

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	188611	BBP08	RS00860	WP	000613483.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGQVEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	330	STU	RS11365	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPV	VIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSVIAQLFLDQAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDNTKDIYLYINSPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MFIPY	VIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAAASIV AQLLFLAEADPTKDIYLYINSPGGVITSG	73	
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANSIVSQLLFLAAEDPEKEISLYINSPGGISITAG	74
consensus								**!*!*****!!*!!!!!!!!!!!!!!**!*!*****!!*!!!!!!!!!!!!!!**!*!*****!!*!!!!!!!!!!!!!!

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	LHQP MGGAAG	QGTTQQTDMAIVAEQLLKRTRKRL	EQ	155	
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	LHQP MGGGTG	QGTTQQTDMAIVAEQLLKRTRKRL	EQ	155	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIA	DVQTI VMGMAASMGTVIASSG	A	GKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A	GKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A	GKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	A	GKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRNTLEK		152	
NTDB id	188611	BBP08	RS00860	WP	000613483.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	A	GKGRFMLPNAEYMIHQPMGGTGGGT	QQSDMAIAAAEHLLKTRHTLEK		152	
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRNNLEQ			152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRNNLEQ			152	
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRHRLEK			152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTGGGT	QGTTQQTDMAIAAAEHLLKTRHRLEK			152	
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTVIASSG	A	GKGRFMLPNAEYL	LHQP MGGGTGGGT	QQSDMAIAAEQLLKTRKKLEK		160
NTDB id	1223	Cj0192c	YP	002343650.1	FSIYDTMNFIKP	DVCTICIGQAASMGAFLLSCG	AE	GKRFALPNSSRI	MHQPLGGARG..QATDIEIQAKEILRLKITLND			151	
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPKVS	TCICIGMAASMGAFLLAAG	EKGKRYALPNSEVM	IHQPLGGAQG..QATEIEIAAKRILLRLDKLNK			152	
consensus						*****	* ** ! * ! * ! * ! *	* ** ! * ! * ! * ! *	* ** ! * ! * ! * ! *	* ** ! * ! * ! * ! *	* ** ! * ! * ! * ! *	* ** ! * ! * ! * ! *	

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSLQTHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLQTHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
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	188611	BBP08	RS00860	WP	000613483.1	ILADNSGQSIEKVVDHAERDRWMSAQETLDYGFIDAIME>NNNLQ.	196
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQPPIEKVVHVAERDNWMSAQETLEYGFIDEIMTN>NQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPPIEKVVHVAERDNWMSAQETLEYGFIDEIMTN>NQLK.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTITKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTITKQTHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTITKQTHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTKKKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK.	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLELVIERDTDRDNFKAEEALEYGLIDKILTHTEDKK	197
consensus						*!*****!!****!*!!!!*!***!!**!	

 non conserved
 similar
 $\geq 50\%$ conserved