

NTDB	id	1184	GTF74	RS02335	WP	000649326.1	..MKAYKKNQ	KQGFTLIELMIVVA	VIGVLA	AIAIPQYQN	YVVKSA	IGVGLAN	ITALKTN	IEDYIATEG	SFPATTAGT	AAG	78
NTDB	id	1167	A1552VC	RS11065	WP	000649326.1	..MKAYKKNQ	KQGFTLIELMIVVA	VIGVLA	AIAIPQYQN	YVVKSA	IGVGLAN	ITALKTN	IEDYIATEG	SFPATTAGT	AAG	78
NTDB	id	1160	ABDM36	RS02330	WP	000649326.1	..MKAYKKNQ	KQGFTLIELMIVVA	VIGVLA	AIAIPQYQN	YVVKSA	IGVGLAN	ITALKTN	IEDYIATEG	SFPATTAGT	AAG	78
NTDB	id	1292	VP	RS12235	WP	005479693.1	..MKHSKQKK	QQGFTLIELMIVVA	IIGVLA	AAIAPAYQN	YVTRESE	TVTSGLAT	VKALITPAEL	HYQENGI	.AAAAA.....		71
NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	MKA	KQGFTLIELMIVVA	IIGILA	AIAIPQYQN	YVARSEGAS	ALASVNPLKT	TVEEALSRGWS	.VKSGTGTE	DA		72
NTDB	id	1038	HON27	RS01510	WP	000993725.1	MNA	KQGFTLIELMIVVA	IIGILA	AIAIPQYQN	YIAKSQVNS	GFSEISSIK	TGYENAVNEG	AVPTKLS			67
NTDB	id	254201	CR152	RS11130	WP	307718568.1	MKSMKMMKKA	QAQGTFLIELMIVVA	IIGILAA	VALPAYQD	YVAKSQVAA	SLAEITPGKVQ	VETKLAE	GTA.VA			71
NTDB	id	1197	PSJM300	03940	AFN	76866.1	MKAQM	KQGFTLIELMIVVA	IIGILAA	IAPAYQDY	TVTRSNAAA	ALAEITPKIGF	EQAINEGT	PSLTST			70
NTDB	id	1204	PSJM300	03935	AFN	76865.1	...MKPVKSSC	RGSFLIELMIVVA	IIGILAA	IAPAYQNY	TVTRSTAAS	ALAEITPAKAAF	EQAISEGHT	PSLVSS			72
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	MNTL	KQGFTLIELMIV	IAIVGILA	AVALPAYQDY	TARAQVSE	AILLAEGQK	SAVTEYYLNH	GKWPENNTS	AGVA		74
NTDB	id	1109	OK783	RS10670	WP	157147416.1	MNTL	KQGFTLIELMIV	IAIVGILA	AVALPAYQDY	TARAQVSE	AILLAEGQK	SAVTEYYLNH	GIWPKDN	TSAGVA		74
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	MNA	KQGFTLIELMIV	IAIIGILA	AIAIPAYTDY	TVRARVSEGL	TAASSMKTT	VSENILNAG	CALVAGTP	PSTAGS		73
NTDB	id	1274	LPP	RS09530	WP	011214168.1	MR	KQGFTLIELMIVVA	IIGILAA	IAPAYQDY	TIRARVTEGL	TLADSACLAV	SETAITNNAL	PATQAAT	GYV		72
NTDB	id	1258	GC085	RS09745	WP	014844212.1	MR	KQGFTLIELMIVVA	IIGILAA	IAPAYQDY	TIRARVTEGL	TLADSACLAV	SETAITNNAL	PATQAAT	GYV		72
consensus								**!	*	!!	!!!!!!	*!*	*!	*!	*!	*!	*
								**	*	*	**	*	**	*	**	*	*

NTDB	id	1184	GTF74	RS02335	WP	000649326.1	FT...RL	LG	TVED	MGD	GKI	VI	APTAS	GALG	GT	IKY	TFD...	AGV	VSSSK	IQLA...	RD	ANGL	WTC	ST	135			
NTDB	id	1167	A1552VC	RS11065	WP	000649326.1	FT...RL	LG	TVED	MGD	GKI	VI	APTAS	GALG	GT	IKY	TFD...	AGV	VSSSK	IQLA...	RD	ANGL	WTC	ST	135			
NTDB	id	1160	ABDM36	RS02330	WP	000649326.1	FT...RL	LG	TVED	MGD	GKI	VI	APTAS	GALG	GT	IKY	TFD...	AGV	VSSSK	IQLA...	RD	ANGL	WTC	ST	135			
NTDB	id	1292	VP	RS12235	WP	005479693.1	..TLAQ	LG	VDVA	ANDL	GAI		DS	ALAG	GSPTL	TFTFD	ADSS	IDGGI	LFTT	..RD	AATG	WSC	SLP	128				
NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	TKKEVP	LG	VAAD	ANKL	GTI	ALK	PDP	ADGT	AD	ITLT	FTMG	GAGP	KNKGKI	ITLT	..RTA	ADGL	WK	TS	137			
NTDB	id	1038	HON27	RS01510	WP	000993725.1		DV	GF	TAA	TSSV	CATYS	IDA	FTET	DG	AKITC	TLKGN	..PK	IATKI	VELT	..RS	TDGA	WT	CVS	125			
NTDB	id	254201	CR152	RS11130	WP	307718568.1	..APT	D	IGIA	AVT	KRCSA	..VAA	AVAVT	GAGS	IEC	TMIGN	..SD	VTGKT	IKWA	..RV	ATGA	WAC	TS	129				
NTDB	id	1197	PSJM300	03940	AFN	76866.1	..DEGY	IG	ITD	ST	SYCDV		DL	DTA	AD	GHIEC	TAKGG	NAGK	FDGKT	ITLN	..RT	ADGE	W	SCAS	127			
NTDB	id	1204	PSJM300	03935	AFN	76865.1	..LPGF	IG	I	GAST	NYCTV		TLI	ATAT	GS	ITC	TTQNG	MPDR	FN	GKTI	ITIA	..RT	TDGL	WD	CTS	129		
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	S.PPTD	IK		GKY	V		KE	VEV	KN	GV	VTAT	MLSS	GVNNE	IKGKK	LSLW	GRREN	GSVK	WFC	GGPV	TRADDDTV	140	
NTDB	id	1109	OK783	RS10670	WP	157147416.1	S.A	STIK		GKY	V		QK	VEV	AK	GV	VTQA	MAST	GVNKE	IQDKK	LSLW	AKRQD	GSVK	WFC	GGPV	TRTGDNDD	139	
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	S	CVGV	QE	ISAS	..N	ATTN	VATAT	CG	ASSA	GQI	IIVT	MDTT		KAK	GAN	ITLT	PT	YAS	GA	VTWK	CTT	134
NTDB	id	1274	LPP	RS09530	WP	011214168.1		SP	..A	ATPN	VASIA	IGA	..N	GV	ITITY	TA		AAG	GGT	IVMT	PTLQ	ANG	DVT	WT	CTG		122	
NTDB	id	1258	GC085	RS09745	WP	014844212.1		SP	..A	ATPN	VQ	SIA	IGA	..N	GV	ITITY	TA		AAG	GGT	IIMT	PTLQ	ANG	DVT	WT	CTG		122
consensus							**				*		*		*		*	*	*	*	*	*	*	*	!*	!*	*	*

Accession	Gene	Protein	Sequence	Score
NTDB id 1184	GTF74	RS02335	WP 000649326.1	153
NTDB id 1167	A1552VC	RS11065	WP 000649326.1	153
NTDB id 1160	ABDM36	RS02330	WP 000649326.1	153
NTDB id 1292	VP RS12235	WP 005479693.1		139
NTDB id 1192	PAKAF	RS23870	WP 024947914.1	150
NTDB id 1038	HON27	RS01510	WP 000993725.1	149
NTDB id 254201	CR152	RS11130	WP 307718568.1	141
NTDB id 1197	PSJM300	03940	AFN76866.1	139
NTDB id 1204	PSJM300	03935	AFN76865.1	141
NTDB id 1119	NGFG	RS11465	WP 017147169.1	166
NTDB id 1109	OK783	RS10670	WP 157147416.1	164
NTDB id 1002	ACIAD	RS15100	WP 004923779.1	147
NTDB id 1274	LPP	RS09530	WP 011214168.1	136
NTDB id 1258	GC085	RS09745	WP 014844212.1	136
consensus				136

 non conserved
 similar
 $\geq 50\%$ conserved