

NTDB	id	597	KW2	RS01935	WP	021036727.1	.M	N	K	T	M	L	I	G	R	L	T	N	A	P	E	L	S	K	T	T	N	K	S	Y	V	R	V	T	L	A	V	N	R	R	F	K	N	E	K	G	E	R	E	A	D	F	I	S	I	L	W	G	K	S	A	E	T	L	V	S	Y	A	K	G	S	L	I	S	V	E	G	E	I	R	T	R		79			
NTDB	id	498	SM12261	RS01980	WP	000282464.1	M	N	K	V	I	M	I	G	R	L	T	S	T	P	E	L	H	K	T	N	M	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		80
NTDB	id	526	SMK321	RS08825	WP	000282440.1	M	N	K	V	I	L	I	G	R	L	T	S	T	P	E	L	H	K	T	N	M	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		80
NTDB	id	158	SP	RS09595	WP	000282442.1	M	N	K	V	I	L	I	G	R	L	T	S	T	P	E	L	H	K	T	N	M	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		80
NTDB	id	268	KZH43	RS08520	WP	000282467.1	M	N	K	V	I	M	I	G	R	L	T	S	T	P	E	L	H	K	T	N	M	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		80
NTDB	id	227	SPD	RS09110	WP	000282467.1	M	N	K	V	I	M	I	G	R	L	T	S	T	P	E	L	H	K	T	N	M	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		80
NTDB	id	193	SPR	RS08685	WP	000282467.1	M	N	K	V	I	M	I	G	R	L	T	S	T	P	E	L	H	K	T	N	M	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		80
NTDB	id	583	DLJ51	RS09560	WP	002962590.1	M	N	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	Q	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		80	
NTDB	id	409	SMU	RS08940	WP	002263454.1	M	N	K	V	I	L	I	G	R	L	V	A	T	P	E	M	V	K	T	P	K	D	K	S	V	T	R	V	T	L	A	V	N	R	R	F	K	S	Q	D	G	E	K																																						

NTDB id 597 KW2 RS01935 WP 021036727.1	N Y T D K N E Q K H Y I T E I L G L S Y D L L E S R A T L A L R E S A V K	116
NTDB id 498 SM12261 RS01980 WP 000282464.1	R F E E K N G Q M N Y V T E V L V T G F Q L L E S R A Q R A M R E N N A C Q D	118
NTDB id 526 SMSK321 RS08825 WP 000282440.1	R F E E K N G Q M N Y V A E V L V T G F Q L L E S R A Q R A M R E N N A C Q D	118
NTDB id 158 SP RS09595 WP 000282442.1	R F E E K N G Q M N Y V T E V L V T G F Q L L E S R A Q R A M R E N N A C Q D	118
NTDB id 268 KZH43 RS08520 WP 000282467.1	R F E E K N G Q M N Y V T E V L V T G F Q L L E S R A Q R A M R E N N A C Q D	118
NTDB id 227 SPD RS09110 WP 000282467.1	R F E E K N G Q M N Y V T E V L V T G F Q L L E S R A Q R A M R E N N A C Q D	118
NTDB id 193 SPR RS08685 WP 000282467.1	R F E E K N G Q M N Y V T E V L V T G F Q L L E S R A Q R A M R E N N A C Q D	118
NTDB id 583 DLJ51 RS09560 WP 002962590.1	H Y E I K D G Q T H Y V T E I L A Q S F Q L L E S R A Q R A L R E N N G A S D	118
NTDB id 409 SMU RS08940 WP 002263454.1	K Y E I K D G V T H E V T E V L G H S F Q L L E S R A Q R A M R E N N S E N D	118
NTDB id 346528 EXW59 RS15745 WP 002141572.1	N Y D D E C K R V Y R T E V L I E S I T F L E R R R E G A S Q	112
NTDB id 624 LCA RS00040 WP 011373726.1	N Y E N Q Q Q R R V Y V T E V V V D N F S L L E S R T T T E Q R Q 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	153
NTDB id 113 BSU 40900 NP 391970.1	N Y E N Q Q Q R R V E 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 N Q R R N Q G N S F N D D P	155
NTDB id 112 BSU 36310 NP 391512.2	S Y E N E E G V N V Y V T E V L A D T V R F M D P K P R E K A A D	113
consensus	* * * * *	

NTDB	id	597	KW2	RS01935	WP	021036727.1	TEELLLEADL	129
NTDB	id	498	SM12261	RS01980	WP	000282464.1	LADLVLEEEELPF	131
NTDB	id	526	SMK321	RS08825	WP	000282440.1	LADLVLEEEELPF	131
NTDB	id	158	SP	RS09595	WP	000282442.1	LADLVLEEEELPF	131
NTDB	id	268	KZH43	RS08520	WP	000282467.1	LADLVLEEEELPF	131
NTDB	id	227	SPD	RS09110	WP	000282467.1	LADLVLEEEELPF	131
NTDB	id	193	SPR	RS08685	WP	000282467.1	LADLVLEEEELPF	131
NTDB	id	583	DLJ51	RS09560	WP	002962590.1	LTDLVLEEEELPF	131
NTDB	id	409	SMU	RS08940	WP	002263454.1	LADLVLEEEELPF	131
NTDB	id	346528	EXW59	RS15745	WP	002141572.1		112
NTDB	id	624	LCA	RS00040	WP	011373726.1	FANNGQAIDISDDDLPF	170
NTDB	id	113	BSU	40900	NP	391970.1	FANDGKPIDISDDDLPF	172
NTDB	id	112	BSU	36310	NP	391512.2		113
consensus							* *****	

 non conserved
 similar
 $\geq 50\%$ conserved