

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLCLKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLCLKDRIIMLTGPVEDGMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPIEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDSTKDIYLYVNTPGGSVSAG	72
NTDB id 977644 MGAS37839 RS01925 WP 002985850.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVEIQTSGRGSYDIYSRLCLKDRIIMLTGPVEDNMANS	IAQLFLDAQDNTKDIYLYINSPGGSVSAG	80
NTDB id 1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGRSYDIYSRLCLKDRIIMLTSGEIHDELAAS	IVAQLFLFAEDPTKDIYLYINSPGGVITS	73
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLCLKDRIIMLTGSAIDNVANS	IVSQLFLFAEDPEKESLYINSPGGSITAG	74
consensus		*****	*****	

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYLIHQPMGGAGQGTTQTDMATVAEQLLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYLIIHQPMGGTGQQGTQTDMATVAEQLLKTRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRNNLEQ	152
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRNNLEQ	152
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	V IASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRNLTLEK	152
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	V IASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRNLTLEK	152
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	V IASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRNLTLEK	152
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	V IASSGA	AKGKRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRNLTLEK	152
NTDB id	977644 MGAS37839 RS01925 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	V IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRHRLEK	152
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	V IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRHRLEK	152
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMG	V IASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQTDMATAAEHLLKTRHRLEK	152
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGMAASMG	T IASSGA	AKGKRFMLPNAEYLIHQPMGGTGGGTQQSDMAIAAEQLLKTRKKLEK	160
NTDB id	1223 Cj0192c YP 002343650.1	F S I Y D T M N Y I K P	D V C T I C I G Q A A S M G A F L L S C G A E G K R F A L P N S R I M I H Q P L G G A R G . . Q A T D I E I Q A K E I L R L K T I L N D			151
NTDB id	86 BSU 34540 NP 391334.1	M A I Y D T M Q F I K P	S T I C I G M A A S M G A F L L A A G E K G R Y A L P N S E V M I H Q P L G G A Q G . . Q A T E I E I A A K R I L L R D K L N K			152
consensus		** * * ! ! ! * ! ! ! *	* * ! ! ! * ! ! ! * ! ! ! *	* * ! ! ! * ! ! ! * ! ! ! *	* * ! ! ! * ! ! ! * ! ! ! *	! * *

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL	EQIHKDAERD	HWM	DAKETLEYGFIDEIM	ENNSLK.	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL	EQIHKDAERD	HWM	DAKETLEYGFIDEIM	ENNSLK.	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI	IEKVHVDAERD	NWMSAQ	ETLEYGFIDEIM	TNNQLK.	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI	IEKVHVDAERD	NWMSAQ	ETLEYGFIDEIM	TNNQLK.	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSGQSMEK	VHADAERD	NWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSGQSMEK	VHADAERD	NWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSGQSMEK	VHADAERD	NWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSGQSMEK	VHADAERD	NWMSAQ	ETLEYGFIDEIM	ANNSLN.	196
NTDB id 977644 MGAS37839 RS01925 WP 002985850.1	ILAQNAGKTIKQ	IHKDAERDY	WMSAEETL	AYGFIDEIM	ENNELK.	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNAGKTIKQ	IHKDAERDY	WMSAEETL	AYGFIDEIM	ENNELK.	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNAGKTIKQ	IHKDAERDY	WMSAEETL	AYGFIDEIM	ENNELK.	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQ	IHKDAERDY	WMDAKETL	KYGFIDEIM	ENNELK.	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTKQKQVAK	IAKDTERDF	FMSAQEAK	EYGLIDK	VLEKSFK..	194
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGQPLEV	IERDTRD	NFKSAEEA	LEYGLIDK	ILTHTEDKK	197
consensus	*I*****	*****	*****	*****	*****	

 non conserved
 similar
 $\geq 50\%$ conserved