

NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	MKA	QKGFTLIELMIV	VA	IIGILAA	A	I	PQYQNY	V	AR	SEGAS	A	L	ASVNPL	K	T	VE	E	A	L	S	R	C	WSVKS	G	T	G	T	E	.	70																																							
NTDB	id	1197	PSJM300	03940	AFN76866.1		MKA	QKGFTLIELMIV	VA	IIGILAA	A	I	PAYQDYT	V	RS	N	A	A	A	L	A	E	I	T	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()			MLKK	QKGFTLIELMIV	VA	IIGILAA	A	I	PAYQDYT	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	306024	DV178	RS05600	WP	002220239.1	MKA	QKGFTLIELMIV	IA	V	GILAA	A	V	PAYQDYT	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	QKGFTLIELMIV	IA	V	GILAA	A	V	PAYQDYT	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	QKGFTLIELMIV	IA	V	GILAA	A	V	PAYQDYT	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	NKQKK	Q	Q	G	F	T	L	E	I	E	L	M	I	V	VA	I	I	G	I	L	A	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	.	72					
NTDB	id	1188	NELON	RS01755	WP	003772458.1	MKA	QKGFTLIELMIV	VA	I	I	G	I	L	A	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	E	I	E	L	M	I	V	VA	I	V	G	I	L	A	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	.	74
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	MNA	QKGFTLIELMIV	IA	I	G	I	L	A	A	I	P	A	Y	T	D	Y	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	QKGFTLIELMIV	VA	I	I	G	I	L	A	A	I	P	A	Y	Q	D	Y	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	QKGFTLIELMIV	VA	I	I	G	I	L	A	A	I	P	A	Y	Q	D	Y	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												
consensus																																																																											

NTDB	id	1192	PAKAF RS23870 WP 024947914.1	..DATKKEVPLGVAAADANKLGTIALKP.....DPADGTADI	TLTFTMG...GAGPKNK	GKIITLTR.....T	127
NTDB	id	1197	PSJM300 03940 AFN76866.1	EGYICITDS.TSYCDVDID.....TAADGH	I...ECTAKG...GNAGKFD	GKTITLNR.....	117
NTDB	id	1191	AAC28468.1 484..945()	NVIFDS.....ANGLDGKYFAPGGVTVT.PDTGA	I..NIADFAG.....ANAGK	TMTITPTVIA.....AS	127
NTDB	id	306024	DV178 RS05600 WP 002220239.1	TSAGTAAAS.NEIKGKYVASVKVEGNA.SVA	SITATMNSG...NVNNDIK	GKTLV.....LVGKQN	123
NTDB	id	1119	NGFG RS11465 WP 017147169.1	TSACVASPPTDIKGKYVKEVEVKNQ....VV.	TATMLSS...GVNNEIK	GKKLS.....LWGRRE	120
NTDB	id	1109	OK783 RS10670 WP 157147416.1	TSACVASA.STIKGKYVQKV EVAKG....VV.	TAQMAST...GVNKEIQ	DKKLS.....LWAKRQ	119
NTDB	id	1400	DSB67 RS12660 WP 010643261.1	KTKC..HQTANCIPAA...FTLNNL.TVT.PAAGAAS	GAISITIVNAANDKG.....PIKQ	NEKYILTATYA	131
NTDB	id	1188	NELON RS01755 WP 003772458.1	NKTA AAGGGAGCAAAAAGTQHASKYVKS.V.KVTEASP	WDITVAISATEANGIPTGLD	CNTIRLFPLVNK.AVP.AATS	147
NTDB	id	1424	RS RS02795 WP 011000517.1	CSSVF...TPTKNVANLTIAGTGTVPGQI	I.IVITYT.T.....AAGGG	TALVPTAAGTALPVSSAP	130
NTDB	id	1002	ACIAD RS15100 WP 004923779.1	S.....SCVGVEISASNATTNVATA..TCGASSAG	QIIIVTMDTT.....KAKGAN	ITLTPT.....YA	124
NTDB	id	1274	LPP RS09530 WP 011214168.1	V.....SPAATPNVASTI..AIGA..NGVI	.TITY.TA.....AAGGG	TIVMTPTL.....QA	112
NTDB	id	1258	GC085 RS09745 WP 014844212.1	V.....SPAATPNVQSTI..AIGA..NGVI	.TITY.TA.....AAG	CGTIIMTPTL.....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()			GQISTWTCPAGA.....ANGIETRRLLPTSCQ*		153
NTDB	id	306024	DV178	RS05600	WP	002220239.1	SGSFSWECKKG.....SVDEKFLPST	CRTK.....	148
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	NGSVKWF CGQPVTTRADDDTVADA..KDGKE	IDTKHLPSTCRDKASDAK	166
NTDB	id	1109	OK783	RS10670	WP	157147416.1	DGSVKWF CGQPVTTRTGDNDDTVA..DANNA	IDTKHLPSTCRDESSAT	164
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	SGNVTWSSSECKDATN.....AVQTSYCP		154
NTDB	id	1188	NELON	RS01755	WP	003772458.1	TGALDWACASAAKETADKRFGTGTSGVAVGT	LPAKYAPSECK	188
NTDB	id	1424	RS	RS02795	WP	011000517.1	SGPIMWTCYAQNKAQAASSVAPS...GTMS	LAAKYAPAE	168
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	SGAVTWKCTTT.....S.DKKYVPSE	CRG.....	147
NTDB	id	1274	LPP	RS09530	WP	011214168.1	NGDVTWCTTGG.....TLLAKYRPAS	CRP.....	136
NTDB	id	1258	GC085	RS09745	WP	014844212.1	NGDVTWCTTGG.....TLLAKYRPAS	CRP.....	136
consensus							* * ! *	** ** ! *	

 non conserved
 similar
 $\geq 50\%$ conserved