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NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ...PTKVGNDAVANTVKTITVKNKVAAPFKEVELALIVYGKGFQDLSDLVGLAA...DMDI IKKAGSF	303
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT...L.KQNEEPIGNRVKVVVKNKVAPPFRQAEDVDFGEGLSREGELIDYGV...KLDIVDKSGAW	290
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA...L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEDVDFGEGISKEGEIIDYGV...KLDIVDKSGAW	292
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEDVDFGEGISKEGEIIDYGV...KLDIVDKSGAW	292
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDDTGKIKDKSGEVIGNRTKVVVKNKVAPPFKSAEFDIMYGGVSKVGEILDVAT...DLDI IQKSGSW	303
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KGDDEIIGSETKVVVKNKVAPPFRVQFDIMYGGISRMNELLILAE...ANGFIKKSAGAW	306
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEVVLGNETRKKVKNKVAPPFRQAEDVDFGEGISWEGELIDIGV...KNDIINKSGAW	290
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEVVLGNETRKKVKNKVAPPFRQAEDVDFGEGISWEGELIDIGV...KNDIINKSGAW	290
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKGEVVLGNETRKKVKNKVAPPFRQAEDVDFGEGISWEGELIDIGV...KNDIINKSGAW	290
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS...I.KKGEDEVVGNETKVVVKNKVAPPFRQAEDVDFGEGISWEGELIDIGV...EAKVVEKSGAW	298
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGV...KHKMVEKSGAW	289
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGFNREGELIDLGV...KHKMVEKSGAW	289
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA...V.KEGDEVVGSSETRVKNVKNKVAPPFRQAEDVDFGEGISWEGELIDIGV...QQGLVEKSGAW	289
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEGDEIIGSETKVVVKNKMAPPFKEAIFQIILYGGVNLGELVDLAV...QQNIVQKAGAW	289
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEGDEIIGSETKVVVKNKMAPPFKEAIFQIILYGGVNLGELVDLAV...QQNIVQKAGAW	289
NTDB id 35231 LC705 RS12515 WP 005688163.1	SVRIEVRKGGQVVDGK...NVVGFASKLKVTKNKVAPPFKTVETTMSFGHGIEHNTDMLNLATDKDNDLDVITKSGSW	307
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAV...EEGI IKKSGAW	308
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKEAVVEIMYGGISKTGELLKIAS...DLDI IKKAGAW	307
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKEAVVEIMYGGISKTGELLKIAS...DLDI IKKAGAW	307
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKEAVVEIMYGGISKTGELLKIAS...DLDI IKKAGAW	307
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNKGKETKIKVVKNKVAPPFKEAVVEIMYGGISKTGELLKIAS...DLDI IKKAGAW	307
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGNTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKEAFVEIMYGGISKTGELLKIAS...DLDI IKKAGAW	307
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGNTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKEAFVEIMYGGISKTGELLKIAS...DLDI IKKAGAW	307
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSIGKETKIKVVKNKVAPPFKVAEVEIMYGGISRTGELVKIAS...DLDI IQKAGAW	307
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIYGGISRTGELVKIAS...DLGI IQKAGAW	307
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT...DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDMAV...EKDI INKSGSW	290
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN...DVMGNKTKIKVVKNKVAPPFRTAEDVIMYGGISKEGEIIDLGT...ELDIVQKSGSW	288
consensus	*!!***!* * ** *****!!*!!*!!*!!* * *****!!*** ***** ** *** ! !**	

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NTDB id 1313 DR RS12030 WP 010888966.1	YSYGDERIGQGK EKTIA YTAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	FSYKDKKLGQGRENSK AFLKENPEI ADEITKAIQNSMGI EGM I.....SGSEDD..GEE.....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LSYQDKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEEI.....MPLPDEP..LEEME.....	347
NTDB id 1211 C694 RS00795 WP 000963128.1	LSYQDKKLGQGRENAK ALLKEDKALADEITLKI KESIGSNEEI.....MPLPDEP..LEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	FSYQDTKLGQGRD TVKELIKDNP ELAEELEAKI REKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	FSYDGTKIGQGGKNN AVKWLKENPEI ADKLEQEIRNTL ASNPN S.....VLKATASDSNDES DVEEF..SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGGKDNVR VVWLKENPEI SDEIDAKIRALNGVEMHI.....TEGT.....QDET DGER..PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	YSYNGAKIGQGGKDNVR VVWLKENPEI SDEIDAKIRALNGVEMHI.....TEGT.....QDET DGER..PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	YSYNGAKIGQGGKDNVR VVWLKENPEI SDEIDAKIRALNGVEMHI.....TEGT.....QDET DGER..PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	YSYNGERIGQGRDN CREFLRENAELAREI ENKVR EHLGVTPMG.....AV.TLAE EVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	YSYNGDKIGQGGKAN ACKYLKENPEI AKTLDKKLREMLLN PENM.....QLIAETSSAADD VVEFGAV..PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	YSYNGDKIGQGGKAN ACKYLKENPEI AKTLDKKLREMLLN PENM.....QLIAETSSAADD VVEFGAV..PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	YAYKGSKIGQGGKANA AKYLEENPEI GQEIEQQI RAKLLVTSAN.....TKATPVAEDLADADI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	YSYQGNKIGQGGKNN VIRYLEENPQISTEIEAVI REQLLTKASD.....QTAA.HDETEEE PDLL...ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	YSYQGNKIGQGGKNN VIRYLEENPQISTEIEAVI REQLLTKASD.....QTAA.HDETEEE PDLL...ES.....	349
NTDB id 35231 LC705 RS12515 WP 005688163.1	YNYGKERLGGQLV NASHYLDEHP EVSKEIEAKI REQSAPKPK EDEKDKDTAKDEKT.TADKK PEEKPTT.DKKPDDKKDD	385
NTDB id 600 KW2 RS01765 WP 011675413.1	FAYNDEKIGQGA EKAKNYLKEHQDV FDEIDHKVRAAHGL LDDSEVAETE EETTASKT KAKAKKEEKAVETEEIELEL.ED	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	YSYKDEKIGQGS ENAKKYLAEHP EIFDEIDKQVRSKFGL IDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDL.GD	380
NTDB id 228 SPD RS09265 WP 001085462.1	YSYKDEKIGQGS ENAKKYLAEHP EIFDEIDKQVRSKFGL IDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDL.GD	380
NTDB id 194 SPR RS08825 WP 001085462.1	YSYKDEKIGQGS ENAKKYLAEHP EIFDEIDKQVRSKFGL IDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDL.GD	380
NTDB id 159 SP RS09750 WP 001085462.1	YSYKDEKIGQGS ENAKKYLAEHP EIFDEIDKQVRSKFGL IDGEEVSEQD TENKKDE....PKKEEA..VNEEVPLDL.GD	380
NTDB id 527 SMSK321 RS11065 WP 001085454.1	YSYKDEKIGQGS ENAKKYLADNPEVFAEIDHQV RVVQFGLIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDL.GD	376
NTDB id 499 SM12261 RS08315 WP 078228268.1	YSYKDEKIGQGS ENAKKYLADNPEI FDEIDHQV RVVQFGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDL.GD	376
NTDB id 453 Spy49 1753c ACI62003.1	FSYNGEKIGQGS ENAKRYLADHPQLFDEIDRKV RVKFGLEESEEEESAMAVASE.....E.....TDDLALDL.DN	372
NTDB id 408 SMU RS09530 WP 002262392.1	YSYNGEKIGQGS ENAKKFLADNPEI FDDIDHKV RVVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLEL.DD	377
NTDB id 625 LCA RS02525 WP 011374196.1	YSYGSERIGQGRENAK NYLADHEDVEDEVRLK VRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 115 BSU 16940 NP 389576.2	YSYEEEERLGQGRENAK QFLKENKDIMLMIQEQ IREHYGLDNNGVVQQQA EETQEEL.EFE.E.....	348
consensus	**!* **!!!***** ** * *** ***** ** **	

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NTDB id	Accession	Sequence	Score
1313	DR RS12030 WP 010888966.1	363
1245	Cj1673c YP 002345041.1	343
1214	NCTC11637 00359 SQJ03206.1	.....	347
1211	C694 RS00795 WP 000963128.1	.....	347
1334	RAOC RS04870 WP 004918236.1	.....	343
1389	A4U84 RS07560 WP 021112712.1	.....	372
1130	NGFG RS03960 WP 003688695.1	.....	348
1124	NGFG RS03960 WP 003688695.1	.....	348
1123	OK783 RS03845 WP 003688695.1	.....	348
1427	RS RS02760 WP 011000510.1	.....	352
1165	A1552VC RS01565 WP 000344154.1	.....	354
1142	GTF74 RS11550 WP 000344154.1	.....	354
1205	PSJM300 05545 AFN77183.1	.....	347
1022	ACIAD RS06390 WP 004925639.1	.....	349
1074	ABD1 RS10195 WP 000344167.1	.....	349
35231	LC705 RS12515 WP 005688163.1	PSSFGVDRLV	395
600	KW2 RS01765 WP 011675413.1	.....	387
269	KZH43 RS08665 WP 001085462.1	ELEIEIEE..	388
228	SPD RS09265 WP 001085462.1	ELEIEIEE..	388
194	SPR RS08825 WP 001085462.1	ELEIEIEE..	388
159	SP RS09750 WP 001085462.1	ELEIEIEE..	388
527	SMSK321 RS11065 WP 001085454.1	ELEIEIEE..	384
499	SM12261 RS08315 WP 078228268.1	ELEIEIEE..	384
453	Spy49 1753c ACI62003.1	GIEIED....	378
408	SMU RS09530 WP 002262392.1	TIELED....	383
625	LCA RS02525 WP 011374196.1	.....	355
115	BSU 16940 NP 389576.2	.....	348

consensus

X non conserved
X similar
X ≥ 50% conserved