

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANS	VIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANS	VIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANS	VIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANS	VIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANS	VIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANS	VIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRS	YDIYSRLKDRIIIMLTGPIEDNMANS	VIAQLFLDAQDN	TKDIYLY
NTDB id 107561 AABJ90 RS03490 WP 003228214.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLTG	SAIDDNVANSIVS	QLLFLAAEDPEKEISLY	INSPGG
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLTG	SAIDDNVANSIVS	QLLFLAAEDPEKEISLY	INSPGG
NTDB id 1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGRS	YDIYSRLKDRIIIMLTSGEIHDELAAS	VIAQLFLAEADPE	TKDIYLY
consensus		*****	*****	*****	*****

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYL	IHQPMGGAGQG	GQTQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYL	IHQPMGGTGQG	GQTQTDMAIVA EQLLKTRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRNNLEQ	152	
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRNNLEQ	152	
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIIKA	DVQTIVMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIIKA	DVQTIVMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIIKA	DVQTIVMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIIKA	DVQTIVMGMAASMGTVIASSGA	KGRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIIKA	DVQTIVMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRHRLEK	152	
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIIKA	DVQTIVMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	GQTQTDMAIAAEHLLKTRHRLEK	152	
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTIVMGTAAASMGTTIASSGA	KGRFMLPNAEYLIHQPMGGTGGGTQQSDMAIAAEEQLLKTRKKLEK	160		
NTDB id	107561 AABJ90 RS03490 WP 003228214.1	MAYIDTMCFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATIEIEIAAKRIILLRDKLNLK	152				
NTDB id	86 BSU 34540 NP 391334.1	MAYIDTMCFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATIEIEIAAKRIILLRDKLNLK	152				
NTDB id	1223 Cj0192c YP 002343650.1	FSLIIDTMNYIKPDVCTICIIGQAASMGAFLLSCGAEGKFRLAPNSRIMIHQPGLGGARG..QATDIEIQAKEILRLKTILND	151				
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	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	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	107561	AABJ90	RS03490	WP	003228214.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTIKQKVAKIAKTDTERDFFMSAQEAKFYGLIDKVLEKSFK..	194	
consensus						*!*****!*!!*!!!*!!!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved