

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS MIPVVIEQTSGRSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQN	TCKDIYLYINSPPGGSVSAG	80
NTDB id	1223 Cj0192c YP 002343650.1	MFIPYVIEKSRRGERSYDIYSRLKDRIIMLSGETIHDELAASIVAQLLFLAEADP	TCKDIYLYINSPGGVITSG	73
NTDB id	235371 CD200 RS18560 WP 003185550.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQQLLFLEADEDPEKDISTIYN	INSPGGISITAG	74
NTDB id	86 BSU 34540 NP 391334.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQQLLFLAAEDEDPEKEISLIYN	INSPGGISITAG	74
consensus		**!*!***!!**!!!*!!!!!!*!!*****!****!*!!*!!*!!*!!*!!*!!*!!*!!*		

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQPMGGAGQG	TQTQTDMAIVA	EAEQLLKR	RKRL	LEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYL	LHQPMGGTGQG	TQTQTDMAIVA	EAEQLLKR	RKRL	LEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRNN	LEQ			152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRNN	LEQ			152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TVIASSG	AKGKRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRNT	LEK			152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TVIASSG	AKGKRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRNT	LEK			152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TVIASSG	AKGKRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRNT	LEK			152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TVIASSG	AKGKRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRNT	LEK			152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TVIASSG	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRHR	LEK			152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TVIASSG	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQT	TQDMAIAAAEHLLKTRHR	LEK			152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGTAASMG	TIASSG	AKGKRFMLPNAEYL	LHQPMGGTGGGTQQ	SDMAIAAEQLLKR	TKKK	LEK		160
NTDB id	1223	Cj0192c	YP	002343650.1	F	SIYDTMN	YIKP	DVCTICIGQAASMG	AFLLSCGAEGKRFALPN	SRI	MIHQPLGGARG..	QATDIEIQAKEILRLK	ITILND			151
NTDB id	235371	CD200	RS18560	WP	003185550.1	M	AIYDTMQFIKPQVS	TI	CTGMAASMG	AFLLAAGEK	GKGRYALPNSEV	MIHQPLGGAQG..	QATEIEIAAKRILSLRD	KLNLK		152
NTDB id	86	BSU	34540	NP	391334.1	M	AIYDTMQFIKPQVS	TI	CI	GMAASMG	AFLLAAGEK	GKGRYALPNSEV	MIHQPLGGAQG..	QATEIEIAAKRILSLRD	KLNLK	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	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITKKVKVAIAKDTERDFFMASQAQEAKEYGLIDKVLKSFK..	194	
NTDB id	235371	CD200	RS18560	WP	003185550.1	ILAERTGGPLEVIERDTDRDNFKTAEEAKEYGLIDKVLTRNIDAQK	198
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
consensus						*!***** **!*!!**!!***! !****!!*!*** ** *	

 non conserved
 similar
 $\geq 50\%$ conserved