

NTDB id	602	KW2	RS03060	WP	011834647.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	611	V4T04	RS07970	WP	003129593.1	MGYL	VPTVIEQSSRGERAYDIYSRLKDRIIIMLTGPVEDGMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	75
NTDB id	330	STU	RS11365	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	298	STER	RS01925	WP	002949732.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPIEDNMANSIIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	282	KZH43	RS03215	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	246	SPD	RS03495	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	244	SPR	RS03300	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	242	SP	RS03655	WP	000613477.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDS	TKDIYLYVNTPGGSVSAG	72
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	445	SPYM3	RS01720	WP	002985850.1	MIP	VVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSVIAQLFLDAQDN	TKDIYLYVNTPGGSVSAG	72
NTDB id	376	SMU	RS07595	WP	255262720.1	MELKEKYS	MIPVVIEQTSGERSYDIYSRLKDRIIIMLTGPVEDNMANSIIAQLFLDAQDN	TKDIYLYINSPGGSVSAG	80
NTDB id	1223	Cj0192c	YP	002343650.1	MF	IPTYVIEKSSRGERSYDIYSRLKDRIIIMLSGEIHDELAASIVAQLLFLAEADP	TKDIYLYINSPGGVITSG	73	
NTDB id	264643	COW57	RS14935	WP	003151513.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLGSAIDNVANSIVSQLLFLAEADEPKDISIYINSPGGSITAG	74	
NTDB id	86	BSU	34540	NP	391334.1	MNL	IPTVIEQTNRGERAYDIYSRLKDRIIIMLGSAIDNVANSIVSQLLFLAEADEPEKEISLYINSPGGSITAG	74	
consensus							**!*!*	*****!	*!***!!**!

NTDB id	602	KW2 RS03060 WP 011834647.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTI	AASSGT	TGKGRFMLPNAEYL	LHQPMMGGAGQG	TQQTDMAIVA EQLLKTRKRLE	EQ	155
NTDB id	611	V4T04 RS07970 WP 003129593.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTI	AASSGT	TGKGRFMLPNAEYL	LHQPMMGGTGQG	TQQTDMAIVA EQLLKTRKRLE	EQ	155
NTDB id	330	STU RS11365 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTI	AASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRNNLE	EQ		152
NTDB id	298	STER RS01925 WP 002949732.1	LAIVDTMNFIKS	DVQTI VMGMAASMGTTI	AASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRNNLE	EQ		152
NTDB id	282	KZH43 RS03215 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVI	AASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRNTE	LEK		152
NTDB id	246	SPD RS03495 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVI	AASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRNTE	LEK		152
NTDB id	244	SPR RS03300 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVI	AASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRNTE	LEK		152
NTDB id	242	SP RS03655 WP 000613477.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVI	AASSGA	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRNTE	LEK		152
NTDB id	446	SpyM6JRS4 RS01695 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVI	AASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRHRLE	EK		152
NTDB id	445	SPYM3 RS01720 WP 002985850.1	LAIVDTMNFIKA	DVQTI VMGMAASMGTVI	AASSGT	TGKGRFMLPNAEYMIHQPMGGTGGGT	TQQTDMAIAAEHLKTRHRLE	EK		152
NTDB id	376	SMU RS07595 WP 255262720.1	LAIVDTMNFIKS	DVQTI VMTAASMGTTI	AASSGA	TGKGRFMLPNAEYL	LHQPMMGGTGGGTQQ	SDMAIAAEQLLKTRKKLE		160
NTDB id	1223	Cj0192c YP 002343650.1	FSIYDTMNVIKP	DVCTICIGQAASMGAFILL	SCGAE	GKRFALPNSSRI	MIHQPLGGARG.. QATDIEIQAKEILRLKT	IIND		151
NTDB id	264643	COW57 RS14935 WP 003151513.1	MAIYDTMQFIKPKV	STICI	GMAASMGAFLLAAEG	KGKRYALPNSEVM	IMHQLPGAAGG.. QATEIEIAAKRILLLRDKLN	NK		152
NTDB id	86	BSU 34540 NP 391334.1	MAIYDTMQFIKPKV	STICI	GMAASMGAFLLAAEG	KGKRYALPNSEVM	IMHQLPGAAGG.. QATEIEIAAKRILLLRDKLN	NK		152
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	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	246	SPD	RS03495	WP	000613477.1	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	244	SPR	RS03300	WP	000613477.1	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	242	SP	RS03655	WP	000613477.1	ILAENSQGSMKEKVHADAEARNWMSAQETLEYGFIDEIMANNSLN..	196
NTDB id	446	SpyM6JRS4	RS01695	WP	002985850.1	ILAAQNAGKTIKKIHKAERDYWSAEETLAYGFIDEIMENNELK..	196
NTDB id	445	SPYM3	RS01720	WP	002985850.1	ILAAQNAGKTIKKIHKAERDYWSAEETLAYGFIDEIMENNELK..	196
NTDB id	376	SMU	RS07595	WP	255262720.1	ILSDNSGKTIKKIHKAERDYWMDAKETLKYGFIDEIMENNELK..	204
NTDB id	1223	Cj0192c	YP	002343650.1	ILAKNTIKKQVAKIAKDTERDFFMASQAQEAKEYGLIDKVLKSFK...	194	
NTDB id	264643	COW57	RS14935	WP	003151513.1	VLAERTGGPLEVIERDTDRDNFKSADAEALEYGLIDKVLTRNTEDQK	198
NTDB id	86	BSU	34540	NP	391334.1	VLAERTGGPLEVIERDTDRDNFKSADAEALEYGLIDKILTHTEDKK.	197
consensus						*!***** **!*!!**!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*!!*	

 non conserved
 similar
 $\geq 50\%$ conserved