

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYSMIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYINSPGGSVSAG	80
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	330	STU RS11365 WP 002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id	418265	M594 RS07165 WP 000613471.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	1223	Cj0192c YP 002343650.1	MFIPYVIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAAAS	IVAQLFLFEADPTKDIYLYINSPGGVITSG	73
NTDB id	86	BSU 34540 NP 391334.1	MNLIPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDNNVAS	IIVSQLLFLAAGEDPEKEISLYINSPGGSI TAG	74
consensus					**!*!*****!!*!!!!!!!!!!!!!!**!*!***!!*!****!!*!*****!

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	IHQPMGGAGQGTTQQTDMAIVAEEQLLKRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	IHQPMGGTGQGTQQTDMAIVAEEQLLKRKRLEQ	155
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYL	IHQPMGGTGGGTQQTDMAIAAEQLLKRKRLEK	160
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRHRLEK	152	
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRHRLEK	152	
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNNLEQ	152	
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNNLEQ	152	
NTDB id	418265	M594	RS07165	WP	000613471.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNILEK	152	
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAEHLLKTRNTLEK	152	
NTDB id	1223	Cj0192c	YP	002343650.1	FSIYDTMNYIKP	DVCTICIGQAASMGAFLLSCGAEGKRFALPNSSRIIMHQPLGGARG..QATDIEIQAKEITRLK	TIILND	151		
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKPVS	TCICGMAASMGAFLLAAGEKKRYALPNSEVMIHQPLGGAQG..QATEIEIAAKRILLRLDKLNK	152		
consensus						*****!*****!	*!*!!!!!!*	*****!*****!	*****!*****!	***

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAQNAGKTIKQIHKDAERDYWMSAETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAQNAGKTIKQIHKDAERDYWMSAETLAYGFIDEIMENNELK.	196
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGGPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGGPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	418265	M594	RS07165	WP	000613471.1	ILAENSQGSIIEKVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	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	1223	Cj0192c	YP	002343650.1	ILAKNTKKQKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK.	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERTDRDNFKADEALEYGLIDKILTHTEDKK	197
consensus						*!*****!!*****!*!!!!!!*!!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved