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NTDB id 624 LCA RS00040 WP 011373726.1	MINRVVLVGRLLTRDVLRYTSSGA	AVGTF	SM	AVNRQFTNANGD	READF	INCV	IWRK	SAENFAN	FTK	KGSL	V	GVDGR	LQTR	80					
NTDB id 113 BSU 40900 NP 391970.1	MLNRVVLVGRLLTKDPELRYTP	NGAAVATFTL	AVNRFTTN	QSG	READF	INCV	TWRR	QAEN	VAN	FLK	KGSL	AGVDGR	LQTR	80					
NTDB id 1018966 ABOR71 RS17255 WP 007407557.1	MFNHVMLVGRLLTKDPELRFTA	GIPVAHITL	AVNRNFK	SAS	GETGT	DFVNCT	IWRK	NAENTAL	YCQ	KGS	MVGV	SGRI	QTR	80					
NTDB id 112 BSU 36310 NP 391512.2	MFNQVMLVGRLLTKDPELRYT	SAGAAVAHV	TLAVNR	SFKNAS	GEI	EADY	VNCT	LWRK	TA	ENTAL	YCQ	KGSL	VGVSGRI	QTR	80				
NTDB id 597 KW2 RS01935 WP 021036727.1	.MNKTM	LIGRLTNAPE	ISKTT	TNNK	SYVRVT	TLAVNR	RFKN	EK	GER	EADF	IS	ILWG	KSAET	LVSYAK	KGSLISV	EGE	IRTR	79	
NTDB id 498 SM12261 RS01980 WP 000282464.1	MYNKVIMIGRLTSTPELHKT	TNNDK	SVARAT	IAVNR	RYK	DQNG	ER	EADF	VNMV	LVG	KLAES	LASYAT	KGSLIS	VDGEL	RTR	80			
NTDB id 526 SMSK321 RS08825 WP 000282440.1	MYNKVILIGRLTSTPELHKT	TNNDK	SVARAT	IAVNR	RYK	DQNG	ER	EADF	VNMV	LVG	RLAET	LASYAT	KGSLIS	VDGEL	RTR	80			
NTDB id 158 SP RS09595 WP 000282442.1	MYNKVILIGRLTSTPELHKT	TNNDK	SVARAT	IAVNR	RYK	DQNG	ER	EADF	VNMV	LVG	RLAET	LASYAT	KGSLIS	VDGEL	RTR	80			
NTDB id 268 KZH43 RS08520 WP 000282467.1	MYNKVIMIGRLTSTPELHKT	TNNDK	SVARAT	IAVNR	RYK	DQNG	ER	EADF	VNMV	LVG	RLAET	LASYAT	KGSLIS	VDGEL	RTR	80			
NTDB id 227 SPD RS09110 WP 000282467.1	MYNKVIMIGRLTSTPELHKT	TNNDK	SVARAT	IAVNR	RYK	DQNG	ER	EADF	VNMV	LVG	RLAET	LASYAT	KGSLIS	VDGEL	RTR	80			
NTDB id 193 SPR RS08685 WP 000282467.1	MYNKVIMIGRLTSTPELHKT	TNNDK	SVARAT	IAVNR	RYK	DQNG	ER	EADF	VNMV	LVG	RLAET	LASYAT	KGSLIS	VDGEL	RTR	80			
NTDB id 583 DLJ51 RS09560 WP 002962590.1	MYNKVILIGRLTAAP	EMVKT	PSN	KSVT	HTL	AVNR	RFKT	QD	GER	QADF	VNV	FWG	KLAES	LVSYAG	KGSL	VSLDGE	IRTR	80	
NTDB id 409 SMU RS08940 WP 002263454.1	MYNKVILIGRLVAT	PEMV	KTPKD	KSVT	TRVT	AVNR	RFKS	QD	GEK	QADF	VNV	LVG	RLAET	TI	ASYG	SGSLIS	LDGEL	RTR	80
consensus	*!*!*****!!!!* *** *! * ***** **!!!!!!** * !*****!*****!*****!*****!*****!*****!*****!*****!																		

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NTDB id 624 LCA RS00040 WP 011373726.1	NYENQGGQRVYVTEVVDNF	SLLES	RTTTEQR	QGDGASQNFNSNQSN	GSQ.....	QSGFTSPQQTGN	APAA	NN	TQADP	153				
NTDB id 113 BSU 40900 NP 391970.1	NYENQGGQRVYVTEVQAESV	QFLEP	KNGG	CGSGG....	GYNEGNSGGGQY	FGGGQNDN	PF	GGN	QNNQRRNQ	GN	SF	NDDP	155	
NTDB id 1018966 ABOR71 RS17255 WP 007407557.1	SYEKTDGKVKVYVTEVMAD	TVRFMD	QKRKEP	LA	E.....							113		
NTDB id 112 BSU 36310 NP 391512.2	SYENEEGVNVYVTEVLAD	TVRFMD	PKPRE	KAAD								113		
NTDB id 597 KW2 RS01935 WP 021036727.1	NYTDKNEQKHYTEILGLS	YDLLES	RATL	ALRES	AV..	K.....							116	
NTDB id 498 SM12261 RS01980 WP 000282464.1	RFE.KNGQMNYVTEVLVTG	FQLLES	RAQR	AMRENN	AGQD								118	
NTDB id 526 SMSK321 RS08825 WP 000282440.1	RFE.KNGQMNYVAEVLVTG	FQLLES	RAQR	AMRENN	AGQD								118	
NTDB id 158 SP RS09595 WP 000282442.1	RFE.KNGQMNYVTEVLVTG	FQLLES	RAQR	AMRENN	AGQD								118	
NTDB id 268 KZH43 RS08520 WP 000282467.1	RFE.KNGQMNYVTEVLVTG	FQLLES	RAQR	AMRENN	AGQD								118	
NTDB id 227 SPD RS09110 WP 000282467.1	RFE.KNGQMNYVTEVLVTG	FQLLES	RAQR	AMRENN	AGQD								118	
NTDB id 193 SPR RS08685 WP 000282467.1	RFE.KNGQMNYVTEVLVTG	FQLLES	RAQR	AMRENN	AGQD								118	
NTDB id 583 DLJ51 RS09560 WP 002962590.1	HYE.KDGQTHYVTEILA	QS	FQLLES	RAQR	ALRENN	GASD								118
NTDB id 409 SMU RS08940 WP 002263454.1	KYE.KDGVTHFVTEVLGH	S	FQLLES	RAQR	AMRENN	SEND								118
consensus	** **** *!!** ***** * *													

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NTDB id 624 LCA RS00040 WP 011373726.1	FANNGQAIDIS	DDDL	LPF	170	
NTDB id 113 BSU 40900 NP 391970.1	FANDGKPIDIS	DDDL	LPF	172	
NTDB id 1018966 ABOR71 RS17255 WP 007407557.1				113	
NTDB id 112 BSU 36310 NP 391512.2				113	
NTDB id 597 KW2 RS01935 WP 021036727.1	TEEL	LLEA	DEL	LPF	129
NTDB id 498 SM12261 RS01980 WP 000282464.1	LADLV	LEEEEL	LPF	131	
NTDB id 526 SMSK321 RS08825 WP 000282440.1	LADLV	LEEEEL	LPF	131	
NTDB id 158 SP RS09595 WP 000282442.1	LADLV	LEEEEL	LPF	131	
NTDB id 268 KZH43 RS08520 WP 000282467.1	LADLV	LEEEEL	LPF	131	
NTDB id 227 SPD RS09110 WP 000282467.1	LADLV	LEEEEL	LPF	131	
NTDB id 193 SPR RS08685 WP 000282467.1	LADLV	LEEEEL	LPF	131	
NTDB id 583 DLJ51 RS09560 WP 002962590.1	LTDLV	LEEEEL	LPF	131	
NTDB id 409 SMU RS08940 WP 002263454.1	LADLV	LEEEEL	LPF	131	
consensus	* *****				

 non conserved
 similar
 $\geq 50\%$ conserved