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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 130632 BF33 RS21870 WP 000971179.1	..MMFGRFTERAQKVLALSQEEAIRIGHNNIGTEHILLGLVREGEGLAAKALIALGLSPEKVQKEVEALIG.....RGTEAS	75
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLIGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTPLDRILEKAEYEAHQYQYGTIESAHLAAMATTSGSTAYSLLAGMNVDDSSDLLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVA GHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	MTDYS LKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSSN...DI	79
NTDB id 329 STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVTGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
NTDB id 327 STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFL ETWHVLLAMVEVPGSAVYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
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NTDB	id	601	KW2	RS02615	WP	021036805.1	HLYTSVNGQKKQIDLCQNCYQI...MKS	GGQ	EAL	FG	AGNAS	NGNSDE		PFNP	FND	I	FSA	L	GG	DFNGAASNQ	81
NTDB	id	378	SMU	RS02690	WP	002263569.1	HLYANVNGQKKQIDLCQNCYQI...MKTDP	ENG	PLNH	IS	QQN	SSS		INPFFD	DF	FGD	LNN	FRAFNN	QDLPN	80	
NTDB	id	241	SP	RS04015	WP	000882523.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	MTD	LNNRD		FDP	FG	DFND	LNN	FRPSS	N..TPP	77	
NTDB	id	281	KZH43	RS03550	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	MTD	LNNRD		FDP	FG	DFND	LNN	FRPSS	N..TPP	77	
NTDB	id	245	SPD	RS03860	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	MTD	LNNRD		FDP	FG	DFND	LNN	FRPSS	N..TPP	77	
NTDB	id	243	SPR	RS03635	WP	000882517.1	HLYTNLNGKQKKQIDLCQNCYKI...IKTDP	NNS	L	FKG	MTD	LNNRD		FDP	FG	DFND	LNN	FRPSS	N..TPP	77	
NTDB	id	130632	BF33	RS21870	WP	000971179.1	QTVHYTPRAKKVIELSMDEARKLGHSYV	GTE	HILL	LGL	IRE	GEGVAARV	LNNLGVSLNKARQQVLQ..	LLGSNE						146	
NTDB	id	85	BSU	O0860	NP	387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYV	GTE	HILL	LGL	IRE	GEGVAARV	LNNLGVSLNKARQQVLQ..	LLGSNE						146	
NTDB	id	610	V4T04	RS10165	WP	012897346.1	STLRFSPRAEEVMTAASFLAIHNNSEAV	GTE	HLYALL	QVED	GFGLQL	KL		QKINIVS	LRKE	LE	KRTGL	KVPESK	153		
NTDB	id	290	KZH43	RS10025	WP	001109677.1	TELPFSRRLLQILFDEAEYVASV	VHAKVL	GTE	HVLYAIL	HD	GNALATRI	LERAGFSYEDKKDQVKIAALRRN	LE	ERAGW	TREDLKA	160				
NTDB	id	289	SPD	RS10700	WP	001109677.1	TELPFSRRLLQILFDEAEYVASV	VHAKVL	GTE	HVLYAIL	HD	GNALATRI	LERAGFSYEDKKDQVKIAALRRN	LE	ERAGW	TREDLKA	160				
NTDB	id	287	SP	RS11210	WP	001109712.1	TELPFSRRLLQILFDEAEYVASV	VHAKVL	GTE	HVLYAIL	HD	GNALATRI	LERAGFSYEDKKDQVKIAALRRN	LE	ERAGW	TREDLKA	160				
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NTDB	id	329	STER	RS00545	WP	011680614.1	DLRAQSPALEAMLQEAQEIASV	TGAVEV	GSE	HVLM	AFLLHKD	LMVCRLE	LEVAGFQYKDDSDKPRIIDLRRS	LERNAGLSKQDLKA	166						
NTDB	id	297	STU	RS10020	WP	011225298.1	DLRAQSPALEAMLQEAQGIASV	TGAVEV	GSE	HVLM	AFLLHKD	LMVCRLE	LEVAGFQYKDDSDKPRIIDLRRS	LERNAGLSKQDLKA	166						
consensus							*	*	*	*	*	*	*****	*	*	*	*	*	*		

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NTDB id 85 BSU 00860 NP 387967.1
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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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consensus



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NTDB id 241 SP RS04015 WP 000882523.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 281 KZH43 RS03550 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 245 SPD RS03860 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 243 SPR RS03635 WP 000882517.1	GNMDAGNILKPALARGEELQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAAT	326
NTDB id 130632 BF33 RS21870 WP 000971179.1	GAIDASNILKPSLARGEELQCIGATTLDDEYRKYIEKDAALERRFQPIHVDEPSLDESTQILKGLRDRYEAAHHRVSIITDDAIDAAVK	377
NTDB id 85 BSU 00860 NP 387967.1	GAIDASNILKPSLARGEELQCIGATTLDDEYRKYIEKDAALERRFQPIQVDQPSVDESIQILQGLRDRYEAAHHRVSIITDDAIEAAVK	376
NTDB id 610 V4T04 RS10165 WP 012897346.1	SVNDAANILKPALARGDFQMVGATTYHEYQKYIEKDEALERRLARINVDEPSPDEAIAILQGLREKFEDYHQVKFTDQAIKSAVM	390
NTDB id 290 KZH43 RS10025 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 289 SPD RS10700 WP 001109677.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 287 SP RS11210 WP 001109712.1	STLDAANILKPALARGTLRTVGATTQEEYQKHIEKDAALSRRFAKVTIEEPSVADSMTILQGLKATYEKHHRVQITDEAVETAVK	403
NTDB id 377 SMU RS09275 WP 002262344.1	STLDAANILKPALARGSLRTIGATTQEEYQKHIEKDAALSRRFAKVTIEEPSEEEAYQILLGLKKSSETYHHVVISDAAVMAAVK	407
NTDB id 297 STER RS00545 WP 011680614.1	STLDAANILKPALARGTLHVMVGATTQAQYQKHIEKDAALSRRFAKITIEEPSVSEATDILNGLRSSYEDYHRVTITDAAVETAVK	410
NTDB id 329 STU RS10020 WP 011225298.1	STLDAANILKPALARGTLHVMVGATTQAQYQKHIEKDAALSRRFAKITIEEPSVSEATDILNGLRSSYEDYHRVTITDAAVETAVK	410
consensus	*!!!!!!*!!!!*!!!!!! !! *!!!!*!!!! *!!!!*!!!!!! !!*!!!!!! !!*!!!!!!	

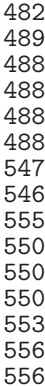
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NTDB id 378 SMU RS02690 WP 002263569.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKEIDHRLIEAENLKAQATRDDEYEKAAYFRDQIAKYKEMQS.....A	404
NTDB id 241 SP RS04015 WP 000882523.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 281 KZH43 RS03550 WP 000882517.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 245 SPD RS03860 WP 000882517.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 243 SPR RS03635 WP 000882517.1	LSNRYIQDRFLPDKAIDLDEAGSKMNLTLNFV..DPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQK.....K	403
NTDB id 130632 BF33 RS21870 WP 000971179.1	LSDRYITDRFLPDKAIDLDEAASKVRLRSYTTTPNLKELEVKLEEIRKEKDAAVQSQEFKAAASLRDMEQRLREKLEDTKRQWK	462
NTDB id 85 BSU 00860 NP 387967.1	LSDRYISDRFLPDKAIDLDEAGSKVRLRSYTTTPNLKELEQKLDEVRKEKDAAVQSQEFKAAASLRDTEQRLREQVEDTKKSWK	461
NTDB id 610 V4T04 RS10165 WP 012897346.1	LSVRYMTSRKLPDKAIDLDEAAAARKISVKNQQTGRDLLEKELAEAEQEELSEAVIKLDIKASRTKEKAVEKIADKIYKFS....	471
NTDB id 290 KZH43 RS10025 WP 001109677.1	MAHRYLTSRHLPDSAIDLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 289 SPD RS10700 WP 001109677.1	MAHRYLTSRHLPDSAIDLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 287 SP RS11210 WP 001109712.1	MAHRYLTSRHLPDSAIDLDEAAATVQNKAKHVKAADSDL....S....PADKALMDGKWKQAAQLIAKEE.....E....	467
NTDB id 377 SMU RS09275 WP 002262344.1	GAHRYLSGNLPSAIDLDEASATVQGLVKK..KAPAYL....T....DLDHALITNDYQLAKRLKKEK.....K....	469
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NTDB id 329 STU RS10020 WP 011225298.1	AAHRYLTSKNLPDSAIDLDEASATVQVRICK..EAKREI....T....PLDEALISGDIGAAVKQYKANQ.....K....	472
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consensus

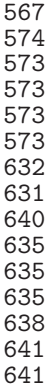
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NTDB id 329 STU RS10020 WP 011225298.1
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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDDEEVPAE	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 241 SP RS04015 WP 000882523.1	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
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NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		



-  non conserved
-  similar
-  ≥ 50% conserved