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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MEINQYLDGMLTHKASDLYITVVGAPILYRVDGELRAQGE.ALSVADVTTALLHAMMDARQAEEFKQTREAN	69
NTDB id 385901 FOT12 RS01785 WP 003704392.1	MFTDENMTAKEELFAWLHRHMNKNGSDFLVTTHFPAMKLDGKITRITDEPLTAEKCMETAFSIMSAKQAEFSSSTNECN	80
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPTSPEMTRETIVHGVMMNEQQRREFTENHECN	70
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIIETHECN	70
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITLAAGLPQFKLSGDYDAQGFEP LSASDTRKLMYSMMNERQQRIFEEREKRELD	74
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMMRRINLPESAAEEVGNMVTSMVNDHQRKIYQQNLEVD	70
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKKNSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETD	70
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKKNSSDLHISAGMPPMIRVDGDLRKINLPPLEHKDVIKIIYDIMNDRQRKEYEEFFETD	70
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFEEFLETD	70
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETD	70
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNRASDLHLSAGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRRDYEEKLETD	70
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALAHKDVHRLVYDIMNDKQRRDYEEKLETD	70
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALAHKDVHRLVYDIMNDKQRRDYEEKLETD	70
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALAHKDVHRLVYDIMNDKQRRDYEEKLETD	70
consensus	*****!***** *!!*****!*****!*****!*****!*****!*****!*****!*****!*****	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	FAVVRD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQ	147
NTDB id 385901 FOT12 RS01785 WP 003704392.1	FAISLPD.TSRFRVNAMIQRGATALVFRAITSKIPKFESLNLPPALKDVALKKRGLVIFVGGTSGSKSTSLASLIDYRNE	159
NTDB id 1203 PSJM300 01605 AFN76401.1	FAISARG.IGRFRVSFAFYQRNLAGMVLRRRIETNIPTIEDLKLDPVLKKLALTKRGLVLFVGATGTGKSTSLAAMIYGRNQ	149
NTDB id 1019 ACIAD RS04205 WP 004922051.1	FAILNREKNERFRVSAFYQRDMPGMVIIRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQ	150
NTDB id 1307 DR RS10055 WP 010888596.1	FSFALGD.KARFRVNAFMQRGNVGVMLRIPTTVRTTAEMLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINT	153
NTDB id 1086 NMV RS00245 WP 002218487.1	FSFELPN.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINE	149
NTDB id 1283 ACE17W RS02630 WP 010947729.1	FSFEIAN.LARFRVNAFNQSRGA AAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS	149
NTDB id 1259 GC085 RS10305 WP 010947729.1	FSFEIAN.LARFRVNAFNQSRGA AAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS	149
NTDB id 1194 PAKAF RS01995 WP 003084552.1	FSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRVS DVPRLGLVLVTGPTGSGKSTTLAAMDYINN	149
NTDB id 1202 PSJM300 01600 AFN76400.1	FSFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFKRITDVPRLGLVLVTGPTGSGKSTTLAAMDYINN	149
NTDB id 1020 ACIAD RS04210 WP 011182164.1	FSFEVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDCDYPRGLVLVTGPTGSGKSTTLAAMDYINN	149
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDCDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
NTDB id 1060 ABD1 RS04380 WP 000355489.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDCDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
NTDB id 1040 HON27 RS13360 WP 000355489.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDCDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
consensus	!***** *!!!!!!***** *****!*****!*****!*****!*****!*****!*****!*****!*****!	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	HRTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLH	227
NTDB id 385901 FOT12 RS01785 WP 003704392.1	NSFGHIITIEDPIEFVHEHKNCIITQREVGVDTENWMAALKNTLRQAPDVLIGEIRDRETM DYAI AFAETGHLCMATLH	239
NTDB id 1203 PSJM300 01605 AFN76401.1	NSSGHIISIEDPIEFIHQHQCIVTQREVGIDTDSFEVALKNTLRQAPDVLIGEVRTRETM DHA V AFAETGHLCLATLH	229
NTDB id 1019 ACIAD RS04205 WP 004922051.1	HSKGHIITIEDPIEFIEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVLIGEIRSREVM DYAL AFAETGHLVFA TLH	230
NTDB id 1307 DR RS10055 WP 010888596.1	TKKLHILTIEDPIEFVHKNACIINQREVGSDTLSFDDALRALRQAPDVLIVGEMRDYETIKAAVTA AETGHLVMTGLH	233
NTDB id 1086 NMV RS00245 WP 002218487.1	TQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGE MRDPETIGLALTA AETGHLVFGTLH	229
NTDB id 1283 ACE17W RS02630 WP 010947729.1	SRYEHIITVEDPIEFVHQSKKCLVNQREVHKDTLSFNAAALRSALREDPDIILVGE LRDLETIRLAM TAAETGHLVFGTLH	229
NTDB id 1259 GC085 RS10305 WP 010947729.1	SRYEHIITVEDPIEFVHQSKKCLVNQREVHKDTLSFNAAALRSALREDPDIILVGE LRDLETIRLAM TAAETGHLVFGTLH	229
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGE MRDLETIRLALTA AETGHLVFGTLH	229
NTDB id 1202 PSJM300 01600 AFN76400.1	TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGE MRDLETIRLALTA AETGHLVFGTLH	229
NTDB id 1020 ACIAD RS04210 WP 011182164.1	HRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGE MRDLETIRLALTA AETGHLVFGTLH	229
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGE MRDLETIRLALTA AETGHLVFGTLH	229
NTDB id 1060 ABD1 RS04380 WP 000355489.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGE MRDLETIRLALTA AETGHLVFGTLH	229
NTDB id 1040 HON27 RS13360 WP 000355489.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGE MRDLETIRLALTA AETGHLVFGTLH	229
consensus	* * !*****!!!!!! * *****!*****! * !*****!!!!!! * !*****!*****!*****!*****!*****!	

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NTDB	id	1177	A1552VC	RS01165	WP	000422572.1
NTDB	id	385901	FOT12	RS01785	WP	003704392.1
NTDB	id	1203	PSJM300	01605	AFN76401.1	
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1
NTDB	id	1307	DR	RS10055	WP	010888596.1
NTDB	id	1086	NMV	RS00245	WP	002218487.1
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1
NTDB	id	1259	GC085	RS10305	WP	010947729.1
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1
NTDB	id	1202	PSJM300	01600	AFN76400.1	
NTDB	id	1020	ACIAD	RS04210	WP	011182164.1
NTDB	id	1081	FDQ49	RS05335	WP	006581387.1
NTDB	id	1060	ABD1	RS04380	WP	000355489.1
NTDB	id	1040	HON27	RS13360	WP	000355489.1
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NTDB	id	1203	PSJM300	01605	AFN76401.1	
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1
NTDB	id	1307	DR	RS10055	WP	010888596.1
NTDB	id	1086	NMV	RS00245	WP	002218487.1
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1
NTDB	id	1259	GC085	RS10305	WP	010947729.1
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1
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NTDB	id	1020	ACIAD	RS04210	WP	011182164.1
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NTDB	id	1060	ABD1	RS04380	WP	000355489.1
NTDB	id	1040	HON27	RS13360	WP	000355489.1
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NTDB	id	385901	FOT12	RS01785	WP	003704392.1
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NTDB	id	1019	ACIAD	RS04205	WP	004922051.1
NTDB	id	1307	DR	RS10055	WP	010888596.1
NTDB	id	1086	NMV	RS00245	WP	002218487.1
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NTDB	id	1202	PSJM300	01600	AFN76400.1	
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NTDB	id	1060	ABD1	RS04380	WP	000355489.1
NTDB	id	1040	HON27	RS13360	WP	000355489.1
consensus						



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 non conserved
 similar
 $\geq 50\%$ conserved