

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 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEYEAHQYQYGTIESAHLAAMATTSGSIAYSLLAGMNVDDSDLLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLSESDII	81
NTDB id 329 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDLSESDII	81
consensus	*** * *	**

NTDB id	601	KW2	RS02615	WP	021036805.1	HLYTSVNGQKKQIDLCQNCYQ...IMKSGGQALFGAGNASNGNSDEP.....FNP.FNDIFSAIQQG.DFNGAASN..	80				
NTDB id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQ...IMKTDPENGPLNHLSSQNSSS.....INPFDDFFGDLLNNFRAFNNQDLP.	79				
NTDB id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDDLNNFRPSSN..TP.	76				
NTDB id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDDLNNFRPSSN..TP.	76				
NTDB id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDDLNNFRPSSN..TP.	76				
NTDB id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDFFNDDLNNFRPSSN..TP.	76				
NTDB id	85	BSU	00860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LGSNET....	147				
NTDB id	610	V4T04	RS10165	WP	012897346.1	STLRFSPRAEVMTAASFLAIHNNEAVGTEHLYALLQVEDGFGLQLKL.....QKINIVSLRKLEKTRGLKVPESKK	153				
NTDB id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160				
NTDB id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160				
NTDB id	287	SP	RS11210	WP	001109712.1	TELPFSRRLLQILFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160				
NTDB id	377	SMU	RS09275	WP	002262344.1	MILEQSHALKRTLAEEAAAISQVTHAKEVGTEHVLFAMLLNPNLLATRIILELVGFHAKDDGESIRLLDLRKVTIERYAGFSKEDIKA	164				
NTDB id	297	STER	RS00545	WP	011680614.1	DLRAQSPALEAMLQEAEIASVTGAVEVGESEHVLMFAFLHKDLMVCRLLEVAGVFQYKDSDSKPRIIDLRRSLERNAGLSKQDLKA	166				
NTDB id	329	STU	RS10020	WP	011225298.1	DLRAQSPALEAMLQEAGGIASVTGAVEVGESEHVLMFAFLHKDLMVCRLLEVAGVFQYKDSDSKPRIIDLRRSLERNAGLSKQDLKA	166				
consensus						* ** * * * * *	* * * * * * * *	*	**	*	*

NTDB id	601 KW2 RS02615 WP 021036805.1	 QTPPTQTGCG RGRPGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRVIEILNRRRTKNNPVL I	151
NTDB id	378 SMU RS02690 WP 002263569.1	 NTPPTAQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRVIEILNRRRTKNNPVL I	158
NTDB id	241 SP RS04015 WP 000882523.1	 PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKG LLEEFGINVTEIARRGDIDPVIGRDDEIRVIEILNRRRTKNNPVL I	157
NTDB id	281 KZH43 RS03550 WP 000882517.1	 PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKG LLEEFGINVTEIARRGDIDPVIGRDDEIRVIEILNRRRTKNNPVL I	157
NTDB id	245 SPD RS03860 WP 000882517.1	 PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKG LLEEFGINVTEIARRGDIDPVIGRDDEIRVIEILNRRRTKNNPVL I	157
NTDB id	243 SPR RS03635 WP 000882517.1	 PIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKG LLEEFGINVTEIARRGDIDPVIGRDDEIRVIEILNRRRTKNNPVL I	157
NTDB id	85 BSU 00860 NP 387967.1	 GSSAAGTNSNANTPTLDLSARDLTAIAKEDSLDPVIGRSKEIQRVIEIVLSRRTKNNPVL I	207
NTDB id	610 V4T04 RS10165 WP 012897346.1	AVTPMSKRKMAGC VAENSTPTPLDSVSSLTEEARLGKLDPMIGRAEIEDRLIHLSRRTKNNPVL V	220
NTDB id	290 KZH43 RS10025 WP 001109677.1	.LRQRHRTV.ADK QNSMANMMMGMPQTSPGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIQLSRKTKNPNPVL V	233
NTDB id	289 SPD RS10700 WP 001109677.1	.LRQRHRTV.ADK QNSMANMMMGMPQTSPGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIQLSRKTKNPNPVL V	233
NTDB id	287 SP RS11210 WP 001109712.1	.LRQRHRTV.ADK QNSMANMMMGMPQTSPGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIQLSRKTKNPNPVL V	233
NTDB id	377 SMU RS09275 WP 002262344.1	.IFEMRKPKKVKN SSSFSDLMKPP.SVTGELADFTTRDLTELARQGRIEPVIGREQEISR MVQILSRKTKNPNPVL V	237
NTDB id	297 STER RS00545 WP 011680614.1	.IHD LRKPKKS KA SANFANMMQP PQSSTGELADYT KD LTALAESGNLPDVIGRDEEISRMIQVLSRKTKNPNPVL V	240
NTDB id	329 STU RS10020 WP 011225298.1	.IHD LRKPKKS KA SANFANMMQP PQSSTGELADYT KD LTALAESGNLDPITIGRDEEISRMIQVLSRKTKNPNPVL V	240
consensus		* * *	** ** ! *** ** ! **** * ** ! ***** ** ! *****

[illegible][illegible]

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	C	T	G	K	.	.	V	E	A	S	V	G	F	G	A	A	R	E	G	.	.	.	.	.	R	T	K	S	V	L	G	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	M	T	S	N	A	C	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	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	M	T	S	N	A	C	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	65
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	M	T	S	N	A	C	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	M	T	S	N	A	C	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	M	T	S	N	A	C	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	O0860	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	L	I	M	T	S	N	V	G	A	S	E	L	K	R	N	K	V	V	G	F	N	V	Q	D	E	T	Q	N	H	K	D	M	K	D	K	V	M	G	E	L	K	A	F	R	P	E	F	I	N	R	I	D	E	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	G	R	K	V	D	F	R	N	T	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	Y	S	A	M	K	S	R	I	L	E	E	L	K	R	H	Y	R	P	E	F	I	N	R	I	D	E	I	V	F	H	S	L	E	S	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	M	T	S																																																										

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NTDB id 601 KW2 RS02615 WP 021036805.1	ENLLKIVDLMLDEVNEQIGRNDIHLSTTQAAKEKLVDLGYNPAMGARPLRRTIQENTIEDSTADFYIEHPEYKQL.VADLIDDKIV	729
NTDB id 378 SMU RS02690 WP 002263569.1	DNLLQIVSLMLDDVNQRLAVNAIHLDTDKVKEKLVLDLGYDPKMGARPLRRTIQEHIEDIAITDFYLEHPEQKEL.KAIVMTSNGKI	736
NTDB id 241 SP RS04015 WP 000882523.1	DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNI	735
NTDB id 281 KZH43 RS03550 WP 000882517.1	DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNI	735
NTDB id 245 SPD RS03860 WP 000882517.1	DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNI	735
NTDB id 243 SPR RS03635 WP 000882517.1	DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNI	735
NTDB id 85 BSU 00860 NP 387967.1	KHLTEIVSLMSDQLTKRLKEQDLSTIELTDAAKAKVAEEGVLDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHTVLDVEDGEF	801
NTDB id 610 V4T04 RS10165 WP 012897346.1	QEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLIAEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGETKAGNHVSTIGASNKKI	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	DHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQL	805
NTDB id 289 SPD RS10700 WP 001109677.1	DHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQL	805
NTDB id 287 SP RS11210 WP 001109712.1	DHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQL	805
NTDB id 377 SMU RS09275 WP 002262344.1	EDIRHIVKIMVAPLIAHLADQGKITLKFQPSALKHLALAGYDAEMGARPLRRTLQTEVEDKLAELLTSGKLASGQTLKIGIQKEKL	808
NTDB id 297 STER RS00545 WP 011680614.1	EQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSLELLGGQVVSQQTILKIGCSKDKL	811
NTDB id 329 STU RS10020 WP 011225298.1	EQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSLELLGGQVVSQQTILKIGCSKDKL	811
consensus	*** *! *!* * **** * * * * !*****!!!!!!* *! *** * * * * * * * *	

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDEEVPAE	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 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