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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MEINQYLDGMLTHKASDLYITVVGAPILYRVDGELRAQGE.ALSVADVTTALLHAMMDARQAEEFKQTREAN	69
NTDB id 27230 NMC RS03855 WP 002221204.1	MFTDENMTAKEELFAWLHRHMNQNGSDFLVTTHFPAMKLDGKITRITDEPLTAEKCMETAFSIMSAKQAEESSTNECN	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	MTSGIDITDILRLAADKGASDITLAAGLPPQFKLSGDYDAQGFEP 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	MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLEHKQVHALIYDIMNDKQRKDFFEEFLETD	70
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFFEEFLETD	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..SGRFRVSFAFFQRELPGAVIRRIETRIPTFEELKLPVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGVRNQ	147
NTDB id 27230 NMC RS03855 WP 002221204.1	FAISLPD.TSRFRVNAMIQRGATALVFRAITSKIPKFESLNLPPVLKDVALKKRGLVIFVGGTSGSKSTSLASLIDYRNE	159
NTDB id 1203 PSJM300 01605 AFN76401.1	FAISARG.IGRFRVSFAFYQRNLAGMVLRRIEITNIPTIEDLKLPPVLKKLALTKRGLVLFVGATGTGKSTSLAAMIYGRNQ	149
NTDB id 1019 ACIAD RS04205 WP 004922051.1	FAILNREKNERFRVSAFQQRDMPGMIIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQ	150
NTDB id 1307 DR RS10055 WP 010888596.1	FSFALGD.KARFRVNAFMQRGVNGVMRLIPTTVRTTAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINT	153
NTDB id 1086 NMV RS00245 WP 002218487.1	FSFELPN.VARFRVNAFNIGRGAFAVFRTIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINE	149
NTDB id 1283 ACE17W RS02630 WP 010947729.1	FSFEIAN.LARFRVNAFNQSRGAFAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS	149
NTDB id 1259 GC085 RS10305 WP 010947729.1	FSFEIAN.LARFRVNAFNQSRGAFAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINS	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.LARFRVNQNRGAGAVFRTIPSKVLTLEELGLGKIFRDI CDYPRGLVLVTGPTGSGKSTTLAAMDYINN	149
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDI CDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
NTDB id 1060 ABD1 RS04380 WP 000355489.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDI CDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
NTDB id 1040 HON27 RS13360 WP 000355489.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDI CDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
consensus	!***** *!!!!!!***** *****!*****!*****!*****!*****!*****!*****!*****!*****!	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	HRTGHILTVEDPIEFVHEHKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRETMEYAMTFAETGHLCMATLH	227
NTDB id 27230 NMC RS03855 WP 002221204.1	NSFGHIITIEDPIEFVHEHKNCIITQREVGVDTENWMAALKNTLRQAPDVLIGEIRDRETMDYAIAFAETGHLCMATLH	239
NTDB id 1203 PSJM300 01605 AFN76401.1	NSSGHIISIEDPIEFIHQHQCIVTQREVGIDTDSFEVALKNTLRQAPDVLIGEVRTRETMDHAVAFETGHLCLATLH	229
NTDB id 1019 ACIAD RS04205 WP 004922051.1	HSKGHIITIEDPIEFIEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVLIGEIRSREVMYALAFATAETGHLVATLH	230
NTDB id 1307 DR RS10055 WP 010888596.1	TKKLHILTIEDPIEFMHPNKASIIINQREVGSDTLSFDDALRALRQAPDVLIVGEMRDYETIKAAVTAETGHLVMTGLH	233
NTDB id 1086 NMV RS00245 WP 002218487.1	TQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEEMRDPETIGLALTAETGHLVFGTLH	229
NTDB id 1283 ACE17W RS02630 WP 010947729.1	SRYEHIILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGEIRDLETIRLAMTAAETGHLVFGTLH	229
NTDB id 1259 GC085 RS10305 WP 010947729.1	SRYEHIILTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGEIRDLETIRLAMTAAETGHLVFGTLH	229
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1202 PSJM300 01600 AFN76400.1	TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1020 ACIAD RS04210 WP 011182164.1	HRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1060 ABD1 RS04380 WP 000355489.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1040 HON27 RS13360 WP 000355489.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTHGFNEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
consensus	*!!*****!!!!!!***** *****!*****!*****!*****!*****!*****!*****!*****!*****!	

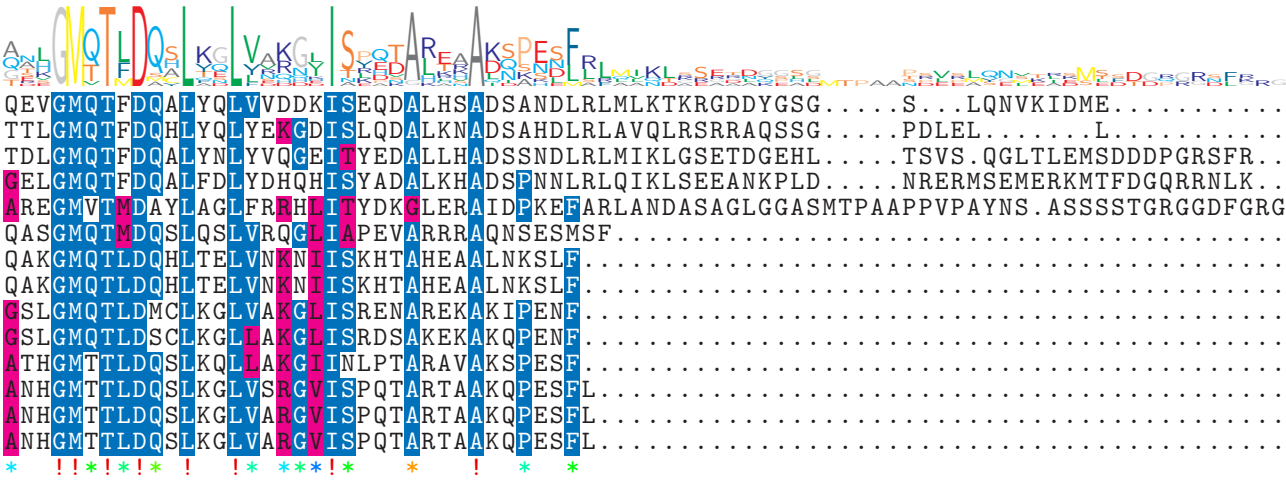
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NTDB	id	1177	A1552VC	RS01165	WP	000422572.1
NTDB	id	27230	NMC	RS03855	WP	002221204.1
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NTDB	id	1019	ACIAD	RS04205	WP	004922051.1
NTDB	id	1307	DR	RS10055	WP	010888596.1
NTDB	id	1086	NMV	RS00245	WP	002218487.1
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	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	1086	NMV	RS00245	WP	002218487.1
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NTDB	id	1060	ABD1	RS04380	WP	000355489.1
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NTDB	id	1060	ABD1	RS04380	WP	000355489.1
NTDB	id	1040	HON27	RS13360	WP	000355489.1
consensus						



 non conserved
 similar
 $\geq 50\%$ conserved