

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKLDRIIMLTGTPVEDGMANS	IAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKLDRIIMLTGTPVEDGMANS	IAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	75
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDNTKDIIYLYINSPGGSVSAG	80
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	72
NTDB id	330	STU RS11365 WP 002949732.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGPTEEDNMANS	IAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGPTEEDNMANS	IAQLFLDAQDNTKDIIYLYVNTPGGSVSAG	72
NTDB id	107321	ACAM22 RS03115 WP 000613471.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1		MIPVVIEQTSGRSYDIYSRLKLDRIIMLTGTPVEDNMANS	IAQLFLDAQDS TKDIIYLYVNTPGGSVSAG	72
NTDB id	1223	Cj0192c YP 002343650.1	MFIPY	VIEKSSRGRSYDIYSRLKLDRIIMLTSGEIHDELAAAS	IVAQLFLFEADPTKDIIYLYINSPGGVITS	73
NTDB id	86	BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKLDRIIMLTGSAIDNVAAS	IVSQLLFLAEADPEKEISLYINSPGGSI	74
consensus				**!*!*****!!*!!!!!!!!!!!!!!!**!*!***!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*		

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYL	IHQPMGGAGQGTTQQTDMAIVAEQLLKT	RKRL	E	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYL	IHQPMGGTGQGTQQTDMAIVAEQLLKT	RKRL	E	155
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYL	IHQPMGGTGGGTQQTDMIAAAEQLLKT	RKRL	E	160
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIIKA	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRHR	LEK			152
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRHR	LEK			152
NTDB id	330	STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRNN	LEQ			152
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRNN	LEQ			152
NTDB id	107321	ACAM22 RS03115 WP 000613471.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRNN	LEK			152
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRNT	LEK			152
NTDB id	246	SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRNT	LEK			152
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRNT	LEK			152
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSGT	TGKRFRMLPNAEYMIHQPMGGTGGGTQQTDMIAAEEHLLKTRNT	LEK			152
NTDB id	1223	Cj0192c YP 002343650.1	FSLIDTMNYIKP	DVCITIGQAASMGAFLLSCGAEGKRFRALPNSSRI	MIHQPLGGARG..QATDIEIQAKEILRLKIT	LN			151
NTDB id	86	BSU 34540 NP 391334.1	MAIYDTMQFIPKV	STICIGMAASMGAFLLAAGEKKRYALPNSEVM	IMHQPLOGGAQQ..QATEIEIAAKIRILLRDKLNK				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	ILAQNAGKTIKQIHKDAERYWMSAETLAYYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAQNAGKTIKQIHKDAERYWMSAETLAYYGFIDEIMENNELK.	196
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGGPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGGPIEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	107321	ACAM22	RS03115	WP	000613471.1	ILAENSQGSIKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENSQGSMKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN.	196
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTKKVKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLKSFK.	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERTDRDNFKADEALEYGLIDKILTHTEDKK	197
consensus						*!*****!!*****!*!!!!!!*!!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved