

```

NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1086 NMV RS00245 WP 002218487.1
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 GCO85 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
NTDB id 1147978 CKV96 RS11755 WP 027225181.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
consensus

```

Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
MTSGIDITD	I	T	D	I	L	R	L	A	A	D	K	G	A	S	D	I	I	L	A	A	G	L	P	P	Q	F	K	L	S	G	D	Y	D	A	Q	G	F	E	P	L	S	A	S	D	T	R	K	L	M	S	M	N	E	R	Q	Q	R	I	F	E	E	K	R	E	L	D	F	S	F	A	L	G								
...MQITD	L	L	A	F	G	A	K	N	K	A	S	D	L	H	L	S	S	G	I	S	P	M	I	R	V	H	G	D	M	R	R	I	N	L	P	E	M	S	A	E	E	V	G	N	M	V	T	S	V	M	N	D	H	Q	R	K	I	Y	Q	Q	N	L	E	V	D	F	S	F	E	L	P									
...MQITD	L	L	A	F	G	A	K	N	K	A	S	D	L	H	L	S	S	G	I	S	P	M	I	R	V	H	G	D	M	R	R	I	N	L	P	E	M	S	A	E	E	V	G	N	M	V	T	S	V	M	N	D	H	Q	R	K	I	Y	Q	Q	N	L	E	V	D	F	S	F	E	L	P									
...MDIAE	L	L	E	F	S	V	K	N	A	S	D	L	H	L	S	A	G	V	P	P	M	I	R	V	D	G	E	V	R	K	L	G	V	P	A	F	T	H	S	D	V	H	R	L	F	E	I	M	N	D	A	Q	R	S	E	E	K	L	E	V	D	F	S	F	E	L	P													
...MDIAE	L	L	E	F	S	V	K	N	A	S	D	L	H	L	S	A	G	V	P	P	M	I	R	V	D	G	E	V	R	K	L	G	V	P	A	F	T	H	S	D	V	H	R	L	F	E	I	M	N	D	A	Q	R	S	E	E	K	L	E	V	D	F	S	F	E	L	P													
...MDIAE	L	L	E	F	S	V	K	N	K	S	S	D	L	H	T	S	A	G	M	P	P	M	I	R	V	D	G	D	L	R	K	I	N	L	P	P	L	E	H	K	D	V	I	K	I	I	Y	D	I	M	N	D	R	Q	R	K	E	Y	E	E	F	F	E	T	D	F	S	F	E	I	A									
...MDIAE	L	L	E	F	S	V	K	N	K	S	S	D	L	H	T	S	A	G	M	P	P	M	I	R	V	D	G	D	L	R	K	I	N	L	P	P	L	E	H	K	D	V	I	K	I	I	Y	D	I	M	N	D	R	Q	R	K	E	Y	E	E	F	F	E	T	D	F	S	F	E	I	A									
...MDITELL	A	F	S	A	K	Q	G	A	S	D	L	H	L	S	A	G	L	P	P	M	I	R	V	D	G	D	V																																																					

```

NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1086 NMV RS00245 WP 002218487.1
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 GCO85 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
NTDB id 1147978 CKV96 RS11755 WP 027225181.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
consensus

```

Sequence	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156
D. KARFRVNAFMQRGNVGCVMRLIPTTVRTIAEMGLPQTVIDIANAPRGLVLVTGPTGSGKSTTLASMDIHINTTKLHI	D	K	A	R	F	R	V	N	A	F	M	Q	R	G	N	V	G	C	V	M	R	L	I	P	T	T	V	R	T	I	A	E	M	G	L	P	Q	T	V	I	D	I	A	N	A	P	R	G	L	V	L	V	T	G	P	T	G	S	G	K	S	T	T	L	A	S	M	D	I	H	I	N	T	T	K	L	H	I																																																																														
N. VARFRVNAFNTGRGPAAVFRTIPSTVLSLEELKAPSIFFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	N	V	A	R	F	R	V	N	A	F	N	T	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	F	Q	K	I	A	E	S	P	R	G	M	V	L	V	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E	T	Q	P	A	H	I																																																																												
N. VARFRVNAFNIIGRGAAPVFRITIPSTVLSLEELKAPSIFFQKIAESPRGMVLVTGPTGSGKSTTLAAMINYINETQPAHI	N	V	A	R	F	R	V	N	A	F	N	I	I	G	R	G	A	A	P	V	F	R	I	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	F	F	Q	K	I	A	E	S	P	R	G	M	V	L	V	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	I	N	Y	I	N	E	T	Q	P	A	H	I																																																																										
N. VGRFRVNAFHQARGCSAVFRITPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHNKHI	N	V	G	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	I	T	P	T	V	I	P	T	L	E	Q	L	D	A	P	E	I	F	S	K	I	A	N	Y	E	K	G	L	V	L	V	T	G	P	T	G	S	G	K	S	T	T	L	A	A	M	V	N	Y	V	N	A	H	N	K	H	I																																																																														
N. VGRFRVNAFHQARGCSAVFRITPTVIPTLEQLDAPEIFSKIANYEKGLVLVTGPTGSGKSTTLAAMVNYVNAHNKHI	N	V	G	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	I	T	P	T	V																																																																																																																																		

```

NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1086 NMV RS00245 WP 002218487.1
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 GCO85 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
NTDB id 1147978 CKV96 RS11755 WP 027225181.1
NTDB id 1177 A1552VC RS01165 WP 000422572.1
NTDB id 1203 PSJM300 01605 AFN76401.1
NTDB id 1019 ACIAD RS04205 WP 004922051.1
consensus

```



logo

NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHITTYDKCLERAID.PKEEAR..LANDASAGLGG.ASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAA	395
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQCLIAPEAARRRAQNSESMSF.....	347
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQCLIAPEVARRRAQNSESMSF.....	347
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARCVVDAQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARCVVDAQEVQSKIELDLKAF.....	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	TLDSCLKGLIAKGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIIINLPTARAVAKS.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 1147978 CKV96 RS11755 WP 027225181.1	TFDQALFNLYKEGKITKENAIKYADSKNNVGLQIRLGEEKNFNIQDEN.....LQ.....IQPDDIDKF.....	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	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRRERMSEMERK.....MTFDGQRRNLK.....	383
consensus	!*** * !* **** * *	

logo

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 1147978 CKV96 RS11755 WP 027225181.1	.....	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