

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 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 20748 L RS03440 WP 010905472.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLILAAMATTSGSIAYSLLAGMNVDSDDLIDL.....EDLSSHVKVKR	77
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLILAAMATTSGSIAYSLLAGMNVDSDDLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 01109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETTF	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETTF	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDETTF	75
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 297 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AAVLAMEKRPKDLSESDII	81
NTDB id 329 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AAVLAMEKRPKDLSESDII	81
consensus	*** * *	**

NTDB	id	601	KW2	RS02615	WP	021036805.1	HL	YTSVNG	QKKQ	ID	LCQNCYQ	I	...	MKS	G	G	EAL	L	F	C	A	G	N	S	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																													
NTDB	id	378	SMU	RS02690	WP	002263569.1	HL	YANVNG	QKKQ	ID	LCQNCYQ	I	...	M	K	T	D	P	E	N	G	P	L	N	H	L	S	Q	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	YT	NL	N	G	K	Q	K	Q	I	D	L	C	Q	N	C	Y	K	I	...	I	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													
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HL	YT	NL	N	G	K	Q	K	Q	I	D	L	C	Q	N	C	Y	K	I	...	I	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													
NTDB	id	245	SPD	RS03860	WP	000882517.1	HL	YT	NL	N	G	K	Q	K	Q	I	D	L	C	Q	N	C	Y	K	I	...	I	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													
NTDB	id	243	SPR	RS03635	WP	000882517.1	HL	YT	NL	N	G	K	Q	K	Q	I	D	L	C	Q	N	C	Y	K	I	...	I	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													
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	V	A	A	R	V	I	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	20748	L	RS03440	WP	010905472.1	S	T	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	L	R	K	E	L	E	K	R	T	G	L	K	V	P	E	S	K	K	.	153
NTDB	id	610	V4T04	RS10165	WP	012897346.1	S	T	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	L	R	K	E	L	E	K	R	T	G	L	K	V	P	E	S	K	K	.	153
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	G	N	A	L	A	T	R	I	L	E	R	A	G	F	S	Y	E	D	K	K	D	Q	V	K	I	A	A	L											

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NTDB id 601 KW2 RS02615 WP 021036805.1	QTPPTQTGG.....RGPRGPQNPRAKQPKGMLLEFGINITESARRGEIDPVIGRDDEIKRVIEILNRRTKNNPVL	151
NTDB id 378 SMU RS02690 WP 002263569.1	NTPPTQAGCGNGNGGN.N.RRPGGPQQQASQKPNGLLEFGINLTDIARKGEIDPVIGRDDEITRVIEILNRRTKNNPVL	158
NTDB id 241 SP RS04015 WP 000882523.1	PIPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLLEFGINVTETIARRGDI DPVIGRDDEIIRVIEILNRRTKNNPVL	157
NTDB id 281 KZH43 RS03550 WP 000882517.1	PIPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLLEFGINVTETIARRGDI DPVIGRDDEIIRVIEILNRRTKNNPVL	157
NTDB id 245 SPD RS03860 WP 000882517.1	PIPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLLEFGINVTETIARRGDI DPVIGRDDEIIRVIEILNRRTKNNPVL	157
NTDB id 243 SPR RS03635 WP 000882517.1	PIPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLLEFGINVTETIARRGDI DPVIGRDDEIIRVIEILNRRTKNNPVL	157
NTDB id 85 BSU 00860 NP 387967.1	GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRVIEVLSRRTKNNPVL	207
NTDB id 20748 L RS03440 WP 010905472.1	AVTPMSKRKMAKG.....VAENSTTPTLDSVSSDLTEEARLGKLDPMIGRAEIDRLIHILSRRTKNNPVL	220
NTDB id 610 V4T04 RS10165 WP 012897346.1	AVTPMSKRKMAKG.....VAENSTTPTLDSVSSDLTEEARLGKLDPMIGRAEIDRLIHILSRRTKNNPVL	220
NTDB id 290 KZH43 RS10025 WP 001109677.1	.LRQRHRTV.ADK.....QNSMANMMGMPTTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQLSRKTKNNPVL	233
NTDB id 289 SPD RS10700 WP 001109677.1	.LRQRHRTV.ADK.....QNSMANMMGMPTTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQLSRKTKNNPVL	233
NTDB id 287 SP RS11210 WP 001109712.1	.LRQRHRTV.ADK.....QNSMANMMGMPTTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQLSRKTKNNPVL	233
NTDB id 377 SMU RS09275 WP 002262344.1	.IFEMRKPKKVKN.....SSSFSDLMKPP.SVTGELADFTRLDELARQGRLPEVIGREQEISRMVQILSRKTKNNPVL	237
NTDB id 297 STER RS00545 WP 011680614.1	.IHDLRKPKKSKA.....SANFANMMQPPQSSITGELADYTKDLTALAESGNLDPVIGRDEEISRMIIQLSRKTKNNPVL	240
NTDB id 329 STU RS10020 WP 011225298.1	.IHDLRKPKKSKA.....SANFANMMQPPQSSITGELADYTKDLTALAESGNLDPVIGRDEEISRMIIQLSRKTKNNPVL	240
consensus	* * ** * !*** **!*!*!* * **!*!!!!* !! !** *!*****!	

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NTDB id 601 KW2 RS02615 WP 021036805.1	GEPGVGKTAIVVEGLAQKIVDGDVPQKILQNKEVIRLDVVSILVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEITHEIVGAGSAGD	236
NTDB id 378 SMU RS02690 WP 002263569.1	GEPGVGKTAIVVEGLAQKIVDGDVPQKILHGKNVIRLDVVSILVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEITHEIVGAGSAGD	243
NTDB id 241 SP RS04015 WP 000882523.1	GEPGVGKTAIVVEGLAQKIVDGDVPHKLQGGKQVIRLDVVSILVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEITHEIVGAGSAGD	242
NTDB id 281 KZH43 RS03550 WP 000882517.1	GEPGVGKTAIVVEGLAQKIVDGDVPHKLQGGKQVIRLDVVSILVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEITHEIVGAGSAGD	242
NTDB id 245 SPD RS03860 WP 000882517.1	GEPGVGKTAIVVEGLAQKIVDGDVPHKLQGGKQVIRLDVVSILVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEITHEIVGAGSAGD	242
NTDB id 243 SPR RS03635 WP 000882517.1	GEPGVGKTAIVVEGLAQKIVDGDVPHKLQGGKQVIRLDVVSILVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEITHEIVGAGSAGD	242
NTDB id 85 BSU 00860 NP 387967.1	GEPGVGKTAIAEGLAQKQIINNEVPEILRDKRVMITLDMGTIVVAGTKYRGEFEDRLKKVMDIEIRQAGNIILFIDELHTLIGAGG.AE	291
NTDB id 20748 L RS03440 WP 010905472.1	GEPGVGKSATIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDPDVIIFIDELHTIIGAGGGMD	305
NTDB id 610 V4T04 RS10165 WP 012897346.1	GEPGVGKSATIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDPDVIIFIDELHTIIGAGGGMD	305
NTDB id 290 KZH43 RS10025 WP 001109677.1	GDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMSGSGID	318
NTDB id 289 SPD RS10700 WP 001109677.1	GDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMSGSGID	318
NTDB id 287 SP RS11210 WP 001109712.1	GDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQVILFIDELHTIMSGSGID	318
NTDB id 377 SMU RS09275 WP 002262344.1	GDAGVGKTALAYGLAQRIIVDSAVPFELADMKVLELDMMSSVAGTRFRGDFEERMNNIIEADIEADGHIVLFIDELHTIMSGSGID	322
NTDB id 297 STER RS00545 WP 011680614.1	GEAGVGKTALALGLAQRIASGEVPFELADMRIEELDDMMSSVAGTRFRGDFEERMNNIIEADIEADGKIILFIDELHTIIGSGSGID	325
NTDB id 329 STU RS10020 WP 011225298.1	GEAGVGKTALALGLAQRIASGEVPFELADMRIEELDDMMSSVAGTRFRGDFEERMNNIIEADIEADGKIILFIDELHTIIGSGSGID	325
consensus	!*****!* *!!!!!* *!!!! * ** !*****!*****!*****!*****!*****!*****!*****!*****!	

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVP	AE	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 85 BSU 00860 NP 387967.1	VVKTTAKTN.....		810
NTDB id 20748 L RS03440 WP 010905472.1	KIAQIV.....		816
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