

```
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 179963 A6070 RS04500 WP 072501973.1
NTDB id 1307 DR RS10055 WP 01088596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
```

	MELNQYLDGMLTHKASDL	YITVGA	PILYRV	DGELRA	QGEAL	SVADVTAL	LHAMMD	DARQAE	FKQ	TREAN	F	
MEFEKLLRLMVEKGS	DLFITAGV	PPSMKV	NGKILP	VNKT	PTSP	EMPTRET	VHGM	NEEQ	QRRE	FTE	NHEC	NF
MDFN	DLNLMAKHK	ASDL	FITAGV	PSL	KINGE	ITP	VS	KTLD	GD	MLA	QLIDS	ITTTQKQRQEF
MQESEQQVKVG	RELLKTM	VEMG	ASDL	HITG	APPV	RV	DGQ	VTGL	KFP	PLQ	PAET	KQLCS
MTSGI	DITDILRLAADKG	ASDI	HLAAGL	PPQFK	LSG	DYDAQ	GFEPL	SA	STRK	LMS	MNER	QQRIF
	MQITD	LLAF	GAKNK	ASDL	HLS	SGIS	P	MIRV	HGDM	RRIN	LPE	MSAE
	MQITD	LLAF	GAKNK	ASDL	HLS	SGIS	P	MIRV	HGDM	RRIN	LPE	MSAE
	MDIA	ELLE	FSVKHN	ASDL	HLS	SAGV	PPM	VR	IDG	EV	RKLG	VPA
	MDIA	ELLE	FSVKHN	ASDL	HLS	SAGV	PPM	VR	IDG	EV	RKLG	VPA
	MDIA	ELLA	FSVKNK	SSDL	HL	SAGM	PPM	IR	VDG	DL	RKIN	LP
	MDIA	ELLA	FSVKNK	SSDL	HL	SAGM	PPM	IR	VDG	DL	RKIN	LP
	MDIT	ELLA	FSAKQG	ASDL	HLS	SAGL	PPM	IR	VDG	DV	RRIN	LP
	MDIT	ELLA	FSAKQG	ASDL	HLS	SAGL	PPM	IR	VDG	DV	RRIN	LP
	MDIT	ELLA	FSVQNR	ASDL	HLS	SAGI	PPM	IR	VDG	EV	RRIN	LP
	MDIT	ELLA	FSVKNK	ASDL	HLS	SAGM	PPM	IR	VDG	EV	RRIN	LP
	MDIT	ELLA	FSVKNK	ASDL	HLS	SAGM	PPM	IR	VDG	EV	RRIN	LP
	MDIT	ELLA	FSVKNK	ASDL	HLS	SAGM	PPM	IR	VDG	EV	RRIN	LP

```
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 179963 A6070 RS04500 WP 072501973.1
NTDB id 1307 DR RS10055 WP 01088596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HQN27 RS13360 WP 000355489.1
```

Sequence	Position
AVVRD..SCRFRVSAFFQRELPCAVIRRIETIRIPTFEELKLPEVLQNLAIAKRGLVLVVGATGSGKSTTMAAMTGYRNQH	148
AISARG.IGRFRVSAFYQRNLACMVLRRRIETNIPTIEDLKLDPDLVKKLALTKRGLVLFVGATGTGKSTSLAAMIGYRNKN	150
AILNREKNERFRVSFAFQQRDMPCMVIRRIETIKIPSPDDLHLPLLIKELAMSKRGITIFSCATGTGKSTSLASMIQHRNQH	151
SFVGKG.LARFRGNIFLQRLAAAFARFMIPYKFRSFEELGLPVPVKDLRKRPRGLILVTGPTGSGKSTTLASIIDAINEE	159
SFALGD.KARFRVNAFMQRGNVGGVMRLIPTITVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASIMDHINTT	154
SFELPN.VARFRVNAFNIRGRPAAVFRTIPSTVLSLEELKAPISIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINET	150
SFELPN.VARFRVNAFNITGRGPAAVFRTIPSTVLSLEELKAPISIFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINET	150
SFELPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAH	150
SFELPN.VGRFRVNAFHQARGCSAVFRTIPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAH	150
SFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSS	150
SFEIAN.LARFRVNAFNQSRGAAAVFRTIPSEILSMEDLGLPIFKEMASFSRGLVLVTGPTGSGKSTTLAAVIDYINSS	150
SFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFRKRVSDVPRGLVLVTGPTGSGKSTTLAAMDYINNT	150
SFEVPG.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEELGMGEVFRKITDVPRLVLVTGPTGSGKSTTLAAMDYINNT	150
SFEVPN.LARFRVNVFNQNRGAGAVFRTIPSQVLTLEELGLGKIFRDIICYPRGLVLVTGPTGSGKSTTLAAMDYINNH	150
SFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDIICYPRGIVLVTGPTGSGKSTTLAAMDYINEN	150
SFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDIICYPRGIVLVTGPTGSGKSTTLAAMDYINEN	150
SFEVPN.VARFRVNAFNQNRGAGAVFRTIPSKVLTMEDLGLGQIFKDIICYPRGIVLVTGPTGSGKSTTLAAMDYINEN	150

NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 179963 A6070 RS04500 WP 072501973.1
NTDB id 1307 DR RS10055 WP 01088596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1194 PAKAF RS011995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus



```

NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
NTDB id 179963 A6070 RS04500 WP 072501973.1
NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1185 GTF74 RS11940 WP 000350195.1
NTDB id 1176 A1552VC RS01160 WP 000350195.1
NTDB id 1283 ACE17W RS02630 WP 010947729.1
NTDB id 1259 GC085 RS10305 WP 010947729.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
NTDB id 1202 PSJM300 01600 AFN76400.1
NTDB id 1020 ACIAD RS04210 WP 011182164.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
NTDB id 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus

```



logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	.EVGMQTFDQALYQLVVDKISEQDALHSADSANDLR..LMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.DLGMQTFDQALYNLYVQGEITYEDALLHADSSNDLR..LMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGR	378
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.ELGMQTFDQALFDLYDHQHSYADALKHADSPNNLR..LQIKLSEEANKPLDNRRERMSEMER.....KMTFDGQRR	380
NTDB id 179963 A6070 RS04500 WP 072501973.1	DRYGMQTMNQSLFMLAHRKMISVETALLRSP.EDELKQMMANPAAVLKR.....QV.....RVGQ..	374
NTDB id 1307 DR RS10055 WP 010888596.1	.REGMVTMDAYLAGLFRRLITYDKGLERAID.PKEFARLANDASAGLGG....ASMTPAAPPVPAYNSASSSSTGRGG	387
NTDB id 1086 NMV RS00245 WP 002218487.1	.ASGMQTMDDQSLQSLVRQGGLIAPEVARRRAQNSESMF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	.ASGMQTMDDQSLQSLVRQGGLIAPEAARRRAQNSESMF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.AHGMQTMENAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.AHGMQTMENAKQLIARGVVDAQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.AKGMQTLDDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	.AKGMQTLDDQHLTELVNKNIISKHTAHEAALN.KSLF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.SLGMQTLDMCKLGLVAKGLISRENAREKAKI..PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.SLGMQTLDDCKLGLLAKGLISRDSAKEKAKQ..PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.THGMTTLDQSLKQLLAKGIINLPTARAVAKS..PESF.....	344
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.NHGMTTLDQSLKGLVSRGVISPQTARTAAKQ..PESFL.....	345
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.NHGMTTLDQSLKGLVARGVISPQTARTAAKQ..PESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.NHGMTTLDQSLKGLVARGVISPQTARTAAKQ..PESFL.....	345
consensus	!!*!* ** * !* **** * *	

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	SFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	NLK.....	383
NTDB id 179963 A6070 RS04500 WP 072501973.1	.....	374
NTDB id 1307 DR RS10055 WP 010888596.1	DFGRGAAAPATPAAPAAGRSEPGRAGGFGR	418
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	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
consensus		

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