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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.A.NQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKGIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSGIEKAFGKGSIMKLGAE.SKLDVQVSTGSLSLDIALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSLGTGSVGLDIALGIGGYPRGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLATKQIDKVFGKGALVRLGDK.QVEKIDSLSTGSLGLDIALGIGGYPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLATKQIDKVFGKGALVRLGDK.QVEKIDSLSTGSLGLDIALGIGGYPRGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTGVDHNEVIPSGLGLDIALGVGGYPRGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQQEENLEVISTGSLGLDIALGVGGIPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQQEENLEVISTGSLGLDIALGVGGIPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQQEENLEVISTGSLGLDIALGVGGIPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.....MEDGK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVSTGSLGLDIALGVGGIPRGR	68
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKRKSKALQAALSGIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSGIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGGIEKQFGKGAVMRMGDH.DRQAIPSTGSLGLDIALGIGGLPKGR	59
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGGIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGGIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1123034 EL215 RS03000 WP 126470116.1	.....MATQEEKQKALAAALGGIEKQFGKGSIMKLGDT.QALDVESVSTGSLGLDIALGIGGLPMGR	61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNTV..VKQVEPEKQKQALEAALAQIEKQFGKGSIMKLGQT.EQLDESISTGSLGLDIALGIGGLPMGR	76
consensus	*** ** * ** ! * ! ! * * * * * * * * * * * * * * ! * ! !	

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGGQAEKAKNYLKEHQDVFEIDHKVRAAHGILDDSEVAETEE.ETTAS..KTKAKAKKEEKAVETEEIELELED..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDT.ENKKD..E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDT.ENKKD..E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDT.ENKKD..E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGGQSENAKKYLAEHPEIFDEIDKQVRSKFCILIDGEEVSEQDT.ENKKD..E...PKKEEA..VNEEVPLDLGDEL	382
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGGQSENAKKYLADNPEIFDEIDHQVRSKFCILIDGEEVSEQDT.ENKKD..E...AAQVDS..VNEEVTLDLGDEL	378
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGGQSENAKKYLADNPEVFAEIDHQVRSKFCILIDGEEVSEQDT.ENKKD..E...VAQVDS..VNEEVTLDLGDEL	378
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGGQSENAKKFLADNPEIFDDIDHKVRSKFCILIEEDNTEEKQS.SKEK.....ETDEK..ADKNLVLELDDTI	379
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGGQSENAKRYLADHPQIFDEIDRKVRSKFCILEESEEESAMA.VASE.....E.....TDDLALDLNNGI	374
NTDB id 115 BSU 16940 NP 389576.2	EERLGGGRENAAKQFLKENKDIIMLMIQEQIREHYCIDNNGVQQQAE.ETQEE..L.EFE.E.....E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGGQRENAAKNYLADHEDVEDEVRLKVRAYGILSDVPEEDLPTT.EDE.Q..I.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGGQCKEKTIAIYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....E.....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRENSKAFLENPEIADEITKATQNSMCIIEGMISGS..EDDEGEE.....E.....	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEIMPL..PDEPLEEME.....E.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLTKESIGSNEEIMPL..PDEPLEEME.....E.....	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRDITVKELIKDNPEIAEELAKIREKLQAK.....E.....	343
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVRRVWLKENPEISDEIDAKIRALNCEMHITEG..TQDET.....GERPE.....E.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGGQKDNVRRVWLKENPEISDEIDAKIRALNCEMHITEG..TQDET.....GERPE.....E.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGGQKDNVRRVWLKENPEISDEIDAKIRALNCEMHITEG..TQDET.....GERPE.....E.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGGQRDNCEFLRENAEIAREIENKVRHLGVTPMGAVT..LAEVEED.....E.....	352
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGGQKNNVIRYLEENPEIGQEIIEAVIREQLLTKASDQTA..AHDET...EEEPDLLES.....E.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGGQKNNVIRYFEENQIAEIEIRNIREQLLTTGTNGAV..QI.ED...EEEPDLLE.....S.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGGQKANAACKYLEENPEIGQEIEQQIRAKLLVTSANTKA..TPVAEDLADADI.....E.....	347
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGGQKANAACKYLLKENPEIAKTLDDKKLREMLLNPENMQLI..AETSSAADDVEFGAVPE.....EF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGGQKANAACKYLLKENPEIAKTLDDKKLREMLLNPENMQLI..AETSSAADDVEFGAVPE.....EF.....	354
NTDB id 1123034 EL215 RS03000 WP 126470116.1	GEKIGGQKANAMKWLHENPAKSDLEAKLRAELVANPEQALM..ADIEQSNDDAESDF.....E.....	351
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGGQKNNAVKWLKENPEIADKLEQELRNTLANSNPNSVLK..ATASDSNDESDFVEEFSE.....EEL.....	372
consensus	**!!!** ** * ** ** ** **	

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	E	I	E	L	E	E	
NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	I	E	I	E	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	I	E	I	E	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	I	E	I	E	E	384
NTDB id 408 SMU RS09530 WP 002262392.1	E	L	E	D	.	.	383
NTDB id 453 Spy49 1753c ACI62003.1	E	I	E	D	.	.	378
NTDB id 115 BSU 16940 NP 389576.2	348
NTDB id 625 LCA RS02525 WP 011374196.1	355
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NTDB id 1334 RAOC RS04870 WP 004918236.1	343
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	372

consensus

-  non conserved
-  similar
-  $\geq 50\%$ conserved