

NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	MKA	QKGF	TLIELM	IV	AIIG	ILAA	AI	IP	QYQ	NY	VAR	SE	GAS	AL	ASV	NPL	KT	IV	EAL	S	R	C	W	S	V	K	S	G	T	G	T	E	.	70																																				
NTDB	id	1197	PSJM300	03940	AFN	76866.1	MKA	Q	KGF	TLIELM	IV	AIIG	ILAA	AI	IP	AYQ	DY	T	V	R	S	NAAA	AL	AE	IT	P	G	K	I	G	F	E	Q	A	I	N	E	G	K	T	P	S	L	T	S	D	..	71																												
NTDB	id	1191	AAC28468.1	484..945()			MLK	K	QGF	TLIELM	IV	AIIG	ILAA	AI	IP	AYQ	DY	T	A	R	A	Q	A	T	E	G	F	K	A	T	A	G	L	T	D	L	G	A	W	R	A	D	R	G	S	F	P	N	A	A	L	V	A	G	.	74																				
NTDB	id	191137	AGL77	RS00575	WP	002220239.1	MKA	I	QGF	TLIELM	IV	AI	V	GILAA	V	AL	PAYQ	DY	T	A	R	A	Q	M	S	E	A	L	T	L	A	E	G	Q	K	S	A	V	E	E	Y	S	D	N	G	T	F	P	S	N		68																								
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	MNT	L	QGF	TLIELM	IV	AI	V	GILAA	V	AL	PAYQ	DY	T	A	R	A	Q	V	S	E	A	I	L	L	A	E	G	Q	K	S	A	V	E	E	Y	L	N	H	G	K	W	P	E	N	N		68																							
NTDB	id	1109	OK783	RS10670	WP	157147416.1	MNT	L	QGF	TLIELM	IV	AI	V	GILAA	V	AL	PAYQ	DY	T	A	R	A	Q	V	S	E	A	I	L	L	A	E	G	Q	K	S	A	V	E	E	Y	L	N	H	G	I	W	P	K	D	N		68																							
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	...MKT	N	K	Q	Q	G	F	T	L	I	E	L	M	I	V	A	I	G	I	L	A	A	I	A	I	P	A	Y	Q	D	Y	T	K	K	A	T	M	A	E	F	P	K	I	A	S	T	S	K	L	A	V	E	L	C	A	H	E	H	A	A	D	A	G		AF	72				
NTDB	id	1188	NELON	RS01755	WP	003772458.1	MKA	N	QGF	T	L	I	E	L	M	I	V	A	I	G	I	L	A	A	I	A	I	P	A	Y	Q	D	Y	T	V	R	S	K	V	S	E	A	L	I	A	A	S	P	K	S	A	L	S	E	A	F	Q	T	D	I	G	M	T	A	A	A	K	F	73							
NTDB	id	1424	RS	RS02795	WP	011000517.1	MKSMR	H	L	N	K	R	V	Q	K	G	F	T	L	I	E	L	M	I	V	AI	V	G	I	L	A	A	I	A	I	P	A	Y	Q	D	Y	T	V	R	A	R	V	T	E	G	L	T	A	A	Q	K	A	L	V	S	E	N	A	S	E	N	A	A	Q	S	D	L	S	V		74
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	MNA	Q	KGF	TLIELM	IV	AIIG	ILAA	AI	IP	AY	T	DY	T	V	R	A	R	V	S	E	G	L	T	A	A	S	S	M	K	I	T	V	S	E	N	I	L	N	A	C	A	L	V	A	G	T	P	S	T	A	G	.	72																	
NTDB	id	1274	LPP	RS09530	WP	011214168.1	MR	Q	KGF	TLIELM	IV	AIIG	ILAA	AI	IP	AY	Q	DY	T	I	R	A	R	V	T	E	G	L	T	L	A	D	S	A	K	L	V	S	E	T	A	I	T	N	N	A	L	P	A	T	Q	A	A	T	G	Y	.	71																		
NTDB	id	1258	GC085	RS09745	WP	014844212.1	MR	Q	KGF	TLIELM	IV	AIIG	ILAA	AI	IP	AY	Q	DY	T	I	R	A	R	V	T	E	G	L	T	L	A	D	S	A	K	L	V	S	E	T	A	I	T																																	

NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	..DATKKEVPLGVAAADANKLGTIALKP.....DPADGTADITLTFTMG...GAGPKNKGKIITLTR.....T	127
NTDB	id	1197	PSJM300	03940	AFN76866.1		EGYICGITDS.TSYCDVDID.....TAADGHIT...ECTAKG...GNAGKFDDGKTITLNR.....	117
NTDB	id	1191	AAC28468.1	484.	945()		NVIFDS.....ANGLDGKYFAPGGVTVT.PDTGAIT.NIAFDAG.....ANAGKMTITPTVIA.....AS	127
NTDB	id	191137	A6L77	RS00575	WP	0022020239.1	TSAGTAAAS.NEIKGKYVASVKVEGNA.SVASI..TATMNSG...NVNKDIKKTLV.....LVGKQN	123
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	TSACVASPPTDIKKGYVKEVEVKNQ....VV..TATMLSS...GVNNEIKGKKS.....LWGRRE	120
NTDB	id	1109	OK783	RS10670	WP	157147416.1	TSACVASA.STIKGKYVQKVEVAKG....VV..TAQMAST...GVNKEIQDKKS.....LWAKRQ	119
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	KTKC..HQTANCIPAA...FTLNNL.VTV.PAAGAASGAI..SITVNAAANDKG.....PIKQ.....NEKYILTATYA	131
NTDB	id	1188	NELON	RS01755	WP	003772458.1	NKTAAGGGAGCAAAAAGTQHASKYVKSIV.KVTEASPVDI..TVAISATEANGIPTGLDGNTRLFLPLVNK.AVP.AATS	147
NTDB	id	1424	RS	RS02795	WP	011000517.1	CSSVF...TPTKNVANLTIAGTGTPVGQII..IVTYT.T.....AAGGGTALVPTAAGTALPVSSAP	130
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	S.....SCVGVQEISASNATTNVATA..TCGASSAGQII..IVTMDTT.....KAKGANITLTPT.....YA	124
NTDB	id	1274	LPP	RS09530	WP	011214168.1	V.....SPAATPNVASIT..AIGA..NGVI..TITY.TA.....AAGGGTIVMTPTL.....QA	112
NTDB	id	1258	GCO85	RS09745	WP	014844212.1	V.....SPAATPNVQSITI..AIGA..NGVI..TITY.TA.....AAGGCTIIMTPTL.....QA	112
consensus							* * * * *	

NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	AADGLWKCTSD.....QDEQFIPKGC	CSK.....	150	
NTDB	id	1197	PSJM300	03940	AFN	76866.1	TADGEWSCAST.....LDAKYKPGKCS		139	
NTDB	id	1191	AAC28468.1	484.	945()		GQISTWTCAPGA.....ANGIETRRLP	STCQ*.....	153	
NTDB	id	191137	A6L77	RS00575	WP	002220239.1	SGSFSWECKKG.....SVDEKFLP	STCRTK.....	148	
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	NGSVKWF CGQPVT	RADDDTVADA..KDGKEIDTKHLP	PSTCRDKASDAK	166
NTDB	id	1109	OK783	RS10670	WP	157147416.1	DGSVKWF CGQPVRT	RGDNDTVAA..DANNAIDTKHLP	PSTCRDESSAT.	164
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	SGNVTWSSSECKDATN.....AVQTSY	CP.....	154	
NTDB	id	1188	NELON	RS01755	WP	003772458.1	TGALDWACASAAKETAD	KRFGTGSGVAVGTLPAKYAPSECK		188
NTDB	id	1424	RS	RS02795	WP	011000517.1	SGPIMWTCYAQNKQAASS	VAPS...GTMSLAAKYAPAE	CR.....	168
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	SGAVTWKCTTT.....S.DKKYVP	SECRG.....	147	
NTDB	id	1274	LPP	RS09530	WP	011214168.1	NGDVTWCTGG.....TLLAKYR	PASCRP.....	136	
NTDB	id	1258	GC085	RS09745	WP	014844212.1	NGDVTWCTGG.....TLLAKYR	PASCRP.....	136	
consensus							* * ! *	** ** ! *		

 non conserved
 similar
 $\geq 50\%$ conserved