

NTDB id 602	KW2 RS03060 WP 011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRL	LDRIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	75		
NTDB id 611	V4T04 RS07970 WP 003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRL	LDRIIMLTG	PVEDGMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	75		
NTDB id 330	STU RS11365 WP 002949732.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PIEDNMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 298	STER RS01925 WP 002949732.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PIEDNMANSIIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72	
NTDB id 282	KZH43 RS03215 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72
NTDB id 246	SPD RS03495 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72
NTDB id 244	SPR RS03300 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72
NTDB id 242	SP RS03655 WP 000613477.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDS	TKDIYLYVNT	PGGSVSAG	72
NTDB id 446	SpyM6JRS4 RS01695 WP 002985850.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 445	SPYM3 RS01720 WP 002985850.1		MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANS	VIAQLFLDAQDN	TKDIYLYVNT	PGGSVSAG	72
NTDB id 376	SMU RS07595 WP 255262720.1	MELKEKYS	MIPVVIEQTSR	GERSYDIYSRL	LDRIIMLTG	PVEDNMANSIIAQLFLDAQDN	TKDIYLY	INSPGGSVSAG	80	
NTDB id 171753	AWV81 RS18420 WP 003228214.1	MNL	IPTVIEQTN	RGERAYDIYSRL	LDRIIMLTG	SAIDDNVANSI	VSQLLFLAAEDPEKEISLY	INSPGGSI	TAG	74
NTDB id 86	BSU 34540 NP 391334.1	MNL	IPTVIEQTN	RGERAYDIYSRL	LDRIIMLTG	SAIDDNVANSI	VSQLLFLAAEDPEKEISLY	INSPGGSI	TAG	74
NTDB id 1223	Cj0192c YP 002343650.1	MF	IPYVIEKSSR	GERSYDIYSRL	LDRIIMLTG	SEIHDELAASIV	AQLFLFAEDP	TKDIYLY	INSPGGVITSG	73
consensus			*****							

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYLIHQPMGGAGQGTTQQTDMAIVAEEQLLKRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYLIHQPMGGTGQGTQQTDMAIVAEEQLLKRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRNNLEQ	152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRNNLEQ	152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRNTLEK	152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRNTLEK	152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRNTLEK	152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	AKGGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRNTLEK	152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRHRLEK	152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI	VMGMAASMG	TIASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGTQQTDMIAAAEHLLKTRHRLEK	152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI	VMGTAASMG	TIASSGT	AKGGRFMLPNAEYLIHQPMGGTGGGTQQSDMAIAAEQLLKRKKLEK	160
NTDB id	171753	AWV81	RS18420	WP	003228214.1	MAIYDTMQFIKP	KVSV	TICIGMAASMG	AFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATEIEIAAKRIILLRLDKLNK	152	
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKP	KVSV	TICIGMAASMG	AFLLAAGEKGKRYALPNSEVMIHQPLGGAQG..QATEIEIAAKRIILLRLDKLNK	152	
NTDB id	1223	Cj0192c	YP	002343650.1	FSAIYDTMNYIKP	DVCTI	CIGQAASMG	AFLLSCAEGEKRFALPNSRIMIHQPLGGARG..QATDIEIQAKEILRLKITIND	151		
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	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	196
NTDB id	298	STER	RS01925	WP	002949732.1	ILADNSGQPTEKVVHDAERDNWMSAQETLEYGFIDEIMTNQLK.	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	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKQIHKAERDYWMSAEETLAYGFIDEIMENNELK.	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKQIHKAERDYWMDAKETLKYGFIDEIMENNELK.	204
NTDB id	171753	AWV81	RS18420	WP	003228214.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITIKQKVAKIAKTDTERDFFMSAQAKEYGLIDKVLEKSFK..	194	
consensus						*!*****!****!*!!**!!!*!!!!!!*!!!!!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved