

NTDB id 602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVED	GMANSIIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	75
NTDB id 611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIMLTGPVED	GMANSIIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	75
NTDB id 330 STU RS11365 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGP	TEDNMANSIIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id 298 STER RS01925 WP 002949732.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGP	TEDNMANSIIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	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	TKDIIYLYVNTPGGSVSAG	72
NTDB id 445 SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	VIAQLFLDAQDN	TKDIIYLYVNTPGGSVSAG	72
NTDB id 376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSRGRERSYDIYSRLKDRIMLTGPVEDNMANS	IIAQLFLDAQDN	TKDIIYLYINSPGGSVSAG	80
NTDB id 1223 Cj0192c YP 002343650.1	MFIP	YVIEKSSRGRERSYDIYSRLKDRIMLTGP	THDELAASIIAQLFLDAQDN	TKDIIYLYINSPGGVITS	73
NTDB id 21707 TRNA RS39750 WP 003185550.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIMLTGP	SAIDNIVANSIVSQQLLFLAEDPEKDIS	TYINSPGGSTITAG	74
NTDB id 86 BSU 34540 NP 391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIMLTGP	SAIDNIVANSIVSQQLLFLAEDPEKEIS	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	MGTTGGGTQQTDMATAAEHL	LKTRNNLEQ	152	
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKSDVQTIIVMGMAASMGTTIASSG	TGKGRFMLPNAEYMIHQP	MGTTGGGTQQTDMATAAEHL	LKTRNNLEQ	152	
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHP	MGTTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	246	SPD RS03495 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQP	MGTTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQP	MGTTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSGA	TGKGRFMLPNAEYMIHQP	MGTTGGGTQQTDMATAAEHL	LKTRNMLEK	152	
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQP	MGTTGGGTQQTDMATAAEHL	LKTRHRLEK	152	
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKADVQTIIVMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHP	MGTTGGGTQQTDMATAAEHL	LKTRHRLEK	152	
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKSDVQTIIVMGTTIASSMGTTIASSGA	TGKGRFMLPNAEYL	LHQPMGGTGGGTQQS	DMAIAAEQLL	KTRKKLEK	160
NTDB id	1223	Cj0192c YP 002343650.1	FSTIYDTMNYIKPDVCTICIGQAASMGAFILSCGA	EKGKRFALPN	SRIIMIHQPLGGA	R...CATDIETIAKEITRL	KTIIND	151
NTDB id	21707	TRNA RS39750 WP 003185550.1	MAIYDTMQFIKPQVSTICTGMAASMGAFLLAAGE	EKGKRYALPNSEVM	IHQPLGGAQG...CATEIEIAAKRILL	SLRDKNLK	152	
NTDB id	86	BSU 34540 NP 391334.1	MAIYDTMQFIKPKVSTICTIGMAASMGAFLLAAGE	EKGKRYALPNSEVM	IHQPLGGAQG...CATEIEIAAKRILL	LRDKNLK	152	
consensus			** * ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	* ! * ! * ! * ! * ! * ! * ! * ! * ! *	

NTDB id 602 KW2 RS03060 WP 011834647.1	ILADNSNRSL E QIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id 611 V4T04 RS07970 WP 003129593.1	ILADNSNRSL E QIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id 330 STU RS11365 WP 002949732.1	ILADNSGQPTEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id 298 STER RS01925 WP 002949732.1	ILADNSGQPTEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id 282 KZH43 RS03215 WP 000613477.1	ILAENSQGSM E KVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 246 SPD RS03495 WP 000613477.1	ILAENSQGSM E KVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 244 SPR RS03300 WP 000613477.1	ILAENSQGSM E KVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 242 SP RS03655 WP 000613477.1	ILAENSQGSM E KVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	ILAQNA G KTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id 445 SPYM3 RS01720 WP 002985850.1	ILAQNA G KTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id 376 SMU RS07595 WP 255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id 1223 Cj0192c YP 002343650.1	ILAKNTIKQKVAKIAKDTERDFEWSAQEAKEYGLIDKVLKSFK...	194
NTDB id 21707 TRNA RS39750 WP 003185550.1	ILAE R TGGPLEVIERDTDRDNFKTAEEAKEYGLIDKVLTRNIDAQK	198
NTDB id 86 BSU 34540 NP 391334.1	VLAERTGGPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197
consensus	* * * * *	

 non conserved
 similar
 $\geq 50\%$ conserved