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NTDB id 1177 A1552VC RS01165 WP 000422572.1	MELNQYLDGMLTHKASDLYITVGA	PILYRVDGELRAQGEAL.SVADVTAL	LHAMMDARQAEEFKQ	TREANFAVVRD	75					
NTDB id 1203 PSJM300 01605 AFN76401.1	MEFEKLLRLMVEKGGSDLFITAGV	PPSMKVNGKILPVNKT	TPMSPEMTRET	VHGVMMNEQQRREFTENHECNFAISAR	76					
NTDB id 1019 ACIAD RS04205 WP 004922051.1	MDFNDLLNLMAKHKASDLFITAGV	EPSLKINGEITPVSKTKLDGDMIAQLIDS	ITTQKQRQEF	ETHECNFAILNR	76					
NTDB id 55660 MYSTI RS31685 WP 015351907.1	...MANLHQLLKAMVEKGA	SDLHVTGSPQRLRVDGELVPLKTA	PLTPVETKQLCYSILTDAQKHKFEEDN	LDLSFGVK	77					
NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDILRLAADKGASDITILAA	GLPPQFKLSG	YDAQGFEL	SASDTRKLMYSMMNERQQRIFEEKRE	LDFSALG	80				
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MMRRINLPEMSAE	EVGNMVT	VMNDHQKRIYQQNLEVD	FSFELP	76			
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLSSG	ISPMIRVHGD	MMRRINLPEMSAE	EVGNMVT	VMNDHQKRIYQQNLEVD	FSFELP	76			
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDG	EVRLKGVPAFTHSDVHRL	LIFEIMNDAQ	RSEYEEKLEVD	FSFELP	76			
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLSAG	VPPMVRIDG	EVRLKGVPAFTHSDVHRL	LIFEIMNDAQ	RSEYEEKLEVD	FSFELP	76			
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGDLR	KINLPPLEHKDVIKI	IYDIMNDRQRKEYEEFFET	DFSFEIA	76				
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKNGSSDLHISAG	MPPMIRVDGDLR	KINLPPLEHKDVIKI	IYDIMNDRQRKEYEEFFET	DFSFEIA	76				
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQGGASDLHLSS	GLPPMIRVDG	DVRRINLPAMD	HKQVHALIYD	IMNDKQRKDFEEF	LETDFSFEVP	76			
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQGGASDLHLSAG	LPPMIRVDG	DVRRINLP	PLEHKQVHALIYD	IMNDKQRKDFEEF	LETDFSFEVP	76			
NTDB id 1020 ACIAD RS04210 WP 01182164.1	MDITELLAFSVQNRASDLHLSAG	IPPMIRVDG	EVRRINLPAMD	HS	EVHNL	IYDIMNDKQR	RDYEEKLETDFSFEVP	76		
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEKLETDFSFEVP	76		
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEKLETDFSFEVP	76		
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLSAG	MPPMIRVDG	EVRRINLP	PALEHKDVHRL	VYD	IMNDKQR	RDYEEKLETDFSFEVP	76		
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	NVARFRVNAF	NRGAGAVERT	PSYLTLEELGLPIFKIA	PPRG	LVLTGPTGSGKSTTLA	MDYIN	ETRYD	HI	153
NTDB id 1203 PSJM300 01605 AFN76401.1	GIGRFRVSAFYQRNLAGMVL	RIETNIPTIEDL	KLPDVLKKL	ALT	KRGLVLFVGATGTGKSTSLAAM	IGYRNKNSSGHI			155
NTDB id 1019 ACIAD RS04205 WP 004922051.1	EKNERFRVSAFYQRDMPGM	VIRRIETKIPSPDDL	HLPPI	LKELAMSKRGII	IFSGATGTGKSTSLASMI	QHRNQHSGKHI			156
NTDB id 55660 MYSTI RS31685 WP 015351907.1	GLSRFRANIFMQRGAV	AGAFRTIPFKILTF	QELGLPPV	V	AELVKKPRGLILVTGPTGSGKSTTLASMI	DKINTERHEHI			156
NTDB id 1307 DR RS10055 WP 010888596.1	D.KARFRVNAFMQRGNV	GGVMRLIPTT	VRTIAEMGLPQT	VIDIANAPRGLV	LVLTGPTGSGKSTTLASMI	DHINTTKL	KLHI		159
NTDB id 1116 NGFG RS10615 WP 003690200.1	N.VARFRVNAFNTGRGP	AAVFRTIPSTVLS	LEELKAPSIFQ	KIAESPRGMVL	VTGPTGSGKSTTLAAMIN	YINETQPAHI			155
NTDB id 1086 NMV RS00245 WP 002218487.1	N.VARFRVNAFNI	GRGPA	AAVFRTIPSTVLS	LEELKAPSIFQ	KIAESPRGMVL	VTGPTGSGKSTTLAAMIN	YINETQPAHI		155
NTDB id 1185 GTF74 RS11940 WP 000350195.1	N.VGRFRVNAFHQARGCS	AVFRTIPTV	IPTLEQLDAPEIF	SKIANYEKGLV	LVLTGPTGSGKSTTLAAMV	NYVNAH	NKH		155
NTDB id 1176 A1552VC RS01160 WP 000350195.1	N.VGRFRVNAFHQARGCS	AVFRTIPTV	IPTLEQLDAPEIF	SKIANYEKGLV	LVLTGPTGSGKSTTLAAMV	NYVNAH	NKH		155
NTDB id 1283 ACE17W RS02630 WP 010947729.1	N.LARFRVNAFNQSRGA	AAVFRTIPSEIL	SMEDLGLPPIFK	EMASFSRGLV	LVLTGPTGSGKSTTLAAV	IDYINSSRYEHI			155
NTDB id 1259 GC085 RS10305 WP 010947729.1	N.LARFRVNAFNQSRGA	AAVFRTIPSEIL	SMEDLGLPPIFK	EMASFSRGLV	LVLTGPTGSGKSTTLAAV	IDYINSSRYEHI			155
NTDB id 1202 PSJM300 01600 AFN76400.1	G.VARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGMGEVFRK	ITD	VPRGLVLTGPTGSGKSTTLAAM	DYLNNTKYHHI			155
NTDB id 1194 PAKAF RS01995 WP 003084552.1	G.VARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGMGEVFRK	ITD	VPRGLVLTGPTGSGKSTTLAAM	DYLNNTKYHHI			155
NTDB id 1020 ACIAD RS04210 WP 01182164.1	N.LARFRVNVFNQNRGAGAV	FRTIPSKVLT	LEELGLGKIFR	DICDYPRGLV	LVLTGPTGSGKSTTLAAM	DYINNHR	YDHI		155
NTDB id 1060 ABD1 RS04380 WP 000355489.1	N.VARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGLGQIFK	DICDYPRG	IVLV	TGPTGSGKSTTLAAM	DYINENRYDHI		155
NTDB id 1040 HON27 RS13360 WP 000355489.1	N.VARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGLGQIFK	DICDYPRG	IVLV	TGPTGSGKSTTLAAM	DYINENRYDHI		155
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	N.VARFRVNAFNQNRGAGAV	FRTIPSKVLT	MEDLGLGQIFK	DICDYPRG	IVLV	TGPTGSGKSTTLAAM	DYINENRYDHI		155
consensus	*	***!!!*****!	***	*****!*****!	*****!	*****!	*****!	*****!	*****!

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	LTIVEDPIEFVHEHKKRCIVTQREVGLDTESYEVALKNSLRQAPDMILIGEIRSRRETMEYAMTFAETGHL	233
NTDB id 1203 PSJM300 01605 AFN76401.1	ISIEDPIEFITHQHQCIVTQREVGLDTDSFEVALKNTLRQAPDVILIGEVRTRETMHDHVAFAETGHLCLATLHANNANQ	235
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ITIEDPIEFIEHAGCIITQREVGLDTDSFEIALKNTLRQAPDVILIGEIRSRREVMYALAFATGHLVFAATLHANNANQ	236
NTDB id 55660 MYSTI RS31685 WP 015351907.1	MTIEDPIEYLLPHKNCCLVNQREVGDATRNFKTALKYILRQDPDVVLVGELRDLETIEAALTIAETGHTCYATLHTNSAVQ	236
NTDB id 1307 DR RS10055 WP 010888596.1	LTIEDPIEFMHPNKAISTINQREVGSDTLSFDDALRAALRQAPDVILVGEMRDYETIKAAVTAAETGHLVMGTLHTNSAPE	239
NTDB id 1116 NGFG RS10615 WP 003690200.1	LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALSSALREDPDVILVGEMRDPETIGLALTAETGHLVFGTLHTTGAAK	235
NTDB id 1086 NMV RS00245 WP 002218487.1	LTIEDPIEFVHQSKKSLINQRELHQHTLSFANALRSALREDPDVILVGEMRDPETIGLALTAETGHLVFGTLHTTGAAK	235
NTDB id 1185 GTF74 RS11940 WP 000350195.1	LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAETGHLVFGTLHTSSAAK	235
NTDB id 1176 A1552VC RS01160 WP 000350195.1	LTIEDPIEFVHSNNKCLINQREVHRDTHSFKNALRSALREDPDVILVGELRDQETISLALTAETGHLVFGTLHTSSAAK	235
NTDB id 1283 ACE17W RS02630 WP 010947729.1	LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATK	235
NTDB id 1259 GC085 RS10305 WP 010947729.1	LTVEDPIEFVHQSKKCLVNQREVHKDTLSFNAAALRSALREDPDIILVGELRDLETIRLAMTAAETGHLVFGTLHTNSATK	235
NTDB id 1202 PSJM300 01600 AFN76400.1	LTIEDPIEFVHESKKCLVNQREVHRDITLGFSEALRSALREDPDIILVGEMRDLETIRLALTAETGHLVFGTLHTTSAAK	235
NTDB id 1194 PAKAF RS01995 WP 003084552.1	LTIEDPIEFVHESKKCLVNQREVHRDITLGFSEALRSALREDPDIILVGEMRDLETIRLALTAETGHLVFGTLHTTSAAK	235
NTDB id 1020 ACIAD RS04210 WP 011182164.1	LTVEDPIEFVHEPKKCLINQREVHRDITLGFNEALRSALREDPDIILVGEMRDLETIRLALTAETGHLVFGTLHTTSAAK	235
NTDB id 1060 ABD1 RS04380 WP 000355489.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGTFNEALRSALREDPDIILVGEMRDLETIRLALTAETGHLVFGTLHTTSAAK	235
NTDB id 1040 HON27 RS13360 WP 000355489.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGTFNEALRSALREDPDIILVGEMRDLETIRLALTAETGHLVFGTLHTTSAAK	235
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	LTVEDPIEFVHQSKKCLINQREVHRDTHGTFNEALRSALREDPDIILVGEMRDLETIRLALTAETGHLVFGTLHTTSAAK	235
consensus	***!!!!!!*! *****!!!!!!*! *! !!!!!!!*!!*!!*!!*!!*! !** *!*****!!!!!!*****!!!!!!*!!	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TIDRIIDVFPAAEEKMVRMLSESIAVISQQLKKGGGRVAAHEIMLSTPAIRNLIREKQYQMSIQTGAAHGM	312
NTDB id 1203 PSJM300 01605 AFN76401.1	ALERTIHLVLPKEQREQFLLDLSLNLKGVIAQQLLRDKNKGKGRHGVFEVLINSPRIADLIIRGELHELKATMARSQE.VGM	314
NTDB id 1019 ACIAD RS04205 WP 004922051.1	ALDRIINFFPADRQNGVWMDLSLNLKATVAQQLVPTPDGKGRRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTD.LGM	314
NTDB id 55660 MYSTI RS31685 WP 015351907.1	TLERIIHFFDADRHHQIFMDLSLNLKAVISQQLIPTHDGGSRRAAVEVLINTPLLSDIYIRGEIYKIKELMARSCE.LGM	315
NTDB id 1307 DR RS10055 WP 010888596.1	TINRVLDVFPFPYQPPQVRAQLSFVLEGVMSQSLVAKAGAPGRVLALAVMVPNPAIRNLIREDKVHQIYSSMQVGGQAKFGM	316
NTDB id 1116 NGFG RS10615 WP 003690200.1	SIDRIVDVFPPEEQQEQRVQLANNLVAVMTQQLLPRADGGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAR.EGM	318
NTDB id 1116 NGFG RS10615 WP 003690200.1	TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQA.SGM	314
NTDB id 1086 NMV RS00245 WP 002218487.1	TVDRIVDVFPAGEKEMVRSMLSESLTAVISQNLKTHDGNGRVASHEILIANPAVRNLIRENKITQINSVLQTGQA.SGM	314
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TIDRIIDVFPDSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAA.HGM	313
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TIDRIIDVFPDSDKDMVRSMLSESLRAVIAQKLLKR.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAA.HGM	313
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TINRIIDVFPAAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQA.KGM	313
NTDB id 1259 GC085 RS10305 WP 010947729.1	TINRIIDVFPAAEEKSMVRSMLSESLQAVVAQSLLKK.NKGGRVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQA.KGM	313
NTDB id 1202 PSJM300 01600 AFN76400.1	TIDRVVDVFPAAEEKSMVRSMLSESLQAVISQTLKK.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGS.LGM	313
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TIDRVVDVFPAAEEKAMVRSMLSESLQSVISQTLKK.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGS.LGM	313
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TIDRIIDVFPAAEKDMVRTMLSESLQAVISQTLKK.EGGGRVAAHEIMIGIPAIRNLIREGKVAQMYSIIQTGAT.HGM	313
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGAN.HGM	313
NTDB id 1040 HON27 RS13360 WP 000355489.1	TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGAN.HGM	313
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TIDRVIDVFPAAEKDMVRAMLSESLQAVISQTLKK.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGAN.HGM	313
consensus	***!**********! *!***! *****! !*** *****!*****!***** *****!!* ***** ***** !!	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	QTFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	QTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRRERMSEMER....KMTFDGQRRNLK.....	383
NTDB id 55660 MYSTI RS31685 WP 015351907.1	QTFNQALAAALLRRVISQDEAFGRSSDPDELNRILATG....GGMPVGQRAPG.....GPAGR.....	370
NTDB id 1307 DR RS10055 WP 010888596.1	VTMDAYLAGLFRHRLITYDKGLERAIDPKEFARLANDASAGLGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAAPAT	398
NTDB id 1116 NGFG RS10615 WP 003690200.1	QTMDDQLQSLVRQGLIAPEAARRRAQNSESMSF.....	347
NTDB id 1086 NMV RS00245 WP 002218487.1	QTMDDQLQSLVRQGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	QTMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	QTMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	QTLDQHLTELVNKNIISKHTAHEAALNK.SLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	QTLDQHLTELVNKNIISKHTAHEAALNK.SLF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	QTLDSCCLKGLLAKGLISRDSAKEKAKQP.ENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	QTLDMLCLKGLVAKGLISRENAREKAKIP.ENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TTLDDQLKQLLAKGIINLPTARAVAKSP.ESF.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TTLDDQLKGLVARGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TTLDDQLKGLVARGVISPQTARTAAKQP.ESFL.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TTLDDQLKGLVSRGVISPQTARTAAKQP.ESFL.....	345
consensus	*!*** * !* ***** * *	

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	PAAPAAGRSEPEGRAGGFGRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1		381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 55660 MYSTI RS31685 WP 015351907.1	.....	370
NTDB id 1307 DR RS10055 WP 010888596.1	PAAPAAGRSEPEGRAGGFGRR	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 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
consensus		

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