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NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....	TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNINEA.....	TI	13
NTDB id 241 SP RS04015 WP 000882523.1	MLCQNCNINDS.....	TI	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	MLCQNCNINDS.....	TI	13
NTDB id 245 SPD RS03860 WP 000882517.1	MLCQNCNINDS.....	TI	13
NTDB id 243 SPR RS03635 WP 000882517.1	MLCQNCNINDS.....	TI	13
NTDB id 86735 K6J89 RS00575 WP 003235011.1	..MMFGRFTERAQKVLALAQEEALRLGHNNGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS		75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS		75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAE EYAHQYQYGTIESAHLAAMATTSGSTAYSLLAGMNVDDSSDLLIDL.....EDLSSHVKVKR		77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	F	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	F	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	F	75
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..DI	I	79
NTDB id 379 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	I	81
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	I	81
consensus	*** * * * * *		

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NTDB	id	378	SMU	RS02690	WP	002263569.1	HL	YANVNC	QKKQ	ID	LCQNCYQ	I	...	M	K	T	D	P	E	N	G	P	L	N	H	.	S	Q	N	S	S	.	...	...	I	N	P	F	F	D	.	D	F	F	G	D	.	L	N	N	F	R	.	A	F	N	N	Q	D	L	P	.	79																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB	id	241	SP	RS04015	WP	000882523.1	HL	YTNLNG	KKKQ	ID	LCQNCYK	I	...	I	K	T	D	P	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HL	YTNLNG	KKKQ	ID	LCQNCYK	I	...	I	K	T	D	P	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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NTDB	id	86735	K6J89	RS00575	WP	003235011.1	Q	T	I	H	Y	T	P	R	A	K	K	V	I	E	L	S	M	D	E	A	R	K	L	G	H	S	Y	V	G	T	E	H	I	L	L	G	L	I	R	E	G	E	G	V	A	A	R	V	.	L	N	N	L	G	V	S	L	N	K	A	R	Q	Q	V	L	Q	L	.	...	...	L	G	S	N	E	T	.	...	147																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB	id	85	BSU	00860	NP	387967.1	Q	T	I	H	Y	T	P	R	A	K	K	V	I	E	L	S	M	D	E	A	R	K	L	G	H	S	Y	V	G	T	E	H	I	L	L	G	L	I	R	E	G	E	G	V	A	A	R	V	.	L	N	N	L	G	V	S	L	N	K	A	R	Q	Q	V	L	Q	L	.	...	...	L	G	S	N	E	T	.	...	147																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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NTDB	id	290	KZH43	RS10025	WP	001109677.1	T	E	L	P	F	S	R	R	L	Q	I	L	F	.	D	E	A	E	Y	V	A	S	.	V	V	H	A	K	V	L	G	T	E	H	V	L	Y	A	I	L	H	D	.	S	N	A	L	A	T	R	.	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	.	L	E	E	R	A	G	W	T	R	E	D	L	K	A	.	160																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB	id	289	SPD	RS10700	WP	001109677.1	T	E	L	P	F	S	R	R	L	Q	I	L	F	.	D	E	A	E	Y	V	A	S	.	V	V	H	A	K	V	L	G	T	E	H	V	L	Y	A	I	L	H	D	.	S	N	A	L	A	T	R	.	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L	R	R	N	.	L	E	E	R	A	G	W	T	R	E	D	L	K	A	.	160																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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NTDB	id	377	SMU	RS09275	WP	002262344.1	M	L	L	E	Q	S	H	A	L	K	R	T	.	L	A	E	A	A	A	I	S	Q	V	T	H	A	K	E	V	G	T	E	H	V	L	F	A	M	L	L	N	P	.	M	L	A	T	R	.	L	E	L	V	G	F	H	A	K	D	D	G	E	S	I	R	L	D	.	L	R	K	V	.	T	E	R	Y	A	G	F	S	K	E	D	I	K	A	.	164																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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NTDB	id	297	STU	RS10020	WP	011225298.1	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	D	.	L	R	R	S	.	L	E	R	N	A	G	L	S	K	Q	D	L	K	A	.	166																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
consensus							*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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NTDB id 601 KW2 RS02615 WP 021036805.1
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consensus

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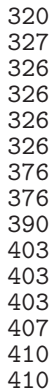
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NTDB id 329 STU RS10020 WP 011225298.1
consensus

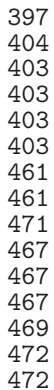
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NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

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consensus	*	*****	* ****	*****

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NTDB id 601 KW2 RS02615 WP 021036805.1	TGVGKTELAKALAEVLF	FGDESSMIRFDMSEYMEKHSVSR	LVGAPPGYVGYDEGGQTEKVRNKPYSV	LLFDEVEKAHPDVFNIM	567
NTDB id 378 SMU RS02690 WP 002263569.1	TGVGKTELAKALAEVLF	FGDESSMIRFDMSEYMEKHAVAKLVG	APPGYVGYDEAGQLTEKVRNKPYSV	LLFDEVEKAHPDVMMHFL	574
NTDB id 241 SP RS04015 WP 000882523.1	TGVGKTELAKALAEVLF	FGDESSMIRFDMSEYMEKHAVAKLVG	APPGYVGYDEAGQLTEKVRNKPYSV	LLFDEVEKAHPDVMMHFL	573
NTDB id 281 KZH43 RS03550 WP 000882517.1	TGVGKTELAKALAEVLF	FGDESSMIRFDMSEYMEKHAVAKLVG	APPGYVGYDEAGQLTEKVRNKPYSV	LLFDEVEKAHPDVMMHFL	573
NTDB id 245 SPD RS03860 WP 000882517.1	TGVGKTELAKALAEVLF	FGDESSMIRFDMSEYMEKHAVAKLVG	APPGYVGYDEAGQLTEKVRNKPYSV	LLFDEVEKAHPDVMMHFL	573
NTDB id 243 SPR RS03635 WP 000882517.1	TGVGKTELAKALAEVLF	FGDESSMIRFDMSEYMEKHAVAKLVG	APPGYVGYDEAGQLTEKVRNKPYSV	LLFDEVEKAHPDVMMHFL	573
NTDB id 86735 K6J89 RS00575 WP 003235011.1	TGVGKTELAKALAEVLF	FGDESSMIRIDMSEYMEKHSTSR	LVGSPPGYVGYDEGGQLTEKVRNKPYSV	LLFDEVEKAHPDVFNILL	631
NTDB id 85 BSU 00860 NP 387967.1	TGVGKTELAKALAEVLF	FGDESSMIRIDMSEYMEKHSTSR	LVGSPPGYVGYDEGGQLTEKVRNKPYSV	LLFDEVEKAHPDVFNILL	631
NTDB id 610 V4T04 RS10165 WP 012897346.1	TGVGKTELAKALAEVLF	FGDESSMIRVDMSEFMEKHSTSR	LVGAPPGYVGYDEGGQLTEKVRNKPYSV	LLFDEVEKAHPDVFNIML	640
NTDB id 290 KZH43 RS10025 WP 001109677.1	TGVGKTELAKALAEVLF	DDDESALIRFDMSEYMEKFAASRL	NGAPPGYVGYDEGGELTEKVRNKPYSV	LLFDEVEKAHPDIFNVLL	635
NTDB id 289 SPD RS10700 WP 001109677.1	TGVGKTELAKALAEVLF	DDDESALIRFDMSEYMEKFAASRL	NGAPPGYVGYDEGGELTEKVRNKPYSV	LLFDEVEKAHPDIFNVLL	635
NTDB id 287 SP RS11210 WP 001109712.1	TGVGKTELAKALAEVLF	DDDESALIRFDMSEYMEKFAASRL	NGAPPGYVGYDEGGELTEKVRNKPYSV	LLFDEVEKAHPDIFNVLL	635
NTDB id 377 SMU RS09275 WP 002262344.1	TGVGKTELAKALAEVLF	DDDESALIRFDMSEYMEKFAASRL	NGAPPGYVGYDEGGELTEKVRNKPYSV	LLFDEVEKAHPDIFNVLL	638
NTDB id 297 STER RS00545 WP 011680614.1	TGVGKTELAKALAEVLF	DDDESALIRFDMSEYMEKFAASRL	NGAPPGYVGYDEGGELTEKVRNKPYSV	LLFDEVEKAHPDIFNVLL	641
NTDB id 329 STU RS10020 WP 011225298.1	TGVGKTELAKALAEVLF	DDDESALIRFDMSEYMEKFAASRL	NGAPPGYVGYDEGGELTEKVRNKPYSV	LLFDEVEKAHPDIFNVLL	641
consensus	!!!!!!	*****	* **	***	*****

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
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 86735 K6J89 RS00575 WP 003235011.1	VVKTTAKTN.....	810
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