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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	MLNRVVLVGRLLTKDPELRYTPNGA	AVATFTLAVNRFTTNQSGER	ADFINCVTWRRAQENVANFLKKGSL	AGVDGRLQTR		80	
NTDB id 112 BSU 36310 NP 391512.2	MFNQVMLVGRLLTKDPELRYTSAGA	AVAHVTLAVNRSFKNASGEIEAD	YVNCTLWRKTAENTALYCQKGS	LGVSGRIQTR		80	
NTDB id 597 KW2 RS01935 WP 021036727.1	.MNKTM	LIGRLTNAPEISKTTNNKSYVR	VTLAVNRRFKNEKGEREADF	ISITLWGKSAETLVSYAKKGS	LISVEGEIRTR	79	
NTDB id 498 SM12261 RS01980 WP 000282464.1	MYNKVIMIGRLTSTPELHKTNN	NDKSVARATIAVNRRYKDQNG	ERADFVNMMVLWGKLAES	LASYATKGS	LISVDGELRTR	80	
NTDB id 526 SMSK321 RS08825 WP 000282440.1	MYNKVILIGRLTSTPELHKTNN	NDKSVARATIAVNRRYKDQNG	ERADFVNMMVLWGRLAET	LASYATKGS	LISVDGELRTR	80	
NTDB id 99097 SP4011 RS01915 WP 000282442.1	MYNKVILIGRLTSTPELHKTNN	NDKSVARATIAVNRRYKDQNG	ERADFVNMMVLWGRLAET	LASYATKGS	LISVDGELRTR	80	
NTDB id 158 SP RS09595 WP 000282442.1	MYNKVILIGRLTSTPELHKTNN	NDKSVARATIAVNRRYKDQNG	ERADFVNMMVLWGRLAET	LASYATKGS	LISVDGELRTR	80	
NTDB id 268 KZH43 RS08520 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNN	NDKSVARATIAVNRRYKDQNG	ERADFVNMMVLWGRLAET	LASYATKGS	LISVDGELRTR	80	
NTDB id 227 SPD RS09110 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNN	NDKSVARATIAVNRRYKDQNG	ERADFVNMMVLWGRLAET	LASYATKGS	LISVDGELRTR	80	
NTDB id 193 SPR RS08685 WP 000282467.1	MYNKVIMIGRLTSTPELHKTNN	NDKSVARATIAVNRRYKDQNG	ERADFVNMMVLWGRLAET	LASYATKGS	LISVDGELRTR	80	
NTDB id 409 SMU RS08940 WP 002263454.1	MYNKVILIGRLVATPEMVKTPK	DKSVTRVTLAVNRRFKSQDGE	KQADFVNMMVLWGRLAET	IASYGS	KGS	LISLDGELRTR	80
NTDB id 583 DLJ51 RS09560 WP 002962590.1	MYNKVILIGRLTAAP	EMVKTPSNKSVTHITLAVNRRFKTQD	GERQADFVNMMVFWGKLAES	LSVSYAGKGS	LVS	LDGEIRTR	80
consensus	**!*!!!!!!* **** *! ***** **!!!!!!** **!*!!!!!!*****!*****!*****!!!!!!*****!*****!!						

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NTDB id 624 LCA RS00040 WP 011373726.1	RYENQ	QQRVYVTEV	VVDNFSLLES	RRTTEQRQ	DGASQNFNSNQSN	GSQ.....	QSGFTSPQQTGN	APAA	NNTQADP	153
NTDB id 113 BSU 40900 NP 391970.1	RYENQ	QQRVYVTEV	QAESVQFLEP	KNGG	CSGSG.....	GYNEGNSGGGQY	FGGGQNDNP	FGGNQNNQRR	NQNSFND	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 99097 SP4011 RS01915 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.	KDGVT	HFVTEV	LGH	SFQLLES	RAQRAMRENN	SEN.....			117
NTDB id 583 DLJ51 RS09560 WP 002962590.1	HYE.	KDGQ	THYVTE	ILAQSFQLLES	RAQRALRENN	GAS.....				117
consensus	*** **** **!***** **********									

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NTDB id 624 LCA RS00040 WP 011373726.1	FANNGQA	IDIS	DDDLPF	170
NTDB id 113 BSU 40900 NP 391970.1	FANDGKP	IDIS	DDDLPF	172
NTDB id 112 BSU 36310 NP 391512.2				113
NTDB id 597 KW2 RS01935 WP 021036727.1	...KTE	ELILEA	DELPF	129
NTDB id 498 SM12261 RS01980 WP 000282464.1	...DLADL	VLEEEELPF		131
NTDB id 526 SMSK321 RS08825 WP 000282440.1	...DLADL	VLEEEELPF		131
NTDB id 99097 SP4011 RS01915 WP 000282442.1	...DLADL	VLEEEELPF		131
NTDB id 158 SP RS09595 WP 000282442.1	...DLADL	VLEEEELPF		131
NTDB id 268 KZH43 RS08520 WP 000282467.1	...DLADL	VLEEEELPF		131
NTDB id 227 SPD RS09110 WP 000282467.1	...DLADL	VLEEEELPF		131
NTDB id 193 SPR RS08685 WP 000282467.1	...DLADL	VLEEEELPF		131
NTDB id 409 SMU RS08940 WP 002263454.1	...DLADL	VLEEEELPF		131
NTDB id 583 DLJ51 RS09560 WP 002962590.1	...DLT	DLVLEEEELPF		131
consensus	*****			

 non conserved
 similar
 $\geq 50\%$ conserved