

logo

	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVFDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	
NTDB id 413 AAK55817.1 141..845( )	.....	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	MKEILKTLTEAMTLPEDSYSEQDAEFLEIFIEEIEEIVFDLQPLINKWMQSENIATLTEIRRHFHRTLKGSGRMIGAKSSA	80
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDFNFKQKRAHTLDFRPLILLGQQLQQQSSLEPALEELLQLS	
NTDB id 413 AAK55817.1 141..845()	0
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NTDB id 1046 HON27 RS03130 WP 168726941.1	ELAWTVEDTLNLRVINQSLQLTPTIQSYVQLVFKFYFLKLVDFNFKQKRAHTLDFRPLILLGQQLQQQSSLEPALEELLQLS	160
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NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	
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NTDB id 1046 HON27 RS03130 WP 168726941.1	HTLMAETVTGLELDYIEQDSLAEPIIQATHTEIEINLDETTLTFMEEAEEHLATIHQFLDQELHQYDSYNALIRALHTLR	240
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NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVVRDSLELLSRYSSSEQLERLLQFNQSWDAYVEQ	
NTDB id 413 AAK55817.1 141..845()	0
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NTDB id 1046 HON27 RS03130 WP 168726941.1	GSSAMAQVETIFEASTKVEHLFKILLQEELSSHSEEILLQYREFVVRDSLELLSRYSSSEQLERLLQFNQSWDAYVEQ	320
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	HGDRTDPLMP SHGLV S QLLQLD V S ELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	
NTDB id 413 AAK55817.1 141..845( )	.....	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 QLLQLD V S ELLDAELDFEKGIRNEFPDYLERLSEQADLLLQHTHSQAMLGLHEYTSQLKESYEV	400
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NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYNI ^{MTS} EP	
NTDB id 413 AAK55817.1 141..845()	0
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NTDB id 1419 SGL RS12550 WP 010873252.1	3
NTDB id 1046 HON27 RS03130 WP 168726941.1	LLDKPALLQSDYIFEIYQKAHQQLIQLFDALAAGQRVGVVKQHQSI L EELKLYTQYTPDISNDLPQQDSTSFEP IYNI ^{MTS} EP	480
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	EPN ^{EPN} EWATVENFSDSADWAVLGGSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEGTAGAFET ^{FRDR} LN ^{NY} YE ^E EE ^{EN} EA ^{AL} TS ^{LM} LY	
NTDB id 413 AAK55817.1 141..845()	0
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NTDB id 1419 SGL RS12550 WP 010873252.1	DPN.....PAQAFENWFEEEEGDDAFTSLI	28
NTDB id 1046 HON27 RS03130 WP 168726941.1	EPEVVATVENFSDSADWAVLGGSVQQDRQYISSTQVNRNFDADLLDIFLEEAEELLEGTAGAFETLN ^{NY} YE ^E EE ^{EN} EA ^{AL} TS ^{LM} LY	560
NTDB id 1047 HON27 RS03110 WP 000389061.1	.....	0
NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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	R ^{YL} EH ^{TL} KG ^{AN} MV ^{QAT} YLGLIAHELES ^{IYER} LI ^{QKQL} V ^{VT} SD ^{LI} DF ^{IR} LV ^{QDDL} AD ^R L ^{QIM} RE ^{QQLD} YA ^{APYT} I ^{NALK} KRA	
NTDB id 413 AAK55817.1 141..845( )	.....	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	R ^{YL} EH ^{TL} KG ^{AN} MV ^{QAT} YLGLIAHELES ^{IYER} LI ^{QKQL} V ^{VT} SD ^{LI} DF ^{IR} LV ^{QDDL} AD ^R L ^{QIM} RE ^{QQLD} YA ^{APYT} I ^{NALK} KRA	640
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NTDB id 35875 LEPT07376 RS13010 WP 015134635.1	0
NTDB id 1417 SGL RS04200 WP 014407071.1	0
consensus		

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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 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

EQNSNFEELBYBBAFBAEPEVFSSEKYLSEIITIDEIPVELEPALAELETHHDQVFDTSYSEERFPVEMITLDFNSPEAEYR

 ETNSGIEELDFGDLFEGETPTVIQEGGFGS.....PSSGEEDPPVVRMTLDFNSPEAEELD
 GQNSNFQPLPVVEAFDAESEVFSEQKVISEIIDEIPVELEPALAELETHHDQVFDTAVTELATPVEMITTVTSQENEVA

0
0
84
720
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 NTDB id 1046 HON27 RS03130 WP 168726941.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

ANEQDI EAVVEALFTB ERTETTEMRELSSSWLEPSTNR

ALFTDEDAPTTAIDPFESSSWLEIDQMMEADPLASIPETNAPAYQTAGGLDDNDLAE LQDLLGVGDVEP
 ANEQDIEAVVEQTFLEEATELLEMAESLLKQWFEQRTNR.....S.....IL.....

0
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153
762
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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 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

KPTLRSALYHSKGRMYELINXYLTYR

 AITNPGLHSFAGADRVPTLTNEVLL.FA.....AIDDLGLINAPVLDEEFSF.....TELETLIDTPAPKS
 LQLQRAVHSLKGGARMVGLEAVQAIAYQLENAFEQFALHFNNSNIYDHLLESAIAWLKDAIFNHNYQHFDGLQQSLENIQ

0
0
214
842
0
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logo

NTDB id 413 AAK55817.1 141..845()
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 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 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

FATFETTLSTPYKMYERDFSSER

 FATISHPFRLPVAMEEDEDKDLALLEQADSSLYGCFAGDGCAPLPAWEAWEQERLDQFEEMRVSAKQLEHNSNLS
 F..FETTIQIPTKLTRA.DLFSS.EP.....VMTFIQGDGTEPPPMGAWEQTERLDQNNEMIRVSADLIEKMIDLS

0
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291
910
0
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logo

NTDB id 413 AAK55817.1 141..845()
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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

GENYYRKRRIEEDDEEHSFIFLYMELNAAQLSDYLRVMEDEYERITLEGALLASRSTNSRHHSSKTTYPDARIAKPSSEH

 GELVVKRNRLAQDQERLRQFLDNLLNQAQNLSDVGGRMQDLYERTLLEGALLASRSTNSRHHSSKTTYPDARITASSSST 371
 GENSINRSRIEMDLSQFSHTLVEMELAIQRLADQLRRMEGELETQI.....IAKHGIEH 964

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logo

NTDB id 413 AAK55817.1 141..845()
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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

SRVCEFDLEMDSYSTSHQLSRMVAEAYBYKDFKSDTQYKYBETESYLRQSRBYLLETQEGMTRSRVVPFISBLERLPR

 MNDQPLDALEMDRFTGFHLLSQEMIELIVRVRESASDIQYLVDETDQVARTLRQVTTQLQEGMTKSRMVPFTQTADRLPR 451
 SRYTDFDPLEMDQYSSLNQLSKSLAESASDLVDFKNTLSDKIRDTESSLLQSSRIQAEIQEGLMRTRLVPPFSRLLPRLQR 1044

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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

AYREYSKLNREXPLEVNTTBYLDRMILERLVTPYEHLYNAIIGHGTEFAERQRANKSEEGRTLYRAPEQGTBYLYYF

 AIREVSMKLNKKVNLEVEGGDVLIDKMILEHLYNPMTHLVNNAITHGIETPAERQKLGKSPEGHLAVRAFLQGNQTLITV 531
 IVRQTSTALNRPAELFVNNTTEGELDRNILERLVTPLEHMLRNAIDHGLEDRAQRQQANKPETGRIELNIQRGGTDVVVVV 1124

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logo

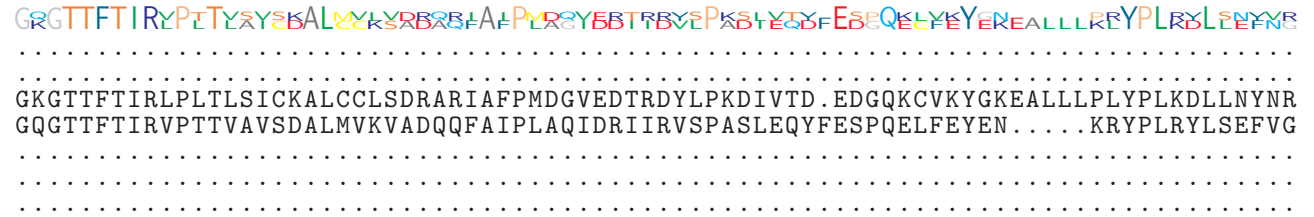
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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

SDDGAGINTEMVKQKAVEKGLISRMEAQSLSQSEVYDLLFHAGFSTKDTADDFAGRGVGLDVVVRTSLIDIRGAINIESTV 611
 SDDGQGIDVEKVRQKALLAGLIKPEEQDLEQQDILQLIFHPGLSTAEQVTQISGRGVGLDVVQSDIKSLGGHVSVESVY 1202

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logo

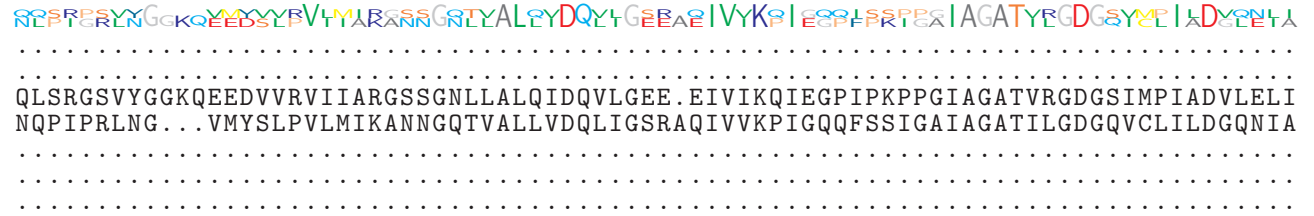
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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



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690
1277
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logo

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 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



0
0
769
1354
0
0
0

logo

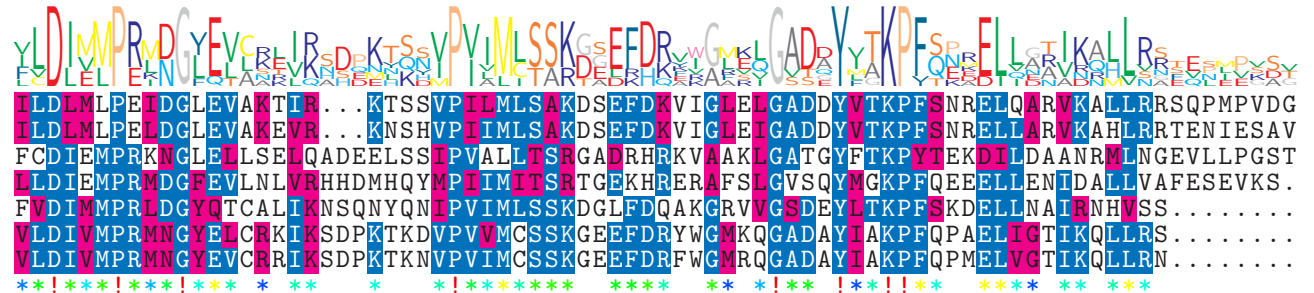
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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



49
848
1427
55
49
49

logo

NTDB id 413 AAK55817.1 141..845()
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 NTDB id 1046 HON27 RS03130 WP 168726941.1
 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus



126
126
928
1506
127
121
121

logo

NTDB id 413 AAK55817.1 141..845()
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 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 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

Q.EADSKPQ.PIQIGDLEIVPDAYVAKKYGEELDLTHREFELLYHLASHTGQVITREHLLLETVWGYDYFG..... 194
 AEENASGIP.EIIIGDLQILPDAFVAKKRGTEVELTHREFELLHHLATHTGQVMTREHLLLETVWGYDYFG..... 195
 RKTNSILSRFKKARGNFSEEAPTIVRSNPGTL.....R.....STVLIIDDSVMVREMLSMTFKKADYHTETARDGQDAW 998
 1506
 127
 121
 121

<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 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

.....DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMRNNA*..... 234
DVRTVDVTV.....RRLREKIEDTPSR...PEYILT.....RRGVGYMKSVD..... 235
 EKLKSGLPCLLILCDIEMPRMNGLELLERIQEDPNLSRIPVAMITSRGAQKMQRMAAEKGAQYFVKPYIEETLLEASQR 1078
 1506
 127
 121
 121

logo

NTDB id 413 AAK55817.1 141..845()
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 NTDB id 1047 HON27 RS03110 WP 000389061.1
 NTDB id 35875 LEPT07376 RS13010 WP 015134635.1
 NTDB id 1417 SGL RS04200 WP 014407071.1
 consensus

..... 234
 235
 LIRGEVLLDLAALSAD 1095
 1506
 127
 121
 121

- non conserved
- similar
- ≥ 50% conserved