

NTDB id 378	SMU RS02690 WP 002263569.1	MLCQNCKLNEA.....	11
NTDB id 281	KZH43 RS03550 WP 000882517.1	MLCQNCKINDS.....	11
NTDB id 245	SPD RS03860 WP 000882517.1	MLCQNCKINDS.....	11
NTDB id 243	SPR RS03635 WP 000882517.1	MLCQNCKINDS.....	11
NTDB id 241	SP RS04015 WP 000882523.1	MLCQNCKINDS.....	11
NTDB id 85	BSU 00860 NP 387967.1	..MMFGRFTERAQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGIAAKALQALGLGSEKIQKEVESLI.....GR	70
NTDB id 610	V4T04 RS10165 WP 012897346.1	MKFENIKYTPTIDRILEKAEYYAHQYQYGTIESAHLLAAMATTSGSIAYSLLAGMNVDSDDLII.....DLEDLSSH	72
NTDB id 33349	SP70585 RS11515 WP 001109692.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 290	KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 289	SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 287	SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNSHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id 377	SMU RS09275 WP 002262344.1	MTDYSLKMQEVFRLAQFEAAERFESSYLESWHVLLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAILAIGKKPKSSS	76
NTDB id 297	STER RS00545 WP 011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFLFTWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDL	76
NTDB id 329	STU RS10020 WP 011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFLFTWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETAAVLAMEKRPKDL	76
consensus		*** ** * * * **** * * * *	

NTDB id 378	SMU RS02690 WP 002263569.1	...TIHLYANVNGQKKQIDLC.....QNCYQIMKTDPENGLNHLISQ.....QNSSSINPFFDDFFGDLN	68
NTDB id 281	KZH43 RS03550 WP 000882517.1	...TIHLYTNLNGKQKKQIDLC.....QNCYKIITKTDPNNSLFGKMTD.....LNNRDFDP.FGDIFFNDLN	67
NTDB id 245	SPD RS03860 WP 000882517.1	...TIHLYTNLNGKQKKQIDLC.....QNCYKIITKTDPNNSLFGKMTD.....LNNRDFDP.FGDIFFNDLN	67
NTDB id 243	SPR RS03635 WP 000882517.1	...TIHLYTNLNGKQKKQIDLC.....QNCYKIITKTDPNNSLFGKMTD.....LNNRDFDP.FGDIFFNDLN	67
NTDB id 241	SP RS04015 WP 000882523.1	...TIHLYTNLNGKQKKQIDLC.....QNCYKIITKTDPNNSLFGKMTD.....LNNRDFDP.FGDIFFNDLN	67
NTDB id 85	BSU 00860 NP 387967.1	GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYVGTEHILLGLIRE.G.EGVAARVLNNLGVSLNKARQQVLQL.....	141
NTDB id 610	V4T04 RS10165 WP 012897346.1	VKVKRSTLRFSPRAFEVMTAASFIAIHNNSEAVGTEHLLYALLQV.E.DGFGQLLLKL.....QKINIVSLRKELE	141
NTDB id 33349	SP70585 RS11515 WP 001109692.1	QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHD.G.NALATRILERAGFSYEDKKDQVKIAALRRNLE	148
NTDB id 290	KZH43 RS10025 WP 001109677.1	QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHD.G.NALATRILERAGFSYEDKKDQVKIAALRRNLE	148
NTDB id 289	SPD RS10700 WP 001109677.1	QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHD.G.NALATRILERAGFSYEDKKDQVKIAALRRNLE	148
NTDB id 287	SP RS11210 WP 001109712.1	QDETFTELPFSRRLQVLFDEAEYVASVVHAKVLGTEHVLYAILHD.S.NALATRILERAGFSYEDKKDQVKIAALRRNLE	148
NTDB id 377	SMU RS09275 WP 002262344.1	N..DJMLECSHALKRTIAEAAAIISQVTHAKEVGTEHVLFAMLLN.P.NLLATRILELVGFHAKDDGESIRILLDLRKVIE	152
NTDB id 297	STER RS00545 WP 011680614.1	ESDIIDLRAQSPALEAMLQEAQEIASVTGAVEVGESEHVLMFAFLH.K.DLMVCRLLLEVAGFQYKDDSDKPRIIDLRSSLE	154
NTDB id 329	STU RS10020 WP 011225298.1	ESDIIDLRAQSPALEAMLQEAQGIASVTGAVEVGESEHVLMFAFLH.K.DLMVCRLLLEVAGFQYKDDSDKPRIIDLRSSLE	154
consensus		*** ** **** * **** * **** ***** ***** * **** * **** * *	

NTDB id	378	SMU RS02690 WP 002263569.1	NFRFANNQDLPN.TPPTQAGGGNGNGGN.N.RRPGGPQQQASQKPNGLLEEFGINLTDIARKGEIDPVIGRDEEITRVIE	145
NTDB id	281	KZH43 RS03550 WP 000882517.1	NFRPSSN..TPP.ITPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLEEFGINVTEIARRGIDDPVIGRDDEIIRVIE	144
NTDB id	245	SPD RS03860 WP 000882517.1	NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLEEFGINVTEIARRGIDDPVIGRDDEIIRVIE	144
NTDB id	243	SPR RS03635 WP 000882517.1	NFRPSSN..TPP.IPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLEEFGINVTEIARRGIDDPVIGRDDEIIRVIE	144
NTDB id	241	SP RS04015 WP 000882523.1	NFRPSSN..TPP.ITPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLEEFGINVTEIARRGIDDPVIGRDDEIIRVIE	144
NTDB id	85	BSU 00860 NP 387967.1	..LGSNET.....GSSAAGTNSNANTPTLDLARDLTAIAKEDSLDPVIGRSKEIQRVIE	194
NTDB id	610	V4T04 RS10165 WP 012897346.1	KRTCLKVPESKKAVTPMSKRKM.....AKG.....VAENSTTPTLDSVSSDLTEEARLGKLDPMIGREAEIDRLIH	207
NTDB id	33349	SP70585 RS11515 WP 001109692.1	ERAGWTREDLKA.LRQRHRTV.....ADKQNSMAHHMMGMPQTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQ	220
NTDB id	290	KZH43 RS10025 WP 001109677.1	ERAGWTREDLKA.LRQRHRTV.....ADKQNSMANMMGMPTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQ	220
NTDB id	289	SPD RS10700 WP 001109677.1	ERAGWTREDLKA.LRQRHRTV.....ADKQNSMANMMGMPTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQ	220
NTDB id	287	SP RS11210 WP 001109712.1	ERAGWTREDLKA.LRQRHRTV.....ADKQNSMANMMGMPTPSGGLEDYTHDLTEQARSCKLEPVIGRDKEISRMIIQ	220
NTDB id	377	SMU RS09275 WP 002262344.1	RYAGFSKEDIKA.IFEMRKPKK.....VKNSSSFSDLMKPP.SVTGELADFTRDLTELARQGRLEPVIGREQEISRMVQ	224
NTDB id	297	STER RS00545 WP 011680614.1	RNAGLSKQDLKA.IHDLRKPKK.....SKASANFANMMQPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIIQ	227
NTDB id	329	STU RS10020 WP 011225298.1	RNAGLSKQDLKA.IHDLRKPKK.....SKASANFANMMQPQSSTGELADYTKDLTALAESGNLDPVIGRDEEISRMIIQ	227
consensus			* * * * *	

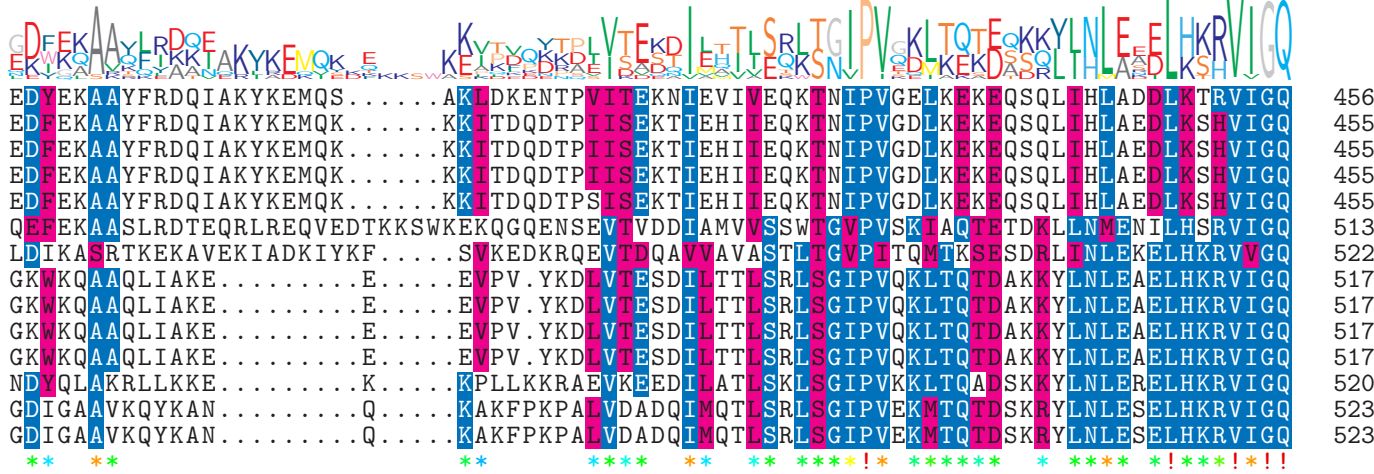
NTDB id	378	SMU RS02690 WP 002263569.1	ILNRRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLHGKNVIRLDDVSLVQGTTGIRGQFEERMQKLMEEIRQRQDV	225
NTDB id	281	KZH43 RS03550 WP 000882517.1	ILNRRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLGGKKQVIRLDVVSLVQGTTGIRGQFEERMQKLMEEIRKREDI	224
NTDB id	245	SPD RS03860 WP 000882517.1	ILNRRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLGGKKQVIRLDVVSLVQGTTGIRGQFEERMQKLMEEIRKREDI	224
NTDB id	243	SPR RS03635 WP 000882517.1	ILNRRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLGGKKQVIRLDVVSLVQGTTGIRGQFEERMQKLMEEIRKREDI	224
NTDB id	241	SP RS04015 WP 000882523.1	ILNRRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLGGKKQVIRLDVVSLVQGTTGIRGQFEERMQKLMEEIRKREDI	224
NTDB id	85	BSU 00860 NP 387967.1	VLSRRTKNNPVLIGEPGVGKTAVAEGLAQQIIINNEVPEILRDKRVMTMDMGTVVAGTKYRGEFEDRLKKVMDEIRQAQNI	274
NTDB id	610	V4T04 RS10165 WP 012897346.1	ILSRRTKNNPVLVGEPGVGKSATIEGLAQRIVNGQVPIGLMNSRIMALNMATVVAGTKFRGEFEDRLTAIVEEVSSDPDV	287
NTDB id	33349	SP70585 RS11515 WP 001109692.1	ILSRKTNNNPVLVGDAVGVKTAALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQV	300
NTDB id	290	KZH43 RS10025 WP 001109677.1	ILSRKTNNNPVLVGDAVGVKTAALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQV	300
NTDB id	289	SPD RS10700 WP 001109677.1	ILSRKTNNNPVLVGDAVGVKTAALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQV	300
NTDB id	287	SP RS11210 WP 001109712.1	ILSRKTNNNPVLVGDAVGVKTAALGLAQRIASGDVPAEMAKMRVLELDLMNVVAGTRFRGDFEERMNNIIKDIEEDGQV	300
NTDB id	377	SMU RS09275 WP 002262344.1	ILSRKTNNNPVLVGDAVGVKTAAYGLAQRIVDSAVPFELADMKVLELDMMSSVAGTRFRGDFEERMNQIIDADIEADGHI	304
NTDB id	297	STER RS00545 WP 011680614.1	VLSRKTNNNPVLVGEAGVGKTAALGLAQRIASGEVPFELADMRIILELDMMSSVAGTRFRGDFEERMNQIIDIEIADGKI	307
NTDB id	329	STU RS10020 WP 011225298.1	VLSRKTNNNPVLVGEAGVGKTAALGLAQRIASGEVPFELADMRIILELDMMSSVAGTRFRGDFEERMNQIIDIEIADGKI	307
consensus			*!***!!***** * !!!!!*!* !!**** * **** !*****!!*****!!** * *	

NTDB id 378	SMU RS02690 WP 002263569.1	ILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVGATTLNEYR.IIEKDAALERMMQPVK	VDEPSVAETITILKG	304			
NTDB id 281	KZH43 RS03550 WP 000882517.1	ILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVGATTLNEYR.IIEKDAALERMMQPVK	VDEPTVDETITILKG	303			
NTDB id 245	SPD RS03860 WP 000882517.1	ILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVGATTLNEYR.IIEKDAALERMMQPVK	VDEPTVDETITILKG	303			
NTDB id 243	SPR RS03635 WP 000882517.1	ILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVGATTLNEYR.IIEKDAALERMMQPVK	VDEPTVDETITILKG	303			
NTDB id 241	SP RS04015 WP 000882523.1	ILFIDELTHEIVGAGSAGDGNMDAGNILKPALARGE	LQLVGATTLNEYR.IIEKDAALERMMQPVK	VDEPTVDETITILKG	303			
NTDB id 85	BSU 00860 NP 387967.1	ILFIDELHTLIGAGG.AEGAIDASNILKPSLARGE	LQCIGATTLDEYRKYIEKDAALERRFQPI	QVDQPSVDESIIQLQG	353			
NTDB id 610	V4T04 RS10165 WP 012897346.1	ILFIDELHTIIGAGGGMDSVMDAANILKPALARG	DFQMVGATTYHEYQKYIEKDEALERLLARIN	VDEPSPDEAIIAILQG	367			
NTDB id 33349	SP70585 RS11515 WP 001109692.1	ILFIDELHTIMSGSGIDSTLDAANILKPALARGT	LRTVGATTQEEYQKHIEKDAALSRRFAKVT	IEEPSVADSMITILQG	380			
NTDB id 290	KZH43 RS10025 WP 001109677.1	ILFIDELHTIMSGSGIDSTLDAANILKPALARGT	LRTVGATTQEEYQKHIEKDAALSRRFAKVT	IEEPSVADSMITILQG	380			
NTDB id 289	SPD RS10700 WP 001109677.1	ILFIDELHTIMSGSGIDSTLDAANILKPALARGT	LRTVGATTQEEYQKHIEKDAALSRRFAKVT	IEEPSVADSMITILQG	380			
NTDB id 287	SP RS11210 WP 001109712.1	ILFIDELHTIMSGSGIDSTLDAANILKPALARGT	LRTVGATTQEEYQKHIEKDAALSRRFAKVT	IEEPSVADSMITILQG	380			
NTDB id 377	SMU RS09275 WP 002262344.1	VLFIDELHTIMSGSGIDSTLDAANILKPALARGS	LRITIGATTQEEYQKHIEKDAALSRRFAKVT	IEEPSVEEAYQILLG	384			
NTDB id 297	STER RS00545 WP 011680614.1	ILFIDELHTIIGSGSIDSTLDAANILKPALARGT	LHLMVGATTQAEYQKHIEKDAALSRRFAKIT	IEEPSVSEADIDILNG	387			
NTDB id 329	STU RS10020 WP 011225298.1	ILFIDELHTIIGSGSIDSTLDAANILKPALARGT	LHLMVGATTQAEYQKHIEKDAALSRRFAKIT	IEEPSVSEADIDILNG	387			
consensus		***!!!!*!***!!	!***** *!***!!*!!*!!*!!*!!	* ****!!!	!!**!!!!*!!	!!*****	*****	*****!!*!

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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	241	SP	RS04015	WP	000882523.1
NTDB	id	85	BSU	00860	NP	387967.1
NTDB	id	610	V4T04	RS10165	WP	012897346.1
NTDB	id	33349	SP70585	RS11515	WP	001109692.1
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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consensus						

