

NTDB id	602 KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	611 V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIMLTGPVEDGMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	75
NTDB id	330 STU RS11365 WP 002949732.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	298 STER RS01925 WP 002949732.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPIEDNMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	282 KZH43 RS03215 WP 000613477.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	246 SPD RS03495 WP 000613477.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	244 SPR RS03300 WP 000613477.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	242 SP RS03655 WP 000613477.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDS	TCKDIYLYVNTPGGSVSAG	72
NTDB id	446 SpyM6JRS4 RS01695 WP 002985850.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	445 SPYM3 RS01720 WP 002985850.1	MIPVV	IEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TCKDIYLYVNTPGGSVSAG	72
NTDB id	376 SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIMLTGPVEDNMANSIIAQLFLDQAQDN	TCKDIYLYINSPGGSVSAG	80
NTDB id	1223 Cj0192c YP 002343650.1	MFIPY	VIEQKSRRGERSYDIYSRLKDRIIMLSGETIHDELAAASIVAQLLFLEAEDPT	TCKDIYLYINSPGGVITSG	73
NTDB id	174176 B34 RS11545 WP 003185550.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQLLFLEAEDPEKDISITYINS	PGGSTITAG	74
NTDB id	86 BSU 34540 NP 391334.1	MNLIPT	VIEQTNRGERAYDIYSRLKDRIIMLGSAIDNVANSIVSQLLFLAEADPEKEISILYINS	PGGSTITAG	74
consensus					
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NTDB id 602 KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQP MGGAAC	GQTQQTDMAIVA EQLLKTRKRLEQ	155
NTDB id 611 V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LHQP MGGTGG	GQTQQTDMAIVA EQLLKTRKRLEQ	155
NTDB id 330 STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRNNLEQ		152
NTDB id 298 STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRNNLEQ		152
NTDB id 282 KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRNTLEK		152
NTDB id 246 SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRNTLEK		152
NTDB id 244 SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRNTLEK		152
NTDB id 242 SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRNTLEK		152
NTDB id 446 SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRHRLEK		152
NTDB id 445 SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQPMGGTG	GGTGGGTQQTDMAIAAEHLKTRHRLEK		152
NTDB id 376 SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSG	AKGGRFMLPNAEYL	LHQP MGGTGGGTQQSDMAIAAEQQLKTRKKLEK		160
NTDB id 1223 Cj0192c YP 002343650.1	FSIIYDTMNYIKP	DVCTICIGQAASMGAFILLS	CAGCKRFALPNSSRI	MIHQPLGGARG..QATDIEIQAKEITRLKTI	LND	151
NTDB id 174176 B34 RS11545 WP 003185550.1	MAIYDTMQFIKPQVS	TICTGMAASMGAFLLAA	GKGRYALPNSEVM	IHQPLGGAQG..QATEIEIAAKRILSLRDKLN	K	152
NTDB id 86 BSU 34540 NP 391334.1	MAIYDTMQFIKPQVS	TICTGMAASMGAFLLAA	GKGRYALPNSEVM	IHQPLGGAQG..QATEIEIAAKRILLRLDKLNK		152
consensus	*****!	*!*!***!!*	*****!	*!*!***!!*	*****!	*!*!***!!*

NTDB id	602	KW2	RS03060	WP	011834647.1	ILADNSNRSL	EQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id	611	V4T04	RS07970	WP	003129593.1	ILADNSNRSL	EQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK..	199
NTDB id	330	STU	RS11365	WP	002949732.1	ILADNSGQP	IEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQP	IEKVHVDAERDNWMSAQETLEYGFIDEIMTNQLK..	196
NTDB id	282	KZH43	RS03215	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENS	GQSMEKVVHADAERDNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKT	IKQIHKAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKT	IKQIHKAERDYWMSAEETLAYGFIDEIMENNELK..	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKT	IKQIHKAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTIKQKVAKIAKDTERDFFMSAQEAKKEYGLIDKVLLEKSFK...	194		
NTDB id	174176	B34	RS11545	WP	003185550.1	ILAERTTGQPLEVIERDTDRDNFKTAEEAKEKEYGLIDKVLTRNIDAQK	198	
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK.	197	
consensus						*!*****!****!*!!**!!!*!!!!!!*!!!!!!*!!*!!!!!!*		

 non conserved
 similar
 $\geq 50\%$ conserved