

NTDB	id	1038	HON27	RS01510	WP	000993725.1	MNA	QKGFTLIELMIVVAIIIGILAAIAIPQYQNYIA	KSQVNSGFSEISSIK	TCYEN	AVNEGAVPTKLSDV..	69			
NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	MKA	QKGFTLIELMIVVAIIIGILAAIAIPQYQNYVARSEGA	ALASVNPLK	TTVEE	ALSRGVSVKSGTGTED	71			
NTDB	id	1197	PSJM300	03940	AFN	76866.1	MKAQM	QKGFTLIELMIVVAIIIGILAAIALPAYQDYT	VRSNAAALAEITPG	KIGFEQ	AINECKTPSLTSTDE	72			
NTDB	id	1204	PSJM300	03935	AFN	76865.1	MKPVKSSC	RGFSLIELMIVVAIIIGILAAIALPAYQNYTV	RSNTAAALAEITPA	KAAFEQ	AISEGHTPSLVSSLP	74			
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	MNTL	QKGFTLIELMIVTAIVGILAAVALPAYQDYT	ARAQVSEAILL	AEGQKSAVTEYY	LNHGKWPENNTS...	70			
NTDB	id	1191	AAC28468.1	484..945()			MLKKV	QKGFTLIELMIVTAIIGILAAIALPAYQDYT	ARAQATEGF	KATAGLQ	IDLGAWRADRGSP	NAAALVAG	74		
NTDB	id	1188	NELON	RS01755	WP	003772458.1	MKAM	QKGFTLIELMIVTAIIGILAAIALPAYQDYT	VRSKVSEALIA	ASSPKSALS	EAFQTDGITGM	TAAAKAF	73		
NTDB	id	355721	KAN01	RS01600	WP	032011721.1	MNA	QKGFTLIELMIVVAIIIGILAAIAIPAYQDYI	VRSKVTEGLN	LASSYK	TVIAENAGN	ASSLV.....	66		
NTDB	id	1424	RS	RS02795	WP	011000517.1	MKSMRHLNKR	VQKGFTLIELMIVVAIVGILAAIAIPAYQDYT	VRARVTEGL	SLAAQA	KALVSEN	AANAQSDLSV.....	74		
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	MNA	QKGFTLIELMIVTAIIGILAAIAIPAYTDYT	VRARVSEGL	TAASSMK	TTVSENI	LINAGALVAG	TGPSTAG	72	
NTDB	id	1274	LPP	RS09530	WP	011214168.1	MR	QKGFTLIELMIVVAIIIGILAAIAIPAYQDYT	IRARVTEGL	TLADSA	KLAVSET	AITNNAL	PATQAATGY	71	
NTDB	id	1258	GC085	RS09745	WP	014844212.1	MR	QKGFTLIELMIVVAIIIGILAAIAIPAYQDYI	IRARVTEGL	TLADSA	KLAVSET	AITNNAL	PATQAATGY	71	
consensus								*****MNA	QKGFTLIELMIVVAIIIGILAAIAIPQYQNYIA	KSQVNSGFSEISSIK	TCYEN	AVNEGAVPTKLSDV..	69		
								*****MKA	QKGFTLIELMIVVAIIIGILAAIAIPQYQNYVARSEGA	ALASVNPLK	TTVEE	ALSRGVSVKSGTGTED	71		
								*****MKAQM	QKGFTLIELMIVVAIIIGILAAIALPAYQDYT	VRSNAAALAEITPG	KIGFEQ	AINECKTPSLTSTDE	72		
								*****MKPVKSSC	RGFSLIELMIVVAIIIGILAAIALPAYQNYTV	RSNTAAALAEITPA	KAAFEQ	AISEGHTPSLVSSLP	74		
								*****MNTL	QKGFTLIELMIVTAIVGILAAVALPAYQDYT	ARAQVSEAILL	AEGQKSAVTEYY	LNHGKWPENNTS...	70		
								*****MLKKV	QKGFTLIELMIVTAIIGILAAIALPAYQDYT	ARAQATEGF	KATAGLQ	IDLGAWRADRGSP	NAAALVAG	74	
								*****MKAM	QKGFTLIELMIVTAIIGILAAIALPAYQDYT	VRSKVSEALIA	ASSPKSALS	EAFQTDGITGM	TAAAKAF	73	
								*****MNA	QKGFTLIELMIVVAIIIGILAAIAIPAYQDYI	VRSKVTEGLN	LASSYK	TVIAENAGN	ASSLV.....	66	
								MKSMRHLNKR	VQKGFTLIELMIVVAIVGILAAIAIPAYQDYT	VRARVTEGL	SLAAQA	KALVSEN	AANAQSDLSV.....	74	
								*****MNA	QKGFTLIELMIVTAIIGILAAIAIPAYTDYT	VRARVSEGL	TAASSMK	TTVSENI	LINAGALVAG	TGPSTAG	72
								*****MR	QKGFTLIELMIVVAIIIGILAAIAIPAYQDYT	IRARVTEGL	TLADSA	KLAVSET	AITNNAL	PATQAATGY	71
								*****MR	QKGFTLIELMIVVAIIIGILAAIAIPAYQDYI	IRARVTEGL	TLADSA	KLAVSET	AITNNAL	PATQAATGY	71
								*****MNA	QKGFTLIELMIVVAIIIGILAAIAIPQYQNYIA	KSQVNSGFSEISSIK	TCYEN	AVNEGAVPTKLSDV..	69		

NTDB	id	1038	HON27	RS01510	WP	000993725.1	C	F	T	A	A	T	S	S	V	C	A	T	S	I	D	A	..	F	T	E	T	D	G	A	C	K	I	T	..	C	T	L	..	K	G	..	N	P	K	I	A	T	K	I	V	E	L	T	R	S		116																				
NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	AT...	K	K	E	V	P	L	G	V	A	A	D	A	N	K	L	G	T	I	A	L	K	P	...	D	P	A	D	G	T	A	D	I	T	L	T	F	T	..	M	G	G	A	G	P	K	N	K	G	K	I	T	L	T	R	T	A		128													
NTDB	id	1197	PSJM300	03940	AFN	76866.1		G	Y	I	G	I	T	D	S	T	..	Y	C	D	V	T	L	D		T	A	A	D	G	H	..	I	E	..	C	T	A	..	K	G	G	N	A	G	A	G	K	F	C	T	I	T	L	N	R	T		118																			
NTDB	id	1204	PSJM300	03935	AFN	76865.1		G	F	I	G	I	G	A	S	T	N	..	Y	C	T	V	T	L	I		A	T	A	T	G	S	..	I	T	..	C	T	T	..	Q	N	G	M	P	D	R	F	N	G	K	T	I	I	A	R	T		120																			
NTDB	id	1119	NGFG	RS11465	WP	017147169.1		A	G	V	A	S	P	P	T	D	I	K	G	K	Y	V	K	E	V	E	K		N	G	V	T	A	T	M	L	..	S	S	G	V	N	N	E	I	K	G	K	K	L	S	L	W	G		R	R	E		120																		
NTDB	id	1191	AAC28468.1	484..945()			NV	I	F	D	S	A	N	G	L		D	G	K	Y	F	A	P	G	G	V	..	T	V	T	P	D	T	G	A	I	N	I	A	F	D	A	G	A	N		A	G	K	T	M	T	I	T	P	T	V	I	A		A	S		127														
NTDB	id	1188	NELON	RS01755	WP	003772458.1	NK	T	A	A	A	G	G	G	G	A	G	T	Q	H	A	S	K	Y	V	K	S	V	..	K	V	T	E	A	S	P	W	D	I	T	V	A	I	S	A	I	S	E	A	N	G	I	P	T	G	L	D	C	N	T	I	R	L	F	P	L	V	N	K	A		V	P	A	A	S		147
NTDB	id	355721	KAN01	RS01600	WP	032011721.1		G	V	P	N	F	S	A	T	D	S		V	S	S	I	..	T	P	N	A	T	E	S	P	N	G	S	I	K	I	V	A	S	..	N	K	V		K	D	I	E	L	T	L	T	P	D	G	G	G	N	T	P	L	T	A	G	T	V	P		121								
NTDB	id	1424	RS	RS02795	WP	011000517.1		G	S	S	V	F	..	T	P	T	K	N	V	A	N	L	T	I	A	G	T	G	T	V	P	G	Q	I	T	V	T	Y	T	..	T	A	A		G	G	T	L	A	L	V	P	T	A	A	G	T	A	..	L	P	V	S	S	A	P		130										
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1		S	S	C	V	G	V	E	I	S	A	S	N	A	T	T	N	V	A	T	A	..	T	C	G	A	S	S	A	G	Q	I	I	V	T	M	D	T	T	K	A		K	G	A	N	I	T	L	T	P	T		Y	A		124															
NTDB	id	1274	LPP	RS09530	WP	011214168.1		V		S	P	A	A	T	P	N	V	A	S	I	..	A	I	G	A	..	N	G	V	I	T	I	T	Y	..	T	A	A	A		G	G	G	T	I	V	M	T	P	T	L		Q	A		112																						
NTDB	id	1258	GC085	RS09745	WP	018444																																																																								

NTDB	id	1038	HON27	RS01510	WP	000993725.1	.TDGAWTTCVSD.....	VPTEFLPKGCTAGTPTEGAITSL	149
NTDB	id	1192	PAKAF	RS23870	WP	024947914.1	.ADGLWKCTSD.....	QDEQFIPKGCCK	150
NTDB	id	1197	PSJM300	03940	AFN	76866.1	.ADGEWSCAST.....	LDAKYKPKGCS	139
NTDB	id	1204	PSJM300	03935	AFN	76865.1	.TDGLWDCTSD.....	LDSRYKPKGKCL	141
NTDB	id	1119	NGFG	RS11465	WP	017147169.1	NGSVKWFCCGPVTRADDDTVADAK..	DGKEIDTKHLPSTCRDKASDAK....	166
NTDB	id	1191	AAC28468.1	484..945()			GQISTWTCAPGAANG..	IETBRLPTSCQ*	153
NTDB	id	1188	NELON	RS01755	WP	003772458.1	TGAIIDWACASAAKETADKRFGTGS	GVAVGTLPAKYAPSECK	188
NTDB	id	355721	KAN01	RS01600	WP	032011721.1	TNQITWKCTVATPA.....	DNNKYVPANCRS	147
NTDB	id	1424	RS	RS02795	WP	011000517.1	SGPIMWTCYAQNKAQAASSVAPS...	GTMSLAAKYAPAECR	168
NTDB	id	1002	ACIAD	RS15100	WP	004923779.1	SGAVTWKCTTT.....	S.DKKYVPSECRG	147
NTDB	id	1274	LPP	RS09530	WP	011214168.1	NGDVTWTCCTGG.....	TLLAKYRPASCRP	136
NTDB	id	1258	GC085	RS09745	WP	014844212.1	NGDVTWTCCTGG.....	TLLAKYRPASCRP	136
consensus							* * ! !	* ** ! ! *	

 non conserved
 similar
 $\geq 50\%$ conserved