

NTDB id	624	LCA RS00040 WP 011373726.1	MINRVVLVGRLLRDVLDLYRTSSGAAVGTF	SMAVNRRQFTNA	NGDREADFI	NCVLRKSAENFANFK	KGSLVGVDGR	LQTRN	YENQ	85	
NTDB id	113	BSU 40900 NP 391970.1	MLNRVVVLVGRLLTKDPRLRYTPNGAAVATFTL	AVNRRFTTN	SGGERADFI	NCVTWRBQAENVANFLK	KGSLAGVDGR	LQTRN	YENQ	85	
NTDB id	597	KW2 RS01935 WP 021036727.1	.MKNKTMLIGRLTNAPEISKTTNNKSYYVRV	TNAVNRFFKNEK	GEREADFI	ISTILWGKSAETLVSYAK	KGSLISV	EGETR	RNYTDK	84	
NTDB id	498	SM12261 RS01980 WP 000282464.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATI	AVNRRYKDQ	NGEREAADFVM	VWLWGKLAESLASAYAT	KGSLISVDGELR	TRRFE	.K	84	
NTDB id	526	SMSK321 RS08825 WP 000282440.1	MYNKVILIGRLTSTPELHKTNNDKSVARATI	AVNRRYKDQ	NGEREAADFVM	VWLWGRLAETLASAYAT	KGSLISVDGELR	TRRFE	.K	84	
NTDB id	268	KZH43 RS08520 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATI	AVNRRYKDQ	NGEREAADFVM	VWLWGRLAETLASAYAT	KGSLISVDGELR	TRRFE	.K	84	
NTDB id	227	SPD RS09110 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATI	AVNRRYKDQ	NGEREAADFVM	VWLWGRLAETLASAYAT	KGSLISVDGELR	TRRFE	.K	84	
NTDB id	193	SPR RS08685 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATI	AVNRRYKDQ	NGEREAADFVM	VWLWGRLAETLASAYAT	KGSLISVDGELR	TRRFE	.K	84	
NTDB id	158	SP RS09595 WP 000282442.1	MYNKVILIGRLTSTPELHKTNNDKSVARATI	AVNRRYKDQ	NGEREAADFVM	VWLWGRLAETLASAYAT	KGSLISVDGELR	TRRFE	.K	84	
NTDB id	583	DLJ51 RS09560 WP 002962590.1	MYNKVILIGRLTAAPEMVKTPSNKSVTHIT	LAVNRRFKTK	DGERQADFVM	VFWCKLAESLSYAC	KGSLVS	EDGEI	TRRHYE	.K	84
NTDB id	27304	GALLO RS00720 WP 012961335.1	MYNKVIIGRLTAQPELVTTSEKSVTRVTL	AVNRRFKSK	QNGDREADFI	ISVWWGRLAETLVSYAC	KGSLISVDGELR	TRKYE	.K	84	
NTDB id	409	SMU RS08940 WP 002263454.1	MYNKVILIGRLVATPEPMKTPKDKSVTRVTL	AVNRRFKSK	DGEKGADFVM	VWLWGRLAETIASYGS	KGSLIS	EDGEI	TRRKYE	.K	84
consensus			*****! ! *	****	*	*****	* * ! * * * * *	*****	*****	*	

NTDB id 624	LCA RS00040 WP 011373726.1	Q	G	Q	R	V	Y	V	T	E	V	V	D	N	F	S	L	L	S	R	T	T	E	Q	R	G	D	G	A	S	Q	N	F	N	S	N	Q	S	N	G	S	Q		Q	S	G	F	T	S	P	Q	Q	T	G	N	A	P	A	A	N	N	T	Q	A	D	P	F	A	N	N	G	A	I	D	I	163						
NTDB id 113	BSU 40900 NP 391970.1	Q	G	Q	R	V	F	V	T	E	V	Q	A	E	S	V	Q	F	L	E	P	K	N	G	G	G	S	G	S		G	G	Y	N	E	G	N	S	G	G	G	Q	Y	F	G	G	G	Q	N	D	N	P	F	G	G	N	Q	N	Q	R	R	N	Q	G	N	S	F	N	D	D	P	F	A	N	D	G	K	P	I	D	I	165
NTDB id 597	KW2 RS01935 WP 021036727.1	N	E	Q	K	H	Y	I	T	E	I	L	G	L	S	Y	D	L	L	S	R	A	T	L	A	L	R	E	S	A	V	K		T	E	E	L	L		122																																										
NTDB id 498	SM12261 RS01980 WP 000282464.1	N	G	Q	M	N	Y	V	T	E	V	L	V	T	G	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	A	G		Q	D	L	A	D	L	V	L		124																																							
NTDB id 526	SMK321 RS08825 WP 000282440.1	N	G	Q	M	N	Y	V	A	E	V	L	V	T	G	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	A	G		Q	D	L	A	D	L	V	L		124																																							
NTDB id 268	KZH43 RS08520 WP 000282467.1	N	G	Q	M	N	Y	V	T	E	V	L	V	T	G	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	A	G		Q	D	L	A	D	L	V	L		124																																							
NTDB id 227	SPD RS09110 WP 000282467.1	N	G	Q	M	N	Y	V	T	E	V	L	V	T	G	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	A	G		Q	D	L	A	D	L	V	L		124																																							
NTDB id 193	SPR RS08685 WP 000282467.1	N	G	Q	M	N	Y	V	T	E	V	L	V	T	G	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	A	G		Q	D	L	A	D	L	V	L		124																																							
NTDB id 158	SP RS09595 WP 000282442.1	N	G	Q	M	N	Y	V	T	E	V	L	V	T	G	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	A	G		Q	D	L	A	D	L	V	L		124																																							
NTDB id 583	DLJ51 RS09560 WP 002962590.1	D	G	Q	T	H	Y	V	T	E	I	L	A	Q	S	F	Q	L	L	S	R	A	Q	R	A	L	R	E	N	N	A	G		S	D	L	T	D	L	V	L		124																																							
NTDB id 27304	GALLO RS00720 WP 012961335.1	D	G	H	T	N	Y	V	T	E	V	L	C	H	S	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	V	A		N	D	L	A	D	L	V	L		124																																							
NTDB id 409	SMU RS08940 WP 002263454.1	D	G	V	T	H	F	V	T	E	V	L	G	H	S	F	Q	L	L	S	R	A	Q	R	A	M	R	E	N	N	S	E		N	D	L	A	D	L	V	L		124																																							
consensus		*** ***** !* *** ***** ***** ***																																																																																

NTDB	id	624	LCA	RS00040	WP	011373726.1	S	DDDL	LPF	170
NTDB	id	113	BSU	40900	NP	391970.1	S	DDDL	LPF	172
NTDB	id	597	KW2	RS01935	WP	021036727.1	E	ADDEL	LPF	129
NTDB	id	498	SM12261	RS01980	WP	000282464.1	E	EEEE	LPF	131
NTDB	id	526	SM5K321	RS08825	WP	000282440.1	E	EEEE	LPF	131
NTDB	id	268	KZH43	RS08520	WP	000282467.1	E	EEEE	LPF	131
NTDB	id	227	SPD	RS09110	WP	000282467.1	E	EEEE	LPF	131
NTDB	id	193	SPR	RS08685	WP	000282467.1	E	EEEE	LPF	131
NTDB	id	158	SP	RS09595	WP	000282442.1	E	EEEE	LPF	131
NTDB	id	583	DLJ51	RS09560	WP	002962590.1	E	EEEE	LPF	131
NTDB	id	27304	GALLO	RS00720	WP	012961335.1	E	EEEE	LPF	131
NTDB	id	409	SMU	RS08940	WP	002263454.1	E	EEEE	LPF	131
consensus							*****	!!!!		

- X non conserved
- X similar
- X >50% conserved