMERY.FQ   58
NTDB id 192 SPR RS05715 WP 000705306.1         ...............MKITNYEIYKLKK.SGLTNQQILKVLE..YG.ENVDQ...ELLLGDIADISGCRNPAVFMERY.FQ   58
NTDB id 157 SP RS06205 WP 000705306.1          ...............MKITNYEIYKLKK.SGLTNQQILKVLE..YG.ENVDQ...ELLLGDIADISGCRNPAVFMERY.FQ   58
NTDB id 497 SM12261 RS05565 WP 000705318.1     ...............MKITNYEIYKLKK.SGLTNQQVLAVLE..YG.ENVDQ...ELLLGDIAEISGCRNPAVFMERY.FQ   58
NTDB id 1146001 BUC38 RS05675 WP 044689882.1  ................MNNFELFKWKK.AGLTNLNINKVLA..YQ.DLHGK...KLTLRNIAVVSECKNPVLFMENY.KN   56
NTDB id 407 SMU RS04605 WP 002262865.1         ................MDNFQLFKLKK.AGLTNLNILNIID..YE.ERTQK...SLSLRDMAVVSKNKKPLIFMEHY.KN   56
consensus                                                      ***********  **** ******   *  * *     * * *** **  *** **** *  *
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1250 GCO85 RS13065 WP 027219989.1      FDPDFIKTDLNWLSS..SENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQ.PSLAIVGSRNASVTGNENARAFS   134
NTDB id 1399 DSB67 RS15600 WP 010645755.1      ..DKEVDACLTWVAA..SSHHHILTLADALYPPLLKQTVAPPPLLFVKGEASCLPQ.PQIAMVGSRNASVDGLQHTRTFA   137
NTDB id 626 LCA RS04960 WP 011374694.1         FQASFQSTTLQRQCIDHEVRTTYLTILDKDYPQRLLETYLPPVLLFYRGDLRLLKQ.PCLAVVGARQATHYSKQSLEQLL   134
NTDB id 114 BSU 16110 NP 389493.1              LP........RVLAAYREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPIAYGKQVVNHLT   134
NTDB id 599 KW2 RS05940 WP 021037268.1         QD........VKKLRADYKKFSSFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIV   128
NTDB id 525 SMSK321 RS06295 WP 000705298.1     ID........DAHLEKEFKKIPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKII   129
NTDB id 267 KZH43 RS05590 WP 000705306.1       ID........DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 226 SPD RS05990 WP 000705306.1         ID........DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 192 SPR RS05715 WP 000705306.1         ID........DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 157 SP RS06205 WP 000705306.1          ID........DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 497 SM12261 RS05565 WP 000705318.1     ID........DAHLEKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVI   129
NTDB id 1146001 BUC38 RS05675 WP 044689882.1  LD........IKACREEFNKFPSFSILDDVYPLALKQIYNPPVLLFYQGDLELLEK.SKLAVVGTRNASKNGVQSVQKII   127
NTDB id 407 SMU RS04605 WP 002262865.1         LD........SKALRKEFNRFPSLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKII   127
consensus                                      **          *  ************ !!   ! **** !******! ***!*  *****!!*!   *  *  **  ***
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logo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
NTDB id 1250 GCO85 RS13065 WP 027219989.1      REISRHGVSIVSGLALGIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQITENGLLLSEFPLKSPPIAGHFPLR   214
NTDB id 1399 DSB67 RS15600 WP 010645755.1      SDLVQHDLIVTSGLALGIDGHAHDGALLAGGKTIAVLGSGLEQVYPARHRGLAQRVAENGALVSEFRPDAKPRAENFPRR   217
NTDB id 626 LCA RS04960 WP 011374694.1         QGL..TATTIISGLAQGADAMAHEVALQRGLAPIGVIGTGINCSYPPQNEHLQQVVAEKGLLLSEYALGTPARRYQFPAR   212
NTDB id 114 BSU 16110 NP 389493.1              KEICRKGWVIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHMAKHHILLSEHPPETKPQKWHFPMR   214
NTDB id 599 KW2 RS05940 WP 021037268.1         TEL.NQSFTIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPLKYHFPER   207
NTDB id 525 SMSK321 RS06295 WP 000705298.1     QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 267 KZH43 RS05590 WP 000705306.1       QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 226 SPD RS05990 WP 000705306.1         QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 192 SPR RS05715 WP 000705306.1         QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 157 SP RS06205 WP 000705306.1          QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 497 SM12261 RS05565 WP 000705318.1     QGL.ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPAR   208
NTDB id 1146001 BUC38 RS05675 WP 044689882.1  KEL.NNRFVIVSGLARGIDTAAHIASLKNGGQTIAVIGTGLDNIYPKENRELQTYIGKHHLVLTEYEPGAQPLKYHFPER   206
NTDB id 407 SMU RS04605 WP 002262865.1         QDL.SKQFVIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYIAKNHLLLSEYEAQSQPLKYHFPER   206
consensus                                      * *  * ****!!!!*!*!***!****  ****!*!***!*** !!* *********  *****!* ** ******!! !
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logo
                                                 NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF

NTDB id 1250 GCO85 RS13065 WP 027219989.1        NRIISGLSLCILVIEAAIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKIEHH.QF   293
NTDB id 1399 DSB67 RS15600 WP 010645755.1        NRIISGLSLGVLVVEAAEKSGSLITARYALEQGREVFALPASINAPNASGGNQLIQNGACLVQNTQEVLNEIQSLLDWSI   297
NTDB id 626 LCA RS04960 WP 011374694.1           NKIIAGLCHSLIVTEARHKSGSLITANLALQANRNVYAIPGRIDQSLSQGCNQLIAAGATPLLDKNILIEELRYFD....   288
NTDB id 114 BSU 16110 NP 389493.1                NRIISGLSEGVIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPERNV.QY   293
NTDB id 599 KW2 RS05940 WP 021037268.1           NRIIAGLSRGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN.....   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1       NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 267 KZH43 RS05590 WP 000705306.1         NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 226 SPD RS05990 WP 000705306.1           NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 192 SPR RS05715 WP 000705306.1           NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 157 SP RS06205 WP 000705306.1            NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 497 SM12261 RS05565 WP 000705318.1       NRIIAGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF......   282
NTDB id 1146001 BUC38 RS05675 WP 044689882.1     NRIIAGLVEGLVVCEAKMRSGSLITCERALEEGREVYAIPGSIMDGKSDGCHHLIQEGAKCITSGLDIISEYQF......   280
NTDB id 407 SMU RS04605 WP 002262865.1           NRIIAGLSQGVMVAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF......   280
consensus                                        !*!!*!!  ***! *****!!!!!***!****!*****!*********!***!***!!********** !* *

logo
                                                 TSNKPIFSLASGKENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER
                                                 NQSLDLFSAPIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGYIRKGRG

NTDB id 1250 GCO85 RS13065 WP 027219989.1        TSNKPIFSLASG.....KENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER   361
NTDB id 1399 DSB67 RS15600 WP 010645755.1        NQSLDLFSAPIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGYIRKGRG.   369
NTDB id 626 LCA RS04960 WP 011374694.1           ..........................................................................   288
NTDB id 114 BSU 16110 NP 389493.1                TEPF......................................................................   297
NTDB id 599 KW2 RS05940 WP 021037268.1           ..........................................................................   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1       ..........................................................................   282
NTDB id 267 KZH43 RS05590 WP 000705306.1         ..........................................................................   282
NTDB id 226 SPD RS05990 WP 000705306.1           ..........................................................................   282
NTDB id 192 SPR RS05715 WP 000705306.1           ..........................................................................   282
NTDB id 157 SP RS06205 WP 000705306.1            ..........................................................................   282
NTDB id 497 SM12261 RS05565 WP 000705318.1       ..........................................................................   282
NTDB id 1146001 BUC38 RS05675 WP 044689882.1     ..........................................................................   280
NTDB id 407 SMU RS04605 WP 002262865.1           ..........................................................................   280
consensus
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X non conserved
X similar
X ≥ 50% conserved