

NTDB id	602	KW2 RS03060 WP 011834647.1	MGYLVPTVIEQSSRGERAYDIYSRLKDKRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04 RS07970 WP 003129593.1	MGYLVPTVIEQSSRGERAYDIYSRLKDKRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU RS11365 WP 002949732.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER RS01925 WP 002949732.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43 RS03215 WP 000613477.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD RS03495 WP 000613477.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR RS03300 WP 000613477.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP RS03655 WP 000613477.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3 RS01720 WP 002985850.1	MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU RS07595 WP 255262720.1	MELKEKYS MIPVVIEQTSGRSERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id	55213	A7A1 RS03450 WP 003228214.1	MNLIPTVIEQTNRGERAYDIYSRLKDKRIIMLGSAIDDNVANSIIVSQLLFLAAEADPEKEISLYINSPPGGSITAG		74
NTDB id	86	BSU 34540 NP 391334.1	MNLIPTVIEQTNRGERAYDIYSRLKDKRIIMLGSAIDDNVANSIIVSQLLFLAAEADPEKEISLYINSPPGGSITAG		74
NTDB id	1223	Cj0192c YP 002343650.1	MFIPYVIEKSSRGRERSYDIYSRLKDKRIIMLSGEIHDELAASIVAQLLFLAEADPTKDIYLYINSPPGVITSG		73
consensus					**!*!***!!**!!**!!!**!!!!!!**!!*****!!*!!*!!*!!*!!*!!*!!*!!*

NTDB id	602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTIIVMGMAASMGTTIASSGTGKGRFMLPNAEYLIHQPMGGAGQGQTQQTDMAIVAEEQLLKRTRRLEQ
NTDB id	611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTIIVMGMAASMGTTIASSGTGKGRFMLPNAEYLIIHQPMGGTGQGTQQTDMAIVAEEQLLKRTRRLEQ
NTDB id	330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTIIVMGMAASMGTTIASSGTGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNNLEQ
NTDB id	298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTIIVMGMAASMGTTIASSGTGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRNNLEQ
NTDB id	282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFICA	DVQTIIVMGMAASMGTVIASSGAKGFRMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNTLEK
NTDB id	246 SPD RS03495 WP 000613477.1	LAIVDTMNFICA	DVQTIIVMGMAASMGTVIASSGAKGFRMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNTLEK
NTDB id	244 SPR RS03300 WP 000613477.1	LAIVDTMNFICA	DVQTIIVMGMAASMGTVIASSGAKGFRMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNTLEK
NTDB id	242 SP RS03655 WP 000613477.1	LAIVDTMNFICA	DVQTIIVMGMAASMGTVIASSGAKGFRMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAEHLLKTRNTLEK
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFICA	DVQTIIVMGMAASMGTVIASSGTGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRHRLEK
NTDB id	445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFICA	DVQTIIVMGMAASMGTVIASSGTGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMAIAAAHLLKTRHRLEK
NTDB id	376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTIIVMGTAASMGTTIASSGAKGFRMLPNAEYLIHQPMGGTGGGTQQSDMAIAAEQQLLKTRKKLEK
NTDB id	55213 A7A1 RS03450 WP 003228214.1	MAYIDTMCFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPPLGQAQG..QATEIEIAAKRIILLRLDKLNK	
NTDB id	86 BSU 34540 NP 391334.1	MAYIDTMCFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPPLGQAQG..QATEIEIAAKRIILLRLDKLNK	
NTDB id	1223 Cj0192c YP 002343650.1	FSAIIDTMNYIKPDVCTTCIGQAASMGAFILLSCAEGEKRFALPNSRIMIHQPPLGGARG..QATDIEIQAKEILLRLITIND	
consensus		**!*!*****!	*!!**!!!***!!****!!*!!!!!!*

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSLKQIHKKDAERDHWMDAKETLEYGFIDEIMENNSLK.	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSLKQIHKKDAERDHWMDAKETLEYGFIDEIMENNSLK.	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	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	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKDAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKDAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	55213	A7A1	RS03450	WP	003228214.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITIKQKVAKIAKTDTERDFFMSAQEAKKEYGLIDKVLEKSFK..	194	
consensus						*!*****!****!*!!**!!!***!!*!!!!!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved