

NTDB id 1307 DR RS10055 WP 010888596.1	MTSGIDITDITLRLAADKGA	SDITLAAGLPPQFKLSG	DYDAQGFEP	LSASDTRKLMYSMMNERQQRI	FEEKRELDFS	FALG	80
NTDB id 312839 D1367 RS13935 WP 118166981.1	..MEFMIEDLMEQLIELG	SDMHLSAGLP	PFYFRISGKLTPTIGEHVLTADQCQR	LIFSMNLNNTQRKTLEQNWELDCS	YGVK		78
NTDB id 1116 NGFG RS10615 WP 003690200.1	MQITDLLAFGAKNKASDLHLS	SGISPMIRVHGD	MRRLNLP	PEMSAEVGNM	VTSMVNDHQRKIYQQNLEVD	DFS	76
NTDB id 1086 NMV RS00245 WP 002218487.1	MQITDLLAFGAKNKASDLHLS	SGISPMIRVHGD	MRRLNLP	PEMSAEVGNM	VTSMVNDHQRKIYQQNLEVD	DFS	76
NTDB id 1185 GTF74 RS11940 WP 000350195.1	MDIAELLEFSVKHNASDLHLS	AGVPPMVRIDG	VRKLGVP	PAFTHS	DVHRLIFEIMNDAQRSEYEEKLEVD	DFS	76
NTDB id 1176 A1552VC RS01160 WP 000350195.1	MDIAELLEFSVKHNASDLHLS	AGVPPMVRIDG	VRKLGVP	PAFTHS	DVHRLIFEIMNDAQRSEYEEKLEVD	DFS	76
NTDB id 1283 ACE17W RS02630 WP 010947729.1	MDIAELLAFSVKKNSSDLH	ISAGMPPMIRVDG	DLRKINLP	PLEHKDVIKIIYD	IMNDRQRKEYEEFFETDFS	FEIA	76
NTDB id 1259 GC085 RS10305 WP 010947729.1	MDIAELLAFSVKKNSSDLH	ISAGMPPMIRVDG	DLRKINLP	PLEHKDVIKIIYD	IMNDRQRKEYEEFFETDFS	FEIA	76
NTDB id 1202 PSJM300 01600 AFN76400.1	MDITELLAFSAKQASDLHLS	GLPPMIRVDG	VRRLNLP	AMDHKQVHALIYD	IMNDKQRKDFEEFLETDFS	FEVP	76
NTDB id 1194 PAKAF RS01995 WP 003084552.1	MDITELLAFSAKQASDLHLS	AGLPMPMIRVDG	VRRLNLP	AMDHKQVHALIYD	IMNDKQRKDFEEFLETDFS	FEVP	76
NTDB id 1020 ACIAD RS04210 WP 011182164.1	MDITELLAFSVQNRASDLHLS	AGIPPMIRVDG	VRRLNLP	AMDHSEVHNLIYD	IMNDKQRDRYEEKLETDFS	FEVP	76
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	MDITELLAFSVKNGASDLHLS	AGMPPMIRVDG	VRRLNLP	PALEHKDVHRLVYD	IMNDKQRDRYEEKLETDFS	FEVP	76
NTDB id 1060 ABD1 RS04380 WP 000355489.1	MDITELLAFSVKNGASDLHLS	AGMPPMIRVDG	VRRLNLP	PALEHKDVHRLVYD	IMNDKQRDRYEEKLETDFS	FEVP	76
NTDB id 1040 HON27 RS13360 WP 000355489.1	MDITELLAFSVKNGASDLHLS	AGMPPMIRVDG	VRRLNLP	PALEHKDVHRLVYD	IMNDKQRDRYEEKLETDFS	FEVP	76
consensus	* * ! * ! * * * * * * * * * ! * ! * * * * ! * ! * ! * * * * ! * * * * * * * * * * * * * * * * * ! * ! * ! * ! * * * *						

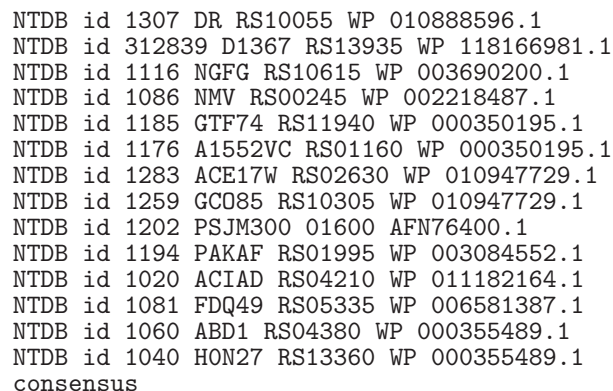
NTDB	id	1307	DR	RS10055	WP	010888596.1	D	K	A	R	F	R	V	N	A	F	M	Q	R	G	N	V	G	V	M	R	L	I	P	T	V	R	T	I	A	E	M	G	L	P	T	V	I	D	I	A	N	A	P	R	G	L	V	L	V	T	G	P	T	G	S	G	K	S	T	T	L	A	S	M	I	D	H	I	N	T	K	K	L	H	I	L	160				
NTDB	id	312839	D1367	RS13935	WP	118166981.1	G	L	A	R	F	R	V	N	V	Y	K	E	R	G	S	Y	A	A	C	L	R	A	L	S	S	K	I	P	N	F	E	K	L	G	L	P	D	I	V	R	E	M	T	D	K	P	R	G	L	I	L	V	T	G	P	T	G	S	G	K	T	T	T	L	A	A	M	I	D	L	I	N	R	T	K	A	E	H	I	L	158
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	N	V	A	R	F	R	V	N	A	F	N	T	G	R	C	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	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	L	156
NTDB	id	1086	NMV	RS00245	WP	002218487.1	N	V	A	R	F	R	V	N	A	F	N	T	G	R	C	P	A	A	V	F	R	T	I	P	S	T	V	L	S	L	E	E	L	K	A	P	S	I	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	L	156
NTDB	id	1185	GTF74	RS11940	WP	000350195.1	N	V	G	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	T	I	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	H	N	K	H	I	L	156
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	N	V	G	R	F	R	V	N	A	F	H	Q	A	R	G	C	S	A	V	F	R	T	I	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	H	N	K	H	I	L	156
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	N	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	V	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S	S	R	Y	E	H	I	L	156	
NTDB	id	1259	GC085	RS10305	WP	010947729.1	N	L	A	R	F	R	V	N	A	F	N	Q	S	R	G	A	A	V	F	R	T	I	P	S	E	I	L	S	M	E	D	L	G	L	P	P	I	F	K	E	M	A	S	F	S	R	G	L	V	L	V	T	G	P	T	G	S	G	K	S	T	T	L	A	A	V	I	D	Y	I	N	S	S	R	Y	E	H	I	L	156	
NTDB	id	1202	PSJM300	01600	AFN	76400.1	G	V	A	R	F	R	V	N	A	F	N	Q	N	R	G	A	A	V	F	R	T	I	P	S	K	V	L	T	M	E	D	L	G	M	G	E	V	F	R	K	I	T																																							

NTDB	id	1307	DR	RS10055	WP	010888596.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	S	A	A	Q	T	240
NTDB	id	312839	D1367	RS13935	WP	118166981.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	S	A	A	Q	T	238
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	P	E	T	I	G	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	G	A	A	K	T	236
NTDB	id	1086	NMV	RS00245	WP	002218487.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	P	E	T	I	G	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	G	A	A	K	T	236
NTDB	id	1185	GTf74	RS11940	WP	000350195.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	S	A	A	K	T	236
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	S	A	A	K	T	236
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	S	A	T	K	T	236
NTDB	id	1259	GC085	RS10305	WP	010947729.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	T	S	A	T	K	T	236
NTDB	id	1202	PSJM300	01600	AFN	76400.1	T	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E</																																	

```

NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 312839 D1367 RS13935 WP 118166981.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1185 GTFT74 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 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
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 1307 DR RS10055 WP 010888596.1
NTDB id 312839 D1367 RS13935 WP 118166981.1
NTDB id 1116 NGFG RS10615 WP 003690200.1
NTDB id 1086 NMV RS00245 WP 002218487.1
NTDB id 1185 GTFT74 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 1202 PSJM300 01600 AFN76400.1
NTDB id 1194 PAKAF RS01995 WP 003084552.1
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

```

 non conserved
 similar
 $\geq 50\%$ conserved