

logo

NTDB id 413 AAK55817.1 141..845()	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIEFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIEFVDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSSLEPALEELLQLS	160
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTLMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HTLMAETVTGTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTLMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVRDLSLELLSRYSSSEQLLEARLLQFNQSWDAYVEQ	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVRDLSLELLSRYSSSEQLLEARLLQFNQSWDAYVEQ	320
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	HGDRTDPLMP SHGLV S QLLQLDVSE LLD AELDFEKGIRNEFPDYLERLSEQADLLLQH THSQAMLGLHEYTSQLKESYEV	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	HGDRTDPLMP SHGLV S QLLQLDVSE LLD AELDFEKGIRNEFPDYLERLSEQADLLLQH THSQAMLGLHEYTSQLKESYEV	400
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	LLDKPALLQSDYIF E IYQKAHQQLIQLFDALAA GQRVGVVKQHQS ILEELKLYTQYTPDISNDLPQQDSTSFEPIYNIES	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	.....	3
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIF E IYQKAHQQLIQLFDALAA GQRVGVVKQHQS ILEELKLYTQYTPDISNDLPQQDSTSFEPIYNIES	480
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	EPN EWVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGTAGAFETFELEENEDALFNNLM	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	DPN.....PAQAFENWFEEEEGDDAFTSLI	28
NTDB id 1046 HON27 RS03130 WP 168726941.1	EPEVVATVENFSDSADWAVLGQSVQQDRQYISSTQVNRNFDADLLDIFLEEAEEELLEGTIDTLNIWVGEQENFAALNNLM	560
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	RYL EHTLKGGANMVQATYLG LIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1419 SGL RS12550 WP 010873252.1	AGE.....	31
NTDB id 1046 HON27 RS03130 WP 168726941.1	RYLHTLKGGANMVQATYLG LIAHELES IYERLIQKQLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRA	640
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
consensus		

logo

NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

E^{0.1}Q^{0.1}N^{0.1}S^{0.1}N^{0.1}F^{0.1}E^{0.1}E^{0.1}L^{0.1}B^{0.1}F^{0.1}Y^{0.1}E^{0.1}F^{0.1}E^{0.1}V^{0.1}F^{0.1}S^{0.1}E^{0.1}E^{0.1}F^{0.1}S^{0.1}E^{0.1}I^{0.1}T^{0.1}I^{0.1}D^{0.1}E^{0.1}I^{0.1}P^{0.1}V^{0.1}E^{0.1}L^{0.1}E^{0.1}P^{0.1}A^{0.1}L^{0.1}A^{0.1}E^{0.1}L^{0.1}E^{0.1}T^{0.1}H^{0.1}D^{0.1}Q^{0.1}V^{0.1}F^{0.1}D^{0.1}T^{0.1}S^{0.1}Y^{0.1}E^{0.1}L^{0.1}R^{0.1}P^{0.1}V^{0.1}E^{0.1}M^{0.1}I^{0.1}T^{0.1}T^{0.1}S^{0.1}P^{0.1}E^{0.1}A^{0.1}E^{0.1}Y^{0.1}R^{0.1}
.....
ETNSGIEELDFGDLFEQEPTVIQGEFGFS.....PSSGEEDPPVRMTLDFNSPEAEELD
GQNSNFQPLPVVEAFDAESEVFSEQKVISSEIIIDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTSQENEVA
.....
.....

0
0
84
720
0
0
0

logo

NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

A^{0.1}N^{0.1}E^{0.1}Q^{0.1}D^{0.1}I^{0.1}E^{0.1}A^{0.1}W^{0.1}E^{0.1}A^{0.1}L^{0.1}F^{0.1}T^{0.1}E^{0.1}R^{0.1}T^{0.1}E^{0.1}T^{0.1}E^{0.1}M^{0.1}P^{0.1}R^{0.1}E^{0.1}S^{0.1}S^{0.1}S^{0.1}W^{0.1}L^{0.1}E^{0.1}I^{0.1}D^{0.1}Q^{0.1}M^{0.1}E^{0.1}A^{0.1}D^{0.1}P^{0.1}L^{0.1}A^{0.1}S^{0.1}I^{0.1}P^{0.1}E^{0.1}T^{0.1}N^{0.1}A^{0.1}P^{0.1}A^{0.1}Y^{0.1}Q^{0.1}T^{0.1}A^{0.1}G^{0.1}G^{0.1}L^{0.1}D^{0.1}D^{0.1}N^{0.1}L^{0.1}A^{0.1}E^{0.1}L^{0.1}Q^{0.1}D^{0.1}L^{0.1}L^{0.1}G^{0.1}V^{0.1}G^{0.1}D^{0.1}V^{0.1}E^{0.1}P^{0.1}
.....
.....ALFTDEDAPTTAIDPFESSSSWLEIDQMMEADPLASIPETNAPAYQTAGGLDDNDLAEQLDQLLGVDVEP
ANEQDIEAVVEQTFLEEATELLEMAESLLKQWFQRTNR.....S.....IL.....
.....
.....

0
0
153
762
0
0
0

logo

NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

L^{0.1}Q^{0.1}T^{0.1}R^{0.1}P^{0.1}A^{0.1}Y^{0.1}H^{0.1}S^{0.1}F^{0.1}K^{0.1}G^{0.1}A^{0.1}R^{0.1}P^{0.1}Y^{0.1}E^{0.1}L^{0.1}E^{0.1}A^{0.1}E^{0.1}G^{0.1}A^{0.1}T^{0.1}A^{0.1}F^{0.1}A^{0.1}L^{0.1}E^{0.1}N^{0.1}A^{0.1}F^{0.1}E^{0.1}Q^{0.1}F^{0.1}A^{0.1}I^{0.1}H^{0.1}H^{0.1}N^{0.1}S^{0.1}N^{0.1}I^{0.1}Y^{0.1}R^{0.1}F^{0.1}Y^{0.1}L^{0.1}E^{0.1}E^{0.1}F^{0.1}L^{0.1}S^{0.1}W^{0.1}L^{0.1}K^{0.1}D^{0.1}A^{0.1}I^{0.1}F^{0.1}N^{0.1}H^{0.1}N^{0.1}Y^{0.1}Q^{0.1}E^{0.1}F^{0.1}E^{0.1}L^{0.1}P^{0.1}S^{0.1}I^{0.1}P^{0.1}E^{0.1}R^{0.1}K^{0.1}S^{0.1}
.....
AITNPGLHSFAGADRVTPLTNEVLL.FA.....AIDDLGGLINAPVLDEEFSF.....TELETLIDTPAPKS
LQLQRAVHSLKGGARMVGLAVQAIAYQLENAFEQFALHHFNSNIYDHLLESATIAWLKDAIFNHNHYQHFDGLQQSLENIQ
.....
.....
.....

0
0
214
842
0
0
0

logo

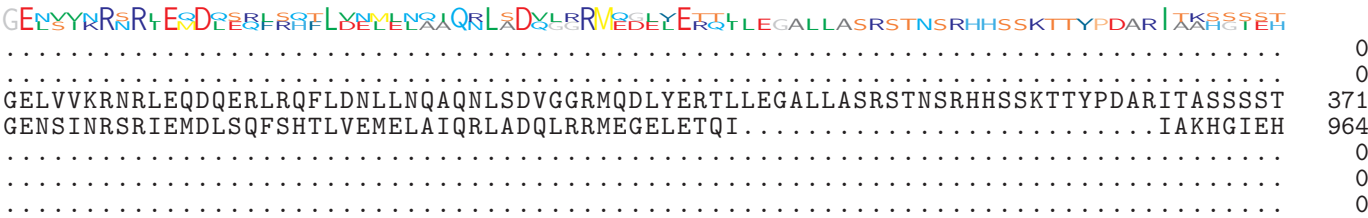
NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

F^{0.1}A^{0.1}T^{0.1}F^{0.1}E^{0.1}T^{0.1}I^{0.1}Q^{0.1}I^{0.1}P^{0.1}T^{0.1}K^{0.1}L^{0.1}T^{0.1}R^{0.1}A^{0.1}.D^{0.1}L^{0.1}F^{0.1}S^{0.1}S^{0.1}.E^{0.1}P^{0.1}.....V^{0.1}M^{0.1}T^{0.1}F^{0.1}I^{0.1}Q^{0.1}G^{0.1}D^{0.1}G^{0.1}T^{0.1}E^{0.1}P^{0.1}P^{0.1}P^{0.1}M^{0.1}M^{0.1}G^{0.1}A^{0.1}W^{0.1}E^{0.1}Q^{0.1}T^{0.1}E^{0.1}R^{0.1}L^{0.1}D^{0.1}Q^{0.1}N^{0.1}E^{0.1}M^{0.1}I^{0.1}R^{0.1}V^{0.1}S^{0.1}A^{0.1}D^{0.1}L^{0.1}E^{0.1}K^{0.1}M^{0.1}I^{0.1}D^{0.1}L^{0.1}S^{0.1}
.....
FATISHPFRLLPVAMEEDEFKDLAEALLEGADSSSLGGGIAGMGGARLPARP...RQVKSRSFQETMRVPIKQLDNLSNLI
F..FETTIQIPTKLTRA.DLFSS.EP.....VMTFIQGDGTEPPPMGAWEQTERLDQNNEMIRVSADLIEKMIDLS
.....
.....

0
0
291
910
0
0
0

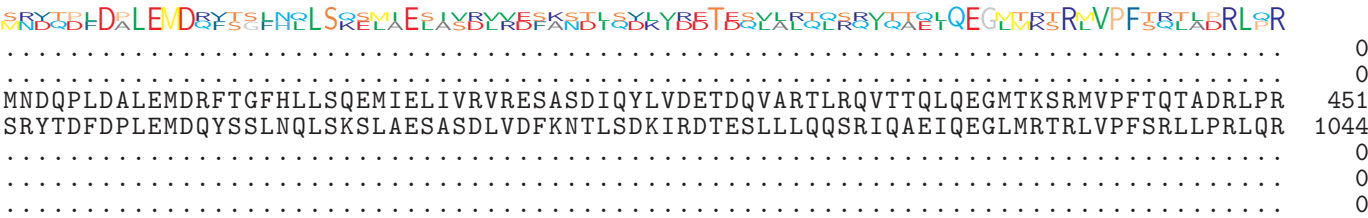
logo

NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



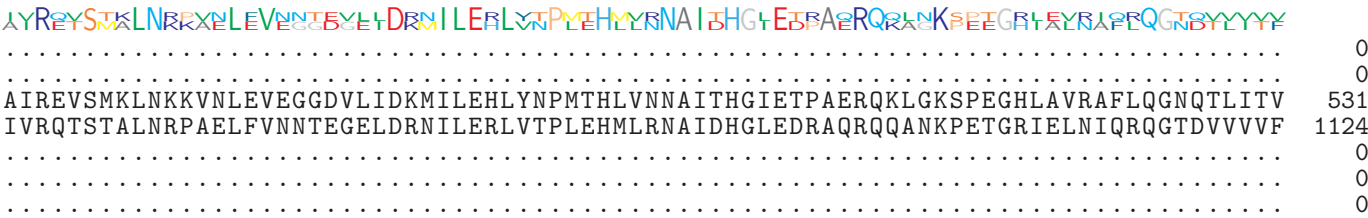
logo

NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



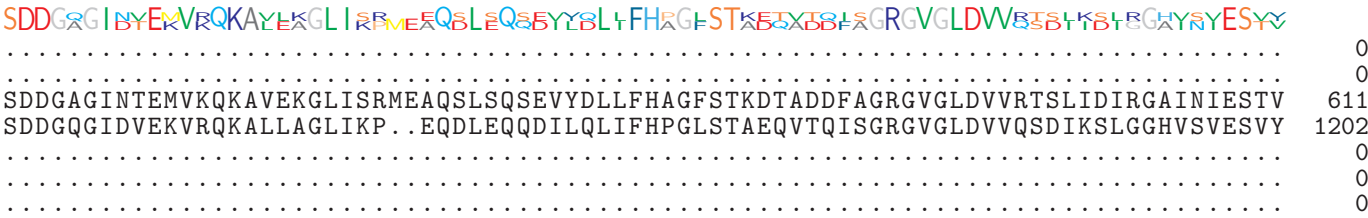
logo

NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus

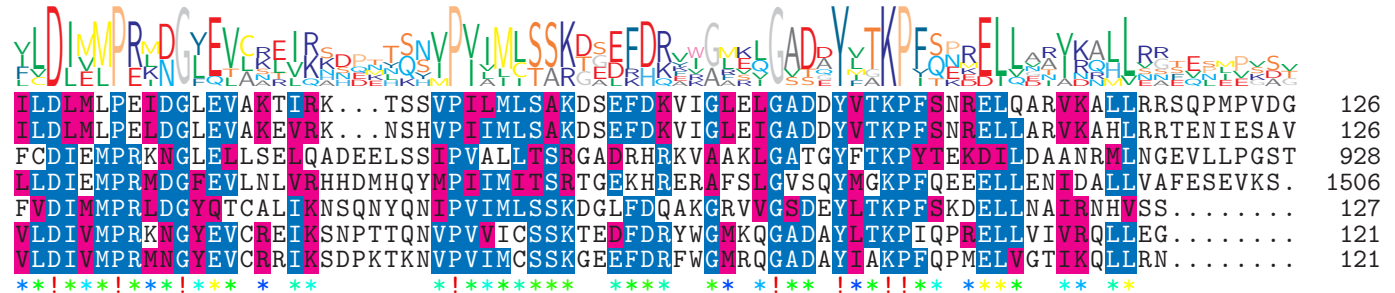
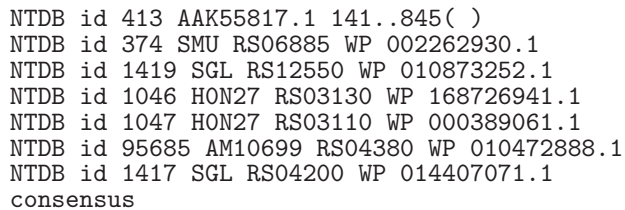
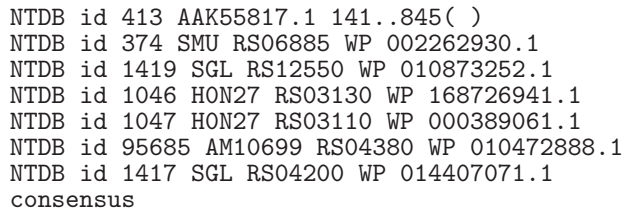
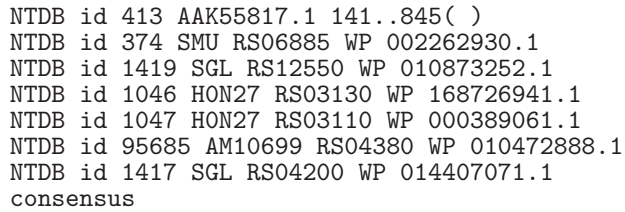


logo

NTDB id 413 AAK55817.1 141..845()
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus



```
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
NTDB id 95685 AM10699 RS04380 WP 010472888.1
NTDB id 1417 SGL RS04200 WP 014407071.1
consensus
```



logo

NTDB id 413 AAK55817.1 141..845()	Q.EADSKPQ.PIQIGDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLLETVWGYDYFG.....	194
NTDB id 374 SMU RS06885 WP 002262930.1	AEENASGIP.EIIIGDLQILPDAFVAKKRGTEVELTHREFELLHHLATHTGQVMTREHLLLETVWGYDYFG.....	195
NTDB id 1419 SGL RS12550 WP 010873252.1	RKTNLSILSRFKKARGNFSEEAPTIVRSNPGTL.....R.....STVLIIDDSVMVREMLSMTFKKADYHTETARDGQDAW	998
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

<0

logo

NTDB id 413 AAK55817.1 141..845()	DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMKNNA*.....	234
NTDB id 374 SMU RS06885 WP 002262930.1	DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMKNNA*.....	235
NTDB id 1419 SGL RS12550 WP 010873252.1	EKLKSGLPCLDILCDIEMPRMNGLELLERI QEDPNLSRIPVAMITSRGAQKMQRMAAEKGAQGYFVKPYIEETLLEASQR	1078
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

logo

NTDB id 413 AAK55817.1 141..845()	LIRGEVLLDLAALSAD E	234
NTDB id 374 SMU RS06885 WP 002262930.1	.....	235
NTDB id 1419 SGL RS12550 WP 010873252.1	LIRGEVLLDLAALSAD E	1095
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
NTDB id 95685 AM10699 RS04380 WP 010472888.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved