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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MEINQYLDGMLTHKASDLYITVVGAPILYRVDGELRAQGE.ALSVADVTTALLHAMMDARQAEEFKQTREAN	69
NTDB id 218731 B2G52 RS05905 WP 002255012.1	MFTDENMTAKEELFAWLHRHMNKNGSDFVTTTHFPAMKLDGKITRITDEPLTAEKCMETAFSIMSAKQAEFSSSTNECN	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	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMMRRINLPMSAEVGVNMMVTSVMNDHQRKIYQQNLEVD	70
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAGMPPMIRVDGDLRKINLPPLLEHKDVIKIITYDIMNDRQRKEYEEFFETD	70
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAGMPPMIRVDGDLRKINLPPLLEHKDVIKIITYDIMNDRQRKEYEEFFETD	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..SGRFRVSFAFFQRELPGAVIRRIETRIPTFEELKLPVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQ	147
NTDB id 218731 B2G52 RS05905 WP 002255012.1	FAISLPD.TSRFRVNAMIQRGATALVFRAITSKIPKFESLNLPPVLKDVALKKRGLVIFVGGTSGSKSTSLASLIDYRNE	159
NTDB id 1203 PSJM300 01605 AFN76401.1	FAISARG.IGRFRVSFAFYQRNLAGMVLRRRIETIPTIEDLKLPPVLKKLALTKRGLVLFVGATGTGKSTSLAAMIYGRNQ	149
NTDB id 1019 ACIAD RS04205 WP 004922051.1	FAILNREKNERFRVSAFQQRDMPGMMVIRRIETKIPSPDDLHLPLILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQ	150
NTDB id 1307 DR RS10055 WP 010888596.1	FSFALGD.KARFRVNAFMQRGNVGGVMRLIPTTVRTTAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMIDHINT	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.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 218731 B2G52 RS05905 WP 002255012.1	NSFGHIITIEDPIEFVHEHKNCIITQREVGVDTENWMAALKNTLRQAPDVLIGEIRDRETMDYAIAFAETGHLCMATLH	239
NTDB id 1203 PSJM300 01605 AFN76401.1	NSSGHIISIEDPIEFIHQHQCIVTQREVGIDTDSFEVALKNTLRQAPDVLIGEVRTRETMDHAVAFETGHLCLATLH	229
NTDB id 1019 ACIAD RS04205 WP 004922051.1	HSKGHIITIEDPIEFIEHAGCIITQREVGIDTDSFEIALKNTLRQAPDVLIGEIRSREVMYALAFETGHLVFAATLH	230
NTDB id 1307 DR RS10055 WP 010888596.1	TKKLHILTIEDPIEFMHPNKASIIINQREVGSDTLSFDDALRALRQAPDVLIVGEMRDYETIKAAVTAETGHLVFMGTLH	233
NTDB id 1086 NMV RS00245 WP 002218487.1	TQPAHILTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGE MRDPETIGLALTAETGHLVFGTLH	229
NTDB id 1283 ACE17W RS02630 WP 010947729.1	SRYEHIITVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGE LRDLETIRLAMTAAETGHLVFGTLH	229
NTDB id 1259 GC085 RS10305 WP 010947729.1	SRYEHIITVEDPIEFVHQSKKCLVNQREVHKDTLSFNAALRSALREDPDIILVGE LRDLETIRLAMTAAETGHLVFGTLH	229
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGE MRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1202 PSJM300 01600 AFN76400.1	TKYHHILTIEDPIEFVHESKKCLVNQREVHRDTLGFSEALRSALREDPDIILVGE MRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1020 ACIAD RS04210 WP 011182164.1	HRYDHILTVEDPIEFVHEPKKCLINQREVHRDTLGFNEALRSALREDPDIILVGE MRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGE MRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1060 ABD1 RS04380 WP 000355489.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGE MRDLETIRLALTAETGHLVFGTLH	229
NTDB id 1040 HON27 RS13360 WP 000355489.1	NRYDHILTVEDPIEFVHQSKKCLINQREVHRDTLGFNEALRSALREDPDIILVGE MRDLETIRLALTAETGHLVFGTLH	229
consensus	* * !*****!!!!!! * *****!*****!*****!*****!*****!*****!*****!*****!*****!	

 non conserved
 similar
 $\geq 50\%$ conserved