

NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	MKA	QKGF	TLIELM	MIV	V	A	I	I	G	I	L	A	A	I	A	I	P	Q	Q	N	Y	V	A	R	S	E	G	A	S	A	L	A	S	V	N	P	L	K	T	T	V	E	E	A	L	S	.R	G	W	S	V	K	S	G	T	G	T	E	.	70											
NTDB	id	1197	PSJM300	03940	AFN	76866.1	MKA	QKGF	TLIELM	MIV	V	A	I	I	G	I	L	A	A	I	A	L	P	A	Y	Q	D	Y	T	V	R	S	N	A	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	T	D	..	71											
NTDB	id	1191	AAC28468.1	484..945()			MLKK	VQKG	FTLIEL	MIV	I	A	I	G	I	L	A	A	I	A	L	P	A	Y	Q	D	Y	T	A	R	A	Q	T	E	G	F	K	A	T	A	G	L	T	D	L	G	A	W	A	R	D	R	G	S	F	P	N	A	A	A	L	V	A	G	.	74											
NTDB	id	190180	A6L30	RS07690	WP	002202239.1	MKA	I	K	G	F	T	L	I	E	L	M	I	V	I	A	V	G	I	L	A	A	V	A	L	P	A	Y	Q	D	Y	T	A	R	A	Q	M	S	E	A	L	T	L	A	E	G	Q	K	S	A	V	T	E	Y	S	D	N	G	T	F	P	N	S	N		68						
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	MNT	L	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	V	G	I	L	A	A	V	A	L	P	A	Y	Q	D	Y	T	A	R	A	Q	V	S	E	A	I	L	L	A	E	G	Q	K	S	A	V	T	E	Y	Y	L	N	H	G	K	W	P	E	N	N		68				
NTDB	id	1109	OK783	RS10670	WP	157147416.1	MNT	L	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	V	G	I	L	A	A	V	A	L	P	A	Y	Q	D	Y	T	A	R	A	Q	V	S	E	A	I	L	L	A	E	G	Q	K	S	A	V	T	E	Y	Y	L	N	H	G	I	W	P	K	D	N		68				
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	...MKT	N	K	Q	K	Q	K	Q	Q	G	F	T	L	I	E	L	M	I	V	I	A	I	G	I	L	A	A	L	P	A	Y	Q	D	Y	T	K	K	A	T	M	A	E	F	P	K	I	A	S	T	K	L	A	V	E	L	C	A	H	E	A	A	D	G		AF	72					
NTDB	id	1188	NELON	RS01755	WP	003772458.1	MKA	M	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	I	G	I	L	A	A	I	A	L	P	A	Y	Q	D	Y	T	V	R	S	K	V	S	E	A	I	A	A	S	S	P	K	S	A	L	S	E	A	F	Q	T	D	G	I	T	G	M	T	A	A	A	K	A	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	I	A	V	G	I	L	A	A	I	A	L	P	A	Y	Q	D	Y	T	V	R	A	R	V	T	E	G	L	S	L	A	A	Q	A	K	A	L	V	S	E	N	A	N	A	Q	S	D	L	S	V		74	
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	MNA	Q	K	G	F	T	L	I	E	L	M	I	V	I	A	I	G	I	L	A	A	I	A	L	P	A	Y	T	D	Y	T	V	R	A	R	V	S	E	G	L	T	A	A	S	S	M	K	T	T	V	S	E	N	I	L	N	A	G	A	L	V	A	G	T	P	S	T	A	G		

NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	..DATKKEVPL	GVAADANKLGTIA	LKP.....DPAD	GTADITL	TLFTMG...	GAGPKNK	GKIITL	ITR.....T	127	
NTDB	id	1197	PSJM300	03940	AFN76866.1		EGYI	GITDS.TSYCDVD	LD.....TAAD	GHTI...	ECTAKG...	GNAGKFD	GKTI	ITLNR.....	117	
NTDB	id	1191	AAC28468.1	484..945()			NVIFDS.....	..ANGLDGKYF	APGGVTVT.PDT	GAI..N	IAFDAG.....	ANA	GKTI	ITPTVIA.....AS	127	
NTDB	id	190180	A6L30	RS07690	WP	002202239.1	TSA	GIAAS.NEIKGKY	VASV	KVEGNA.SV	ASI..	TATMNSS...	NVNKDIK	GKTLV.....	LVGKQN	123
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	TSA	GVASPPTDIKGY	VKEVEVKNG...	V...	TATMLSS...	GVNNEIK	GKKLS.....	..LWGRRE	120	
NTDB	id	1109	OK783	RS10670	WP	157147416.1	TSA	GVASA.STIKGKY	VQKVEVAKG...	V...	TAQMAST...	GVNKEIQDKK	LS.....	..LWAKRQ	119	
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	KTKC..HQTAN	GIPAA...FTLNN	L.TVT	PAGAAS	GAI..	SITVNAANDKG		PIKQ....	NEKYILTATYA	131
NTDB	id	1188	NELON	RS01755	WP	003772458.1	NKTAAAGGGGAG	GAAAAGTQHASKY	VKS...	KVTEASPWD	I..	TAISATEANGIPTGLD	GNTIR	IFPLVNK	..AVP.AATS	147
NTDB	id	1424	RS	RS02795	WP	011000517.1		GSSVF...TPTKN	VANL	TIAGTGTVP	GQI..	TVTYT.T.....	AAG	GGTAL	LVPTAAGTALPVSSAP	130
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	S.....SCV	GVQEISASNATTN	VATA..	TCGASSAG	QI..	IVTMDTT.....	KAK	GANITL	TPT.....YA	124
NTDB	id	1274	LPP	RS09530	WP	011214168.1	V.....	..SPAATPN	VASTI..	AIGA..	NGVI..	TITY.TA.....	AAG	GGTIV	MTPTL.....QA	112
NTDB	id	1258	GC085	RS09745	WP	014844212.1	V.....	..SPAATPN	VQSI..	AIGA..	NGVI..	TITY.TA.....	AAG	GGTIV	MTPTL.....QA	112
consensus								* *	*	*	* *	***	*	***	*	

NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	AADGLWKC	TSD.....	QDEQFIPKGC	SK.....	150			
NTDB	id	1197	PSJM300	03940	AFN	76866.1	TADGEWS	CAST.....	LDAYKYPGKC	S.....	139			
NTDB	id	1191	AAC28468.1	484..945()			GQISTWT	CAPGA.....	ANG	IETRRLLPTS	CQ*.....	153		
NTDB	id	190180	AE130	RS07690	WP	002220239.1	SGSFSW	ECKKG.....	SVDEKFLPST	CRTK.....	148			
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	NGSVKWF	CGQPVT	RADD	DTVADA..	KDGKE	IDTKHLPST	CRDKASDAK	166
NTDB	id	1109	OK783	RS10670	WP	157147416.1	DGSVKWF	CGQPVT	RTGD	NDDTVA..	DANNA	IDTKHLPST	CRDESSAT.	164
NTDB	id	1400	DSB67	RS12660	WP	010643261.1	SGNVTW	SSECKDATN		AVQTSYCP		154		
NTDB	id	1188	NELON	RS01755	WP	003772458.1	TGAIDWA	CASAAKET	ADKRFG	TGSGVAVGT	LPKAYAP	SECK.....	188	
NTDB	id	1424	RS	RS02795	WP	011000517.1	SGPIMWT	CYQNKQAQAASS	VAPS...GTMS	LAAKYAP	PAE	CR.....	168	
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	SGAVTW	CKTTT.....	S.	DKKYVP	SE	CRG.....	147	
NTDB	id	1274	LPP	RS09530	WP	011214168.1	NGDVTWT	CTGG.....	TL	LAKYR	PAS	CRP.....	136	
NTDB	id	1258	GC085	RS09745	WP	014844212.1	NGDVTWT	CTGG.....	TL	LAKYR	PAS	CRP.....	136	
consensus							* * ! *		** ** ! **					

 non conserved
 similar
 $\geq 50\%$ conserved