

[illegible]

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	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	I	D	H	I	N	T	K	K	L	H	I	L	160				
NTDB	id	24691	AVA	RS01885	WP	011317259.1	G	L	A	R	F	R	V	N	V	Y	K	E	R	G	A	Y	A	A	C	L	R	A	L	S	S	K	I	P	N	F	E	K	L	G	L	P	D	V	V	R	E	M	C	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	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	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	I	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	I	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	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	I	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	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	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																																															

NTDB	id	1307	DR	RS10055	WP	010888596.1	T	E	D	P	I	E	F	V	H	K	A	S	T	I	N	Q	R	E	V	G	S	D	T	L	S	F	D	D	A	L	R	A	A	L	R	Q	A	P	D	V	I	L	V	G	E	M	R	D	Y	E	T	I	K	A	V	T	A	A	E	T	G	H	L	V	M	G	T	L	H	T	N	S	A	P	E	S		240				
NTDB	id	24691	AVA	RS01885	WP	011317259.1	T	V	E	D	P	I	E	F	V	Y	E	P	I	K	S	L	V	H	Q	R	Q	L	G	E	D	T	K	S	F	A	N	A	L	K	A	A	L	R	E	D	P	D	I	V	L	V	G	E	M	R	D	L	E	T	I	S	L	A	I	S	A	A	E	T	G	H	L	V	F	G	T	L	H	T	S	S	A	S	Q	T		238
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	T	E	D	P	I	E	F	V	H	Q	S	K	K	S	L	I	N	Q	R	E	L	H	Q	H	T	L	S	F	A	N	A	L	S	S	A	L	R	E	D	P	D	V	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	Q	S	K	K	S	L	I	N	Q	R	E	L	H	Q	H	T	L	S	F	A	N	A	L	R	S	A	L	R	E	D	P	D	V	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	S	N	N	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	S	F	K	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	V	G	E	L	R	D	Q	E	T	I	S	L	A	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	S	S	A	A	K	T		236		
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	T	E	D	P	I	E	F	V	H	S	N	N	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	S	F	K	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	V	G	E	L	R	D	Q	E	T	I	S	L	A	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	S	S	A	A	K	T		236		
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	N	S	A	T	K	T		236
NTDB	id	1259	GC085	RS10305	WP	010947729.1	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	N	S	A	T	K	T		236
NTDB	id	1202	PSJM300	01600	AFN	76400.1	T	E	D	P	I	E	F	V	H	E	S	K	K	C	L	V	N	Q	R	E	V	H	R	D	T	L	G	F	S	E	A	L	R	S	A	L	R	E	D	P	D																																									

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NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 24691 AVA RS01885 WP 011317259.1
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 01182164.1
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

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NTDB id 1307 DR RS10055 WP 010888596.1
NTDB id 24691 AVA RS01885 WP 011317259.1
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 GC085 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 01182164.1
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

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NTDB	id	1307	DR	RS10055	WP	010888596.1	ATPAAPAAGRSEPGRAGGFGR	418
NTDB	id	24691	AVA	RS01885	WP	011317259.1		372
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	.....	34
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	GCO85	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	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
 $\geq 50\%$ conserved