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NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ...PTKVGNDAVANTVKTITVKNKVAAPFKEVELALIVYGKGFQDLSDLVGLAADMDI IKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT...L.KQN EEP IGNRVKVVVKNKVAPPFRQA EFDVDFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS...L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEI IDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA...L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEI IDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDDTGKIKDKSGEVIGNRTKVVVKNKVAPPFKSAEFDIMYGGVSKVGEILDVATDLDI IQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV...V.KDGEIIGSETKVVVKNKVAPPFRVQFDIMYGGISRMNELLILAEANGFIKKS GAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEV LIGNETRVKVIKNKVAPPFRQA EFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS...I.KKGEV LIGNETRVKVIKNKVAPPFRQA EFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS...I.KKGEV LIGNETRVKVIKNKVAPPFRQA EFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS...I.KKGEV VGNETKVVVKNKVAPPFR EAIFDILYGGAGVSREGEITDLGVEAKVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA...I.KEGEEV VGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA...I.KEGEEV VGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA...V.KEGDEV VGS ETRV KVVKNKVAPPFRQA EFDI ILYGKGIYRNGEITDLGVQQGLVEKSGAWYAYK	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ...V.KEGDEI IGSETKVVVKNKMAPPFR EAIFQI ILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ...V.KEGDEI VGS ETKV VVKNKMAPPFR EAIFQI ILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 49088 SPITH RS05745 WP 014624747.1	TIRLDVRRITETISEGA.D...NAVGT KVRVRVVKNKVAPPFKKVELEMEFGKGVSSIASLLDA AVEHGLIQKSGSWYSIG	304
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQ IGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNTAVEEGI IKKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN V GKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN V GKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN V GKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN V GKETKIKVVKNKVAPPFKEAVVEIMYGGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGNTQIKGTG.DQKDTN V GKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGNTQIKGTG.DQKDTN V GKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS I GKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKI ASDLDI IQKAGAWFSYN	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN I GKETKIKVVKNKVAPPFKEAFVEI IYGGEGISRTGELVKI ASDLGI IQKAGAWYSYN	311
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN...DVMGNKTKIKVVKNKVAPPFR TAEVDIMYGGEGISKEGEITDLGTEL DIVQKSGSWYSYE	292
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT...DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGEGISRTGELVDMAVEKDI INKSGSWYSYG	294
consensus	**!***!* * ** *****!!!!!!!* * *****!*** ***** ** *** ! !*****	

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NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKKTIA <sup>Y</sup> IAERP <sup>E</sup> MEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGGREN <sup>S</sup> SKAFLKENPEIADEITKAIQNSMGI <sup>E</sup> EGMI.....SGSEDDE..GEE.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGGREN <sup>S</sup> AKALLKEDKALADEITLKI <sup>E</sup> KESIGSNEEI.....MPLPDEP..LEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGGREN <sup>S</sup> AKALLKEDKALADEITLKI <sup>E</sup> KESIGSNEEI.....MPLPDEP..LEEME.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRD <sup>T</sup> TVKELIK <sup>D</sup> NP <sup>E</sup> LA <sup>E</sup> ELEAK <sup>I</sup> IREKLQAK.....	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNN <sup>V</sup> AVKWLKENPEIADKLEQEIRNTLASNPNS.....VLKATASDSNDES <sup>V</sup> VEEF..SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDN <sup>V</sup> RVWLKENPEISDEIDAKIRALNGVEMHI.....TEGT.....QDET <sup>D</sup> DGER..PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDN <sup>V</sup> RVWLKENPEISDEIDAKIRALNGVEMHI.....TEGT.....QDET <sup>D</sup> DGER..PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDN <sup>V</sup> RVWLKENPEISDEIDAKIRALNGVEMHI.....TEGT.....QDET <sup>D</sup> DGER..PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDN <sup>C</sup> REFLRENAELAREIENK <sup>V</sup> REHLGVTPMG.....AV.TLAAEEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKAN <sup>A</sup> CKYLKENPEIAKTL <sup>D</sup> KKLREMLLN <sup>P</sup> ENM.....QLIAETSSAADDVEFGAV..PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKAN <sup>A</sup> CKYLKENPEIAKTL <sup>D</sup> KKLREMLLN <sup>P</sup> ENM.....QLIAETSSAADDVEFGAV..PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANA <sup>A</sup> KYLEENPEIGQEIE <sup>Q</sup> QIRAKLL <sup>V</sup> TSAN.....TKATPVAEDLADADI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNN <sup>V</sup> IRYLEENPQISTEIEAVIREQLLTKASD.....QTAA.HDETEEEP <sup>D</sup> LL...ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNN <sup>V</sup> IRYFEENNQIAEIEIERNIREQLLTTGTN.....GAVQ.I.EDEEEP <sup>D</sup> LL...LES.....	349
NTDB id 49088 SPITH RS05745 WP 014624747.1	DERIGQGRETI <sup>K</sup> QYLVEHP <sup>E</sup> EASRIEELR <sup>K</sup> KLFP <sup>H</sup> LYTNK <sup>T</sup> PLPEEGK <sup>D</sup> GVQ <sup>K</sup> KN <sup>G</sup> NG <sup>Q</sup> KK <sup>P</sup> KS <sup>Q</sup> EEILF.....	375
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA <sup>E</sup> KAK <sup>N</sup> YLKEHQ <sup>D</sup> VFDEIDHKVRAAHGLIDDSEVAETE <sup>E</sup> ETTAS <sup>K</sup> TKAKAK <sup>K</sup> EEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS <sup>E</sup> NA <sup>K</sup> KYLA <sup>E</sup> HP <sup>E</sup> IFDEIDKQVRSK <sup>F</sup> GLIDGEEVSEQ <sup>D</sup> TENK <sup>K</sup> DE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS <sup>E</sup> NA <sup>K</sup> KYLA <sup>E</sup> HP <sup>E</sup> IFDEIDKQVRSK <sup>F</sup> GLIDGEEVSEQ <sup>D</sup> TENK <sup>K</sup> DE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS <sup>E</sup> NA <sup>K</sup> KYLA <sup>E</sup> HP <sup>E</sup> IFDEIDKQVRSK <sup>F</sup> GLIDGEEVSEQ <sup>D</sup> TENK <sup>K</sup> DE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS <sup>E</sup> NA <sup>K</sup> KYLA <sup>E</sup> HP <sup>E</sup> IFDEIDKQVRSK <sup>F</sup> GLIDGEEVSEQ <sup>D</sup> TENK <sup>K</sup> DE....PKKEEA..VNEEVPLDLGDELEIE	385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS <sup>E</sup> NA <sup>K</sup> KYLADNPEVFAEIDHQV <sup>R</sup> VQFGLIDGEEAAE...SKKDE...VAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS <sup>E</sup> NA <sup>K</sup> KYLADNPEIFDEIDHQV <sup>R</sup> VQFGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIE	381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS <sup>E</sup> NA <sup>K</sup> RYLADHPQLFDEIDR <sup>K</sup> V <sup>R</sup> VK <sup>F</sup> GLLEESE <sup>E</sup> ESAMAVASE.....E.....TDDLALDLN <sup>G</sup> IEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS <sup>E</sup> NA <sup>K</sup> FLADNPEIFDDIDHKV <sup>R</sup> VQYGLIEEDNTEEK <sup>Q</sup> SSKEK.....ETDEK..ADKNLVLELDD <sup>T</sup> IEIE	382
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGGREN <sup>A</sup> K <sup>Q</sup> FLKEN <sup>K</sup> DIMLMIQEQIREHYGLDNNGV <sup>V</sup> VQQA <sup>E</sup> ETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGGREN <sup>A</sup> K <sup>N</sup> YLADHEDVEDEVRLK <sup>V</sup> RAAYGISDVP <sup>E</sup> EEDLPTTEDE.QI.NILPDDST.....EE.....	355
consensus	***!!!***** ** * *** ***** ** **	

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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 RAOC 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
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
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NTDB id 115 BSU 16940 NP 389576.2	...	348
NTDB id 625 LCA RS02525 WP 011374196.1	...	355

consensus

 non conserved  
 similar  
 ≥ 50% conserved