

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	I	IAQLFLDAQDNTKD IYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANS	I	IAQLFLDAQDNTKD IYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANS	I	IAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANS	I	IAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	V	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	V	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	V	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	V	IAQLFLDAQDS TKDIYLYVNTPGGSVSAG	72
NTDB id	1136188 DQM44 RS02020 WP 002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	V	IAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	V	IAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	V	IAQLFLDAQDNTKD IYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANS	I	IAQLFLDAQDNTKD IYLY INSPGGSVSAG	80
NTDB id	1223 Cj0192c YP 002343650.1	MF	IPYVIEKSSRGRSYDIYSRLKDRIIMLSGEIHDELAAS	I	VAQLFLFEADPTKDIYLY INSPGGVITS	73
NTDB id	86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIMLGSAIDDNVANS	I	VSQLLFLAEADPEKEISLY INSPGGSITAG	74
consensus						**!*!*****!!**!!***!!****!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYLIIHQPMGGAGQG	TQTQTDMAIVAEEQLLKRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYLIIHQPMGGTGQG	TQTQTDMAIVAEEQLLKRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNNLEQ	152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIIVDTMNFIKS	DVQTIVMGMAASMGTTIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNNLEQ	152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIIVDTMNFIKA	DVQTIVMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNMLEK	152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIIVDTMNFIKA	DVQTIVMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNMLEK	152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIIVDTMNFIKA	DVQTIVMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNMLEK	152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIIVDTMNFIKA	DVQTIVMGMAASMGTVIASSGA	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRNMLEK	152
NTDB id	1136188	DQM44	RS02020	WP	002985850.1	LAIIVDTMNFIKA	DVQTIVMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRHRLEK	152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIIVDTMNFIKA	DVQTIVMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRHRLEK	152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIIVDTMNFIKA	DVQTIVMGMAASMGTVIASSGT	TGGKRFMLPNAEYMIHQPMGGTGGGT	TQTQTDMAIAAEHLLKTRHRLEK	152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIIVDTMNFIKS	DVQTIVMGTAASMGTTIASSGA	TGGKRFMLPNAEYLIHQPMGGTGGGT	QSDMAIAAEEQLLKTRKKLEK	160
NTDB id	1223	Cj0192c	YP	002343650.1	FSIIYDTMNFIKP	DVCTICIGQAASMGAFLLSCGA	EKGKFALPNSRIMIHQPLGGARG.	.QATDIEIQAKEILRLKTINLD	151	
NTDB id	86	BSU	34540	NP	391334.1	MAYIDTMQFIRPKVS	TICI GMAASMGAFLLAAEG	GKKRYALPNSSEVMIHQPLGGAQG.	.QATEIEIAAKRIILLRDKLND	152
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	1136188	DQM44	RS02020	WP	002985850.1	ILAQNAGKTIKQIHKKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAQNAGKTIKQIHKKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAQNAGKTIKQIHKKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTKQKVAKIAKDTERDFFMSAQEAKHEYGLIDKVLKSFK..	194	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTRDNFKAEEALEYGLIDKILTHTEDKK	197
consensus						*!***** ** *!*!!!! ****! !****!!*!*** ** *	

 non conserved
 similar
 $\geq 50\%$ conserved