

NTDB id 601 KW2 RS02615 WP 021036805.1	MLCQNCNINEA.....TI	13
NTDB id 378 SMU RS02690 WP 002263569.1	MLCQNCNINEA.....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 241 SP RS04015 WP 000882523.1	MLCQNCNINDS.....TI	13
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYTPTLDRILEKAEYEAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSDDLIDL.....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	...MTDYSLKMQEVFRLAQFEAAERFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRFEDYQAAAILAIGKKPKSSSN..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...IMKSGGQEALFCAGNASNGNSDEP.....FNP.FNDIFSAIQQG.DFNGAASN..	80
NTDB id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQ...IMKTDPENGPLNHLSSQNSSS.....INPFDDDFFGDLNNFRAFNNQDLP.	79
NTDB id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDDFFNDLNNFRPSSN..TP.	76
NTDB id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDDFFNDLNNFRPSSN..TP.	76
NTDB id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDDFFNDLNNFRPSSN..TP.	76
NTDB id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKQIDLCQNCYK...IIKTDPNNSLFKGMTDLNNRD.....FDP.FGDDFFNDLNNFRPSSN..TP.	76
NTDB id	85	BSU	00860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVGTEHTILLGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LGSNET....	147
NTDB id	610	V4T04	RS10165	WP	012897346.1	STLRFSPRAEVEVMTAASFLAIHNNSEAVGTEHLLYALLQVEDGFGLQLKL.....QKINIVSLRKLELEKRTGLKVPESKK	153
NTDB id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id	289	SPD	RS10700	WP	001109677.1	TELPFSRRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id	287	SP	RS11210	WP	001109712.1	TELPFSRRRLQILFDEAEYVASVVHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id	377	SMU	RS09275	WP	002262344.1	MILEQSHALKRTLAEAAAISQVTHAKEVGTEHVLFAMLLNPNLLATRIILELVGFHAKDDGESIRLLDLRKVTIERYAGFSKEDIKA	164
NTDB id	297	STER	RS00545	WP	011680614.1	DLRAQSPALEAMLQEAQEIASVTGAVEVGESEHVLMFAFLHKDLMVCRLLEVAGVFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB id	329	STU	RS10020	WP	011225298.1	DLRAQSPALEAMLQEAQGIIASVTGAVEVGESEHVLMFAFLHKDLMVCRLLEVAGVFQYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus						* ** * * * * *	* * * * * * * * *

[illegible]

NTDB id	601	KW2	RS02615	WP	021036805.1	EVTDEDMPVITEKDIETQIV EQKTQIPVGDLKEKEQTQLINLADDLKAHVIGQDEAVDKISKAIRRSRVGLGKNRPIGSFLFVGP	482
NTDB id	378	SMU	RS02690	WP	002263569.1	KLDKENTPVITEKNIEVIVEEQKTNIPIVGELKEKEQSQLIHLADDLKTRVIGQDAVDKIATAIRRNRRVGLGTPNRPIGSFLFVGP	489
NTDB id	281	KZH43	RS03550	WP	000882517.1	KITDQDTPITSEKTIETHIEIQKTNIPIVGDLKEKEQSQLIHLAEDLSHVIGQDDAVDKIATAIRNRNVGLGTNRPIGSFLFVGP	488
NTDB id	245	SPD	RS03860	WP	000882517.1	KITDQDTPITSEKTIETHIEIQKTNIPIVGDLKEKEQSQLIHLAEDLSHVIGQDDAVDKIATAIRNRNVGLGTNRPIGSFLFVGP	488
NTDB id	243	SPR	RS03635	WP	000882517.1	KITDQDTPITSEKTIETHIEIQKTNIPIVGDLKEKEQSQLIHLAEDLSHVIGQDDAVDKIATAIRNRNVGLGTNRPIGSFLFVGP	488
NTDB id	241	SP	RS04015	WP	000882523.1	KITDQDTPTSISEKTIETHIEIQKTNIPIVGDLKEKEQSQLIHLAEDLSHVIGQDDAVDKIATAIRNRNVGLGTNRPIGSFLFVGP	488
NTDB id	85	BSU	O0860	NP	387967.1	EKGQGENSEVTVDDIAMVVSSWTGVVPVSKIAQTETDKLLNMENILHSRVIGQDEAVVAVAKAVRRARAGLKDPKRPIGSFIIFLG	546
NTDB id	610	V4T04	RS10165	WP	012897346.1	.VKEDKRQEVTDAQAVAMASTLTCTVPTQMTKSESDDLNLLEKLHHRVVGQEEAISAVSRARRARSADVADRPMGSFMFLGP	555
NTDB id	290	KZH43	RS10025	WP	001109677.1	.VPV.YKDLVTESDILTTL SRLSGIPVQKLTQTD AKKYLNLEAE LHKRVIGQQDQAVSSIIRAIRNNQSGIRSHKRPIGSFMFLGP	550
NTDB id	289	SPD	RS10700	WP	001109677.1	.VPV.YKDLVTESDILTTL SRLSGIPVQKLTQTD AKKYLNLEAE LHKRVIGQQDQAVSSIIRAIRNNQSGIRSHKRPIGSFMFLGP	550
NTDB id	287	SP	RS11210	WP	001109712.1	.VPV.YKDLVTESDILTTL SRLSGIPVQKLTQTD AKKYLNLEAE LHKRVIGQQDQAVSSIIRAIRNNQSGIRSHKRPIGSFMFLGP	550
NTDB id	377	SMU	RS09275	WP	002262344.1	.PLLKKRAEVKBEEDILATLSKLSGIPVKKLTQADS KKYLNLEREL HLRVIGQDDAVSSIIRAIRNNQSGIRVGRPIGSFMFLGP	553
NTDB id	297	STER	RS00545	WP	011680614.1	.AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTS SKRYLNLES ELH RLVIGQDEAVSAISRAIRNNQSGIRTGKRPIGSFMFLGP	556
NTDB id	329	STU	RS10020	WP	011225298.1	.AKFPKPALVDADQIMQTLSRLSGIPVEKMTQTS SKRYLNLES ELH RLVIGQDEAVSAISRAIRNNQSGIRTGKRPIGSFMFLGP	556
consensus						* * * * *	

[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	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	65
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	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	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	ENLLKIVDLMLDEVNEQIGRNDIHLSTVQAAKEKLVDLGYNPAMGARPLRRTIQENTIEDSTADFYIEHPEYKQL.VADLIDDKIV	729
NTDB id 378 SMU RS02690 WP 002263569.1	DNLLQIVSLMLDDVNQRLAVNAIHLDTDKVKEKLVLDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKEL.KAIVMTSNGKI	736
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 241 SP RS04015 WP 000882523.1	DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVLDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDL.KAVMTSKGNI	735
NTDB id 85 BSU 00860 NP 387967.1	KHLTEIVSLMSDQLTKRLKEQDLSTIELTDAAKAKVAEEGVLDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHTIVLDVEDGEF	801
NTDB id 610 V4T04 RS10165 WP 012897346.1	QEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLIAEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGETKAGNHVSTIGASNKKI	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	DHMQEVVKIMVKPLVASLAEKGI DLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQL	805
NTDB id 289 SPD RS10700 WP 001109677.1	DHMQEVVKIMVKPLVASLAEKGI DLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQL	805
NTDB id 287 SP RS11210 WP 001109712.1	DHMQEVVKIMVKPLVASLAEKGI DLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQL	805
NTDB id 377 SMU RS09275 WP 002262344.1	EDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHLALAGYDAEMGARPLRRTLQTEVEDKLAELLKGDIVAGSILKIGVKAGQL	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	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