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NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA	EKAKNYL	KEHQDV	FDEID	HKVRAAH	GLDDSEVAETEEE	.TTASKTKAKAKKEEKAVETEEIELELED	. . . . .	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKYL	AHPEIF	DFEID	DKQVRSKF	GLIDGEEVSEQDTE	.NKKDE	. . . . .PKKEEA	.VNEEVPLDLGDELEIEI	386
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGS	ENAKKYL	AHPEIF	DFEID	DKQVRSKF	GLIDGEEVSEQDTE	.NKKDE	. . . . .PKKEEA	.VNEEVPLDLGDELEIEI	386
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGS	ENAKKYL	AHPEIF	DFEID	DKQVRSKF	GLIDGEEVSEQDTE	.NKKDE	. . . . .PKKEEA	.VNEEVPLDLGDELEIEI	386
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGS	ENAKKYL	AHPEIF	DFEID	DKQVRSKF	GLIDGEEVSEQDTE	.NKKDE	. . . . .PKKEEA	.VNEEVPLDLGDELEIEI	386
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS	ENAKKYL	ADNPEIF	DFEID	HQVVRVQF	GLIDGEEIAES	. . . . .KKDE	. . . . .AAQVDS	.VNEEVTLDLGDELEIEI	382
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGS	ENAKKYL	ADNPEV	FAEID	HQVVRVQF	GLIDGEEAAES	. . . . .KKDE	. . . . .VAQVDS	.VNEEVTLDLGDELEIEI	382
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS	ENAKRYL	ADHPQL	FDIED	RKVRVKF	GLLEESEEEESAMAV	.ASE	. . . . .E	. . . . .TDDLALDLNNGIEIED	378
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS	ENAKKFL	ADNPEIF	DFDID	HKVVRVQF	GLIEEDNTEEKQSS	.KEK	. . . . .ETDEK	.ADKNLVLELDDTIELED	383
NTDB id 115 BSU 16940 NP 389576.2	RIGQG	RENAKQFL	KENKDI	MLMIQE	QIREHY	GLDNNGVVQQQAE	.TQEL	.EFE	.E	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQG	RENAKNYL	ADHEDVE	DEVRL	KVRAAY	GLSDVPEEDLPTTE	.DE	.QI	.NILPDDST	355
NTDB id 1313 DR RS12030 WP 010888966.1	RIGQCK	EKTIAI	YIAERP	MEQE	IRDRV	MAAIRAGNAGEAPALAPAPAAP	.AAEA	. . . . .	. . . . .	363
NTDB id 1245 Cj1673c YP 002345041.1	KIGQG	RENSKAF	LKENPEI	AD	EITKAT	QNSMGI	EGMISG	. . . . .SEDDEG	. . . . .EE	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KIGQG	RENAKALL	KEDKAL	ADEIT	LKIKESI	CSNEEIMP	. . . . .LPDEPL	. . . . .EEME	. . . . .	347
NTDB id 1211 C694 RS00795 WP 000963128.1	KIGQG	RENAKALL	KEDKAL	ADEIT	LKIKESI	CSNEEIMP	. . . . .LPDEPL	. . . . .EEME	. . . . .	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	KIGQGR	DVTVMEL	IKDNPEI	AEELE	AKIRE	EKLQAK	. . . . .	. . . . .	. . . . .	343
NTDB id 214621 FORC53 RS28835 WP 118895397.1	QIGQC	REKACAE	LERLGI	LELYTK	.IMEI	HKS	. . . . .S	. . . . .VTEDSANA	.E	350
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQK	KANACKYL	LKENPEI	AKTLD	KKLRE	MLLNPENMQL	.IAETSSAAD	. . . . .VEFGA	. . . . .VPEEF	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQK	KANACKYL	LKENPEI	AKTLD	KKLRE	MLLNPENMQL	.IAETSSAAD	. . . . .VEFGA	. . . . .VPEEF	354
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQCK	NNAVKWL	LKENPEI	ADKLE	QETR	NTLASNPNSVL	.KATASDSN	. . . . .SDVEE	. . . . .FSEEL	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQK	DNVRVWL	LKENPEI	SDEID	AKTRAL	NCVEMHITE	. . . . .GTQDET	. . . . .DGERPEE	. . . . .	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQK	DNVRVWL	LKENPEI	SDEID	AKTRAL	NCVEMHITE	. . . . .GTQDET	. . . . .DGERPEE	. . . . .	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQK	DNVRVWL	LKENPEI	SDEID	AKTRAL	NCVEMHITE	. . . . .GTQDET	. . . . .DGERPEE	. . . . .	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGR	DNCREFL	RENABEL	AREI	ENKVR	EHLCTPMGAV	. . . . .TL	. . . . .AEEVEE	. . . . .	352
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQCK	NNVIRY	LEENPCI	STEI	EAVI	REQLLTKASDQT	.AA	.HDETE	. . . . .EEDLLE	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQCK	NNVIRY	FEENPCI	AEEI	ERNI	REQLLTTGTNGA	.VQ	.I	.EDEE	349
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQK	KANAACKYL	LEENPEI	GQEI	EQQIR	AKLLVTSANTK	. . . . .ATPVAEDL	. . . . .ADADI	. . . . .	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 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 453 Spy49 1753c ACI62003.1	..	378
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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 214621 F0RC53 RS28835 WP 118895397.1	..	350
NTDB id 1165 A1552VC RS01565 WP 000344154.1	..	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	..	354
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 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