

[illegible]

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	L	IHQPMGGAG	QGQTQQTDMAI	VAEQLL	KTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	L	IHQPMGGTG	QGQTQQTDMAI	VAEQLL	KTRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRNNLEQ			152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRNNLEQ			152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRNTLEK			152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRNTLEK			152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRNTLEK			152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRNTLEK			152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRHRLEK			152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMI	HQP	MGGTGGGTQQTDMAIAA	AEEHLLKTRHRLEK			152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYL	L	IHQPMGGTGGGTQQSDMAIAA	EQLLKTRKKLEK			160
NTDB id	1223	Cj0192c	YP	002343650.1	F	SIYDTMN	YIKP	DVCTICIGQAASMGAFIL	LSQCAEGKRFALPN	SRI	MIHQPLGGARG..	QATDIEIQAKEITRLK	TIIND			151
NTDB id	255523	CUB85	RS17260	WP	003151513.1	M	AIYDTMQFIKPKVS	TCICGMAASMGAFLLAA	G	EKGKRYALPNSEV	MIHQPLGGAQG..	QATEIEIAAKRILLLRDKLN	K			152
NTDB id	86	BSU	34540	NP	391334.1	M	AIYDTMQFIKPKVS	TCICGMAASMGAFLLAA	G	EKGKRYALPNSEV	MIHQPLGGAQG..	QATEIEIAAKRILLLRDKLN	K			152
consensus						***!!*****!	*!****!*!!!!!!*	*****!*****!	*!!!!!!*!!!!!!*	*****!*****!	*****!*****!	*****!*****!	*****!*****!	*****!*****!	*****!*****!	

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSQGSMSEKVVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEEETLAYGFIDEIMENNELK..	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEEETLAYGFIDEIMENNELK..	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNITKKVIAKIDTERDFFMSAQEAKLEYGLIDKVLLEKSFK...	194
NTDB id 255523 CUB85 RS17260 WP 003151513.1	VLAERTGGPLEVIERDTDRDNFKSADAEALEYGLIDKVLTRNTEDQK	198
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGGPLEVIERDTDRDNFKSAEAEALEYGLIDKILTHTEDKK.	197
consensus	*!***** **!*!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved