

NTDB	id	583	DLJ51	RS09560	WP	002962590.1	MYN	K	V	I	L	I	G	R	L	T	A	A	P	E	M	V	K	T	P	S	N	K	S	V	T	H	I	T	L	A	V	N	R	R	F	K	T	Q	D	G	E	R	G	A	D	F	V	N	V	F	W	G	K	L	A	E	S	L	V	S	Y	A	G	K	G	S	L	V	S	L	D	G	E	I	R	T	R	H	Y	E	K	.	84			
NTDB	id	498	SM12261	RS01980	WP	000282464.1	MYN	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	D	G	E	L	R	T	R	R	F	E	K	.	84		
NTDB	id	526	SMSK321	RS08825	WP	000282440.1	MYN	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	D	G	E	L	R	T	R	R	F	E	K	.	84		
NTDB	id	158	SP	RS09595	WP	000282442.1	MYN	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	D	G	E	L	R	T	R	R	F	E	K	.	84		
NTDB	id	268	KZH43	RS08520	WP	000282467.1	MYN	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	R	L	A	E	T	L	A	S	Y	A	T	K	G	S	L	I	S	V	D	G	E	L	R	T	R	R	F	E	K	.	84		
NTDB	id	227	SPD	RS09110	WP	000282467.1	MYN	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	R	L	A	E	T	L	A	S	Y	A	T	K	G	S	L	I	S	V	D	G	E	L	R	T	R	R	F	E	K	.	84		
NTDB	id	193	SPR	RS08685	WP	000282467.1	MYN	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	R	L	A	E	T	L	A	S	Y	A	T	K	G	S	L	I	S	V	D	G	E	L	R	T	R	R	F	E	K	.	84		
NTDB	id	75367	UKS	RS07270	WP	000609604.1	M	I	N	N	V	V	L	V	G	R	M	T	R	D	A	E	L	R	Y	T	P	S	N	V	A	V	A	T	F	T	L	A	V	N	R	T	F	K	S	Q	N	G	E	R	E	A	D	F	I	N	V	M	W	R	Q	Q	A	E	N	L	A	N	W	A	K	K	G	S	L	I	G	V	T	G	R	I	Q	T	R	S	Y	D	N	Q	.	85
NTDB	id	624	LCA																																																																																									

NTDB id	583	DLJ51 RS09560 WP 002962590.1	DGQTHYVTEI ^I LQS FQLLESRAQRALRENN ^{GASD}	LTDLV ^L	124
NTDB id	498	SM12261 RS01980 WP 000282464.1	NGQMNYVTEVLVTGFQLLESRAQRAMRENNA ^{GQD}	LADLV ^L	124
NTDB id	526	SMSK321 RS08825 WP 000282440.1	NGQMNYVAEVLVTGFQLLESRAQRAMRENNA ^{GQD}	LADLV ^L	124
NTDB id	158	SP RS09595 WP 000282442.1	NGQMNYVTEVLVTGFQLLESRAQRAMRENNA ^{GQD}	LADLV ^L	124
NTDB id	268	KZH43 RS08520 WP 000282467.1	NGQMNYVTEVLVTGFQLLESRAQRAMRENNA ^{GQD}	LADLV ^L	124
NTDB id	227	SPD RS09110 WP 000282467.1	NGQMNYVTEVLVTGFQLLESRAQRAMRENNA ^{GQD}	LADLV ^L	124
NTDB id	193	SPR RS08685 WP 000282467.1	NGQMNYVTEVLVTGFQLLESRAQRAMRENNA ^{GQD}	LADLV ^L	124
NTDB id	75367	UKS RS07270 WP 000609604.1	QGGRVYVTEVVAE ^{NFQMLESRSV} REGHTGGAYSAP	SSNYSAPTQS...VPDFSRDENPFG.TTNPLDI	149
NTDB id	624	LCA RS00040 WP 011373726.1	QGGRVYVTEVVVDNFSLLESRTTTEQRQCDGA	SQNFNNSNQSNGSQ.... QSGFTSPQQTG NAPAANNTQADPFANN GQAIDI	163
NTDB id	113	BSU 40900 NP 391970.1	QGGRVFVTEVQAESVQFLPEPKNGGCSGSG	GYNEGNSGGGQYFGGGQNDNPFGGNQNNQRRNQGNSFNDDPFANDGKPIDI	165
NTDB id	112	BSU 36310 NP 391512.2	EGVN ^{VVYVTEVL} ADTVRFMDPKPREKAAD	*****	113
consensus			*!*****!*!*****	*****	

NTDB id	Accession	Species	Strain	Year	Genotype	Phenotype
NTDB id 583	DLJ51	RS09560	WP	002962590.1	EEEELPF	131
NTDB id 498	SM12261	RS01980	WP	000282464.1	EEEELPF	131
NTDB id 526	SMSK321	RS08825	WP	000282440.1	EEEELPF	131
NTDB id 158	SP	RS09595	WP	000282442.1	EEEELPF	131
NTDB id 268	KZH43	RS08520	WP	000282467.1	EEEELPF	131
NTDB id 227	SPD	RS09110	WP	000282467.1	EEEELPF	131
NTDB id 193	SPR	RS08685	WP	000282467.1	EEEELPF	131
NTDB id 75367	UKS	RS07270	WP	000609604.1	SDDDLPF	156
NTDB id 624	LCA	RS00040	WP	011373726.1	SDDDLPF	170
NTDB id 113	BSU	40900	NP	391970.1	SDDDLPF	172
NTDB id 112	BSU	36310	NP	391512.2		113
consensus						*****

-  non conserved
-  similar
-  >50% conserved