

NTDB	id	1166	A1552VC	RS00795	WP	000168289.1	MASRGV	NK	VIL	IGN	LG	QD	PE	V	R	Y	M	P	S	G	G	A	V	A	N	I	T	I	A	T	S	E	T	W	R	D	K	A	T	G	E	Q	E	K	T	E	W	H	R	V	T	L	Y	G	K	L	A	E	V	A	G	E	Y	L	R	K	S	Q	V	Y	I		80										
NTDB	id	624	LCA	RS00040	WP	011373726.1	...	MIN	R	V	V	L	V	G	R	L	T	R	D	V	L	R	Y	T	S	S	G	A	A	V	G	T	F	S	M	A	V	N	R	Q	F	T	N	A	G	...	D	R	E	A	D	F	I	N	C	V	I	W	R	K	S	A	E	N	F	A	N	F	T	K	K	G	S	L	V	G	V		73				
NTDB	id	113	BSU	40900	NP	391970.1	...	ML	N	R	V	V	L	V	G	R	L	T	K	D	P	E	L	R	Y	T	P	N	G	A	A	V	A	T	F	T	L	A	V	N	R	T	F	T	N	Q	S	G	...	E	R	E	A	D	F	I	N	C	V	T	W	R	R	Q	A	E	N	V	A	N	F	L	K	K	G	S	L	A	G	V		73	
NTDB	id	41249	GEOTH	RS01460	WP	003247808.1	...	MIN	Q	V	V	L	V	G	R	L	T	K	D	P	E	L	R	Y	T	A	G	A	A	V	N	I	T	L	A	V	N	R	F	R	N	A	E	G	...	G	I	D	T	D	F	V	Q	C	T	L	R	K	A	E	N	T	A	N	C	R	K	G	S	I	I	G	V		73								
NTDB	id	112	BSU	36310	NP	391512.2	...	MF	N	Q	V	M	L	V	G	R	L	T	K	D	P	L	R	Y	T	S	A	G	A	V	A	H	V	T	L	A	V	N	R	S	F	R	N	A	S	G	...	E	I	E	A	D	Y	N	C	T	L	W	R	K	T	A	E	N	T	A	N	C	L	Y	C	K	G	S	L	V	G	V		73			
NTDB	id	597	KW2	RS01935	WP	021036727.1	...	M	N	K	T	M	L	I	G	R	L	T	N	A	P	E	I	S	K	T	T	N	N	K	S	Y	V	R	V	T	L	A	V	N	R	R	F	K	N	E	K	...	E	R	E	A	D	F	I	S	I	L	W	G	K	S	A	E	T	L	V	S	Y	A	K	K	G	S	L	I	S	V		72			
NTDB	id	498	SM12261	RS01980	WP	000282464.1	...	M	Y	N	K	V	I	M	I	G	R	L	T	S	T	P	E	L	H	K	T	N	N	D	K	S	V	A	R	A	T	I	A	V	N	R	R	Y	K	D	Q	N	G	...	E	R	E	A	D	F	V	N	M	V	L	W	G	K	L	A	E	S	L	A	S	Y	A	T	K	G	S	L	I	S	V		73
NTDB	id	526	SMK321	RS08825	WP	000282440.1	...	M	Y	N	K	V	I	L	I	G	R	L	T	S	T	P	E	L	H	K	T	N	N	D	K	S	V	A	R	A	T	I	A	V	N	R	R	Y	K	D	Q	N	G	...	E	R	E	A	D	F	V	N	M	V	L	W	G	R	L	A	E	T	L	A	S	Y	A	T	K	G	S	L	I	S	V		73
NTDB	id	158	SP	RS09595	WP	000282442.1	...	M	Y	N	K	V	I	L	I	G	R	L	T	S	T	P	E	L	H	K	T	N	N	D	K	S	V	A	R	A	T	I	A	V	N	R	R	Y	K	D	Q	N	G	...	E	R	E	A	D	F	V	N	M	V	L	W	G	R	L	A	E	T	L	A	S	Y	A	T	K	G	S	L	I	S	V		73
NTDB	id	268	KZH43	RS08520	WP	000282467.1	...	M	Y	N	K	V	I																																																																						

NTDB	id	1166	A1552VC	RS00795	WP	000168289.1	EQQLQTRKWKDQS	GQDRYSTE	VVVQG	YNGIMQMLGGR	RAQQGGMPA	QGG...MNV.....PAQQGSWGQPQQPAK	146
NTDB	id	624	LCA	RS00040	WP	011373726.1	DGRLQTRNYENQ	QGQRV	YVTEV	VVDNFSLL...	ESRTTTEQ	RQGDGASQNFNSNQSNGS.....QQSGFTSPQQGTGN	142
NTDB	id	113	BSU	40900	NP	391970.1	DGRLQTRNYENQ	QGQRV	FVTEV	QAESVFLL...	EPKNGG	GSGSGG....YNEGNSSGGGYFGGGQNDNPFGGNQNNQR	144
NTDB	id	41249	GEOTH	RS01460	WP	003247808.1	MGRIQTRNYEKKD	QQRV	FVTEV	VAESVRFM...	GGKTHAWI	IEHS.....	114
NTDB	id	112	BSU	36310	NP	391512.2	SGRIQTRS	YENEEGVNV	YVTEVL	ADTVRFM...	DPKPREKA	AD.....	113
NTDB	id	597	KW2	RS01935	WP	021036727.1	EGEIRTRNYTD	KNEQKH	YTITELGLS	YDLL...	ESRATLALRE	SAV..K.....	116
NTDB	id	498	SM12261	RS01980	WP	000282464.1	DGELRTRRFE.	KNGQMNY	YVTEVL	VTGFQLL...	ESRAQRAMREN	NAGQD.....	118
NTDB	id	526	SMK321	RS08825	WP	000282440.1	DGELRTRRFE.	KNGQMNY	YVAEVL	VTGFQLL...	ESRAQRAMREN	NAGQD.....	118
NTDB	id	158	SP	RS09595	WP	000282442.1	DGELRTRRFE.	KNGQMNY	YVTEVL	VTGFQLL...	ESRAQRAMREN	NAGQD.....	118
NTDB	id	268	KZH43	RS08520	WP	000282467.1	DGELRTRRFE.	KNGQMNY	YVTEVL	VTGFQLL...	ESRAQRAMREN	NAGQD.....	118
NTDB	id	227	SPD	RS09110	WP	000282467.1	DGELRTRRFE.	KNGQMNY	YVTEVL	VTGFQLL...	ESRAQRAMREN	NAGQD.....	118
NTDB	id	193	SPR	RS08685	WP	000282467.1	DGELRTRRFE.	KNGQMNY	YVTEVL	VTGFQLL...	ESRAQRAMREN	NAGQD.....	118
NTDB	id	583	DLJ51	RS09560	WP	002962590.1	DGEIRTRHYE.	KDGQTH	YVTEIL	AQSFQLL...	ESRAQRALREN	NAGSD.....	118
NTDB	id	409	SMU	RS08940	WP	002263454.1	DGELRTRKYE.	KDGVTH	FVTEVL	GHSFQLL...	ESRAQRAMREN	NSEND.....	118
consensus							*!*!!!!*	*!***	*!!**	*!!!	*****		

NTDB	id	1166	A1552VC	RS00795	WP	000168289.1	QHQPQQSAPQQYSQPYNEPP	MDF	DDDI	PF	177
NTDB	id	624	LCA	RS00040	WP	011373726.1	APAANNT...QADPFANNGQA	IDIS	DDDL	LPF	170
NTDB	id	113	BSU	40900	NP	391970.1	RNQGNSF...NDDPFANDGKP	IDIS	DDDL	LPF	172
NTDB	id	41249	GEOH	RS01460	WP	003247808.1					114
NTDB	id	112	BSU	36310	NP	391512.2					113
NTDB	id	597	KW2	RS01935	WP	021036727.1	TEEL	LEAD	ELPF		129
NTDB	id	498	SM12261	RS01980	WP	000282464.1	LADLV	EEEEELPF			131
NTDB	id	526	SMSK321	RS08825	WP	000282440.1	LADLV	EEEEELPF			131
NTDB	id	158	SP	RS09595	WP	000282442.1	LADLV	EEEEELPF			131
NTDB	id	268	KZH43	RS08520	WP	000282467.1	LADLV	EEEEELPF			131
NTDB	id	227	SPD	RS09110	WP	000282467.1	LADLV	EEEEELPF			131
NTDB	id	193	SPR	RS08685	WP	000282467.1	LADLV	EEEEELPF			131
NTDB	id	583	DLJ51	RS09560	WP	002962590.1	LTDLV	EEEEELPF			131
NTDB	id	409	SMU	RS08940	WP	002263454.1	LADLV	EEEEELPF			131
consensus							*	* * *	* * *	* * *	

 non conserved
 similar
 $\geq 50\%$ conserved