

logo

	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIEFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	
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	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIEFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS	
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	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS	160
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTLMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	
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	HTLMAETVTGTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTLMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	
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	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	320
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	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	HGDRTDPLMPSHGLVSQLQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	400
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQQRVGWVKQHQSI LLEELKLYTQYTPDISNDLPQQDSTSFEPIYNIEP	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	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQQRVGWVKQHQSI LLEELKLYTQYTPDISNDLPQQDSTSFEPIYNIEP	480
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

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 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	RYLHTLKGGANMVQATYLGGLIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	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	RYLHTLKGGANMVQATYLGGLIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	640
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	GQNSNFQPLPVVEAFDAESEVFSEQKVI SEI I I DEIPVELEPALAELETHHDQVFD TAVTELATPVEMI TTVTSQENEVA	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 DEIPVELEPALAELETHHDQVFD TAVTELATPVEMI TTVTSQENEVA	720
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	ANEQDI EAWVEQTFLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMV GLEAVQAI AYQLENAFEQFAL	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 EAWVEQTFLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMV GLEAVQAI AYQLENAFEQFAL	800
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	HHFNSNIYDHLLES AIAWLKDAIFNHNYQHFDGLQQSLENI QFFETT I QI I PTKLTRADLFSSEPVM TFI QGDGTEPPPPM	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 AIAWLKDAIFNHNYQHFDGLQQSLENI QFFETT I QI I PTKLTRADLFSSEPVM TFI QGDGTEPPPPM	880
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	GAWEQTERLDQNNEMI RVSADLI EKMI DLSGENS I NRSRI EMDLSQFSHTLVEMELAI QRLADQLRRMEGELETQ I I AKH	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 I AKH	960
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	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	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 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	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	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 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

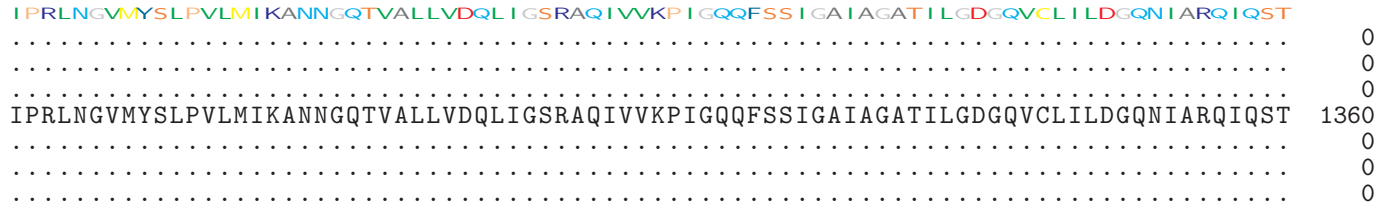
NTDB id 372 SMU RS05280 WP 002262198.1	V V V F S D D G Q G I D V E K V R Q K A L L A G L I K P E Q D L E Q Q D I L Q L I F H P G L S T A E Q V T Q I S G R G V G L D V V Q S D I K S L G G H V S V E S	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 1046 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 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 372 SMU RS05280 WP 002262198.1	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	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 1132873 NMK38 RS16625 WP 042154217.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

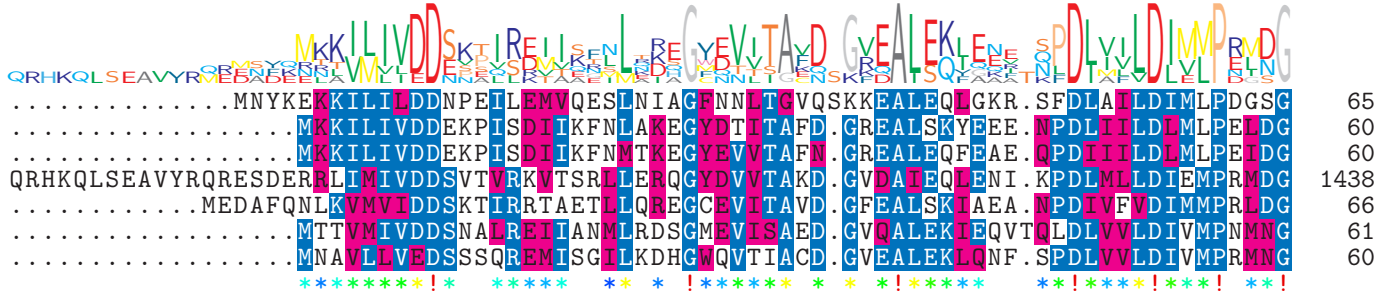
logo

NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 413 AAK55817.1 141..845()
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 1132873 NMK38 RS16625 WP 042154217.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



logo

NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 413 AAK55817.1 141..845()
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 1132873 NMK38 RS16625 WP 042154217.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



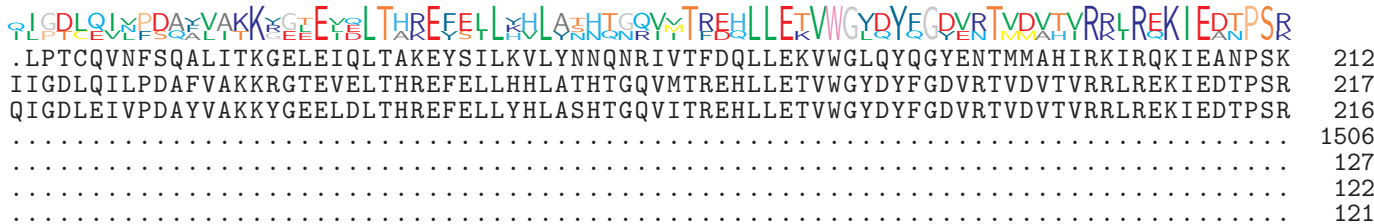
logo

NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 413 AAK55817.1 141..845()
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 1132873 NMK38 RS16625 WP 042154217.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



logo

NTDB id 372 SMU RS05280 WP 002262198.1
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 413 AAK55817.1 141..845()
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 1132873 NMK38 RS16625 WP 042154217.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



logo

NTDB id 372 SMU RS05280 WP 002262198.1	PECLLT	TVKGLGYKLKVS..	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 1132873 NMK38 RS16625 WP 042154217.1	.....		122
NTDB id 1417 SGL RS04200 WP 014407071.1	.....		121
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved