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NTDB id 115 BSU 16940 NP 389576.2MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDTALGIGGYPGR	58
NTDB id 1094602 ACMHYH RS03005 WP 414839893.1	.....MAEDRKQALELALKKIEKNFGKGSVMKLGEEK.VDTRISTIPSGSLALDVALGVGGFPRGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRMLGEA.ANQKVSIVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRMLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRMLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRMLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRMLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRMLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRMLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLAIKQIDKVFGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLAIKQIDKVFGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIETVPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV..VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQEENLEVIISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRMLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRMLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRMLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDNKSALQAALSQIEKQFGKNTVMRMLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSISTGSLGLDIALGIGGLPKGR	59
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 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
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 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1205 PSJM300 05545 AFN77183.1



EERIGQGRENAKQFLKENKDIIMLMIQEQTREHYGLDNNGVVQQQAEEETQEELE..FEE..... 348
 GERIGQGRENAKRYFLDHPPELRAEIEKKVRAAYGIGDALEETEKTEKK.KTDA..TPEKKDKPTSTEEK..... 359
 SERIGQGRENAKNYLADHEDVEDEVRLKVRRAAYGISDVPEEDLPTTEDEQINI..LPDDSTE.....E..... 355
 DEKIGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLLDDSEVAETEEETTASKTAKAKAKEEKAVETEEIELELED..... 387
 DEKIGQGSENAACKYLAHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
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 DEKIGQGSENAACKYLAHPEIFDEIDKQVRSKFGIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE 385
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 DEKIGQGSENAACKYLADNPEIFDEIDHQVVRVQFGLIDGEEIAE...SKKDE...AAQVDS..VNEEVTLDLGDELEIE 381
 GEKIGQGSENAACKRYLADHPQLFDEIDRKRVRVKFGLLEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE 377
 GEKIGQGSENAACKFLADNPEIFDDIDHKVVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE 382
 DERIGQGKEKTIAYIAERPPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAPEAA..EA..... 363
 DKKLGQGRENSKAFLENPEIADIEITKAIQNSMGIEGMI...SGSEDDE..G..EE..... 343
 DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI...MPLPDEP..L..EEME..... 347
 DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI...MPLPDEP..L..EEME..... 347
 DTKLGQGRDTRVKELIKDNPELAEELEAKIREKLQAK..... 343
 GTKIGQGXNNAVKWLKENPEIADKLEQEIRNTLASNPNS...VLKATASDSN..DESDVEEFSEEL..... 372
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 GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGTQDET.....GERPEE..... 348
 GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI...TEGTQDET.....GERPEE..... 348
 GERIGQGRDNCREFLRENAELAREIENKVRHLGVTPMG...AV.TLAEVEE..ED..... 352
 GDKIGQGANACKYLNKENPEIAKTLDKKLREMLLNPNEM...QLIAETSSAA..DDVEFGAVPEEF..... 354
 GDKIGQGANACKYLNKENPEIAKTLDKKLREMLLNPNEM...QLIAETSSAA..DDVEFGAVPEEF..... 354
 GNKIGQGNVIRYFEENNQIAEIEIERNIREQLLTTGTN...GAVQ.I.EDE..EEDP..LLES..... 349
 GNKIGQGNVIRYLEENPQISTEIEAVIREQLLTKASD...QTAA.HDETE..EEDP..LLES..... 349
 GSKIGQGANAAKYLEENPEIGQEIEQQIRAKLLVTSAN...TKATPVAEDL..ADAD..I..... 347

consensus

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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
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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 1245 Cj1673c YP 002345041.1	...	343
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NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved