

NTDB	id	1184	GTF74	RS02335	WP	000649326.1	MKAYKNKQ	QKGF	TLIELM	IVVAV	IGV	LAA	AIAIP	QYQNYVKK	SA	IGV	GLAN	ITAL	KTN	I	E	D	Y	I	A	T	E	G	S	F	P	A	T	I	A	G	T	A	A	G	F	.	79															
NTDB	id	1167	A1552VC	RS11065	WP	000649326.1	MKAYKNKQ	QKGF	TLIELM	IVVAV	IGV	LAA	AIAIP	QYQNYVKK	SA	IGV	GLAN	ITAL	KTN	I	E	D	Y	I	A	T	E	G	S	F	P	A	T	I	A	G	T	A	A	G	F	.	79															
NTDB	id	1160	ABDM36	RS02330	WP	000649326.1	MKAYKNKQ	QKGF	TLIELM	IVVAV	IGV	LAA	AIAIP	QYQNYVKK	SA	IGV	GLAN	ITAL	KTN	I	E	D	Y	I	A	T	E	G	S	F	P	A	T	I	A	G	T	A	A	G	F	.	79															
NTDB	id	1292	VP	RS12235	WP	005479693.1	MKHSKQKK	QKGF	TLIELM	IVVAV	IGV	LAA	AIAIP	AYQNYVTR	SE	VT	SG	LAT	V	KAL	IT	P	A	E	L	H	Y	Q	N	G	I	A	A	A	T	L	A	.	.	.	.	.	74															
NTDB	id	1038	HON27	RS01510	WP	000993725.1	MNA	QKGF	TLIELM	IVVAV	I	G	LAA	AIAIP	QYQNYIAK	SQ	VNS	G	F	S	E	I	S	S	I	K	T	G	Y	E	N	A	V	N	E	G	A	V	P	T	K	L	S	.	67													
NTDB	id	191898	BCV67	RS04900	WP	062166721.1	MKK	QKGF	TLIELM	IVVAV	I	A	LAA	AIAIP	P	M	R	D	Y	V	A	K	S	Q	L	A	A	A	L	A	E	I	N	P	A	K	T	A	L	E	V	A	L	Q	E	N	C	A	Y	V	P	A	T	P	Q	.	69	
NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	MKA	QKGF	TLIELM	IVVAV	I	G	LAA	AIAIP	QYQNYVAR	S	E	G	A	S	A	L	A	S	V	N	P	L	K	T	T	V	E	A	L	S	R	G	V	S	V	K	S	G	T	G	E	D	A	T	K	K	.	75				
NTDB	id	1197	PSJM300	03940	AFN	76866.1	...MKAQM	QKGF	TLIELM	IVVAV	I	G	LAA	AIAIP	AYQDYTVR	S	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	D	E	.	72										
NTDB	id	1204	PSJM300	03935	AFN	76865.1	..MKPVKSS	C	R	G	S	L	I	E	L	M	IVVAV	I	G	LAA	AIAIP	AYQNYTVR	S	T	A	A	S	A	L	A	E	I	T	P	A	K	A	F	E	Q	A	I	N	E	G	H	T	P	S	L	V	S	S	L	P	.	74	
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	MNTL	QKGF	TLIELM	IVVAV	I	A	T	V	G	LAA	AIAIP	AYQDYTVR	A	R	V	S	E	G	I	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	S	S	.	74
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	MR	QKGF	TLIELM	IVVAV	I	G	LAA	AIAIP	AYQDYTVR	A	R	V	T	E	G	L	T	L	A	D	S	A	K	L	A	V	S	E	T	A	I	T	N	N	A	L	P	A	T	Q	A	A	T	G	Y	V	.	72				
NTDB	id	1274	LPP	RS09530	WP	011214168.1	MR	QKGF	TLIELM	IVVAV	I	G	LAA	AIAIP	AYQDYTVR	A	R	V	T	E	G	L	T	L	A	D	S	A	K	L	A	V	S	E	T	A	I	T	N	N	A	L	P	A	T	Q	A	A	T	G	Y	V	.	72				
NTDB	id	1258	GC085	RS09745	WP	014844212.1	MR	QKGF	TLIELM	IVVAV	I	G	LAA	AIAIP	AYQDYTVR	A	R	V	T	E	G	L	T	L	A	D	S	A	K	L	A	V	S	E	T	A	I	T	N	N	A	L	P	A	T	Q	A	A	T	G	Y	V	.	7				

NTDB id	1184	GTF74 RS02335 WP 000649326.1	.TRLGVTEVDMG.DGKIVLIAPTASGALGT..IKYTFD....AGVVSSSKIQLA...RD.ANGLWTCSTTV.....	137
NTDB id	1167	A1552VC RS11065 WP 000649326.1	.TRLGVTEVDMG.DGKIVLIAPTASGALGT..IKYTFD....AGVVSSSKIQLA...RD.ANGLWTCSTTV.....	137
NTDB id	1160	ABDM36 RS02330 WP 000649326.1	.TRLGVTEVDMG.DGKIVLIAPTASGALGT..IKYTFD....AGVVSSSKIQLA...RD.ANGLWTCSTTV.....	137
NTDB id	1292	VP RS12235 WP 005479693.1	..QLGVDDVAANDLGALDSA....LAGGSPTLTFT....FDADSSIDGGILTFT...RD.AATGWSCLPTA.....	130
NTDB id	1038	HON27 RS01510 WP 000993725.1	..DVGFTAATSSVCACTYSIDAF.TETDGAGKI.LTCTLKG..NPKIATKIVELT...RS.TDGAWICVSADV.....	127
NTDB id	191898	BCV67 RS04900 WP 062166721.1	..DLGLQTAPTPRCSA.....YGASATVLSCVTLG..NDIIVTCAVVTILT...RTPATGAWACTIONTG.....	123
NTDB id	1192	PAKAFA RS23870 WP 024947914.1	EVPLCVAADANKLGTITAKP...DPADGTADITLTFMTGGAGPKNGKGIITL...RTAADGLWKICTSDQ.....	139
NTDB id	1197	PSJM300 03940 AFN76866.1	.GYIGITDSTS.YCDVLDL...TAADGH..IE.CTAKGGNAGKFDEKTIITLN...RT.ADGEWSCASTL.....	129
NTDB id	1204	PSJM300 03935 AFW6865.1	.GFIGIGASTN.YCTVTLI...ATATGS..IT.CTTQGMPDRFENGKTITIA...RT.TDGLWDCTISDL.....	131
NTDB id	1119	NGFG RS11465 WP 017147169.1	..PPT.....DIKKKYVK.EVEVKNGVVTATMLSSGVVNNEIKGKKLSLV.GRENGSVKWFCGPVTRADDDEVAD	142
NTDB id	1002	ACIAD RS15100 WP 004923779.1	..CVRVQEIASNAATTNVATAT.CGASSAGQIIIVTMDT...TKAKGANITLTPT.YASGAVTWKCTTT.....	135
NTDB id	1274	LPP RS09530 WP 011214168.1	SPAATPNVASIA.IGA..NGVITITY.T....AAAGGGTIVMPTPLQANGDVTWTCTGG.....	123
NTDB id	1258	GC085 RS09745 WP 014844212.1	SPAATPNVQSIA.IGA..NGVITITY.T....AAAGGGTIVMPTPLQANGDVTWTCTGG.....	123
consensus			* * * * * * * * * * * * * * * *	

NTDB	id	1184	GTF74	RS02335	WP	000649326.1	TSEIAP	PKGCT	AGATIN.....	153
NTDB	id	1167	A1552VC	RS11065	WP	000649326.1	TSEIAP	PKGCT	AGATIN.....	153
NTDB	id	1160	ABDM36	RS02330	WP	000649326.1	TSEIAP	PKGCT	AGATIN.....	153
NTDB	id	1292	VP	RS12235	WP	005479693.1	PAIAVDG	CS.....		139
NTDB	id	1038	HON27	RS01510	WP	000993725.1	PTEFL	PKGCT	AGTPTGEGAITSL	149
NTDB	id	191898	BCV67	RS04900	WP	062166721.1	...GTGLVAKHR	PGGCT		137
NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	DEQFI	PKGCSK		150
NTDB	id	1197	PSJM300	03940	AFN	76866.1	DSKYK	PGKCS		139
NTDB	id	1204	PSJM300	03935	AFN	76865.1	DSRYK	PGKCL		141
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	AKDGKEIDTKHL	PST	CRDKASDAK....	166
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	S.DKKYV	PSECRG		147
NTDB	id	1274	LPP	RS09530	WP	011214168.1	TLLAKYR	PASCRP		136
NTDB	id	1258	GCO85	RS09745	WP	014844212.1	TLLAKYR	PASCRP		136
consensus								* !	* !	

 non conserved
 similar
 $\geq 50\%$ conserved