

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKLDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKLDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSVIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS MIPVVIEQTSGERSYDIYSRLKLDRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TKDIYLYINSPPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MFIPYVIEKSSRGERSYDIYSRLKLDRIIMLSGEIHDELAASIVAQLLFLAEADP	TKDIYLYINSPGGVITSG	73	
NTDB id	973439	WF295	RS18750	WP	003185550.1	MNLIPTVIEQTNRGERAYDIYSRLKLDRIIMLGSAIDNVANSIVSQLLFLAEADEPKDISIYINSPGGSITAG	74	
NTDB id	86	BSU	34540	NP	391334.1	MNLIPTVIEQTNRGERAYDIYSRLKLDRIIMLGSAIDNVANSIVSQLLFLAEADEPEKEISLIYNSPGGSITAG	74	
consensus						***!*****!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*****!*!!**!*!!*!!*!!*!!*!!*!!*!!*		

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQP	MGGAGQG	TGQTQD	MAIVA	EAEQLL	KTRKRLE	Q	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQP	MGGTGQG	TGQTQD	MAIVA	EAEQLL	KTRKRLE	Q	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRNN	LEQ					152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRNN	LEQ					152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRNT	LEK					152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRNT	LEK					152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRNT	LEK					152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSG	AKGKRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRNT	LEK					152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRHR	LEK					152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	VIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TGQTQD	MAIAAAEHLLKTRHR	LEK					152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGTAASMG	TIASSG	AKGKRFMLPNAEYL	LHQP	MGGTGGGTQQ	SDMAIAAE	QLLKTRKK	LEK			160
NTDB id	1223	Cj0192c	YP	002343650.1	F	SIYDTMN	YIKP	DVCTICIGQAASMG	AFLLSCGAEGKRFALPN	S	RIMIHQPLGGARG..	QATDIEIQAKEILRLK	ITILND					151
NTDB id	973439	WF295	RS18750	WP	003185550.1	M	AIYDTMQFIKPQVS	TICTGMAASMG	AFLLAAGEKGKRYALPN	S	EVMIHQPLGGAQG..	QATEIEIAAKRILSLRDKLNK						152
NTDB id	86	BSU	34540	NP	391334.1	M	AIYDTMQFIKPQVS	TICTGMAASMG	AFLLAAGEKGKRYALPN	S	EVMIHQPLGGAQG..	QATEIEIAAKRILSLRDKLNK						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	ILADNSGQPPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	298	STER RS01925 WP 002949732.1	ILADNSGQPPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	282	KZH43 RS03215 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	246	SPD RS03495 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	244	SPR RS03300 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	242	SP RS03655 WP 000613477.1	ILAENSQGSMSEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	ILAAQNAGKTIKKIHKAERDYWSAEETLAYGFIDEIMENNELK..	196
NTDB id	445	SPYM3 RS01720 WP 002985850.1	ILAAQNAGKTIKKIHKAERDYWSAEETLAYGFIDEIMENNELK..	196
NTDB id	376	SMU RS07595 WP 255262720.1	ILSDNSGKTIKKIHKAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id	1223	Cj0192c YP 002343650.1	ILAKNTIKQKVAKIAKDTERDFFMASQAQEAKEYGLIDKVLKSFK...	194
NTDB id	973439	WF295 RS18750 WP 003185550.1	ILAERTGGPLEVIERDTDRDNFKTAEEAKEYGLIDKVLTRNIDAQK	198
NTDB id	86	BSU 34540 NP 391334.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
consensus			*!*****!*****!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved