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NTDB id 624 LCA RS00040 WP 011373726.1	MINRVVLVGRLTRDVLRYTSSGA	AVGTF	SMAVNRQ	FTNANGD	READFI	NCV	IWRK	SAENFAN	FTK	KGSLV	GVDGR	LQTR	80	
NTDB id 113 BSU 40900 NP 391970.1	MLNRVVLVGRLTKDPELRYTP	NGAAVAT	FTLAVNR	FTNQSG	EREADFI	NCVT	WRRQ	QAEN	VANFL	KKGSL	AGVDGR	LQTR	80	
NTDB id 967537 MKX44 RS20165 WP 003185893.1	MFNEIMLVGRLTKDPELRYTS	DGVPVANV	TLAVSR	PFKNAA	GEVEAD	FVNCT	LWRKT	AVNTAE	YCEKGS	ITGLS	GRIQTR	80		
NTDB id 112 BSU 36310 NP 391512.2	MFNQVMLVGRLTKDPELRYTS	SAGAAV	HVTLAVNR	SFKNAS	GEIEAD	YVNCT	LWRKTA	ENTALE	YCYCKGS	LVGVSG	RIQTR	80		
NTDB id 597 KW2 RS01935 WP 021036727.1	.MNKTM	LIGRLTNA	PEISKTT	NNKSYVRV	TLAVNR	RFKNE	EKGEREAD	FI	ITILW	GKSAET	LVSYAK	KGSLIS	VEGEIRTR	79
NTDB id 498 SM12261 RS01980 WP 000282464.1	MYNKVIM	IGRLTSTPELHKT	NNDKSVARAT	IAVNRRY	KDQNGEREAD	FVNMVLWG	KLAES	LASYAT	KGSLIS	VDGEL	TR	80		
NTDB id 526 SMSK321 RS08825 WP 000282440.1	MYNKVILIGRLTSTPELHKT	NNDKSVARAT	IAVNRRY	KDQNGEREAD	FVNMVLWG	RLAET	LASYAT	KGSLIS	VDGEL	TR	80			
NTDB id 158 SP RS09595 WP 000282442.1	MYNKVILIGRLTSTPELHKT	NNDKSVARAT	IAVNRRY	KDQNGEREAD	FVNMVLWG	RLAET	LASYAT	KGSLIS	VDGEL	TR	80			
NTDB id 268 KZH43 RS08520 WP 000282467.1	MYNKVIM	IGRLTSTPELHKT	NNDKSVARAT	IAVNRRY	KDQNGEREAD	FVNMVLWG	RLAET	LASYAT	KGSLIS	VDGEL	TR	80		
NTDB id 227 SPD RS09110 WP 000282467.1	MYNKVIM	IGRLTSTPELHKT	NNDKSVARAT	IAVNRRY	KDQNGEREAD	FVNMVLWG	RLAET	LASYAT	KGSLIS	VDGEL	TR	80		
NTDB id 193 SPR RS08685 WP 000282467.1	MYNKVIM	IGRLTSTPELHKT	NNDKSVARAT	IAVNRRY	KDQNGEREAD	FVNMVLWG	RLAET	LASYAT	KGSLIS	VDGEL	TR	80		
NTDB id 583 DLJ51 RS09560 WP 002962590.1	MYNKVILIGRLTAAPEMV	KTPSNKSV	THITLAVNR	RFKTD	GERQAD	FVNVVFWG	KLAES	LVSYAG	KGSLV	SLDGE	IRTR	80		
NTDB id 409 SMU RS08940 WP 002263454.1	MYNKVILIGRLVATPEMV	KTPKD	KSVTRV	TLAVNR	RFKSD	GEKQAD	FVNVVLWG	RLAET	TIASYG	SKGSLIS	LDGEL	TR	80	
consensus	*****!!!!* *** *! * ***** **!!!!** * !!!!!*****!!!!***** !!!*****!!!!													

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NTDB id 624 LCA RS00040 WP 011373726.1	NYENQ	QQRV	YVTEV	VVDN	FSLLES	RTTTE	QRQ	DGA	SQNFNS	NQSN	GSQ		QSGFT	SPQQT	GNAPA	ANNTQ	ADP	153	
NTDB id 113 BSU 40900 NP 391970.1	NYENQ	QQRV	FVTEV	QAESV	QFLEP	KNGG	CSG	.....	SGGY	NEGNS	GGGQY	FGGGQ	NDNP	FGGN	QNNQ	RRNQ	NSFN	DDP	155
NTDB id 967537 MKX44 RS20165 WP 003185893.1	QYVN	SEGERT	FITEV	VARSV	FLGES	RKA	HEP	.....	ADA	.....	.....	.....	.....	.....	.....	.....	.....	.....	115
NTDB id 112 BSU 36310 NP 391512.2	SYENE	EGVNV	YVTEV	LADTV	RFMD	P	KPRE	KAA	.....	D	.....	.....	.....	.....	.....	.....	.....	.....	113
NTDB id 597 KW2 RS01935 WP 021036727.1	NYTDK	NEQKH	YITEI	LGLS	YDLLES	RATL	ALRES	AV	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	115
NTDB id 498 SM12261 RS01980 WP 000282464.1	RFE	.KNGQM	NYVTEV	LV	TGF	QLLES	RAQR	AMRENN	AGQ	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
NTDB id 526 SMSK321 RS08825 WP 000282440.1	RFE	.KNGQM	NYVTEV	LV	TGF	QLLES	RAQR	AMRENN	AGQ	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
NTDB id 158 SP RS09595 WP 000282442.1	RFE	.KNGQM	NYVTEV	LV	TGF	QLLES	RAQR	AMRENN	AGQ	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
NTDB id 268 KZH43 RS08520 WP 000282467.1	RFE	.KNGQM	NYVTEV	LV	TGF	QLLES	RAQR	AMRENN	AGQ	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
NTDB id 227 SPD RS09110 WP 000282467.1	RFE	.KNGQM	NYVTEV	LV	TGF	QLLES	RAQR	AMRENN	AGQ	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
NTDB id 193 SPR RS08685 WP 000282467.1	RFE	.KNGQM	NYVTEV	LV	TGF	QLLES	RAQR	AMRENN	AGQ	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
NTDB id 583 DLJ51 RS09560 WP 002962590.1	HYE	.KDGQ	THYVTE	TL	AQS	FQLLES	RAQR	ALRENN	GAS	.....	.....	.....	.....	.....	.....	.....	.....	.....	117
NTDB id 409 SMU RS08940 WP 002263454.1	KYE	.KDG	VTHFV	TEV	L	GHS	FQLLES	RAQR	AMRENN	SEN									117
consensus	**	*****	***!	**	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

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NTDB id 624 LCA RS00040 WP 011373726.1	FAN	NGQ	AID	IS	DDDL	LPF	170
NTDB id 113 BSU 40900 NP 391970.1	FAN	DGK	PID	IS	DDDL	LPF	172
NTDB id 967537 MKX44 RS20165 WP 003185893.1	.....	.....	.....	.....	.....	.....	115
NTDB id 112 BSU 36310 NP 391512.2	.....	.....	.....	.....	.....	.....	113
NTDB id 597 KW2 RS01935 WP 021036727.1	...KTE	ELL	LEA	DEL	PF		129
NTDB id 498 SM12261 RS01980 WP 000282464.1	...DL	ADLV	EEEE	EL	PF		131
NTDB id 526 SMSK321 RS08825 WP 000282440.1	...DL	ADLV	EEEE	EL	PF		131
NTDB id 158 SP RS09595 WP 000282442.1	...DL	ADLV	EEEE	EL	PF		131
NTDB id 268 KZH43 RS08520 WP 000282467.1	...DL	ADLV	EEEE	EL	PF		131
NTDB id 227 SPD RS09110 WP 000282467.1	...DL	ADLV	EEEE	EL	PF		131
NTDB id 193 SPR RS08685 WP 000282467.1	...DL	ADLV	EEEE	EL	PF		131
NTDB id 583 DLJ51 RS09560 WP 002962590.1	...DL	TDLV	EEEE	EL	PF		131
NTDB id 409 SMU RS08940 WP 002263454.1	...DL	ADLV	EEEE	EL	PF		131
consensus	** *****						

 non conserved
 similar
 $\geq 50\%$ conserved