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NTDB id 624 LCA RS00040 WP 011373726.1	MINRVVLVGRLLTRDVLRYTSSGA	AVGTF	SMAVNRQFTNANGDREADF	INCVIWRKSAENFANFTKKGSLV	GVDGRLQTR	80
NTDB id 113 BSU 40900 NP 391970.1	MLNRVVLVGRLLTKDPELRYTPNGAAVATFTLAVNRFTTNQSGEREA	DFINCVTWRRAENVANFLKKGSLAGVDGRLQTR				80
NTDB id 112 BSU 36310 NP 391512.2	MFNQVMLVGRLLTKDPELRYTSAGAAVAHVTLAVNRSFKNASGEIEADYVNCTLWRKTAENTALYCQKGS	LVGVSGRIQTR				80
NTDB id 597 KW2 RS01935 WP 021036727.1	.MNKTM	LIGRLTNAPEISKTTNNKSYVRVTLAVNRRFKNEKGEREADFI	STILWGKSAETLVSYAKKGSLISVEGEIRTR			79
NTDB id 498 SM12261 RS01980 WP 000282464.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYK	QNGEREADFVNMVLWGKLAESLASYATKGS	LISVDGELRTR			80
NTDB id 526 SMSK321 RS08825 WP 000282440.1	MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYK	QNGEREADFVNMVLWGRLAETLASYATKGS	LISVDGELRTR			80
NTDB id 337940 EQH26 RS09405 WP 000282442.1	MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYK	QNGEREADFVNMVLWGRLAETLASYATKGS	LISVDGELRTR			80
NTDB id 158 SP RS09595 WP 000282442.1	MYNKVILIGRLTSTPELHKTNNDKSVARATIAVNRRYK	QNGEREADFVNMVLWGRLAETLASYATKGS	LISVDGELRTR			80
NTDB id 268 KZH43 RS08520 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYK	QNGEREADFVNMVLWGRLAETLASYATKGS	LISVDGELRTR			80
NTDB id 227 SPD RS09110 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYK	QNGEREADFVNMVLWGRLAETLASYATKGS	LISVDGELRTR			80
NTDB id 193 SPR RS08685 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNNDKSVARATIAVNRRYK	QNGEREADFVNMVLWGRLAETLASYATKGS	LISVDGELRTR			80
NTDB id 409 SMU RS08940 WP 002263454.1	MYNKVILIGRLVATPEMVKTPKDKSVTRVTLAVNRRFKS	QDGEKQADFVNVLWGRLAETIASYGS	KGSLISLDGELRTR			80
NTDB id 583 DLJ51 RS09560 WP 002962590.1	MYNKVILIGRLTAAPEMVKTPSNKS	VTHITLAVNRRFKTQDGERQADFVN	VVFWGKLAESLVSYAGKGSLVSLDGEIRTR			80
consensus	**!*!!!!!!* **** *! ***** **!!!!!!** **!*!!!!!!*****!*****!*****!!!!!!*****!*****!					

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NTDB id 624 LCA RS00040 WP 011373726.1	RYENQ	QGRVYVTEV	VVDNFSLLES	RRTTEQRQ	DGASQNFNSNQSN	GSQ.....QSGFTSPQQTGNAPAA	NNTQADP	153
NTDB id 113 BSU 40900 NP 391970.1	RYENQ	QGRVYVTEV	QAESVQFLEP	KNGG	CSGSG.....GYNEGNSGGGQYF	GGGQNDNPFGGNQNNQRRNQ	NSFNDDP	155
NTDB id 112 BSU 36310 NP 391512.2	SYENE	EGVNVYVTEV	LADTVRFMDPK	PREKAAD.....				113
NTDB id 597 KW2 RS01935 WP 021036727.1	NYTD	KNEQKH	YITEILGLS	YDLLES	RATLALRESAV.....			115
NTDB id 498 SM12261 RS01980 WP 000282464.1	RFE.	KNGQMNYVTEV	LVLTGFQLLES	RAQRAMRENN	AGQ.....			117
NTDB id 526 SMSK321 RS08825 WP 000282440.1	RFE.	KNGQMNYV	AEVLVTGFQLLES	RAQRAMRENN	AGQ.....			117
NTDB id 337940 EQH26 RS09405 WP 000282442.1	RFE.	KNGQMNYVTEV	LVLTGFQLLES	RAQRAMRENN	AGQ.....			117
NTDB id 158 SP RS09595 WP 000282442.1	RFE.	KNGQMNYVTEV	LVLTGFQLLES	RAQRAMRENN	AGQ.....			117
NTDB id 268 KZH43 RS08520 WP 000282467.1	RFE.	KNGQMNYVTEV	LVLTGFQLLES	RAQRAMRENN	AGQ.....			117
NTDB id 227 SPD RS09110 WP 000282467.1	RFE.	KNGQMNYVTEV	LVLTGFQLLES	RAQRAMRENN	AGQ.....			117
NTDB id 193 SPR RS08685 WP 000282467.1	RFE.	KNGQMNYVTEV	LVLTGFQLLES	RAQRAMRENN	AGQ.....			117
NTDB id 409 SMU RS08940 WP 002263454.1	KYE.	KDG	VTHFVTEV	LGH	SFQLLES	RAQRAMRENNSEN.....		117
NTDB id 583 DLJ51 RS09560 WP 002962590.1	HYE.	KDG	QTHYVTEI	LAQS	FQLLES	RAQRALRENNGAS.....		117
consensus	*** **** **!***** **********							

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NTDB id 624 LCA RS00040 WP 011373726.1	FAN	NGQAIDIS	DDDLPF	170
NTDB id 113 BSU 40900 NP 391970.1	FAN	DGKPIDIS	DDDLPF	172
NTDB id 112 BSU 36310 NP 391512.2				113
NTDB id 597 KW2 RS01935 WP 021036727.1	...KTE	ELILEADE	LPF	129
NTDB id 498 SM12261 RS01980 WP 000282464.1	...DLAD	LVLEEEELPF		131
NTDB id 526 SMSK321 RS08825 WP 000282440.1	...DLAD	LVLEEEELPF		131
NTDB id 337940 EQH26 RS09405 WP 000282442.1	...DLAD	LVLEEEELPF		131
NTDB id 158 SP RS09595 WP 000282442.1	...DLAD	LVLEEEELPF		131
NTDB id 268 KZH43 RS08520 WP 000282467.1	...DLAD	LVLEEEELPF		131
NTDB id 227 SPD RS09110 WP 000282467.1	...DLAD	LVLEEEELPF		131
NTDB id 193 SPR RS08685 WP 000282467.1	...DLAD	LVLEEEELPF		131
NTDB id 409 SMU RS08940 WP 002263454.1	...DLAD	LVLEEEELPF		131
NTDB id 583 DLJ51 RS09560 WP 002962590.1	...DLT	DLVLEEEELPF		131
consensus	*****			

 non conserved
 similar
 $\geq 50\%$ conserved