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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRGSGTSTKIEEGS.GDNKTKI	312
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFK	311
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFK	311
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFK	311
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFK	311
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFK	311
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFK	311
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFK	311
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRGTTQIKGTG.DQKSSIGKETKIKVVKNKVAPPFK	311
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVRRAEQLKQGN....DVMGNKTKIKVVKNKVAPPFR	292
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVRRAETIKNGT....DMIGNRARIKVVKNKVAPPFK	294
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRKIG....QPTKVGNDAVANTVKIKTVKNKVA	307
NTDB id 1245	Cj1673c	YP 002345041.1	SVRLDVRKVA....TL.KQNEEPIGNRVKIKVVKNKVAPPFR	294	
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIRRIA....AL.KQNEQHIGNRAKAKVVKNKVAPPFR	296
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIRRIA....SL.KQNEQHIGNRAKAKVVKNKVAPPFR	296
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIRRSLSDTGKIKDKSGEVIENRTKIKVVKNKVAPPFK	307
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIRRCG....VV.KDGEIIGSETKIKVVKNKVAPPFR	310
NTDB id 356326	Psa1010b	RS09255	WP 017376458.1	SVRLDIRRTG....AI.KKGEDVLCNQTRVKKVVKNKVAPPFK	294
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIRRTG....SI.KKGEVLCNETRVKVIKKNVAPPFR	294
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIRRTG....SI.KKGEVLCNETRVKVIKKNVAPPFR	294
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIRRTG....SI.KKGEVLCNETRVKVIKKNVAPPFR	294
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIRRIG....SI.KKGEVVCNETKIKVVKNKVAPPFR	302
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIRRTG....AI.KEGEEVVCNETRIKVVKNKIA	293
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIRRTG....AI.KEGEEVVCNETRIKVVKNKIA	293
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIRRTG....AV.KEGEEVVCSETRVKVVKNKVAPPFR	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIRRIG....QV.KEGDEIIGSETKIKVVKNKMAPPFR	293
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIRRIG....QV.KEGDEIIGSETKIKVVKNKMAPPFK	293
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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQQA AKAK NYLKEHQDV FDEID HKV RAAHG ILDDSEVAETEEETTA.SKTKAKAKKEEKAVETEEIELELED...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS ENAKK YLA EHPEIF DEIDKQ VR SK FGL IDGEEVSEQDTENKK. DE ...PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS ENAKK YLA EHPEIF DEIDKQ VR SK FGL IDGEEVSEQDTENKK. DE ...PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS ENAKK YLA EHPEIF DEIDKQ VR SK FGL IDGEEVSEQDTENKK. DE ...PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS ENAKK YLA EHPEIF DEIDKQ VR SK FGL IDGEEVSEQDTENKK. DE ...PKKEEA..VNEEVPLDLGDELEI	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS ENAKK YLA DNPEV FA EID HQ VR VQ FGL IDGEEAAE...SKK. DE ...VAQVDS..VNEEVTLDLGDELEI	380
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS ENAKK YLA DNPEIF DEIDH QVR VQ FGL IDGEEIAE...SKK. DE ...AAQVDS..VNEEVTLDLGDELEI	380
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS ENAKK FLAD NPEIF DDI DHKV RVQ YGL IEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIEL	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS ENAKR YLAD HPQIF DEID RKVR V KFGL LEESEESAMAVASE.....E.....TDDLALDLNGIEI	376
NTDB id 115 BSU 16940 NP 389576.2	EERL GQGR ENAK QFL KEN KD I MLMI Q EQI RE HYGL DNNGVVQQQAEETQE. EL .EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR ENAK NYLAD HEDVE DE VRLK V RAAYG ISDVPEEDLPTTEDE..QI.NILPDDST....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQCK EKT IAY I A ERF ME QEIR DRV MAA IRAGNAGEAPALAPAPAAP E AAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKK L GQGR EN SK AF LKEN PEI AD EIT KA TQ NS MT EGMISGSE..DDEG.. EE	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKK L GQGR ENAK ALL KED KALAD EIT LK IK ES IG SNEEIMPLP..DEPL.. EE ME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKK L GQGR ENAK ALL KED KALAD EIT LK IK ES IG SNEEIMPLP..DEPL.. EE ME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTK L GQGRD TV KEL IK DN PEL A EEL EAK IRE KLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQCK NN AV KWL KEN PEI AD KLE QE IR N TLA SNPNSVLKA..TASDSN DE SDVEEF.....SEEEL.....	372
NTDB id 356326 Psa1010b RS09255 WP 017376458.1	ETRIGQCK EN VR QFL LD HP EM AEI E AGV RA QK LD LETT SAAK..EQN...AEHAAG.....	346
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQCK DN VR VWL KEN PEI S DEI DA KI RAL NGV EMHIT EGTQ DET DGER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQCK DN VR VWL KEN PEI S DEI DA KI RAL NGV EMHIT EGTQ DET DGER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQCK DN VR VWL KEN PEI S DEI DA KI RAL NGV EMHIT EGTQ DET DGER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR DN C REF L REN A EL A REI EN KV RE HL CV TP MGAV.T..LAE VEE D.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQCK AN ACK YL KEN PEI AK TL DK KL RE MLLN PEN MQ LIA..ETSSA AD VEFGAV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQCK AN ACK YL KEN PEI AK TL DK KL RE MLLN PEN MQ LIA..ETSSA AD VEFGAV.....PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQCK AN AK YLE EN PEI G EQI EQ IR AK LL V TS ANT KAT ..PVAEDLAD ADI	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQCK NN VIR YLE EN PQI ST EI E AVI RE QLL TKASD QTAA ...HDE TEE PDLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQCK NN VIR YF EEN QI A EI E ERNI RE QLL TTGT NGAV Q...I.EDE EE PDLL.....LES.....	349
consensus	***!!!** ** * * ** * ** * ** * ** * ** * ** *	

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NTDB id 269 KZH43 RS08665 WP 001085462.1	E.IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	E.IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	E.IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	E.IEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E.IEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	E.IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
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
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NTDB id 1211 C694 RS00795 WP 000963128.1	347
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NTDB id 356326 Psa1010b RS09255 WP 017376458.1	346
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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