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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDV	FEIDHKVRAAHG	LDDSEVAE	..TEEETTAS	TKAKAKKEEKAVETEEIELELED	...	387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKKD	...PKKEEA	..VNEEVPLDLGDELEI	384		
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKKD	...PKKEEA	..VNEEVPLDLGDELEI	384		
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKKD	...PKKEEA	..VNEEVPLDLGDELEI	384		
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKKD	...PKKEEA	..VNEEVPLDLGDELEI	384		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAE	IDHQVVRVQFGL	LIDGEEAAE	.....SKKDE	...VAQVDS	..VNEEVTLDLGDELEI	380	
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIF	FEIDHQVVRVQFGL	LIDGEEIAE	.....SKKDE	...AAQVDS	..VNEEVTLDLGDELEI	380	
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQLF	FEIDRKRVRVKFGL	LEESEEEES	..AMAVASE	.....E	.....TDDLALDLNGIEI	376
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEEDNTEE	..KQSSKEK	.....ETDEK	..ADKNLVLELDDTIEL	381	
NTDB id 115 BSU 16940 NP 389576.2	ERLGGG	RENAKQFLKENKDIMLMI	IQEQIREHYGL	DNNGVVQQ	..QAEETQEEL	..EFE	..E	348		
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDL	..PTTEDE	..QI	..NILPDDST	355		
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAYTAERP	PEMEQEIRDRV	MAAIRAGNAGE	APALAPAPA	AAPEAA	EA	363		
NTDB id 1245 Cj1673c YP 002345041.1	KKLGQG	RENSKAFLEKENPEIA	DEITKAIQNSMG	TEGMIS	..GSE	....DDEGE	..E	343	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGQG	RENAKALLKEDKAL	ADEITLKI	KESIGSNEEIM	..PLP	....DEPLE	..EME	347	
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGQG	RENAKALLKEDKAL	ADEITLKI	KESIGSNEEIM	..PLP	....DEPLE	..EME	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGQG	RDVTVKELIKDNPEL	AEELEAKIREKLQAK	.....	.....	.....	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLKENPEI	ADKLEQIRNTL	ASNPNV	..LKATASDS	ND	ES	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVVRVWLKENPEI	SDEIDAKIRALNG	VEMHIT	..E	.....GTQDE	..TDGER	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVVRVWLKENPEI	SDEIDAKIRALNG	VEMHIT	..E	.....GTQDE	..TDGER	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVVRVWLKENPEI	SDEIDAKIRALNG	VEMHIT	..E	.....GTQDE	..TDGER	348	
NTDB id 303433 DVA63 RS06665 WP 003812760.1	NRIGQG	KDNVREYLKEHKEM	AIENKVR	ENQIVSRAA	..T	FPASEAEDGE	.....	353	
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCREFLRENAEL	AREIENKVR	REHLGVTPMGA	..V	TLAEEVEED	.....	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENMQ	..LIAETSSA	ADDV	..EFGAV	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENMQ	..LIAETSSA	ADDV	..EFGAV	354		
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACKYLEENPEI	IGQIEEQIRAKLL	VTSANT	..KATPVAED	LADA	DI	347		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEENP	QISTEIEAVIREQLL	TKASDQ	..TAA	HDTEEEP	..DLL	349		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYFEENN	QIAEEIERNIREQLL	TTGTNG	..AVQ	..I	..EDEEP	349		
consensus		***!!**	*****	**	*	***	*****	**	*	*

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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 115 BSU 16940 NP 389576.2	348
NTDB id 625 LCA RS02525 WP 011374196.1	355
NTDB id 1313 DR RS12030 WP 010888966.1	363
NTDB id 1245 Cj1673c YP 002345041.1	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	347
NTDB id 1211 C694 RS00795 WP 000963128.1	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	348
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consensus

 non conserved
 similar
 ≥ 50% conserved