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NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKASDIIILAAGLPPQFKISGDYDAQGFEPISASDTRKLMYSMMNERQQRIFEEKRELDDFSFAIG	80
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPPEMSAEVGNMVTSMVNDHQKRIYQQNLEVDDFSFLP	76
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSGISPMIRVHGDMRRINLPPEMSAEVGNMVTSMVNDHQKRIYQQNLEVDDFSFLP	76
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLASGVPPMVRIDGEVRKLGVPFAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDDFSFLP	76
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLASGVPPMVRIDGEVRKLGVPFAFTHSDVHRLIFEIMNDAQRSEYEEKLEVDDFSFLP	76
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKKNSSDLHISAGMPPMIRVDGDLRKINLPPLLEHKDVIIYDIMNDRQRKEYEEFFETDDFSFEIA	76
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKKNSSDLHISAGMPPMIRVDGDLRKINLPPLLEHKDVIIYDIMNDRQRKEYEEFFETDDFSFEIA	76
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGASDLHLASGLPPMIRVDGDVRRINLPPLLEHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP	76
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGASDLHLASGLPPMIRVDGDVRRINLPAMDHKQVHALIYDIMNDKQRKDFEEFLETDFSFEVP	76
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNRASDLHLASGIPPMIRVDGEVRRINLPAMDHSEVHNLIYDIMNDKQRDDYEEKLETDFSFEVP	76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLASGMPPMIRVDGEVRRINLPALAHKDVHRLVYDIMNDKQRDDYEEKLETDFSFEVP	76
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLASGMPPMIRVDGEVRRINLPALAHKDVHRLVYDIMNDKQRDDYEEKLETDFSFEVP	76
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLASGMPPMIRVDGEVRRINLPALAHKDVHRLVYDIMNDKQRDDYEEKLETDFSFEVP	76
NTDB id 43678 LP12 RS11525 WP 010948029.1	MDITPFFKLMVDKASDLFFSVGAPPNIKIEGITSPIGQVPIKSNQMAEIVLSIMNDAQKKEFESKMELNMAFSLA	76
NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGAPILYRVDGELRAQGEAL.SVADVTALLHAMMDARQAEFKQTREANFAVVRD	75
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGSGLFITAGVPPSMKVNGKILPVNKTTPMSPETRETVHGMNEQQRREFTENHECNFAISAR	76
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGVEPSLKINGEITPVSKTKLDGDMTAQLIDSITTQKQRQEFITHECNFAILNR	76
consensus	***** *!*****!*****!***** * * * ***** *!*****	

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NTDB id 1307 DR RS10055 WP 010888596.1	NVARFRVNAFNRGAGAVERTPSYLTEDLGLPIFKKLAIRGLVLVTGPTGSGKSTTLAAMDYINTRYHI	159
NTDB id 1116 NGFG RS10615 WP 003690200.1	D.KARFRVNAFMQRGNVGGVMRLIPTITVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMDHINTTKKLHI	155
NTDB id 1086 NMV RS00245 WP 002218487.1	N.VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.VARFRVNAFNIGRGPAAVFRTIPSTVLSLEELKAPSIQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.VGRFRVNAFHQARGCSAVFRTIPTVITPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHNNKHI	155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.VGRFRVNAFHQARGCSAVFRTIPTVITPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHNNKHI	155
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	N.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSSRYEHI	155
NTDB id 1202 PSJM300 01600 AFN76400.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFRKRVSDVPRGLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1020 ACIAD RS04210 WP 011182164.1	G.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGMGEVFRKITDVPRGLVLVTGPTGSGKSTTLAAMDYLNNTKYHHI	155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDICDYPRGLVLVTGPTGSGKSTTLAAMDYINNHRDYHI	155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMDYINENRYDHI	155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDICDYPRGIVLVTGPTGSGKSTTLAAMDYINENRYDHI	155
NTDB id 43678 LP12 RS11525 WP 010948029.1	G.VGRFRINLFRQRGEVAMVVRYIKGEIPSIEDLNLPPQILKSLVLELRGLVLVVGSTGSGKSTTLAAMINHRNENHRGHI	155
NTDB id 1177 A1552VC RS01165 WP 000422572.1	..SGRFRVSAFFQRELPGAVIRRIETRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQHRGTGHI	153
NTDB id 1203 PSJM300 01605 AFN76401.1	G.IGRFRVSAFYQRNLACGMVLRRIETNIPTIEDLKLPEVLKXKLALTKRGLVLVVGATGTGKSTSLAAMIGYRNKNSSGHI	155
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFQQRDMPGMVIRRIETKIPSPDDLHLPPILKELAMSKRGIIIFSGATGTGKSTSLASMIQHRNQHSKGHI	156
consensus	* **!!*!***** * * * *!*****!*****!***** * * * *!*****!***** *!*****	

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NTDB id 1307 DR RS10055 WP 010888596.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	ALRSALREDPDYILVGE	RDLETIRLALTA	AETGHLVFGTLHT	TSAAK	239
NTDB id 1116 NGFG RS10615 WP 003690200.1	LTIEDPIEFVHQS	KKSLINQRELHQHTLS	FNALSSALREDPDVILVGE	MRDPETIGLALTA	AETGHLVFGTLHT	TGA	235
NTDB id 1086 NMV RS00245 WP 002218487.1	LTIEDPIEFVHQS	KKSLINQRELHQHTLS	FNALSSALREDPDVILVGE	MRDPETIGLALTA	AETGHLVFGTLHT	TGA	235
NTDB id 1185 GTF74 RS11940 WP 000350195.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	LRDQETISLALTA	AETGHLVFGTLHT	SSAAK	235
NTDB id 1176 A1552VC RS01160 WP 000350195.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	LRDQETISLALTA	AETGHLVFGTLHT	SSAAK	235
NTDB id 1283 ACE17W RS02630 WP 010947729.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	LRDQETISLALTA	AETGHLVFGTLHT	SSAAK	235
NTDB id 1259 GC085 RS10305 WP 010947729.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	LRDQETISLALTA	AETGHLVFGTLHT	SSAAK	235
NTDB id 1194 PAKAF RS01995 WP 003084552.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1202 PSJM300 01600 AFN76400.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1020 ACIAD RS04210 WP 011182164.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1060 ABD1 RS04380 WP 000355489.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1040 HON27 RS13360 WP 000355489.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 43678 LP12 RS11525 WP 010948029.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1177 A1552VC RS01165 WP 000422572.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1203 PSJM300 01605 AFN76401.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	235
NTDB id 1019 ACIAD RS04205 WP 004922051.1	LTIEDPIEFVHQS	KKCLINQREVHDTLSF	KNALRSALREDPDVILVGE	MRDLETIRLALTA	AETGHLVFGTLHT	TSAAK	236
consensus	***!!!!**!	*****!!!!**!	**	!!!!*****!!!!**!	*****!!!!**!	*****!!!!**!	

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NTDB id 1307 DR RS10055 WP 010888596.1	SIDRIVDVFP	EEQEQIRVQLANNL	IVAVMTQQLIP	ADGQGRVLAYEIL	LANPAVRALIREG	KTFQITSVMQTGA	REGMV	319
NTDB id 1116 NGFG RS10615 WP 003690200.1	TVDRIVDVFP	AGEKEKEMVRSML	SESLTAVISQNL	LKTHDGN	GRVASHEILIAN	PAVRNLIRENK	ITQINSVLQTGQASGMQ	315
NTDB id 1086 NMV RS00245 WP 002218487.1	TVDRIVDVFP	AGEKEKEMVRSML	SESLTAVISQNL	LKTHDGN	GRVASHEILIAN	PAVRNLIRENK	ITQINSVLQTGQASGMQ	315
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1259 GC085 RS10305 WP 010947729.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1202 PSJM300 01600 AFN76400.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1040 HON27 RS13360 WP 000355489.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 43678 LP12 RS11525 WP 010948029.1	TIDRIIDVFP	GSDDKDMVRSML	SESLRAVIAQKLLK	R.VGGGRVACHEIM	LATPAIRNLIRE	DKVAMYSIIQ	TGAHGMQ	314
NTDB id 1177 A1552VC RS01165 WP 000422572.1	ALDRVINFFP	DEARQQILLDL	SLNLKATISLRL	IPGVDNQ.RVA	AVEILINSPYIS	DLIEKGKIDDI	KEVMARSAEQGMQ	314
NTDB id 1203 PSJM300 01605 AFN76401.1	ALDRVINFFP	DEARQQILLDL	SLNLKATISLRL	IPGVDNQ.RVA	AVEILINSPYIS	DLIEKGKIDDI	KEVMARSAEQGMQ	314
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ALDRVINFFP	DEARQQILLDL	SLNLKATISLRL	IPGVDNQ.RVA	AVEILINSPYIS	DLIEKGKIDDI	KEVMARSAEQGMQ	314
consensus	***!*****	*****	*!***!	*****	!***	*****!*****!*****	*****!*****	*****!***

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NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKCLERAID.PKEFA..RLANDASAGLGGA.SMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAA	395
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVLRQGLIAPEAARRRAQNSESMSF.....	347
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVLRQGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMCLKGLVAKGLISRENAREKAKI.PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLIAKGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIINLPTARAVAKS.PESF.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 43678 LP12 RS11525 WP 010948029.1	TFDQALFNLYKEGKITKENAIKYADSKNNVGLQIRLGEEKSFNIQDEN.....LQ.....IQPDDIDNV.....	373
NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKID.....ME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTLE.....MSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMERK.....MTFDGQRRNLK.....	383
consensus	!*** * !* **** * *	

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NTDB id 1307 DR RS10055 WP 010888596.1	PATPAAPAAGRSEPGRAGGFGRR	418
NTDB id 1116 NGFG RS10615 WP 003690200.1		347
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
NTDB id 43678 LP12 RS11525 WP 010948029.1	.....	373
NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
consensus		

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved