

NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	....	MEINQYLDGMLTHKASDLYITVGAPILYRV	DGE	RAQGEAL	SVADVTAL	LHAMMDAR	AEFKQ	TREANF	AVVRD	75																												
NTDB	id	1203	PSJM300	01605	AFN76401.1	....	MEFEKLLRLMVEKGC	SDFL	ITAGVPPSMKVNGKILPVN	KTPM	SPEMTRET	VHGV	MNEQ	QRR	REFTEN	HECNFAISAR	76																											
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	....	MDFNLLNLMAHKH	ASDL	FI	TAGV	EPSL	KINGE	ITPV	SKTK	DGDM	LAQLDSITTTQKQRQEF	ITHECNFAILNR	76																									
NTDB	id	31286	SNLS254	RS16865	WP	001055658.1	....	MNMEEIVT	LSVKHNV	SDLHL	CNAW	PARWR	KQGR	ME..	TAPFTAPD	VDRL	LLDW	LND	AQQYQWRTHGGLDFAVSL	73																								
NTDB	id	1307	DR	RS10055	WP	010888596.1	MTSGID	ITDILRLA	ADK	ASD	IL	LAAG	LP	QFKLS	CDY	DAQGFEP	SASD	TRKLMV	SMN	NRQ	RIFE	KRELD	FSFALG	80																				
NTDB	id	1086	NMV	RS00245	WP	002218487.1	....	MQITDLLAF	GA	KNK	ASDL	HLSSG	I	SPMIRV	HGD	MRR	INLP	EMS	AEEV	GNM	VTSV	MNDH	HQR	KIYQQN	LEVDFS	FELP	76																	
NTDB	id	1116	NGFG	RS10615	WP	003690200.1	....	MQITDLLAF	GA	KNK	ASDL	HLSSG	I	SPMIRV	HGD	MRR	INLP	EMS	AEEV	GNM	VTSV	MNDH	HQR	KIYQQN	LEVDFS	FELP	76																	
NTDB	id	1185	GTF74	RS11940	WP	000350195.1	....	MDIAELLE	F	SVKH	N	ASDL	HL	SAGV	PPM	VR	IDGE	VR	KLG	V	PAFT	HS	DV	HRL	LIFE	IM	NDAQRSEYEEK	LEVDFS	FELP	76														
NTDB	id	1176	A1552VC	RS01160	WP	000350195.1	....	MDIAELLE	F	SVKH	N	ASDL	HL	SAGV	PPM	VR	IDGE	VR	KLG	V	PAFT	HS	DV	HRL	LIFE	IM	NDAQRSEYEEK	LEVDFS	FELP	76														
NTDB	id	1283	ACE17W	RS02630	WP	010947729.1		MDIAELL	F	SVK	N	KSSD	LH	I	SAGM	PPM	IR	VDG	D	L	R	K	I	N	L	P	LEH	K	D	V	I	K	I	YD	IM	NDRQR	KEYEEFF	ETDFS	FEIA	76				
NTDB	id	1259	GC085	RS10305	WP	010947729.1		MDIAELL	F	SVK	N	KSSD	LH	I	SAGM	PPM	IR	VDG	D	L	R	K	I	N	L	P	LEH	K	D	V	I	K	I	YD	IM	NDRQR	KEYEEFF	ETDFS	FEIA	76				
NTDB	id	1194	PAKAF	RS01995	WP	003084552.1		MDITELL	F	SA	KQ	G	ASDL	HL	SAGL	PPM	IR	VDG	D	V	R	R	I	N	L	P	AM	D	H	K	Q	V	H	A	L	I	YD	IM	NDRQR	KDFEEF	LETDFS	FEVP	76	
NTDB	id	1202	PSJM300	01600	AFN76400.1		MDITELL	F	SA	KQ	G	ASDL	HL	SAGL	PPM	IR	VDG	D	V	R	R	I	N	L	P	AM	D	H	K	Q	V	H	A	L	I	YD	IM	NDRQR	KDFEEF	LETDFS	FEVP	76		
NTDB	id	1020	ACIAD	RS04210	WP	011182164.1		MDITELL	F	SA	VQ	N	ASDL	HL	SAGL	PPM	IR	VDG	E	V	R	R	I	N	L	P	AM	D	H	S	E	V	H	N	L	I	YD	IM	NDRQR	RDYEEK	LETDFS	FEVP	76	
NTDB	id	1060	ABD1	RS04380	WP	000355489.1		MDITELL	F	SA	VK	N	G	ASDL	HL	SAGM	PPM	IR	VDG	E	V	R	R	I	N	L	P	A	E	H	K	D	V	H	R	L	V	YD	IM	NDRQR	RDYEEK	LETDFS	FEVP	76
NTDB	id	1040	HON27	RS13360	WP	000355489.1		MDITELL	F	SA	VK	N	G	ASDL	HL	SAGM	PPM	IR	VDG	E	V	R	R	I	N	L	P	A	E	H	K	D	V	H	R	L	V	YD	IM	NDRQR	RDYEEK	LETDFS	FEVP	76
NTDB	id	1081	FDQ49	RS05335	WP	006581387.1		MDITELL	F	SA	VK	N	G	ASDL	HL	SAGM	PPM	IR	VDG	E	V	R	R	I	N	L	P	A	E	H	K	D	V	H	R	L	V	YD	IM	NDRQR	RDYEEK	LETDFS	FEVP	76
consensus							***	***	*****	*	!	*****	*****	*****	*****</																													

NTDB	id	1177	A1552VC	RS01165	WP	000422572.1	.	S	G	R	F	R	V	S	A	F	F	Q	R	E	L	P	G	A	V	I	R	R	T	E	T	R	I	P	T	F	E	E	K	L	P	E	V	L	Q	N	L	A	I	A	K	R	G	L	V	L	V	G	A	T	G	S	G	K	S	T	M	A	A	M	T	G	Y	R	N	Q	H	R	T	G	H	I			
NTDB	id	1203	PSJM300	O1605	AFN	76401.1	G	I	G	R	F	R	V	S	A	F	Y	Q	R	N	L	A	G	M	V	L	R	R	T	E	T	N	I	P	T	I	E	D	L	K	L	P	D	V	L	K	K	L	A	L	T	K	R	G	L	V	L	F	V	G	A	T	C	T	G	K	S	T	S	L	A	A	M	I	G	Y	R	N	K	N	S	S	G	H	I
NTDB	id	1019	ACIAD	RS04205	WP	004922051.1	E	K	N	E	R	F	R	V	S	A	F	Q	R	D	M	P	G	M	V	I	R	R	T	E	K	I	P	S	P	D	D	L	H	L	P	P	L	K	E	L	A	M	S	K	R	G	I	I	F	S	G	A	T	C	T	G	K	S	T	S	L	A	S	M	I	Q	H	R	N	Q	H	S	K	G	H	I			
NTDB	id	31286	SNLS254	RS16865	WP	001055658.1	G	T	R	R	L	R	A	S	A	F	T	H	Q	Q	T	S	L	A	L	R	L	P	E	R	C	P	D	L	A	E	I	Q	T	P	I	P	V	P	A	L	L	A	S	E	N	G	L	L	V	T	G	A	T	C	G	C	K	S	T	T	L	A	A	M	V	G	H	N	Q	H	A	D	K	H	I				
NTDB	id	1307	DR	RS10055	WP	010888596.1	D	K	A	R	F	R	V	N	A	F	Q	R	G	V	N	V	G	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	M	I	D	H	I	N	T	K	L	H	I					
NTDB	id	1086	NMV	RS00245	WP	002218487.1	N	V	A	R	F	R	V	N	A	F	N	I	G	R	G	P	A	A	V	F	R	T	I	P	S	T	V	L	S	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	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		
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	E	E	L	K	A	P	S	I	F	Q	K	I	A	E	S	P	R	G	M	V	L	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		
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
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</	

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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 31286 SNSL254 RS18665 WP 001055658.1
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 ACE17R 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 1060 ABD1 RS04380 WP 000355489.1
NTDB id 1040 HON27 RS13360 WP 000355489.1
NTDB id 1081 FDQ49 RS05335 WP 006581387.1
consensus

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVDDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRERMSEMER.....KMTFDGQRRNLK.....	383
NTDB id 31286 SNSL254 RS16865 WP 001055658.1	TFAQSAQWRQAQCRL.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSSTGRGGDFGRGAAA	395
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQCLIAPEVARRRAQNSESMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQCLIAPEAARRRAQNSESMSF.....	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	TLDQHLTELVNKNTISKHTAHEAALN.KSLF.....	344
NTDB id 1259 GCO85 RS10305 WP 010947729.1	TLDQHLTELVNKNTISKHTAHEAALN.KSLF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMLCKGLVAKGLISRAREKAKI.PENF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLIAKGLISRDSAKEKAKQ.PENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLIAKGIINLPTARAVAKS.PESF.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQ.PESFL.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQ.PESFL.....	345
consensus	!*** * * * **** * *	

logo

NTDB id 1177 A1552VC RS01165 WP 000422572.1	PATPAAPAAGRSEPRAGGFRR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 31286 SNSL254 RS16865 WP 001055658.1	.....	326
NTDB id 1307 DR RS10055 WP 010888596.1	PATPAAPAAGRSEPRAGGFRR	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 GCO85 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 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