

logo

	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVFDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVFDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDFNFKQKRAHTLDFRPLILLGQQLQQQSLEPALEELLQLS	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDFNFKQKRAHTLDFRPLILLGQQLQQQSLEPALEELLQLS	160
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HTLMAETVTGTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQYREFVDRSLELLSRYSSSEQLLEARLLQFNQSWDAYVEQ	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQYREFVDRSLELLSRYSSSEQLLEARLLQFNQSWDAYVEQ	320
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	HGDRTDPLMP SHGLV S QLLQLD V S ELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HGDRTDPLMP SHGLV S QLLQLD V S ELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	400
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI LLEELKLYTQYTPDISNDLPQQDSTSFEP IYNI EP	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI LLEELKLYTQYTPDISNDLPQQDSTSFEP IYNI EP	480
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGI DTDLNIWVGEQENFAALNNLM	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGI DTDLNIWVGEQENFAALNNLM	560
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1	RYLHTLKGGANMVQATYLG LIAHELES IYERLI QKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTI NALKRA	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	RYLHTLKGGANMVQATYLG LIAHELES IYERLI QKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTI NALKRA	640
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	GQNSNFQPLPVVEAFDAESEVFSEQKVI SEI I I DE I PVELEPALAELETHHDQVFD TAVTELATPVEM I TTVTSQENEVA	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GQNSNFQPLPVVEAFDAESEVFSEQKVI SEI I I DE I PVELEPALAELETHHDQVFD TAVTELATPVEM I TTVTSQENEVA	720
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	ANEQDI EAVVEQTFLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMVGL EAVQAI AYQLENAFEQFAL	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ANEQDI EAVVEQTFLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMVGL EAVQAI AYQLENAFEQFAL	800
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	HHFNSNIYDHLLES AIAWLKDAIFNHNYQHFDGLQQSLENIQFFETT I QI I PTKLTRADLFSSEPVM TFI QGDGTEPPPM	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HHFNSNIYDHLLES AIAWLKDAIFNHNYQHFDGLQQSLENIQFFETT I QI I PTKLTRADLFSSEPVM TFI QGDGTEPPPM	880
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	GAWEQTERLDQNNEMI RVSADLI EKMI DLSGENS I NRSRI EMDLSQFSHTLVEMELAI QRLADQLRRMEGELETQ I IAKH	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GAWEQTERLDQNNEMI RVSADLI EKMI DLSGENS I NRSRI EMDLSQFSHTLVEMELAI QRLADQLRRMEGELETQ I IAKH	960
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	G I E H S R Y T D F D P L E M D Q Y S S L N Q L S K S L A E S A S D L V D F K N T L S D K I R D T E S L L L Q Q S R I Q A E I Q E G L M R T R L V P F S R L L P	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	G I E H S R Y T D F D P L E M D Q Y S S L N Q L S K S L A E S A S D L V D F K N T L S D K I R D T E S L L L Q Q S R I Q A E I Q E G L M R T R L V P F S R L L P	1040
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	R L Q R I V R Q T S T A L N R P A E L F V N N T E G E L D R N I L E R L V T P L E H M L R N A I D H G L E D R A Q R Q Q A N K P E T G R I E L N I Q R Q G T D V	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	R L Q R I V R Q T S T A L N R P A E L F V N N T E G E L D R N I L E R L V T P L E H M L R N A I D H G L E D R A Q R Q Q A N K P E T G R I E L N I Q R Q G T D V	1120
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	V V V F S D D G Q G I D V E K V R Q K A L L A G L I K P E Q D L E Q Q D I L Q L I F H P G L S T A E Q V T Q I S G R G V G L D V V Q S D I K S L G G H V S V E S	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	V V V F S D D G Q G I D V E K V R Q K A L L A G L I K P E Q D L E Q Q D I L Q L I F H P G L S T A E Q V T Q I S G R G V G L D V V Q S D I K S L G G H V S V E S	1200
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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	V Y G Q G T T F T I R V P T T V A V S D A L M V K V A D Q Q F A I P L A Q I D R I I R V S P A S L E Q Y F E S P Q E L F E Y E N K R Y P L R Y L S E F V G N Q P	
NTDB id 372 SMU RS05280 WP 002262198.1	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	V Y G Q G T T F T I R V P T T V A V S D A L M V K V A D Q Q F A I P L A Q I D R I I R V S P A S L E Q Y F E S P Q E L F E Y E N K R Y P L R Y L S E F V G N Q P	1280
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

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NTDB id 372 SMU RS05280 WP 002262198.1 ..... 0  
 NTDB id 374 SMU RS06885 WP 002262930.1 ..... 0  
 NTDB id 413 AAK55817.1 141..845( ) ..... 0  
 NTDB id 1046 HON27 RS03130 WP 168726941.1 IPRLNGVMYSLPVLMIKANNGQTVALLVDQLIGSRAQIVVKPIGQQFSSIGAIAGATILGDGQVCLILDGQNIARQIQST 1360  
 NTDB id 1047 HON27 RS03110 WP 000389061.1 ..... 0  
 NTDB id 1132907 NMG87 RS21120 WP 026787647.1 ..... 0  
 NTDB id 1417 SGL RS04200 WP 014407071.1 ..... 0  
 consensus

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NTDB id 372 SMU RS05280 WP 002262198.1 ..... 65  
 NTDB id 374 SMU RS06885 WP 002262930.1 ..... 60  
 NTDB id 413 AAK55817.1 141..845( ) ..... 60  
 NTDB id 1046 HON27 RS03130 WP 168726941.1 QRHKQLSEAVYRQRESDEHLLIMIVDDSVTVRKVTSRLLERQCQYDVVTAKD.CVDATLQLENI.KPDIIMLDIEMPRMDG 1438  
 NTDB id 1047 HON27 RS03110 WP 000389061.1 ..... MEDAFQNLKVMVIVDDSKTIRRTAETLLQREGCEVITAVD.GFEALSKIAEA.NPDIIVFVIMPRMDG 66  
 NTDB id 1132907 NMG87 RS21120 WP 026787647.1 ..... MTTVMIVDDSNALREITAKMLRDSGMEVISAED.CVDALEKIQVTLQDLVVLVDIVMPNMNG 61  
 NTDB id 1417 SGL RS04200 WP 014407071.1 ..... MNAVLLVEDSSSQREMISGILKDHGQVTTIACD.GVEALEKLGNF.SPDLVVLVDIVMPRMNG 60  
 consensus

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NTDB id 372 SMU RS05280 WP 002262198.1 ..... 133  
 NTDB id 374 SMU RS06885 WP 002262930.1 ..... 137  
 NTDB id 413 AAK55817.1 141..845( ) ..... 136  
 NTDB id 1046 HON27 RS03130 WP 168726941.1 FEVLNLRHHDHMQYMPIIMTSRTGKRRERAFSLGVSQYMGKPFQEBELLENIDALLVAFESEVKS..... 1506  
 NTDB id 1047 HON27 RS03110 WP 000389061.1 YQTCALIKNSQNYQNIIPVIMLSSKDGLFDQAKGRVVGSDLEYLTKPFSKDELLNATRNHWSS..... 127  
 NTDB id 1132907 NMG87 RS21120 WP 026787647.1 YEICRHIKKNPKTQNIIPVVMCSSKSEDFDIWCTIRQGADAYISKPFPRPELLSTIKQLLPR..... 122  
 NTDB id 1417 SGL RS04200 WP 014407071.1 YEVCRRIKSDPKTKNVIPVMCSSKGEFDFWGMRRQGADAYIAKPFQPMELVGTIKQLLRN..... 121  
 consensus

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NTDB id 372 SMU RS05280 WP 002262198.1 ..... 212  
 NTDB id 374 SMU RS06885 WP 002262930.1 ..... 217  
 NTDB id 413 AAK55817.1 141..845( ) ..... 216  
 NTDB id 1046 HON27 RS03130 WP 168726941.1 ..... 1506  
 NTDB id 1047 HON27 RS03110 WP 000389061.1 ..... 127  
 NTDB id 1132907 NMG87 RS21120 WP 026787647.1 ..... 122  
 NTDB id 1417 SGL RS04200 WP 014407071.1 ..... 121  
 consensus

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NTDB id 372 SMU RS05280 WP 002262198.1	PECLLT	TVKGLGYKLVKVS..	229
NTDB id 374 SMU RS06885 WP 002262930.1	PEYIL	TRRGVGYMKSYD.	235
NTDB id 413 AAK55817.1 141..845( )	PEYIL	TRRGVGYMRNNA*	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	.....	127
NTDB id 1132907 NMG87 RS21120 WP 026787647.1	.....	.....	122
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	.....	121
consensus			

PEYILTRRGVGYMKSYR

non conserved  
 similar  
 ≥ 50% conserved