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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYLKEHQDV	FEIDHKVRAAHG	LLDDSEVAE	..TEEETTAS	TKAKAKKEEKAVETEEIELELED	...	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKK	DE...PKKEEA	..VNEEVPLDLGDELEI	384	
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKK	DE...PKKEEA	..VNEEVPLDLGDELEI	384	
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKK	DE...PKKEEA	..VNEEVPLDLGDELEI	384	
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLAEHPEIF	FEIDKQVRSKFG	LIDGEEVSE	..QDTENKK	DE...PKKEEA	..VNEEVPLDLGDELEI	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPEVFAE	IDHQVVRVQFGL	LIDGEEAAE	.....SKK	DE...VAQVDS	..VNEEVTLDLGDELEI	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPEIF	FEIDHQVVRVQFGL	LIDGEEIAE	.....SKK	DE...AAQVDS	..VNEEVTLDLGDELEI	380
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHPQLF	FEIDRKVVRVKFG	LEESESEES	..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	RENAKQFLKENKDIM	LMIQEIQREHYGL	DNNGVVQQ	..QAEETQE	ELEFE.E.....	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPEEDL	..PTTEDE	.QI.NILPDDST	.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIAYTAERP	PEMEQEIRDRV	MAAIRAGNAGE	APALAPAPA	APEAA.EA.....	.....	363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGQG	RENSKAFLEKENPEI	ADEITKAIQNSMG	TEGMIS	..GSE....	DDEGE.E.....	.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGQG	RENAKALLKEDKAL	ADEITLKI	KESIGSN	EEIM..PLP...	DEPLE.EME.....	.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGQG	RENAKALLKEDKAL	ADEITLKI	KESIGSN	EEIM..PLP...	DEPLE.EME.....	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGQG	RDVTVKELIKDNPE	LAELEAKIREKLQ	AK.....	.....	.....	.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVKWLKENPEI	ADKLEQIRNTL	ASNPN	SV..LKATAS	DSNDES	..DVVEEF.....	SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVVRVWLKENPEI	SDEIDAKIRALNG	VEMHIT	..E.....	GTQDE	..TDGER.....	PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVVRVWLKENPEI	SDEIDAKIRALNG	VEMHIT	..E.....	GTQDE	..TDGER.....	PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVVRVWLKENPEI	SDEIDAKIRALNG	VEMHIT	..E.....	GTQDE	..TDGER.....	PEE.....	348
NTDB id 100766 AV745 RS12975 WP 003812760.1	NRIGQG	KDNVREYLKEHKEM	AIEIENKVR	ENQIVSRAA	..T.FP	ASEAEDGE	353
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCREFLRENAEL	AREIENKVR	REHLGVTPMGA	..V.TL	AEEVEED	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENMQ	..LIAETSS	AADDV	..EFGAV.....	PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENMQ	..LIAETSS	AADDV	..EFGAV.....	PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACKYLEENPEI	IGQIEEQIRAKLL	VTSANT	..KATP	VAEDLADA	..DI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIRYLEENP	QISTEIEAVIREQLL	TKASDQ	..TAA	..HDETEEP	..DLL.....	ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIRYFEENN	QIAEEIERNIREQLL	TTGTNG	..AVQ	..I.EDEEP	..DLL.....	LES.....	349
consensus	**!!!*****	** * ***	*****	** *			*		

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		EIEE	
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
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NTDB id 1123	OK783 RS03845 WP 003688695.1	348
NTDB id 100766	AV745 RS12975 WP 003812760.1	353
NTDB id 1427	RS RS02760 WP 011000510.1	....	352
NTDB id 1165	A1552VC RS01565 WP 000344154.1	....	354
NTDB id 1142	GTF74 RS11550 WP 000344154.1	....	354
NTDB id 1205	PSJM300 05545 AFN77183.1	....	347
NTDB id 1022	ACIAD RS06390 WP 004925639.1	....	349
NTDB id 1074	ABD1 RS10195 WP 000344167.1	....	349

consensus

 non conserved
 similar
 ≥ 50% conserved