

NTDB	id	624	LCA	RS00040	WP	011373726.1	MINRVVLVGR	LT	RDV	DLRY	TSSGA	AVG	TF	SM	AVNR	QF	TN	AN	GD	READ	F	INC	V	WR	KS	AE	NF	AN	TK	KG	SL	V	G	VD	GR	L	Q	TR	N	Y	EN	Q	85																																															
NTDB	id	113	BSU	40900	NP	391970.1	MLNRVVLVGR	L	TKD	PE	LR	YTP	NG	AA	VAT	FT	L	AVNR	T	FT	N	Q	S	G	E	R	E	A	D	F	I	N	C	V	T	WR	R	Q	A	E	N	V	A	N	F	L	K	K	G	S	L	A	G	V	D	G	R	L	Q	T	R	N	Y	E	N	Q	85																							
NTDB	id	45355	BAXH7	RS17800	WP	013353870.1	MFNHVMLVGR	L	TKD	PE	LR	YTS	AG	I	P	V	A	H	I	T	L	A	V	S	R	N	F	K	S	A	S	G	E	T	G	A	D	F	V	M	C	T	L	W	R	K	N	A	E	N	T	A	L	Y	C	Q	K	G	S	M	V	G	S	G	R	I	Q	T	R	S	Y	E	K	T	85															
NTDB	id	112	BSU	36310	NP	391512.2	MFNQVMLVGR	L	TKD	PE	LR	YTS	AG	A	A	V	A	H	I	T	L	A	V	N	R	S	F	K	N	S	G	E	I	E	A	D	F	V	M	C	T	L	W	R	K	N	A	E	N	T	A	L	Y	C	Q	K	G	S	L	V	G	S	G	R	I	Q	T	R	S	Y	E	N	E	85																
NTDB	id	597	KW2	RS01935	WP	021036727.1	.MNK	T	ML	I	G	R	L	T	N	A	P	E	I	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	N	C	V	T	WR	R	Q	A	E	N	V	A	N	F	L	K	K	G	S	L	A	G	V	D	G	R	L	Q	T	R	N	Y	E	N	Q	85				
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	M	C	T	L	W	R	K	N	A	E	N	T	A	L	Y	C	Q	K	G	S	L	V	G	S	G	R	I	Q	T	R	S	Y	E	K	T	84	
NTDB	id	526	SM	SK321	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	M	C	T	L	W	R	K	N	A	E	N	T	A	L	Y	C	Q	K	G	S	L	V	G	S	G	R	I	Q	T	R	S	Y	E	K	T	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	M	C	T	L	W	R	K	N	A	E	N	T	A	L	Y	C	Q	K	G	S	L	V	G	S	G	R	I	Q	T	R	S	Y	E	K	T	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	M	C	T	L	W	R	K	N	A	E	N	T	A	L	Y	C	Q	K	G	S	L	V	G	S	G	R	I	Q	T	R	S	Y	E	K	T	84	
NTDB	id	227	SPD	RS09110	WP	000282467.1	MYN	K	V</																																																																																	

NTDB id	624	LCA RS00040 WP 011373726.1	Q G Q R V Y V T E V I 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 F A N N G Q 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 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	45355	BAXH7 RS17800 WP 013353870.1	D G V K V Y V T E V M A D T V R F M D Q K R K E P I A E	113
NTDB id	112	BSU 36310 NP 391512.2	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
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 E S R A T L A I R E S A V . . K T E B L 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 E 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	SMSK321 RS08825 WP 000282440.1	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 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 E 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 E 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 E 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 E 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 E S R A Q R A L R E N N G A S D L T 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 E 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	SDDDLPF	170
NTDB id 113 BSU 40900 NP 391970.1	SDDDLPF	172
NTDB id 45355 BAXH7 RS17800 WP 013353870.1		113
NTDB id 112 BSU 36310 NP 391512.2		113
NTDB id 597 KW2 RS01935 WP 021036727.1	EADLDPF	129
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 583 DLJ51 RS09560 WP 002962590.1	EEEELPF	131
NTDB id 409 SMU RS08940 WP 002263454.1	EEEELPF	131
consensus	*****	

 non conserved
 similar
 $\geq 50\%$ conserved