

logo

NTDB id 413 AAK55817.1 141..845()	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQSLEPALEEELLQLS	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ELAWTVEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQLQQQSLEPALEEELLQLS	160
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETLTLFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETLTLFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQ	320
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	HGDRTDPLMPSHGLVSQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMGLLHEYTSQLKESYEV	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HGDRTDPLMPSHGLVSQLQLDVSELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMGLLHEYTSQLKESYEV	400
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYNI EP	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYNI EP	480
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	EPEVWATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLE G IDTDLNIWVGEQENFAALNNLM	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	EPEVWATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLE G IDTDLNIWVGEQENFAALNNLM	560
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	RYLHTLKGGANMVQATYLG LIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	RYLHTLKGGANMVQATYLG LIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	640
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	GQNSNFQPLPVVEAFDAESEVFSEQKVISEI I IDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTSQENEVA	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GQNSNFQPLPVVEAFDAESEVFSEQKVISEI I IDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTSQENEVA	720
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	ANEQDI EAVVEQTFLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMVGL EAVQAIAYQLEN AFEQFAL	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ANEQDIEAVVEQTFLEEATELLEMAESLLKQWFEQRTNRS I LLQLQRAVHSLKGGARMVGL EAVQAIAYQLEN AFEQFAL	800
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	HHFNSNIYDHLLESAIAWLKDAIFNHNYQHFDGLQQSLENIQFFETTIQIPTKLTRADLFSSEPVMTFIQGDGTEPPPM	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HHFNSNIYDHLLESAIAWLKDAIFNHNYQHFDGLQQSLENIQFFETTIQIPTKLTRADLFSSEPVMTFIQGDGTEPPPM	880
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	GAWEQTERLDQNNEMIRVSADLIEKMIDLSGENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQIIAKH	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GAWEQTERLDQNNEMIRVSADLIEKMIDLSGENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQIIAKH	960
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	GIEHSRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESELLLQQSRIQAEIQEGLMRTRLVPFSRLLP	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GIEHSRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESELLLQQSRIQAEIQEGLMRTRLVPFSRLLP	1040
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

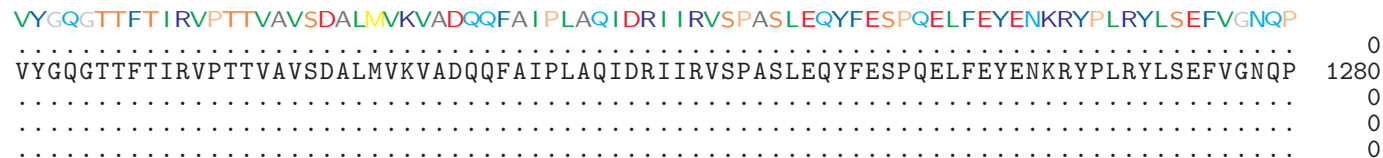
logo

NTDB id 413 AAK55817.1 141..845()	RLQRIVRQTSTALNRPAELFVNNTGEGELDRNILERLVTPLEHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQRQGTDV	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	RLQRIVRQTSTALNRPAELFVNNTGEGELDRNILERLVTPLEHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQRQGTDV	1120
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

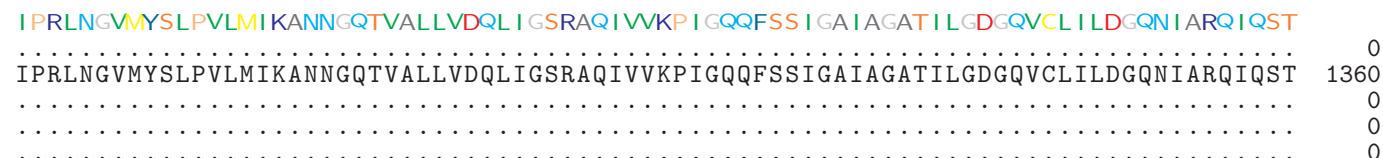
logo

NTDB id 413 AAK55817.1 141..845()	VVVFSDDGQGI DVEKVRQKALLAGLIKPEQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVSVES	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	VVVFSDDGQGI DVEKVRQKALLAGLIKPEQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVSVES	1200
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

```
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 377095 FRE64 RS06060 WP 146295130.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus
```



```
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 377095 FRE64 RS06060 WP 146295130.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus
```



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 377095 FRE64 RS06060 WP 146295130.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



```
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 377095 FRE64 RS06060 WP 146295130.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus
```



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 377095 FRE64 RS06060 WP 146295130.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



<0

logo

NTDB id 413 AAK55817.1 141..845()	EYILTRRGVGYMRNNA	234
NTDB id 1046 HON27 RS03130 WP 168726941.1	EYILTRRGVGYMRNNA*	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 377095 FRE64 RS06060 WP 146295130.1	.....	123
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved