

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSAELAWT	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIFVDLQPLINKWMQSENIATLTEIRRHFTLKGSGRMIGAKSSAELAWT	85
NTDB id 145330 IJ00 RS15465 WP 035154387.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	0
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
consensus		

logo

NTDB id 1419 SGL RS12550 WP 010873252.1	VEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSLEPALEELLQLSHTLMAETVTG	0
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NTDB id 1046 HON27 RS03130 WP 168726941.1	VEDTLNRVINQSLQLTPTIQSYVQLVFKFYFLKLVDNFKQKRAHTLDFRPLILLGQQQLQQQSLEPALEELLQLSHTLMAETVTG	170
NTDB id 145330 IJ00 RS15465 WP 035154387.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	LELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAAEHLATIHQFLDQELHQYDSYNALIRALHTLRGSSAMAQVETIFEAS	0
NTDB id 413 AAK55817.1 141..845()		0
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NTDB id 145330 IJ00 RS15465 WP 035154387.1		0
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NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	TKVEHLFKILLQEELSSHSEEILLQEYREFVRDSLELLSRYSSSEQLEARLLQFNQSWDAYVEQHGDRDPLMPSHGLVSQLLQ	0
NTDB id 413 AAK55817.1 141..845()		0
NTDB id 374 SMU RS06885 WP 002262930.1		0
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NTDB id 145330 IJ00 RS15465 WP 035154387.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	LDVSELDDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEVLLDKPALLQSDYIFEIYQKAHQQLI	0
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	LDVSELDDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEVLLDKPALLQSDYIFEIYQKAHQQLI	425
NTDB id 145330 IJ00 RS15465 WP 035154387.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	QLFDALAAGQRVGVVKQHQSIILEELKLYTQYTPDISNDLPQQDSTSFEPINYITEPDMTSEDPN	6
NTDB id 413 AAK55817.1 141..845( )	.....	0
NTDB id 374 SMU RS06885 WP 002262930.1	.....	0
NTDB id 1046 HON27 RS03130 WP 168726941.1	QLFDALAAGQRVGVVKQHQSIILEELKLYTQYTPDISNDLPQQDSTSFEPINYIEPEPEVVATVENFSDSADWAVLGQSVQQDRQY	510
NTDB id 145330 IJ00 RS15465 WP 035154387.1	.....	0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	ISSTQVNRNFDADLLDIFLEEAEELLEGPTRIDNNWYEEENEDALTSIMRYL	31
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NTDB id 145330 IJ00 RS15465 WP 035154387.1		0
NTDB id 1417 SGL RS04200 WP 014407071.1		0
NTDB id 1047 HON27 RS03110 WP 000389061.1		0
consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1	QLVVTSDLIDFIRLVQDDLADRLQIMREQQLDYAAPYTINALKRAEQNSNIFELDYVLF5EETVLSQKYLS	60
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consensus		

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NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

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EPALAELETHHDQVFDTSVTELEPPVMTITVTSQENEYDSTFLEETELLEYREFELSSWLEQBNR
 PSSGEEDPPVRMTLDFNSPEAELD..... ALFTDEDAPTTAIDPFESSSWLEIDQMMEADPLA 118
 0
 0
 EPALAELETHHDQVFDTA VTELATPVEMITTVTSQENEVAANEQDIEAVVEQTFLEEATELLEMAESLLKQWFQRTNR..... 759
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 0
 0

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NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus
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SIPETNAPAYQTAGGLDDNDLAELQDLLGVGDVEPAITNPGLHSFAGADRVTPLTNEVLL.FA.....AIDDL DGLINAPVL 194
.....ILL.....QLQRAVHSLKGGARMVGLEAVQAIA YQLENAFEQFALHHFN SNIYDHLL 812

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NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus
```

DEEFLSWLTHLETLTLPKPSFETTLTLPKTPEDLFSSLEERALLEQADSSYMTFIRMGTERPPMPP	
DEEFLSWLTHLETLTLPKPSFETTLTLPKTPEDLFSSLEERALLEQADSSYMTFIRMGTERPPMPP	266
DEEFSF.....TELETLIDTPAPKSFATISHPFRLPVAMEEDEDKDLLEALLEQADSSLGGGIAGMGGARLPARP...R	0
.....	0
ESAIWLKDAIFNHNHYQHFDGLQQSLENIQF..FETTIQIPTKLTRA.DLFSS.EP.....VMTFIQGDGTEPPPMGAWEQ	885
.....	0
.....	0
.....	0

logo

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NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus
```

QYRPSNQYRVSAKCTENMSLTGENYRNRRIEDDEEISSTLYMNLQQLSDYLRVMSLEYETITLEGALLASRSTNSR	351
QVKSRSEFTMRVPIQLDNLSNLIGELVVKRNRLEQDQERLRQFLDNLLNQAQNLSDVGGRMQDLYERTLLEGALLASRSTNSR	0
.....	0
TERLDQNNEMIRVSADLIEKMIDLSGENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQI.....	956
.....	0
.....	0
.....	0

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NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
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NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus
```

HHSSKTTYPDARITAKSSSTSRDGLDELMDRFTGFHLLSQEMIELIVRVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTK 436
.....IAKHGIEHSRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESLLLQSRIQAEIQEGLMR 1029
.....

logo

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NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus
```

SRMVPFTQTADRLPRAIREVSMKLNKKVNLEVEGGDVLIDKMLEHLYNPMTHLVNNAITHGIIETPAERQKLGKSPEGHLAVRAF 521

 TRLVPFSRLLPRLQRIVRQTSTALNRPAELFVNNTEGELDRNILERLVTPLEHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQ 1114

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NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845( )
NTDB id 374 SMU RS06885 WP 002262930.1
NTDB id 1046 HON27 RS03130 WP 168726941.1
NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus
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EQGTSTYYTYSDDGSGIYEVVRQKAYLEKGLISRMEAEQLQSSYYSLTFHAGFSTKSLXSSLRGRGVGLDWWSTSTSTSTSGHYN
 LQGNQTLITVSDDGAGINTEMVKQKAVEKGLISRMEAQSLSQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVRTSLIDIRGAIN 606
 0
 0
 RQGTDVVVVFSDDGGIDVEKVRQKALLAGLIKPEQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVS 1197
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 0
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logo

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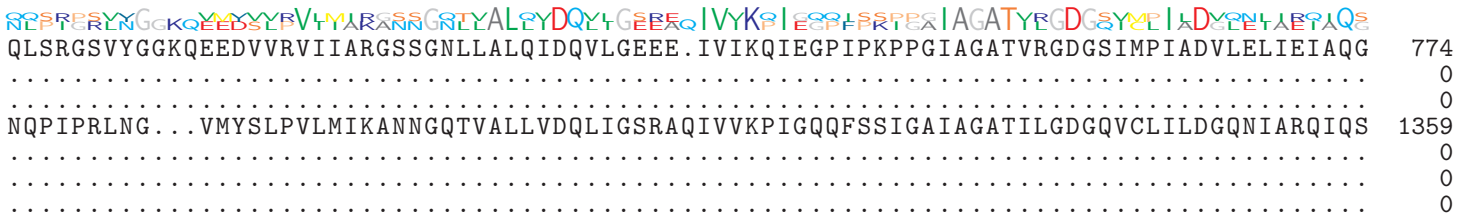
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NTDB id 413 AAK55817.1 141..845( )
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NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus

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YESYGRGTTFTIRYPITYSGBALWLYRBSBLAIPURSYBSTFVYIPKSTYDYFESQQLYLYEYEREAALLLKRYPLRYLSEFYR
 IESTVGKGTTFTRLPLTSLICKALCCLSDRRIAFPMDGVEDTRDYLPKDIVTD.EDGQKCVKYGKEALLLPYPLKDLLNYNR 690
 0
 0
 VESVYQGTTFTIRVPTTVAVSDALMVKVADQQFAIPLAQIDRIIRVSPASLEQYFESPQELFEYEN.....KRYPLRYLSEFVG 1277
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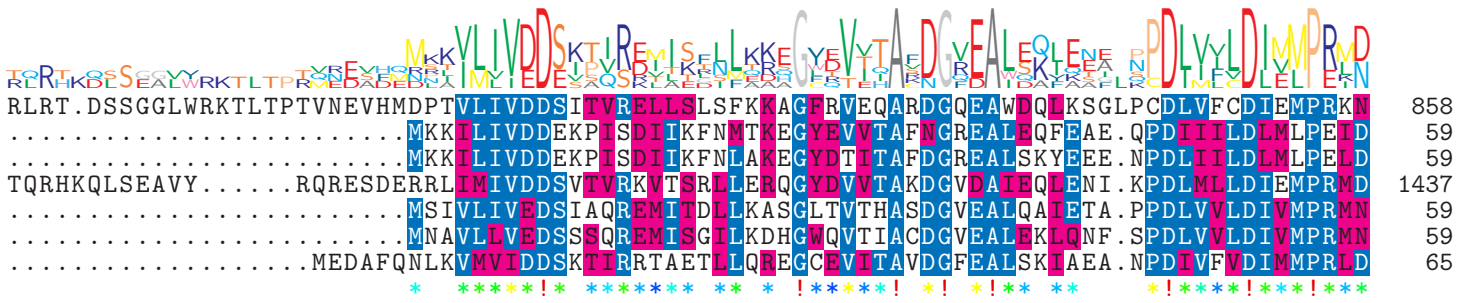
logo

NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845()
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NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus



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NTDB id 374 SMU RS06885 WP 002262930.1
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NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus



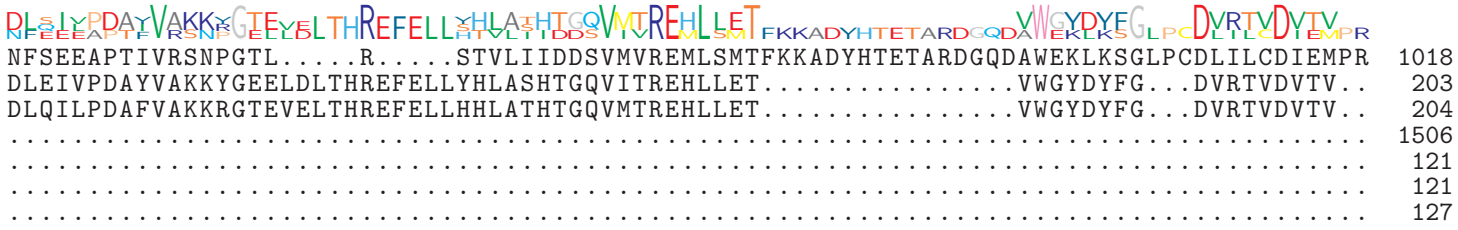
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NTDB id 413 AAK55817.1 141..845()
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NTDB id 145330 IJ00 RS15465 WP 035154387.1
NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus



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NTDB id 1419 SGL RS12550 WP 010873252.1
NTDB id 413 AAK55817.1 141..845()
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NTDB id 1046 HON27 RS03130 WP 168726941.1
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NTDB id 1417 SGL RS04200 WP 014407071.1
NTDB id 1047 HON27 RS03110 WP 000389061.1
consensus



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NTDB id 1419 SGL RS12550 WP 010873252.1	MNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAKGYFVKPYIEETLLEASQRLIRGEVLLDLAALSAD	1095
NTDB id 413 AAK55817.1 141..845()	...RRLREKIEDTPSR...PEYILT.....RRGVGYMRNNA*.....	234
NTDB id 374 SMU RS06885 WP 002262930.1	...RRLREKIEDTPSR...PEYILT.....RRGVGYMKSYD.....	235
NTDB id 1046 HON27 RS03130 WP 168726941.1	.....	1506
NTDB id 145330 IJ00 RS15465 WP 035154387.1	.....	121
NTDB id 1417 SGL RS04200 WP 014407071.1	.....	121
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	127
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved