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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MEINQYLDGMLTHKASDLYITVVGAPILYRVDGELRAQGEA.LSVADVTTALLHAMMDARQAEEFKQTREAN	69
NTDB id 39074 NLA RS07610 WP 042508370.1	MFTDENMTAKEELFAWLHRHMNKNGSDFLVTTHFPAMKLDGKITRITDTPLTAEKCMETAFSIMSAKQAEESSTNECN	80
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGVPPSMKVNGKILPVNKTPTSPEMTRETIVHGVMMNEQQRREFTENHECN	70
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMIAQLIDSITTQKQRQEFIIETHECN	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	MDIAELLAFSVKKNSSDLHISAGMPPMIRVDGDLRKINLPPLLEHKDVIKIIYDIMNDRQRKEYEEFFETD	70
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKKNSSDLHISAGMPPMIRVDGDLRKINLPPLLEHKDVIKIIYDIMNDRQRKEYEEFFETD	70
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGASDLHLSAGLPPMIRVDGDVRRINLPPLLEHKQVHALIYDIMNDKQRKDFEEFLETD	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	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALLEHKDVHRLVYDIMNDKQRRDYEEKLETD	70
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALLEHKDVHRLVYDIMNDKQRRDYEEKLETD	70
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAGMPPMIRVDGEVRRINLPALLEHKDVHRLVYDIMNDKQRRDYEEKLETD	70
consensus	*****!***** *!!*****!*****!*****!*****!*****!*****!*****!*****	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	FAVVRD..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGVRNQ	147
NTDB id 39074 NLA RS07610 WP 042508370.1	FAISLPD.TSRFRVNAMIQRGATALVFRAITSKIPKFESLNLPPVLKDVALKKRGLVIFVGGTSGSKSTSLASLIDYRNE	159
NTDB id 1203 PSJM300 01605 AFN76401.1	FAISARG.IGRFRVSFAFYQRNLAGMVLRRIEITNPTIEDLKLPPVLKKLALTKRGLVLFVGATGTGKSTSLAAMIYGRNQ	149
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NTDB id 1307 DR RS10055 WP 010888596.1	FSFALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTTAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINT	153
NTDB id 1086 NMV RS00245 WP 002218487.1	FSFELPN.VARFRVNAFNIGRGAFAVFRITIPSTVLSLEELKAPSIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINE	149
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NTDB id 1194 PAKAF RS01995 WP 003084552.1	FSFEVPG.VARFRVNAFNQNRGAGAVFRITIPSKVLTMEELGMGEVFKRVS DVPRLVLVTGPTGSGKSTTLAAMDYINN	149
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NTDB id 1020 ACIAD RS04210 WP 011182164.1	FSFEVPN.LARFRVNVFNQNRGAGAVFRITIPSKVLTLEELGLGKIFRDCDYPRGLVLVTGPTGSGKSTTLAAMDYINN	149
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NTDB id 1060 ABD1 RS04380 WP 000355489.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRITIPSKVLTMEDLGLGQIFKDCDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
NTDB id 1040 HON27 RS13360 WP 000355489.1	FSFEVPN.VARFRVNAFNQNRGAGAVFRITIPSKVLTMEDLGLGQIFKDCDYPRGIVLVTGPTGSGKSTTLAAMDYINE	149
consensus	!***** *!!!!!!***** *****!*****!*****!*****!*****!*****!*****!*****!	

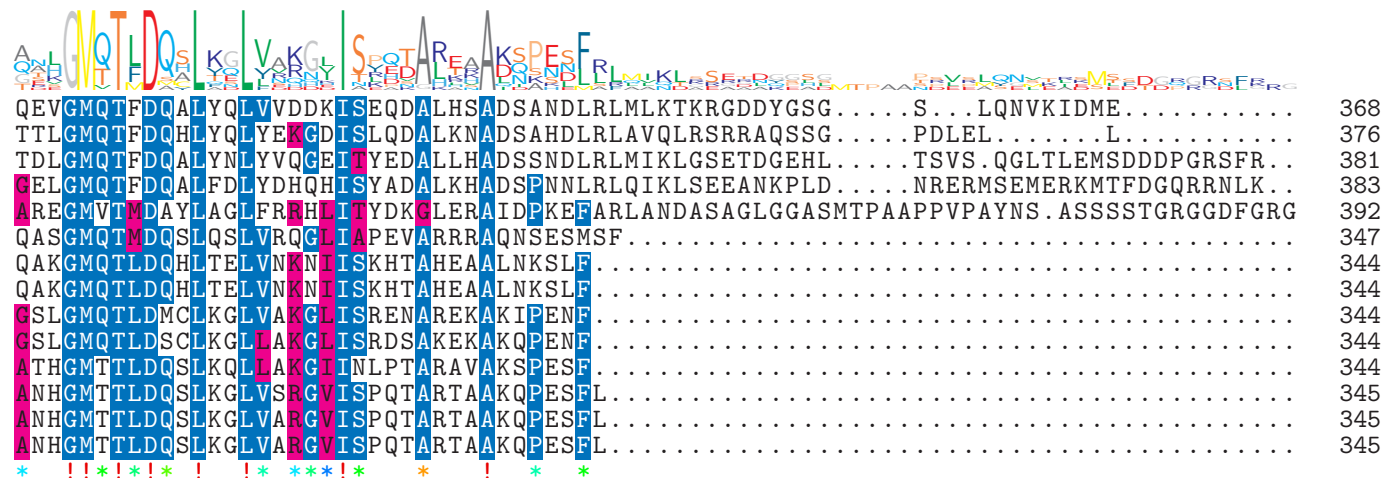
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NTDB id 39074 NLA RS07610 WP 042508370.1	NSFGHIITIEDPIEFVHEHKNCIITQREVGVDTENWMAALKNTLRQAPDVLIGEIRDRETMDYAIAFAETGHLCMATLH	239
NTDB id 1203 PSJM300 01605 AFN76401.1	NSSGHIISIEDPIEFIHQHQCIVTQREVGIDTDSFEVALKNTLRQAPDVLIGEVRTRETMDHAVAFETGHLCLATLH	229
NTDB id 1019 ACIAD RS04205 WP 004922051.1	HSKGHIITIEDPIEFIEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVLIGEIRSREVMYALAFATGHLVFAATLH	230
NTDB id 1307 DR RS10055 WP 010888596.1	TKKLHILTIEDPIEFMHPNKASCIINQREVGSDTLSFDDALRALRQAPDVLIVGEMRDYETIKAAVTAETGHLVFMGTLH	233
NTDB id 1086 NMV RS00245 WP 002218487.1	TQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEEMRDPETIGLALTAETGHLVFGTLH	229
NTDB id 1283 ACE17W RS02630 WP 010947729.1	SRYEHIITVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGEIRDLETIRLAMTAAETGHLVFGTLH	229
NTDB id 1259 GC085 RS10305 WP 010947729.1	SRYEHIITVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGEIRDLETIRLAMTAAETGHLVFGTLH	229
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NTDB id 1060 ABD1 RS04380 WP 000355489.1	NRYPHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1040 HON27 RS13360 WP 000355489.1	NRYPHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGEEMRDLETIRLALTAETGHLVFGTLH	229
consensus	* * !*****!!!!!! * *****!*****! * !*****!*****!*****!*****!*****!*****!	

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NTDB id 39074 NLA RS07610 WP 042508370.1
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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 GCO85 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
consensus

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NTDB id 39074 NLA RS07610 WP 042508370.1
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NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus

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NTDB id 1177 A1552VC RS01165 WP 000422572.1		368
NTDB id 39074 NLA RS07610 WP 042508370.1		376
NTDB id 1203 PSJM300 01605 AFN76401.1		38
NTDB id 1019 ACIAD RS04205 WP 004922051.1		383
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NTDB id 1081 FDQ49 RS05335 WP 006581387.1		345
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consensus		

 non conserved
 similar
 $\geq 50\%$ conserved