

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDKRIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDKRIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1	MIPV	VIEQTSGERSYDIYSRLKDKRIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIPVV	IEQTSRGERSYDIYSRLKDKRIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIPV	VIEQTSRGERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIPV	VIEQTSRGERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSRGERSYDIYSRLKDKRIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id	100690	AWM80	RS17605	WP	003228214.1	MNL	IPTVIEQTNRGERAYDIYSRLKDKRIIMLGSAIDDNVANISVSQLLFLAAEDPEKEISLYINSPGGSI	TAG	74
NTDB id	86	BSU	J34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDKRIIMLGSAIDDNVANISVSQLLFLAAEDPEKEISLYINSPGGSI	TAG	74
NTDB id	1223	Cj0192c	YP	002343650.1	MFIP	PYVIEKSSRGERSYDIYSRLKDKRIIMLSGEIHDELAAASIVAQLFLAEADP	TKDIYLYINSPGGVITSG	73	
consensus						*****	***!!!****!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*!!!!!!*		

NTDB id	602	KW2	RS03060	WP	011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LTHQPMGGAGC	GQTQQTDMAIVA	AEQLLKTRKRLEQ	155
NTDB id	611	V4T04	RS07970	WP	003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYL	LTHQPMGGTG	GQTQQTDMAIVA	AEQLLKTRKRLEQ	155
NTDB id	330	STU	RS11365	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRNNLEQ	152
NTDB id	298	STER	RS01925	WP	002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTIASSGT	TGKGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRNNLEQ	152
NTDB id	282	KZH43	RS03215	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRNTLEK	152
NTDB id	246	SPD	RS03495	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRNTLEK	152
NTDB id	244	SPR	RS03300	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRNTLEK	152
NTDB id	242	SP	RS03655	WP	000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	AKGGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRNTLEK	152
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRHRLEK	152
NTDB id	445	SPYM3	RS01720	WP	002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVIASSG	TGKGRFMLPNAEYMIHQ	MPMGGTGGGT	GQTQTDMAIAA	AHELLKTRHRLEK	152
NTDB id	376	SMU	RS07595	WP	255262720.1	LAIVDTMNFIKS	DVQTI VMGTAASMGTTIASSG	AKGGRFMLPNAEYL	LTHQPMGGTG	GQTQSDMAIAA	AEQLLKTRKKLEK	160
NTDB id	100690	AWM80	RS17605	WP	003228214.1	MAIYDTMQFIKP	KPVSTICIGMAASMGAFLLAA	GEKGKRYALPNSE	VMIHQPPLGGA	QG...QATEIEIAAKRI	ILLRLDKLNLN	152
NTDB id	86	BSU	34540	NP	391334.1	MAIYDTMQFIKP	KPVSTICIGMAASMGAFLLAA	GEKGKRYALPNSE	VMIHQPPLGGA	QG...QATEIEIAAKRI	ILLRLDKLNLN	152
NTDB id	1223	Cj0192c	YP	002343650.1	FSAIYDTMNYIKP	DVCTICIGQAASMGAFLLSC	GAEGKRFALPNSRIM	IHQPLGLGAR	G...QATDIEIQAKEILRL	ITILND	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	100690	AWM80	RS17605	WP	003228214.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	86	BSU	34540	NP	391334.1	VLAERTTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK	197
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNITKQKVAKIAKTDTERDFFMSAQEAKKEYGLIDKVLKSFK..	194	
consensus						*!*****!****!*!!**!!!***!!*!!!!!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved