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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGK	EKTIA	YIA	ERP	EMEQE	IRDRV	MAAIR	RAGNAGE	APALAP	PAPAA	.....	PEAAEA	.....	363				
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA	EAKAK	NKYLK	EHQ	DVDF	DEIDH	KVRAA	HGL	LLDD	SEVAE	TEEEETT	ASKTK	KAKAK	KEEKAV	ETEEIE	LELED	.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEIF	DFEID	KQVRS	KFG	LIDG	EEV	SEQD	TENKK	DE....	PKKEEA	..VNEE	VPLDL	GDELE	IEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEIF	DFEID	KQVRS	KFG	LIDG	EEV	SEQD	TENKK	DE....	PKKEEA	..VNEE	VPLDL	GDELE	IEIE	387
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEIF	DFEID	KQVRS	KFG	LIDG	EEV	SEQD	TENKK	DE....	PKKEEA	..VNEE	VPLDL	GDELE	IEIE	387
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEIF	DFEID	KQVRS	KFG	LIDG	EEV	SEQD	TENKK	DE....	PKKEEA	..VNEE	VPLDL	GDELE	IEIE	387
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS	ENAKKY	LADN	PEIF	DFEID	HQVR	VQF	GLIDG	EEIA	ES....	KKDE	....	AAQVDS	..VNEE	VTLDL	GDELE	IEIE	383
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGS	ENAKKY	LADN	PEV	FAEID	HQVR	VQF	GLIDG	EEAA	ES....	KKDE	....	VAQVDS	..VNEE	VTLDL	GDELE	IEIE	383
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS	ENAKK	FLADN	PEIF	DDID	HKVR	VQY	GLIEE	DNTE	EKQSS	KEK....	ETDEK	..ADK	NLVLE	LDDT	IELED	.....	383
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS	ENAKR	YLADH	PQL	DFEID	RKVR	VKF	GLLEE	SEEE	SAMAV	ASE....	E.....	TDDL	LALDL	NGIE	IED.	.....	378
NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQ	FLKEN	KDIM	LMIQ	EQIRE	HVGL	LDN	NGV	VVQQ	AEETQ	EEEL	.EFE	.E.....	.....	.....	.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGR	ENAKN	YLADH	EDVE	DEV	RLKV	RAAY	GISD	VPEE	DLPT	TEDE	.QI	.NIL	PDD	ST....	EE.....	.....	355
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGR	ENSKA	FLKEN	PEI	ADEI	TKA	IQNS	MGIE	GMIS	GSE	DEDE	GEE.....	.....	.....	.....	.....	.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	KLGGGR	ENAKA	KALLK	EDK	ALADE	ITL	KIK	ESIG	SNEE	IIMPL	PDEP	LEEME	.....	.....	.....	.....	.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGGR	ENAKA	KALLK	EDK	ALADE	ITL	KIK	ESIG	SNEE	IIMPL	PDEP	LEEME	.....	.....	.....	.....	.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGR	DTV	KELIK	DNPE	LAE	LEAK	IRE	KLQ	AK.....	.....	.....	.....	.....	.....	.....	.....	.....	343
NTDB id 39260 INTCA RS11005 WP 013492994.1	QLGGQK	ENARN	FRLR	DNPL	ADEI	EKK	VKE	KLGV	GPRV	DKQ	ADAAD	.....	V.....	PVE	F.....	.....	.....	347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGN	NAV	KWLKEN	PEI	ADK	LEQ	EIR	NTL	ASN	PNS	VLKAT	ASDS	NDES	.DVE	E.....	SEE	L.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGD	NVRV	WLKEN	PEIS	DEI	DAK	IRAL	NGV	EMH	ITEGT	.....	QDE	.TD	GER.....	PEE	.....	.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGD	NVRV	WLKEN	PEIS	DEI	DAK	IRAL	NGV	EMH	ITEGT	.....	QDE	.TD	GER.....	PEE	.....	.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGD	NVRV	WLKEN	PEIS	DEI	DAK	IRAL	NGV	EMH	ITEGT	.....	QDE	.TD	GER.....	PEE	.....	.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGR	DNCR	EFLR	ENA	EIARE	IEN	KVRE	HGLV	TPM	GAV	.TLA	EEVE	ED.....	.....	.....	.....	.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGN	ANACK	YLKEN	PEI	AKT	LDK	KLRE	MLL	NPEN	MQLIA	ETSS	AADD	V	.EFG	AV.....	PEE	F.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGN	ANACK	YLKEN	PEI	AKT	LDK	KLRE	MLL	NPEN	MQLIA	ETSS	AADD	V	.EFG	AV.....	PEE	F.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGN	ANA	AKYLE	ENPE	IGQ	EIE	QQI	RAK	LLV	TSA	NKAT	PVA	EDL	ADA	.DI.....	.....	.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGN	NVIR	YLEEN	PQI	STE	IEA	VIRE	QLL	TKAS	DQTA	A.HD	ETEE	EP	.DLL	.....	ES.....	.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGN	NVIR	YFEN	NQIA	EIE	ERN	IRE	QLL	TGT	NGAV	Q.I	.EDEE	EP	.DLL	.....	LES.....	.....	349
consensus	**!!!	*****	**	*****	*****	**	**	**	**	**	*							

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NTDB id 269 KZH43 RS08665 WP 001085462.1	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 453 Spy49 1753c ACI62003.1	.	378
NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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 RAOC RS04870 WP 004918236.1	.	343
NTDB id 39260 INTCA RS11005 WP 013492994.1	.	347
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 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