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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFGDERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFGDERKKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSIIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPRGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAIISLAIKQIDKVF GKGA LVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPRGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAIISLAIKQIDKVF GKGA LVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPRGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSNPDDKKKALAAVLEKLDKT YGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 395106 GFB57 RS09940 WP 003037330.1	MAIDENKQKALAAALGQIEKQFGKGSIMRLGED.RSMDVETISTGSLSLDIALGAGGLPMGR	61
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
consensus	*** **	

NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
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NTDB id 1124 NGFG RS03960 WP 003688695.1
NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 395106 GFB57 RS09940 WP 003037330.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 0004925639.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 395106 GFB57 RS09940 WP 003037330.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
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NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETTA	...	SKTKAKAKKEEKAVETEEIELELED	387			
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	DE	PKKEEA	VNEEVPLDLGDE	381	
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	DE	PKKEEA	VNEEVPLDLGDE	381	
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	DE	PKKEEA	VNEEVPLDLGDE	381	
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQDTENKK	DE	PKKEEA	VNEEVPLDLGDE	381	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLA	DNPEVFAE	IDHQVRVQFGL	LIDGEEAAE	SKK	DE	VAQVDS	VNEEVTLDLGDE	377
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLA	DNPEIF	DEIDHQVRVQFGL	LIDGEEIAE	SKK	DE	AAQVDS	VNEEVTLDLGDE	377
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLA	DHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE	E	TDDLALDLNG		373	
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLA	DNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKEK	ETDEK	ADKNLVLELDDT		378	
NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAKQFL	KENKDIM	LMIQEQIREHYGL	DNNGVVQQAEETQE	EL	EFE	E		348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAKNYL	ADHEDVE	DEVRLKVR	AAYGISDVPEEDLPTTEDE	QI	NILPDDST	EE		355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIA	ERP	MEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAA	EA					363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGG	RENSKAFL	KENPEIA	DEITKAIQNSMG	IEGMI	SGSEDD	EGEE			343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAKALLK	EDKALADEITLKI	KESIGSNEEI	MPLPDE	PLEEME				347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAKALLK	EDKALADEITLKI	KESIGSNEEI	MPLPDE	PLEEME				347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDITVKELIK	DNPELA	ELEAKIREKLQAK						343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWL	KENPEIADKLEQEIRNTLASNPNS	VLKATASDSN	DES	DVEEFS	EEEL			372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEISDEIDAKIRALNGVEMHI	TEGTQDETD	GERP	EE				348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEISDEIDAKIRALNGVEMHI	TEGTQDETD	GERP	EE				348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWL	KENPEISDEIDAKIRALNGVEMHI	TEGTQDETD	GERP	EE				348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAELAREIENKVRHLGVTPMG	AVTL	AEEVEED						352
NTDB id 395106 GFB57 RS09940 WP 003037330.1	GEKIGQG	KANATNWL	KENPATAKIEKKLRELLLNQDS	TPDFSVDSDGEDV	KETN	EDF				354
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLV	KENPEIAKTLDKKLREMLLNPNENM	QLIAETSSAAD	DVEFGAVP	EEF				354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLV	KENPEIAKTLDKKLREMLLNPNENM	QLIAETSSAAD	DVEFGAVP	EEF				354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAAYLY	LEENPEIGQIEEQIRAKLLVTSAN	TKATPVAEDLADADI						347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYLE	ENPQISTEIEAVIREQLLT	KASDQTAAHDETEEP	DLLES					349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFE	ENNQIAEEIERNIREQLLT	TGTNGAVQIEDEEP	DLLES					349
consensus	***!!!*****	**	*****	*****	**	**		***		

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NTDB id 600 KW2 RS01765 WP 011675413.1		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	LEIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	LEIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	LEIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	LEIEIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LEIEIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	LEIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	IEIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	IELED..	383
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
NTDB id 1214 NCTC11637 00359 SQJ03206.1		347
NTDB id 1211 C694 RS00795 WP 000963128.1		347
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NTDB id 1389 A4U84 RS07560 WP 021112712.1		372
NTDB id 1130 NGFG RS03960 WP 003688695.1		348
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NTDB id 395106 GFB57 RS09940 WP 003037330.1		354
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		

- X non conserved
- X similar
- X ≥ 50% conserved