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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDVF	DEIDHKVRAAHGI	LDDSEVAETEEETT	.ASKTKAKAKKEEKAVETEEIELELED	387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENK	.KDE	....PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENK	.KDE	....PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENK	.KDE	....PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFG	LIDGEEVSEQDTENK	.KDE	....PKKEEA..VNEEVPLDLGDELEIE	385	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAE	IDHQVVRVQFGL	LIDGEEAAE	....SK	.KDE....VAQVDS..VNEEVTLDLGDELEIE	381	
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIF	DEIDHQVVRVQFGL	LIDGEEIAE	....SK	.KDE....AAQVDS..VNEEVTLDLGDELEIE	381	
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEEDNTEEKQSSKE	.K	.....ETDEK..ADKNLVLELDDTIELE	382	
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQLF	DEIDRKVVRVQFGL	LEESEEEESAMAVAS	.E	.....E.....TDDLALDLDNGIEIE	377	
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKENKDIMLMI	QEQIREHYGL	DNNGVVQQAEETQ	.EEL	.EFE.E.....	348		
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAAYGI	SDVPEEDLPTTEDE	.QI	.NILPDDST.....EE.....	355		
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAYTAERP	PEMEQEIRDRVMAA	IRAGNAGEAPALAPAPAAP	EAAEA	.....	363	
NTDB id 1245 Cj1673c YP 002345041.1	KKLGQG	RENSKAFLENPEIA	DEITKAIQNSMGI	EGMIS..GSEDDE	.GEE	.....	343	
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGQG	RENAKALLKEDKAL	ADEITLKIKESIGS	NEEIM..PLPDEP	.LEEME	.....	347	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGQG	RENAKALLKEDKAL	ADEITLKIKESIGS	NEEIM..PLPDEP	.LEEME	.....	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGQG	RDTVKELIKDNPEL	AEELEAKIREKLQAK	.....			343	
NTDB id 358512 E7T10 RS02705 WP 045809962.1	TRIGQG	RENVRREFLQNP	DIASIEKNVRASTNK	IADEL..LGTPEP	DEGGD	LEGG	360		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLKENPEI	ADKLEQIRNTLAS	NPNSV..LKATAS	DSND	ESDVVEE.....SEEEL	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VMHIT..EGT	.....QDET	DGER.....PEE	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VMHIT..EGT	.....QDET	DGER.....PEE	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VMHIT..EGT	.....QDET	DGER.....PEE	348	
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCREFLRENAEL	AREIENKVRHLGV	TPMGA..V	.TLAEEVEED	.....	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLNKENPEI	AKTLDKKLREMLLN	PENMQ..LIAET	SSAAD	DVEFGAV.....PEEF	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLNKENPEI	AKTLDKKLREMLLN	PENMQ..LIAET	SSAAD	DVEFGAV.....PEEF	354		
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACKYLEENPEI	GIEEQIRAKLLV	TSANT..KATPVA	EDLAD	ADI.....	347		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEENP	QISTEIEAVIREQLL	TKASDQ..TAA	.HDETEE	EPDLL.....ES	349		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYFEENN	QIAEEIERNIREQLL	TTGTNG..AVQ	.I	.EDEE	EPDLL.....LES	349	
consensus	**!!!	*****	**	*****	*****	**	**	**	**

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NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
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NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
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NTDB id 625 LCA RS02525 WP 011374196.1	...	355
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consensus

 non conserved
 similar
 ≥ 50% conserved