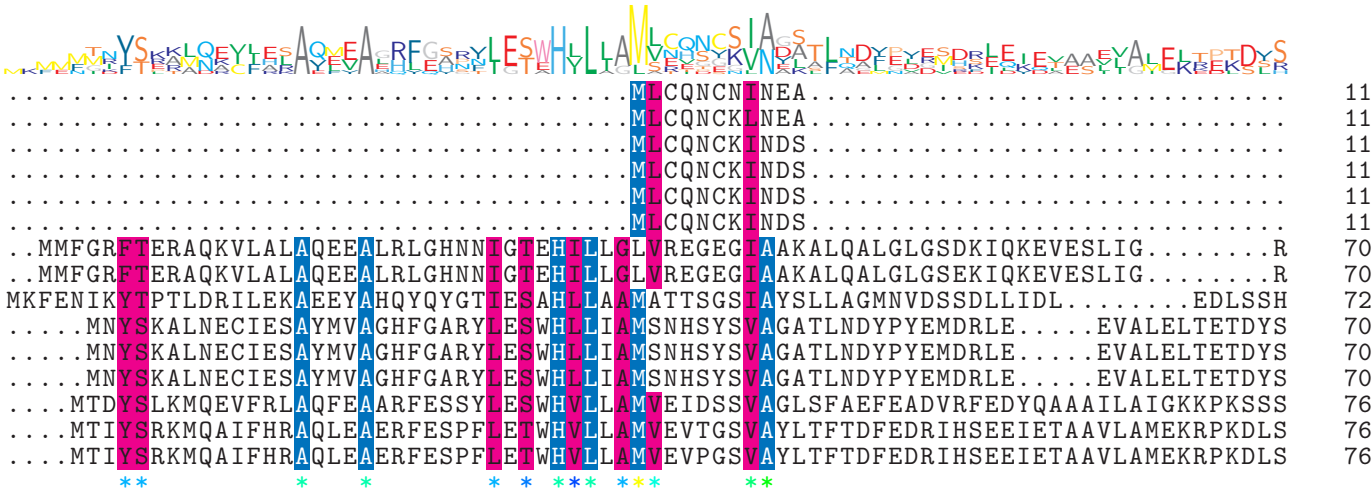


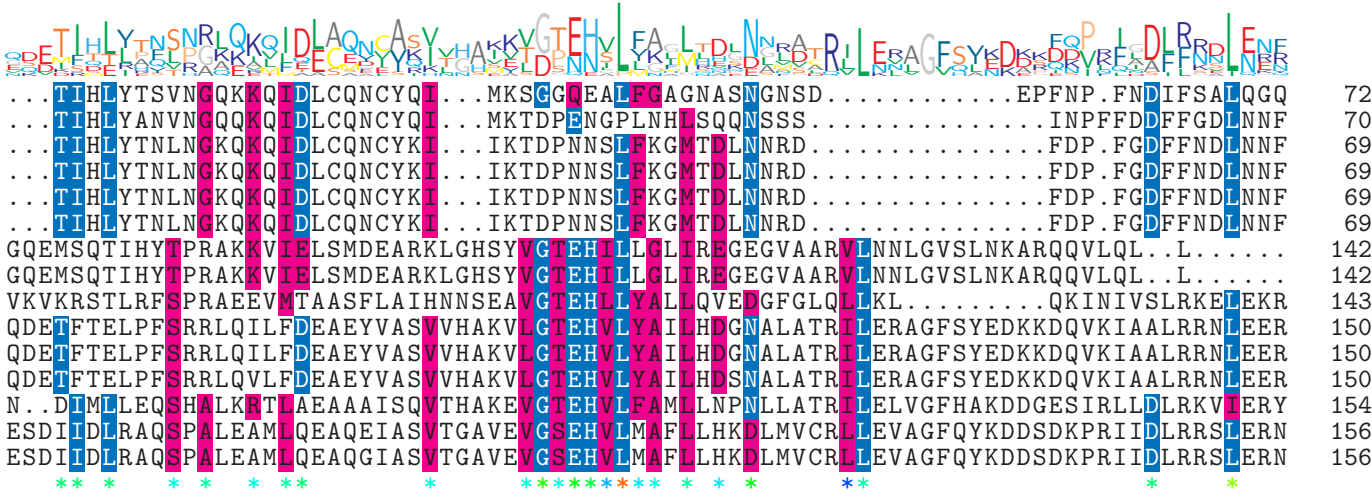
logo

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 115300 BAMY6614 RS04160 WP 007410388.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
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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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 115300 BAMY6614 RS04160 WP 007410388.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
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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NTDB id	601	KW2	RS02615	WP	021036805.1	.DFNGAASN.....QTPPTQTGG.....RGRPGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRV	136
NTDB id	378	SMU	RS02690	WP	002263569.1	RAFNNQDLP.....NTPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRV	143
NTDB id	241	SP	RS04015	WP	000882523.1	RPSSN..TP....PIPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLEEFGINVTEIARRGDI DPVIGRDDEIIRV	142
NTDB id	281	KZH43	RS03550	WP	000882517.1	RPSSN..TP....PIPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLEEFGINVTEIARRGDI DPVIGRDDEIIRV	142
NTDB id	245	SPD	RS03860	WP	000882517.1	RPSSN..TP....PIPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLEEFGINVTEIARRGDI DPVIGRDDEIIRV	142
NTDB id	243	SPR	RS03635	WP	000882517.1	RPSSN..TP....PIPPTQSGGGYGGNGGYGSQNRGSAQTTPPSQEKGLEEFGINVTEIARRGDI DPVIGRDDEIIRV	142
NTDB id	115300	BAMY6614	RS04160	WP	007410388.1	.GSNET.....GSSASGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRV	192
NTDB id	85	BSU	00860	NP	387967.1	.GSNET.....GSSAAGTNSNANTPTLDSLARDLTAIAKEDSLDPVIGRSKEIQRV	192
NTDB id	610	V4T04	RS10165	WP	012897346.1	TGLKVPESKKAVTPMSKRKMAKG.....VAENSTTPTLDSVSSDLTEBARLCKLDPMIGRFAEIDRL	205
NTDB id	290	KZH43	RS10025	WP	001109677.1	AGWTREDLKA.LRQRHRTV.ADK.....QNSMANMMGMPQTTPSGGLEDYTHDLTEQARSCKLEPVI GRDK EISRM	218
NTDB id	289	SPD	RS10700	WP	001109677.1	AGWTREDLKA.LRQRHRTV.ADK.....QNSMANMMGMPQTTPSGGLEDYTHDLTEQARSCKLEPVI GRDK EISRM	218
NTDB id	287	SP	RS11210	WP	001109712.1	AGWTREDLKA.LRQRHRTV.ADK.....QNSMANMMGMPQTTPSGGLEDYTHDLTEQARSCKLEPVI GRDK EISRM	218
NTDB id	377	SMU	RS09275	WP	002262344.1	AGFSKEDIKA.IFEMRKPKKVKN.....SSSFSDLMKPP.SVTGELADFTRLDTELARQGRLPVI GRD EISRM	222
NTDB id	297	STER	RS00545	WP	011680614.1	AGLSKQDLKA.IHDLRKPKKSKA.....SANFANMMQPPQSSITGELADYTKDLTALAESC NLDPVIGRD EISRM	225
NTDB id	329	STU	RS10020	WP	011225298.1	AGLSKQDLKA.IHDLRKPKKSKA.....SANFANMMQPPQSSITGELADYTKDLTALAESC NLDPVIGRD EISRM	225
consensus						* * * * *	

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NTDB id	601	KW2	RS02615	WP	021036805.1	IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRN	216
NTDB id	378	SMU	RS02690	WP	002263569.1	IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRQRQ	223
NTDB id	241	SP	RS04015	WP	000882523.1	IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRE	222
NTDB id	281	KZH43	RS03550	WP	000882517.1	IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRE	222
NTDB id	245	SPD	RS03860	WP	000882517.1	IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRE	222
NTDB id	243	SPR	RS03635	WP	000882517.1	IEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRE	222
NTDB id	115300	BAMY6614	RS04160	WP	007410388.1	IEVLSRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRE	222
NTDB id	85	BSU	00860	NP	387967.1	IEVLSRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRE	222
NTDB id	610	V4T04	RS10165	WP	012897346.1	IHILSRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMCKLMDEIRKRE	222
NTDB id	290	KZH43	RS10025	WP	001109677.1	IQILSRKTNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNI IKD IEEDG	298
NTDB id	289	SPD	RS10700	WP	001109677.1	IQILSRKTNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNI IKD IEEDG	298
NTDB id	287	SP	RS11210	WP	001109712.1	IQILSRKTNNPVLVGDAGVGKTALALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNI IKD IEEDG	298
NTDB id	377	SMU	RS09275	WP	002262344.1	VQILSRKTNNPVLVGDAGVGKTALALGLAQRIASGEVPFELADMVLELDMMSVVAGTRFRGDFEERMNNI IKD IEADG	302
NTDB id	297	STER	RS00545	WP	011680614.1	IQVLSRKTNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMVLELDMMSVVAGTRFRGDFEERMNNI IKD IEADG	305
NTDB id	329	STU	RS10020	WP	011225298.1	IQVLSRKTNNPVLVGEAGVGKTALALGLAQRIASGEVPFELADMVLELDMMSVVAGTRFRGDFEERMNNI IKD IEADG	305
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NTDB id	601	KW2 RS02615 WP 021036805.1	DVIMFIDELTHEIVGAGSAGDGNMDACNILKPALARGEQLQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVDETITIL	295
NTDB id	378	SMU RS02690 WP 002263569.1	DVILFIDEITHIIVGAGSAGDGNMDAGNILKPALARGEQLQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPSVAETITIL	302
NTDB id	241	SP RS04015 WP 000882523.1	DIILFIDEITHIIVGAGSASDGNDMADNILKPALARGEQLQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL	301
NTDB id	281	KZH43 RS03550 WP 000882517.1	DIILFIDEITHIIVGAGSASDGNMADNILKPALARGEQLQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL	301
NTDB id	245	SPD RS03860 WP 000882517.1	DIILFIDEITHIIVGAGSASDGNDMACNILKPALARGEQLQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL	301
NTDB id	243	SPR RS03635 WP 000882517.1	DIILFIDEITHIIVGAGSASDGNDMACNILKPALARGEQLQLVGATTLNEYR.IIEKDAALERRMQPVKVDEPTVDETITIL	301
NTDB id	115300	BAMY6614 RS04160 WP 007410388.1	NIIILFIDELHTLIGAGG.AEGAITDASNILKPSSLARGELQCIGATTLDYERKYIEKDAALERRFQPIQVDQPSSADESIQIL	351
NTDB id	85	BSU 00860 NP 387967.1	NIIILFIDELHTLIGAGG.AEGAIDAASNILKPSSLARGELQCVGATTLDYERKYIEKDAALERRFQPIQVDQPSSDESISQIL	351
NTDB id	610	V4T04 RS10165 WP 012897346.1	DVIIFIDELITIGAGSGMDSVNDAANILKPALARGLDFQMVGATTYHEYQQHYIEKDAALEALLRLARINVDEPSEAEIAIAL	365
NTDB id	290	KZHA3 RS10025 WP 001109677.1	QVILFIDELHTIMSGSGIDSTLDAANILKPALARGLTRTVGATTQEYYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL	378
NTDB id	289	SPD RS10700 WP 001109677.1	QVILFIDELHTIMSGSGIDSTLDAANILKPALARGLTRTVGATTQEYYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL	378
NTDB id	287	SP RS11210 WP 001109712.1	QVILFIDELHTIMSGSGIDSTLDAANILKPALARGLTRTVGATTQEYYQKHIEKDAALSRRFAKVTIEEPSVADSMTIL	378
NTDB id	377	SMU RS09275 WP 002262344.1	HIVLFIDELHTIMSGSGIDSTLDAANILKPALARGLSLRTIGATTQEYYQKHIEKDAALSRRFAKVTIEEPSEEAYAIL	382
NTDB id	297	STER RS00545 WP 011680614.1	KIILFIDELHTIMSGSGIDSTLDAANILKPALARGLTHMVGATTQAEEYQKHIEKDAALSRRFAKITIEEPSVSSEAIDLIL	385
NTDB id	329	STU RS10020 WP 011225298.1	KIILFIDELHTIMSGSGIDSTLDAANILKPALARGLTHMVGATTQAEEYQKHIEKDAALSRRFAKITIEEPSVSSEAIDLIL	385
consensus			* * * ! ! ! ! * ! * * ! ! * ! * * * ? ? ! ! ! ! ! ! ! ! * ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! * ! ! ! ! ! ! * ! ! ! *	

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NTDB id 601 KW2 RS02615 WP 021036805.1	R	G	I	Q	A	R	Y	E	D	Y	H	H	V	K	Y	T	D	E	A	I	E	A	A	H	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	K	F	.	.	V	D	P	E	D	I	N	R	R	I	A	D	A	E	N	K	K	N	E	A	T	373																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB id 378 SMU RS02690 WP 002263569.1	K	G	I	Q	P	K	Y	E	D	Y	H	H	V	K	Y	T	D	E	A	I	E	A	A	A	N	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	E	I	D	H	R	L	I	E	A	E	N	L	K	A	Q	A	T	380																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 241 SP RS04015 WP 000882523.1	K	G	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	I	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	S	Q	A	T	379																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 281 KZH43 RS03550 WP 000882517.1	K	G	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	I	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	S	Q	A	T	379																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 245 SPD RS03860 WP 000882517.1	K	G	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	I	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	S	Q	A	T	379																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 243 SPR RS03635 WP 000882517.1	K	G	I	Q	K	K	Y	E	D	Y	H	H	V	Q	Y	T	D	A	A	I	E	A	A	A	T	L	S	N	R	Y	I	Q	D	R	F	L	P	D	K	A	I	D	L	L	D	E	A	G	S	K	M	N	L	T	L	N	F	.	.	V	D	P	K	V	I	D	Q	R	L	I	E	A	E	N	L	K	S	Q	A	T	379																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
NTDB id 115300 BAMY6614 RS04160 WP 007410388.1	K	G	L	R	D	R	Y	E	A	H	R	V	S	I	T	D	E	A	I	E	A	A	V	K	L	S	D	R	Y	I	S	D	R	F	L	P	D	K	A	I	D	L	I	D	E	A	G	S	K	V	R	L	R	S	F	T	T	P	P	N	L	K	E	L	E	Q	K	L	D	E	V	R	K	E	K	D	A	A	V	431																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB id 85 BSU 00860 NP 387967.1	Q	G	L	R	D	R	Y	E	A	H	R	V	S	I	T	D	E	A	I	E	A	A	V	K	L	S	D	R	Y	I	S	D	R	F	L	P	D	K	A	I	D	L	I	D	E	A	G	S	K	V	R	L	R	S	F	T	T	P	P	N	L	K	E	L	E	Q	K	L	D	E	V	R	K	E	K	D	A	A	V	431																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
NTDB id 610 V4T04 RS10165 WP 012897346.1	Q	G	L	R	E	K	F	E	D	Y	H	Q	V	K	F	T	D	Q	A	I	K	S	A	V	M	L	S	V	R	Y	M	T	S	R	K	L	P	D	K	A	I	D	L	L	D	E	A	A	A	V	K	I	S	V	K	N	Q	T	K	R	L	D	L	E	K	L	A	E	A	Q	E	E	L	S	E	A	V	445																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 290 KZH43 RS10025 WP 001109677.1	Q	G	L	K	A	T	Y	E	K	H	R	V	Q	I	T	D	E	A	V	E	T	A	V	K	M	A	H	R	Y	L	T	S	R	H	L	P	D	S	A	I	D	L	L	D	E	A	A	A	T	V	Q	N	K	A	K	H	V	K	A	D	S	D	L	.	.	.	.	S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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NTDB id 601 KW2 RS02615 WP 021036805.1	KAEDFEKAAHFRDQISKLREL.....QKQEVTDDEMPVITEKDI	EQIVEQKTQIPVGD	LKEKE	EQTQLINL	ADDLKAHV	446		
NTDB id 378 SMU RS02690 WP 002263569.1	RDEDYEKAAAYFRDQIAKYKEM.....QSAKLDKENTPVITEKN	IEVIVEQKTNI	IPVGDLKEKE	EQSQLIHL	ADDLKTRV	453		
NTDB id 241 SP RS04015 WP 000882523.1	REEDFEKAAAYFRDQIAKYKEM.....QKKKITDQDTPSISEKT	IEHII	EQKTNIPV	GD	LKEKEEQSQLIHL	ADDLKSHV	452	
NTDB id 281 KZH43 RS03550 WP 000882517.1	REEDFEKAAAYFRDQIAKYKEM.....QKKKITDQDTP	IISEKT	IEHII	EQKTNIPV	GD	LKEKEEQSQLIHL	ADDLKSHV	452
NTDB id 245 SPD RS03860 WP 000882517.1	REEDFEKAAAYFRDQIAKYKEM.....QKKKITDQDTP	IISEKT	IEHII	EQKTNIPV	GD	LKEKEEQSQLIHL	ADDLKSHV	452
NTDB id 243 SPR RS03635 WP 000882517.1	REEDFEKAAAYFRDQIAKYKEM.....QKKKITDQDTP	IISEKT	IEHII	EQKTNIPV	GD	LKEKEEQSQLIHL	ADDLKSHV	452
NTDB id 115300 BAMY6614 RS04160 WP 007410388.1	QSQEFEKAAASLRDTEQRRLREQVEDTKKTWKEK.QGQENSEVSV	VEDIAMVVSS	WTGVPVSKIA	QTETDKLL	NMESILHSRV	510		
NTDB id 85 BSU 00860 NP 387967.1	QSQEFEKAAASLRDTEQRRLREQVEDTKKSWEK.QGQENSEVT	VDIDIAMVVSS	WTGVPVSKIA	QTETDKLL	NMENILHSRV	510		
NTDB id 610 V4T04 RS10165 WP 012897346.1	IKLDIKASRTKEAVEKIAADKIYKFSV.....KEDKRQEVTD	QAVAVASTLT	GVPIQMTKES	DRILNLEKELH	KRV	519		
NTDB id 290 KZH43 RS10025 WP 001109677.1	MDGKWKQAAQLIAKEE.....EV.....PV.YKDLV	TESDILTTLS	SRLSGIPVQKLT	QTDAKKYLNLEA	ELH	KRV	514	
NTDB id 289 SPD RS10700 WP 001109677.1	MDGKWKQAAQLIAKEE.....EV.....PV.YKDLV	TESDILTTLS	SRLSGIPVQKLT	QTDAKKYLNLEA	ELH	KRV	514	
NTDB id 287 SP RS11210 WP 001109712.1	MDGKWKQAAQLIAKEE.....EV.....PV.YKDLV	TESDILTTLS	SRLSGIPVQKLT	QTDAKKYLNLEA	ELH	KRV	514	
NTDB id 377 SMU RS09275 WP 002262344.1	ITNDYQLAKRLLKKEK.....KP.....LLKKRAEV	KVEEDILATLS	SKLSGIPVKKLT	QADSKKYLNLER	ELH	KRV	517	
NTDB id 297 STER RS00545 WP 011680614.1	ISGDIGAAVVKYKANQ.....KA.....KFPKPA	LVADADIMQTLS	SRLSGIPVEKMT	QTDSKRYLNLE	SELH	KRV	520	
NTDB id 329 STU RS10020 WP 011225298.1	ISGDIGAAVVKYKANQ.....KA.....KFPKPA	LVADADIMQTLS	SRLSGIPVEKMT	QTDSKRYLNLE	SELH	KRV	520	
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NTDB id	601	KW2 RS02615 WP 021036805.1	PGYVGYEEAGQLTERVRNRPYSLLILLDETEKAHPDVMHMFLLQVLDDGRLTDGQGRTVSFKDSLIIMTSNAGTGK..VEAS	604
NTDB id	378	SMU RS02690 WP 002263569.1	PGYVGYEEAGQLTEKVRNRPYSLLILLDEVEKAHPDVMHMFLLQVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEAN	611
NTDB id	241	SP RS04015 WP 000882523.1	PGYVGYDEAGQLTEKVRHNRPYSLLILLDEVEKAHPDVMHMFLLQVLDDGRLTDGQGRTVSFKDAIIMTSNAGTGK..TEAS	610
NTDB id	281	KZH43 RS03550 WP 000882517.1	PGYVGYDEAGQLTEKVRHNRPYSLLILLDEVEKAHPDVMHMFLLQVLDDGRLTDGQGRTVSFKDAIIMTSNAGTGK..TEAS	610
NTDB id	245	SPD RS03860 WP 000882517.1	PGYVGYDEAGQLTEKVRHNRPYSLLILLDEVEKAHPDVMHMFLLQVLDDGRLTDGQGRTVSFKDAIIMTSNAGTGK..TEAS	610
NTDB id	243	SPR RS03635 WP 000882517.1	PGYVGYDEAGQLTEKVRHNRPYSLLILLDEVEKAHPDVMHMFLLQVLDDGRLTDGQGRTVSFKDAIIMTSNAGTGK..TEAS	610
NTDB id	115300	BAMY6614 RS04160 WP 007410388.1	PGYVGYDEGGQLTEKVRRKPYSVLLDETEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNITILIMTSNVGASELKRNKY	670
NTDB id	85	BSU 00860 NP 387967.1	PGYVGYDEGGQLTEKVRRKPYSVLLDETEKAHPDVFNILLQVLEDGRLTDSKGRTVDFRNITILIMTSNVGASELKRNKY	670
NTDB id	610	V4T04 RS10165 WP 012897346.1	PGYVGYDEGGQLTEVRNKPSVLLDEVEKAHPDVFNIMLQLTDDGVFTDKGRKVDFRNTIIIMTSNLGATALRDDKT	679
NTDB id	290	KZH43 RS10025 WP 001109677.1	PGYVGYEGGEELTEKVRNKPSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKT	674
NTDB id	289	SPD RS10700 WP 001109677.1	PGYVGYEGGEELTEKVRNKPSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKT	674
NTDB id	287	SP RS11210 WP 001109712.1	PGYVGYEGGEELTEKVRNKPSVLLFDEVEKAHPDIFNVLLQVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKT	674
NTDB id	377	SMU RS09275 WP 002262344.1	PGYVGYEGGEELTEKVRNKPSVLLFDEVEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKT	677
NTDB id	297	STER RS00545 WP 011680614.1	PGYVGYDEGGEELTEKVRNKPSVLLFDETEKAHPDIFNILLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKT	680
NTDB id	329	STU RS10020 WP 011225298.1	PGYVGYDEGGEELTEKVRNKPSVLLFDETEKAHPDIFNVLLQVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKT	680
consensus			!!!!!!*!*!*!*!?!*! *! !!!!!*!*!*!*!?!*! !!!!!!!!!*****?!*!	

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NTDB id	601	KW2	RS02615	WP	021036805.1	VGFGAAREG....RTKS	VLGQLGDFFSPEFMNRFDGIIIEFSALSKENLLKIVDLMDEVNEQIGRNDIHLSTVQA	AKEK	679				
NTDB id	378	SMU	RS02690	WP	002263569.1	VGFGASREG....RTNS	VLGELGNFFSPEFMNRFDGIIIEFQALSKDNLLQIVSLMLDDVNQRILAVNAIHLDVT	DKVKKEK	686				
NTDB id	241	SP	RS04015	WP	000882523.1	VGFGAAREG....RTNS	VLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKRLLSSNNIRL	DVTDKVKEK	685				
NTDB id	281	KZH43	RS03550	WP	000882517.1	VGFGAAREG....RTNS	VLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKRLLSSNNIRL	DVTDKVKEK	685				
NTDB id	245	SPD	RS03860	WP	000882517.1	VGFGAAREG....RTNS	VLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKRLLSSNNIRL	DVTDKVKEK	685				
NTDB id	243	SPR	RS03635	WP	000882517.1	VGFGAAREG....RTNS	VLGELGNFFSPEFMNRFDGIIIEFKALSKDNLLQIVELMLADVNKRLLSSNNIRL	DVTDKVKEK	685				
NTDB id	115300	BAMY6614	RS04160	WP	007410388.1	VGFNVQDESQNHKDMKD	KVMGELKRAFRPEFINRIDEIIVVFHLSLEKKHLTDIVSLMSDQLTKRLKEQDL	SIELTDAAKAK	750				
NTDB id	85	BSU	00860	NP	387967.1	VGFNVQDETQNHKDMKD	KVMGELKRAFRPEFINRIDEIIVVFHLSLEKKHLTEIVSLMSDQLTKRLKEQDL	SIELTDAAKAK	750				
NTDB id	610	V4T04	RS10165	WP	012897346.1	VGFGAKNITADYSAMKSRILE	EELKKHYRPEFLNRIDENIVFHSLSESQETEQIVKIMSCKLIKRLAEQDIHVKLTPSAVKL		759				
NTDB id	290	KZH43	RS10025	WP	001109677.1	VGFGAKDIRFDQENMEKRMFE	ELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGI	DLKLQASALKL	754				
NTDB id	289	SPD	RS10700	WP	001109677.1	VGFGAKDIRFDQENMEKRMFE	ELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLAEKGI	DLKLQASALKL	754				
NTDB id	287	SP	RS11210	WP	001109712.1	VGFGAKDIRFDQENMEKRMFE	ELKKAYRPEFINRIDEKVVFHSLSSDHMQEVVKIMVKPLVASLTEKGI	DLKLQASALKL	754				
NTDB id	377	SMU	RS09275	WP	002262344.1	VGFGAKSFSDYKAMESRILEE	LKKVYRPEFINRIDEKVVFNHLGQEDIRHIVKIMVAPLIAHLADQG	ITLKFPQSALKH	757				
NTDB id	297	STER	RS00545	WP	011680614.1	VGFGAQTIISHNHQAMQARIME	EELKKSYRPEFINRIDEKVVFHSLLEEQLHDI	IVKIMVKPLISALADKGISLKFQPAALKH	760				
NTDB id	329	STU	RS10020	WP	011225298.1	VGFGAQTIISHNHQAMQARIME	EELKKSYRPEFINRIDEKVVFHSLLEEQLHDI	IVKIMVKPLISALADKGISLKFQPAALKH	760				
consensus						!!!**	* **** *!*** **!!*!?!*!* ***! *	! * ** *!	*! *!*	*	* * * *	* * * *	*

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NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 115300 BAMY6614 RS04160 WP 007410388.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
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