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NTDB id 52239 LLC RS05730 WP 011675568.1
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
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NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

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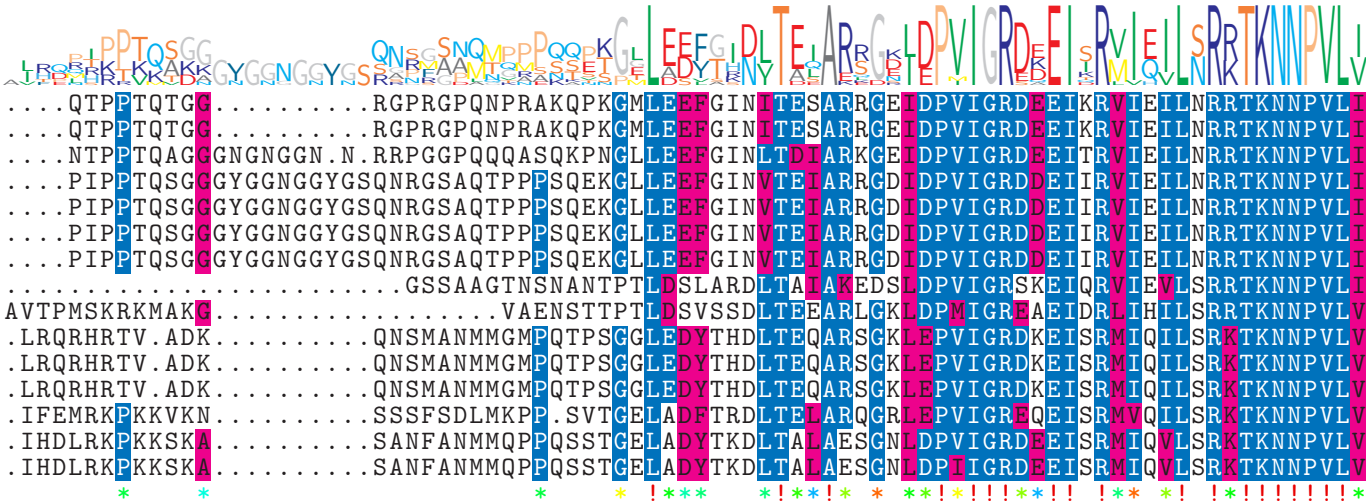
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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

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Sequence	Score
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HL YTSVNG Q K K Q I D L C Q N C Y Q . . . I M K S G G E A L F G A G N A S N G N S D E P F N P . F N D I F S A L Q G Q . D F N G A A S N .	80
HL YTSVNG Q K K Q I D L C Q N C Y Q . . . I M K S G G E A L F G A G N A S N G N S D E P F N P . F N D I F S A L Q G Q . D F N G A A S N .	80
HL YTSVNG Q K K Q I D L C Q N C Y Q . . . I M K T D P N G P L N H L S Q Q N S S S I M P F F D D F G D L N N F R A F N N Q D L P .	79
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HL YTSVNG Q K K Q I D L C Q N C Y Q . . . I M K T D P N N S L F K G M T D L N N R D F D P . F G D F F N D L N N F R P S S N . . T P .	76
HL YTSVNG Q K K Q I D L C Q N C Y Q . . . I M K T D P N N S L F K G M T D L N N R D F D P . F G D F F N D L N N F R P S S N . . T P .	76
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ST L R F S P R A E E V M T A A S F L A I H N N S E A V G T E H L L Y A L L Q V E D G F G L Q L L K L Q K I N I V S I R K E L E K R T G L K V P E S K K	153
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D L R A Q S P A L E A M L Q E A Q E I A S V T G A V E V G S E H V L M A F L L H K D L M V C R L L E V A G F Q Y K D D S D K P R I I D L R R S L E R N A G L S K Q D L K A	166
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NTDB id 329 STU RS10020 WP 011225298.1
consensus



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NTDB id	377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAELVLFDDDESALIRFDMSEYMEKFAASRLNGAPPGYVGVEEGGELTEKVRNKPYSVLLFDEVEKAHPDIFNVLL	638
NTDB id	297 STER RS00545 WP 011680614.1	TGVGKTELAKALAELVLFDDDESALIRFDMSEYMEKFAASRLNGAPPGYVGVEEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLL	641
NTDB id	329 STU RS10020 WP 011225298.1	TGVGKTELAKALAELVLFDDDESALIRFDMSEYMEKFAASRLNGAPPGYVGVEEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLL	641
consensus		!!!!!!** !! *!* ** *!*****!*** *!* *****! !!!!!!!!!* !!!!!!!!!*	

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NTDB	id	52239	LLC	RS05730	WP	011675568.1	Q	I	L	E	D	G	R	L	T	D	A	Q	G	R	T	V	S	F	K	D	S	L	I	I	M	T	S	N	A	G	T	G	K	.	.	V	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	K	S	V	L	G	Q	L	G	D	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	S	A	L	S	K		645																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	601	KW2	RS02615	WP	021036805.1	Q	I	L	E	D	G	R	L	T	D	A	Q	G	R	T	V	S	F	K	D	S	L	I	I	M	T	S	N	A	G	T	G	K	.	.	V	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	K	S	V	L	G	Q	L	G	D	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	S	A	L	S	K		645																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	378	SMU	RS02690	WP	002263569.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	T	I	I	I	M	T	S	N	A	G	T	G	K	.	.	S	E	A	N	V	G	F	G	A	S	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	Q	A	L	S	K		652																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	281	KZH43	RS03550	WP	000882517.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	I	M	T	S	N	A	G	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K		651																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	245	SPD	RS03860	WP	000882517.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	I	M	T	S	N	A	G	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K		651																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	243	SPR	RS03635	WP	000882517.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	I	M	T	S	N	A	G	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K		651																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	241	SP	RS04015	WP	000882523.1	Q	V	L	D	D	G	R	L	T	D	G	Q	G	R	T	V	S	F	K	D	A	I	I	I	M	T	S	N	A	G	T	G	K	.	.	T	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	N	S	V	L	G	E	L	G	N	F	F	S	P	E	F	M	N	R	F	D	G	I	E	F	K	A	L	S	K		651																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	85	BSU	00860	NP	387967.1	Q	V	L	E	D	G	R	L	T	D	S	K	G	R	T	V	D	F	R	N	T	I	I	I	M	T	S	N	V	G	A	S	E	L	K	R	N	K	Y	V	G	F	N	V	Q	D	E	T	Q	N	H	K	D	M	K	D	K	V	M	E	L	K	R	A	F	R	P	E	F	I	N	R	I	D	E	I	I	V	F	H	S	L	E	K		716																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	610	V4T04	RS10165	WP	012897346.1	Q	I	L	D	D	G	F	V	T	D	T	K	R	K	V	D	F	R	N	T	I	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	N	I	T	A	D	S	A	M	K	S	R	I	E	E	L	K	R	H	R	Y	R	P	E	F	L	N	R	I	D	E	N	I	V	F	H	S	L	E	K		725																																																																																																																																																																																																																																																																																																																																																																							
NTDB	id	290	KZH43	RS10025	WP	001109677.1	Q	V	L	D	D	G	V	L	T	D	S	K	G	R	K	V	D	F	S	N	T	I	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	D	I	R	F	D	Q	E	N	M	E	K	R	M	F	E	E	L	K	K	A	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	S		720																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	289	SPD	RS10700	WP	001109677.1	Q	V	L	D	D	G	V	L	T	D	S	K	G	R	K	V	D	F	S	N	T	I	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	D	I	R	F	D	Q	E	N	M	E	K	R	M	F	E	E	L	K	K	A	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	S		720																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	287	SP	RS11210	WP	001109712.1	Q	V	L	D	D	G	V	L	T	D	S	K	G	R	K	V	D	F	S	N	T	I	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	D	I	R	F	D	Q	E	N	M	E	K	R	M	F	E	E	L	K	K	A	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	S		720																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	377	SMU	RS09275	WP	002262344.1	Q	V	L	D	D	G	V	L	T	D	S	R	G	R	K	V	D	F	S	N	T	I	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	K	S	F	S	Q	D	Y	K	A	M	E	S	R	I	E	E	L	K	K	V	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	N	L	G	Q		723																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	297	STER	RS00545	WP	011680614.1	Q	V	L	D	D	G	V	L	T	D	S	R	G	R	K	V	D	F	S	N	T	I	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	Q	T	I	S	H	N	H	Q	A	M	Q	A	R	I	M	E	E	L	K	K	S	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	E		726																																																																																																																																																																																																																																																																																																																																																																						
NTDB	id	329	STU	RS10020	WP	011225298.1	Q	V	L	D	D	G	V	L	T	D	S	R	G	R	K	V	D	F	S	N	T	I	I	I	M	T	S	N	L	G	A	T	A	L	R	D	D	K	T	V	G	F	G	A	Q	T	I	S	H	N	H	Q	A	M	Q	A	R	I	M	E	E	L	K	K	S	Y	R	P	E	F	I	N	R	I	D	E	K	V	V	F	H	S	L	E		726																																																																																																																																																																																																																																																																																																																																																																						
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NTDB id 52239 LLC RS05730 WP 011675568.1	ENLLKIVDLMLDEVNEQIGRNDIHLSTVQAAKEKLVLDLGYNPAMGARPLRRTIQENIEDSIADFYEHPYKQLVADLIDDKIV	729
NTDB id 601 KW2 RS02615 WP 021036805.1	ENLLKIVDLMLDEVNEQIGRNDIHLSTVQAAKEKLVLDLGYNPAMGARPLRRTIQENIEDSIADFYEHPYKQLVADLIDDKIV	729
NTDB id 378 SMU RS02690 WP 002263569.1	DNLLQIVSLMLDDVNRQLAVNAIHLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQEHIEDIAITDFYLEHPEQKELKAIMTSNGKI	736
NTDB id 281 KZH43 RS03550 WP 000882517.1	DNLLQIVELMLADVNRKLSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYLENPSEKDLKAVMTSGKNI	735
NTDB id 245 SPD RS03860 WP 000882517.1	DNLLQIVELMLADVNRKLSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYLENPSEKDLKAVMTSGKNI	735
NTDB id 243 SPR RS03635 WP 000882517.1	DNLLQIVELMLADVNRKLSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYLENPSEKDLKAVMTSGKNI	735
NTDB id 241 SP RS04015 WP 000882523.1	DNLLQIVELMLADVNRKLSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYLENPSEKDLKAVMTSGKNI	735
NTDB id 85 BSU 00860 NP 387967.1	KHLTEIVSLMSDQTLKRLKEQDLSIELTDAAKAKVAEEGVLDLEYGARPLRRAIQKHVEDRLSEELLRGNHKGQHIVLDDVEDGEF	801
NTDB id 610 V4T04 RS10165 WP 012897346.1	QETEEIVKIMSKSLIKRLAEQDIHVKLTPSAVKLIAEVGDFPEYGARPLRLAQKEVEDLSEQLLSGEIKAGNHVSIGASNKTI	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	DHMQEVVKIMVKPLVASLAEKGIIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQL	805
NTDB id 289 SPD RS10700 WP 001109677.1	DHMQEVVKIMVKPLVASLAEKGIIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQL	805
NTDB id 287 SP RS11210 WP 001109712.1	DHMQEVVKIMVKPLVASLTEKGIIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQL	805
NTDB id 377 SMU RS09275 WP 002262344.1	EDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHLALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKL	808
NTDB id 297 STER RS00545 WP 011680614.1	EQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLESELLGGQVVGQTLLIGCSKDKL	811
NTDB id 329 STU RS10020 WP 011225298.1	EQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLESELLGGQVVGQTLLIGCSKDKL	811
consensus	*** *! *! * *	*** * * * * *

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NTDB id 52239 LLC RS05730 WP 011675568.1	ISNQTQETAETTDEEVP	748
NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDEEVP	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		

- non conserved
- similar
- ≥ 50% conserved