

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVED	GMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVED	GMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGP	TEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGP	TEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 282 KZH43 RS03215 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	STKDIYLYVNTPGGSVSAG	72
NTDB id 246 SPD RS03495 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	STKDIYLYVNTPGGSVSAG	72
NTDB id 244 SPR RS03300 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	STKDIYLYVNTPGGSVSAG	72
NTDB id 242 SP RS03655 WP 000613477.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	STKDIYLYVNTPGGSVSAG	72
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	IIAQLFLDAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id 1223 Cj0192c YP 002343650.1	MFIP	YVIEKSSRGRERSYDIYSRLKDRIMLTGP	THDELAASIIAQLFLDAQDN	TKDIYLYINSPGGVITS	73
NTDB id 56080 KSO RS03055 WP 003151513.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIMLTGP	SAIDNIVANSIVSQQFLFLAEDPEKDIS	TYINSPGGSTITAG	74
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIMLTGP	SAIDNIVANSIVSQQFLFLAEDPEKDIS	LYINSPGGSTITAG	74
consensus	***	*****	*****	*****	*****

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYL	LHQPMGGAGQG	GTQQTDMATVAEQ	LLKTRKRLEQ	155
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYL	LHQPMGGTGQG	GTQQTDMATVAEQ	LLKTRKRLEQ	155
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQTDMATAAEHL	LKTRNNLEQ	152	
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYMIHQP	MGGTGGGTQQTDMATAAEHL	LKTRNNLEQ	152	
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHP	PMGGTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQP	PMGGTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQP	PMGGTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQP	PMGGTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQP	PMGGTGGGTQQTDMATAAEHL	LKTRHRLEK	152	
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHP	PMGGTGGGTQQTDMATAAEHL	LKTRHRLEK	152	
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTIIVMGTTIASSMGTTIASSGA	TGKGRFMLPNAEYL	LHQPMGGTGGGTQQS	DMAIAAEQLL	KTRKKLEK	160
NTDB id	1223 Cj0192c YP 002343650.1	FSTIYDITMYIKPDVCTICIGQAASMGAFILSCGA	EKGKRFALPN	SRIIMIHQPLGGA	R...QATDIEIQAKEI	RLKTIIND	151
NTDB id	56080 KSO RS03055 WP 003151513.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGE	EKGKRYALPNSEVM	IHQPLGGAQG...QATEIEIAAKR	ILLRDKNLK	152	
NTDB id	86 BSU 34540 NP 391334.1	MAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGE	EKGKRYALPNSEVM	IHQPLGGAQG...QATEIEIAAKR	ILLRDKNLK	152	
consensus		** * ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL EQ IHKDAERDHWMDAKETLEYGFIDEIMENNSLK	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL EQ IHKDAERDHWMDAKETLEYGFIDEIMENNSLK	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPI EK VH VD AERDNWMSAQETLEYGFIDEIMTNNQLK	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPI EK VH VD AERDNWMSAQETLEYGFIDEIMTNNQLK	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAE NS GQSM EK VH DA AERDNWMSAQETLEYGFIDEIMANNSLN	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAE NS GQSM EK VH DA AERDNWMSAQETLEYGFIDEIMANNSLN	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAE NS GQSM EK VH DA AERDNWMSAQETLEYGFIDEIMANNSLN	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAE NS GQSM EK VH DA AERDNWMSAQETLEYGFIDEIMANNSLN	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQ NA GKTI IK IHKDAERDYWMSAEETLAYGFIDEIMENNELK	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQ NA GKTI IK IHKDAERDYWMSAEETLAYGFIDEIMENNELK	196
NTDB id 376 SMU RS07595 WP 255262720.1	IL SD NSGKTI IK IHKDAERDYWMDAKETLKYGFIDEIMENNELK	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQKVAKIAKDT ERD FFMSAQEAKEYGLIDKVLTRNTEDQK	194
NTDB id 56080 KSO RS03055 WP 003151513.1	VLAERTGGQPLEVIERD TD RDNFKSADEALEYGLIDKVLTRNTEDQK	198
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGGQPLEVIERD TD RDNFKSAEEALEYGLIDKILTHTEDKK	197
consensus	* * * * *	

 non conserved
 similar
 $\geq 50\%$ conserved