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NTDB id 1250 GCO85 RS13065 WP 027219989.1    ...............MNNLQPLLALNRMKRIGPRTVLKLQ.KRWPDLNLMF...QLSSVDLEEAGLPSWLAQTIKNFDPD    61
NTDB id 1399 DSB67 RS15600 WP 010645755.1    ..........MTPQNDIDLAAWLKLSCLPGIGGVKMNKLLSKDTPSNIVQYSTEQLQLLGLTAKQLQAWSQV......DK    64
NTDB id 626 LCA RS04960 WP 011374694.1       ...............MLTKNQLLLKVHLAAGFGTISELRLAAWLSTSHNWALSALEIAQIA.......RLPERYWPTFQAS    59
NTDB id 114 BSU 16110 NP 389493.1            MDQAAVCLTICRINQLLSPSLLLKWWK.ADPSMSLTSPVLQTV........TRDQIKAAA..LK...NEIEQFYPKLP..    64
NTDB id 599 KW2 RS05940 WP 021037268.1       ...............MITNFDLFRWKK.AGMTNLGVNKLLKFFR.KYDRKISLRQMGQVA.QVKSIPNFIEQY.KNQD..    59
NTDB id 525 SMSK321 RS06295 WP 000705298.1   ...............MKITNYEIYKLKK.SGLTNQQILKVLEYGE.NVDQELLLGDIADIS.GCRNPAVFMERY.FQID..    60
NTDB id 267 KZH43 RS05590 WP 000705306.1     ...............MKITNYEIYKLKK.SGLTNQQILKVLEYGE.NVDQELLLGDIADIS.GCRNPAVFMERY.FQID..    60
NTDB id 226 SPD RS05990 WP 000705306.1       ...............MKITNYEIYKLKK.SGLTNQQILKVLEYGE.NVDQELLLGDIADIS.GCRNPAVFMERY.FQID..    60
NTDB id 192 SPR RS05715 WP 000705306.1       ...............MKITNYEIYKLKK.SGLTNQQILKVLEYGE.NVDQELLLGDIADIS.GCRNPAVFMERY.FQID..    60
NTDB id 157 SP RS06205 WP 000705306.1        ...............MKITNYEIYKLKK.SGLTNQQILKVLEYGE.NVDQELLLGDIADIS.GCRNPAVFMERY.FQID..    60
NTDB id 497 SM12261 RS05565 WP 000705318.1   ...............MKITNYEIYKLKK.SGLTNQQVLAVLEYGE.NVDQELLLGDIAEIS.GCRNPAVFMERY.FQID..    60
NTDB id 51479 SSUST1 RS04720 WP 014735834.1  ................MNNFELFKWKK.AGLTNLNVNKVLAYQE.KHGKKLTLRNIAVVS.ESKNPVLFMENY.KNLD..    58
NTDB id 407 SMU RS04605 WP 002262865.1       ................MDNFQLFKLKK.AGLTNLNILNIIDYEE.RTQKSLSLRDMAVVS.KNKKPLIFMEHY.KNLD..    58
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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NTDB id 1250 GCO85 RS13065 WP 027219989.1    FIKTDLNWLSS..SENHHILTWDSPYYPALLKEIADPPFILYAKGELSALTQ.PSLAIVGSRNASVTGNENARAFSRELS    138
NTDB id 1399 DSB67 RS15600 WP 010645755.1    EVDACLTWVAA..SSHHHILTLADALYPPLLKQTVAPPPLLFVKGEASCLPQ.PQIAMVGSRNASVDGLQHTRTFASDLV    141
NTDB id 626 LCA RS04960 WP 011374694.1       FQSTTLQRQCIDHEVRTTYLTILDKDYPQRLLETYLPPVLLFYRGDLRLLKQ.PCLAVVGARQATHYSKQSLEQLLQGL.    137
NTDB id 114 BSU 16110 NP 389493.1            ......RVLAAYREQGINTIPISSKQYPFWLKSIYDPPAVLFAKGDMTLLSKGRKIGIVGTRNPIAYGKQVVNHLTKEIC    138
NTDB id 599 KW2 RS05940 WP 021037268.1       ......VKKLRADYKKFSSFSILDDLYPERLREIYNPPVLIFYQGNIDLLKN.PKLAFVGSRLAGQSGIKSVQKIVTEL.    131
NTDB id 525 SMSK321 RS06295 WP 000705298.1   ......DAHLEKEFKKIPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRSCSKQGAKSVEKIIQGL.    132
NTDB id 267 KZH43 RS05590 WP 000705306.1     ......DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.    132
NTDB id 226 SPD RS05990 WP 000705306.1       ......DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.    132
NTDB id 192 SPR RS05715 WP 000705306.1       ......DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.    132
NTDB id 157 SP RS06205 WP 000705306.1        ......DAHLSKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.    132
NTDB id 497 SM12261 RS05565 WP 000705318.1   ......DAHLEKEFQKFPSFSILDDCYPWDLSEIYDAPVLLFYKGNLDLLKF.PKVAVVGSRACSKQGAKSVEKVIQGL.    132
NTDB id 51479 SSUST1 RS04720 WP 014735834.1  ......IKACREEFNKYPSFSILDDIYPLALKQIYNPPVLLFYQGDLELLEK.SKLAVVGTRNASKNGIQSVQKIIKEL.    130
NTDB id 407 SMU RS04605 WP 002262865.1       ......SKALRKEFNRFPSLSILDKEYPLELKNIYNPPVLLFYQGDLDLLAR.PKLAVVGSRNASQMGVAAVKKIIQDL.    130
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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NTDB id 1250 GCO85 RS13065 WP 027219989.1    RHGVSIVSGLALGIDAHAHLGCLEGGGKTIAVLGTGIDCIYPRRHLKLAEQITENGLLLSEFPLKSPPIAGHFPLRNRII    218
NTDB id 1399 DSB67 RS15600 WP 010645755.1    QHDLIVTSGLALGIDGHAHDGALLAGGKTIAVLGSGLEQVYPARHRGLAQRVAENGALVSEFRPDAKPRAENFPRRNRII    221
NTDB id 626 LCA RS04960 WP 011374694.1       .TATTIISGLAQGADAMAHEVALQRGLAPIGVIGTGINCSYPPQNEHLQQVVAEKGLLLSEYALGTPARRYQFPARNKII    216
NTDB id 114 BSU 16110 NP 389493.1            RKGWVIVSGLASGIDGMSHAASIKAKGRTIGVIAGGFQHIYPRENLQLADHMAKHHILLSEHPPETKPQKWHFPMRNRII    218
NTDB id 599 KW2 RS05940 WP 021037268.1       NQSFTIVSGLAKGIDTASHLSAIKTKTPTIAVIGTGLDIFYPLENRKIQEYLAKYQLVLSEYSLGEKPLKYHFPERNRII    211
NTDB id 525 SMSK321 RS06295 WP 000705298.1   ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYISNDHLVLSEYGPGEQPLKFHFPARNRII    212
NTDB id 267 KZH43 RS05590 WP 000705306.1     ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRII    212
NTDB id 226 SPD RS05990 WP 000705306.1       ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRII    212
NTDB id 192 SPR RS05715 WP 000705306.1       ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRII    212
NTDB id 157 SP RS06205 WP 000705306.1        ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRII    212
NTDB id 497 SM12261 RS05565 WP 000705318.1   ENELVIVSGLAKGIDTAAHMAALQNGGKTIAVIGTGLDVFYPKANKRLQDYIGNDHLVLSEYGPGEQPLKFHFPARNRII    212
NTDB id 51479 SSUST1 RS04720 WP 014735834.1  NNRFVIVSGLARGIDTAAHIASLKNGGQTIAVIGTGLDNIYPKENKDLQTYIGKHHLVLTEYEPNAQPLKYHFPERNRII    210
NTDB id 407 SMU RS04605 WP 002262865.1       SKQFVIISGLARGIDTAAHLASLKSGGATIAVIGTGLDVHYPKENRRLQDYIAKNHLLLSEYEAQSQPLKYHFPERNRII    210
consensus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                
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NTDB id 1250 GCO85 RS13065 WP 027219989.1     SGLSLCILVIEAAIKSGSLITARMALEQNRDVLAIPGSIHNPLARGCHYLLQQGAKLVTSVADVLDELKIEHH.QFTSNK   297
NTDB id 1399 DSB67 RS15600 WP 010645755.1     SGLSLGVLVVEAAEKSGSLITARYALEQGREVFALPASINAPNASGGNQLIQNGACLVQNTQEVLNEIQSLLDWSINQSL   301
NTDB id 626 LCA RS04960 WP 011374694.1        AGLCHSLIVTEARHKSGSLITANLALQANRNVYAIPGRIDQSLSQGCNQLIAAGATPLLDKNILIEELRYFD........   288
NTDB id 114 BSU 16110 NP 389493.1             SGLSEGVIVVQGKEKSGSLITAYQALEQGREVFAVPGSLFDPYAGGPIKLIQQGAKAIWSAEDIFEELPERNV.QYTEPF   297
NTDB id 599 KW2 RS05940 WP 021037268.1        AGLSRGVVVVEAKLRSGSLITCERALEEGRDIFAIPGNIADGTSDGCNHLIQQGAKLVYQAQDILEEYLYN.........   282
NTDB id 525 SMSK321 RS06295 WP 000705298.1    AGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF..........   282
NTDB id 267 KZH43 RS05590 WP 000705306.1      AGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF..........   282
NTDB id 226 SPD RS05990 WP 000705306.1        AGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF..........   282
NTDB id 192 SPR RS05715 WP 000705306.1        AGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF..........   282
NTDB id 157 SP RS06205 WP 000705306.1         AGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF..........   282
NTDB id 497 SM12261 RS05565 WP 000705318.1    AGLCRGVIVAEAKMRSGSLITCERAMEEGRDVFAIPGSILDGLSDGCHHLIQEGAKLVTSGQDVLAEFEF..........   282
NTDB id 51479 SSUST1 RS04720 WP 014735834.1   AGLVEGLVVCEAKMRSGSLITCEHALEEGREVYAIPGSIMDGKSDGCHHLIQEGAKCVTSGLDIISEYQF..........   280
NTDB id 407 SMU RS04605 WP 002262865.1        AGLSQGVMVAEAKIRSGSLITCERAMEEGRDVFVVPGNILDGQSEGCHHLIQEGAKCITSGFDILNEFNF..........   280
consensus                                     *!!  ***! *****!!!!!!***!****!*****!*********!***!***!!*********  !* *

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NTDB id 1250 GCO85 RS13065 WP 027219989.1     PIFSLASG.....KENLVKFIGFETTTIDQIIDRSGYGMEQVTSGLAELELKGAVIAVPGGYIRCEYER   361
NTDB id 1399 DSB67 RS15600 WP 010645755.1     DLFSAPIDEEELPFPQLLANVGNEATPVDILASRTNIPVQEVMMQLLELELSGHVVAVSGGYIRKGRG.   369
NTDB id 626 LCA RS04960 WP 011374694.1        ..........................................................................   288
NTDB id 114 BSU 16110 NP 389493.1             ..........................................................................   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 51479 SSUST1 RS04720 WP 014735834.1   ..........................................................................   280
NTDB id 407 SMU RS04605 WP 002262865.1        ..........................................................................   280
consensus
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X non conserved

X similar

X $\geq$ 50% conserved