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NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK...KPKKLEEISKKFGE EREKALNDAL KL IEKDFGKGSIMRLC ER.AEQKVQVM SSGSLALDIALGSGGY PKGRI	74
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK...KPKKLEEISKKFGE EREKALNDAL KL IEKDFGKGSIMRLC ER.AEQKVQVM SSGSLALDIALGSGGY PKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK...KPKKLEEISKKFGE EREKALNDAL KL IEKDFGKGSIMRLC ER.AEQKVQVM SSGSLALDIALGSGGY PKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	.MAK...KPKKLEEISKKFGE EREKALNDAL KL IEKDFGKGSIMRLC ER.AEQKVQVM SSGSLALDIALGSGGY PKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK...KPKKLDEISKKFGE EREKALNDAL KL IEKDFGKGSIMRLC ER.AEQKVQVM SSGSLALDIALGSGGY PKGRI	74
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK...KPKKLDEISKKFGE EREKALNDAL KL IEKDFGKGSIMRLC ER.AEQKVQVM SSGSLALDIALGSGGY PKGRI	74
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK...RIKKTEEITKKFGD ERRKALDDAL KN IEKDFGKGAVMRLC ER.AEQKVQVM SSGSLALDIALGAGGY PKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MAK...KLKKNEEITKKFGD ERRKALDDAL KN IEKDFGKGAVMRLC ER.AEQKVQVM SSGSLALDIALGAGGY PKGRI	74
NTDB id 100208 AACH29 RS01230 WP 003133837.1	MATK...K KKK LEDITKKYGA EREKALKDAL DL IEKDFGKGSIMRLC EA.ASQKVQVT SSGSLALDIALGAGGY PKGRI	75
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK...K KKT NFDDITKKYGA ERD KALADALAL IEKDFGKGSIMRLC EA.ANQKVS VSSGSLALDIALGAGGY PKGRI	75
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAAL KKIEKN FGKGSIM RMG HEK.VDTQVSTV SSGSLALDEALGVGGY PRGRI	61
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMAL KQIEKQ FGKGSIM KL CEK.TDTR STVPS GSLALD TALCIGGY PRGRI	59
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDA ERSKAT ETAM SQIEK AFGKGSIM KL GAE.SKLDVQVV STGSLSLDIALGVGGI PRGRI	73
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN KR SLDAAL KS LDKT FGKCT IL R LCDK.EVEQ IDSIGT GSVGLD TALCIGGV PKGRI	60
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDED KQ KATSLA TKQ TDKV FGKCAL VRLCDK.QVEK ID ST STGSLGLDIALGI GGV PKGRI	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDED KQ KATSLA TKQ TDKV FGKCAL VRLCDK.QVEK ID ST STGSLGLDIALGI GGV PKGRI	62
NTDB id 1334 RA0C RS04870 WP 004918236.1	.....MAKT..ETTSPND DK KKALAAV LEK LD KTY GKCT VM KLCDGTVDHN LEVI PSGSLGLD TALGVGGY PKGRI	69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENK KSS KNNTV..VKQVEPE QKQ ALEAAL AQIEKQ FGKGSIM KL GQT.EQLD IESV ST STGSLGLDIALGI GG LP M GRI	77
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD DK SKALAAAL AQIEK SFGKGA IM KMDGSQ QEEN LEVI STGSLGLDIALGVGGI PR GRI	61
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD DK SKALAAAL AQIEK SFGKGA IM KMDGSQ QEEN LEVI STGSLGLDIALGVGGI PR GRI	61
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD DK SKALAAAL AQIEK SFGKGA IM KMDGSQ QEEN LEVI STGSLGLDIALGVGGI PR GRI	61
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....K..KAASMSA EK QKALAAAL AQIEKQ FGKGSIM KM GD A .EVEP VQVV ST STGSLGLDIALGVGGI PR GRV	69
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN KQ KALAAAL GQIEKQ FGKGSIM RL CDN.RAMD VETI ST STGSLSLDIALGAGGI LP M GRI	60
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN KQ KALAAAL GQIEKQ FGKGSIM RL CDN.RAMD VETI ST STGSLSLDIALGAGGI LP M GRI	60
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN K SKALQAAL SQIEKQ FGK N TV MRL CDN.TVQA VEAV ST STGSLTLDIALGI GG LP K GRI	60
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN K SKALQAAL SQIEKQ FGK N TV MRL CDN.TVQA VEAV ST STGSLTLDIALGI GG LP K GRI	60
NTDB id 1205 PSJM300 05545 AFN77183.1MDEN K ALAAAL GQIEKQ FGK GAV MR MG DH.DRQA PSI ST STGSLGLDIALGI GG LP K GRI	60
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NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIFDEID	KQVRSKFC	IDGEEVSEQDTENKKDEPKK...	E..EAVNE	VPLDLGDELEIEI	386
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIFDEID	KQVRSKFC	IDGEEVSEQDTENKKDEPKK...	E..EAVNE	VPLDLGDELEIEI	386
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIFDEID	KQVRSKFC	IDGEEVSEQDTENKKDEPKK...	E..EAVNE	VPLDLGDELEIEI	386
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLA	EHPEIFDEID	KQVRSKFC	IDGEEVSEQDTENKKDEPKK...	E..EAVNE	VPLDLGDELEIEI	386
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLADNPE	VFAEIDHQV	RQVQFC	IDGEEAAE...SKKDEVAQ...	V..DSVNE	VTLDLGDELEIEI	382
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLADNPE	IFDEIDHQV	RQVQFC	IDGEEIAE...SKKDEAAQ...	V..DSVNE	VTLDLGDELEIEI	382
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLADNPE	IFDDIDHKV	RQVQFC	IEEDNTEEKQSSSEK...ET...D..EKADKNLVLELDDTIELED			383
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLADHP	QLFDEIDRKY	RQVQFC	LEESEEEESAMAVASE...E.....TD	LALDLN	NGIEIEI	378
NTDB id 100208 AACH29 RS01230 WP 003133837.1	EKIGQGA	EAKAFLKDNPE	IFNEIDRKY	RQNHCI	IEGDEADEKEDVKP.AKADEKAKVE..AAGVE	IELELE		383
NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EAKKNYLKEHQD	VFDEIDHKV	RAAHC	LDDSEVAETEEETTASHTKAKAKKEEKAVETE	IELELED		387
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQGR	ENAKNYLADHED	VEDEVRLK	VRAAYCI	SDVPEEDLPTEDE.Q.....INILPDDSTEE..			355
NTDB id 115 BSU 16940 NP 389576.2	ERIGQGR	ENAKQFLKENKD	IIMLMIQEQI	REHYCI	DNNGVVQQQAEETQEE.....LEFE.E.....			348
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQGKE	KTIAYIAERP	EMEQEIRDRV	MAATRAGNAGEAPALAPAPAAPEAAEA				363
NTDB id 1245 Cj1673c YP 002345041.1	KKIGQGR	ENSKAFLKENPE	IADEITKAT	IQNSMCI	EGMI...SGSEDD..EGEE.....			343
NTDB id 1211 C694 RS00795 WP 000963128.1	KKIGQGR	ENAKALLKED	KALADEITLKI	KESICS	SNEEI...MPLPDE..PLEEM.....E.....			347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKIGQGR	ENAKALLKED	KALADEITLKI	KESICS	SNEEI...MPLPDE..PLEEM.....E.....			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKIGQGR	DTVKELTKDNPE	IAEELAKI	REKLQAK				343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQGK	NNAVVKLKENPE	IADKLEQEI	RNTLASNPNS	...VLKATASDSNDES.....DVEEFSEEL...			372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQGD	NVRVWLKENPE	ISDEIDAKI	RALNCVEMHI	...TEGTQDETDGER.....PEE.....			348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQGD	NVRVWLKENPE	ISDEIDAKI	RALNCVEMHI	...TEGTQDETDGER.....PEE.....			348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQGD	NVRVWLKENPE	ISDEIDAKI	RALNCVEMHI	...TEGTQDETDGER.....PEE.....			348
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQGR	DNCREFLREN	AELAREIENK	VREHLGVTPMG	...AVTLA.EEVEED.....			352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQGK	ANACKYLLKENPE	IAKTLDKK	IREMLLNPNEM	...QLIAETSSAADDV.....EFGAVPEEF.....			354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQGK	ANACKYLLKENPE	IAKTLDKK	IREMLLNPNEM	...QLIAETSSAADDV.....EFGAVPEEF.....			354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQCK	NNVIRYLEENP	CISTEIEAVI	IREQLLTKASD	...QTAA.HDETEEEP.....DLL..ES.....			349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQCK	NNVIRYFEENP	CIAEIERNI	IREQLLTGTN	...GAVQ.I.EDEEEP.....DLL..LES.....			349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQGK	ANAAYLLEENPE	IGQIEIQI	IRAKLLVTSAN	...TKATPVAEDLADA.....DI.....			347
consensus	***!!!	*****	* * *	*****	*****	* * *	*	

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NTDB id 269 KZH43 RS08665 WP 001085462.1	EE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EE	388
NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 408 SMU RS09530 WP 002262392.1	..	383
NTDB id 453 Spy49 1753c ACI62003.1	..	378
NTDB id 100208 AACH29 RS01230 WP 003133837.1	..	383
NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 625 LCA RS02525 WP 011374196.1	..	355
NTDB id 115 BSU 16940 NP 389576.2	..	348
NTDB id 1313 DR RS12030 WP 010888966.1	..	363
NTDB id 1245 Cj1673c YP 002345041.1	..	343
NTDB id 1211 C694 RS00795 WP 000963128.1	..	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	..	347
NTDB id 1334 RA0C RS04870 WP 004918236.1	..	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	..	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	..	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	..	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	..	348
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 1022 ACIAD RS06390 WP 004925639.1	..	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	..	349
NTDB id 1205 PSJM300 05545 AFN77183.1	..	347

consensus

 non conserved
 similar
 ≥ 50% conserved