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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGAERDKALADALALIEKD FGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGAEREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGDERRKALDDALKNIEKD FGKGVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGDERKKALDDALKNIEKD FGKGVMLRGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLG EK.TDTRISTVPSGSLALDIALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS LDKT FGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVF GK GALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDDKKKALAAVLEK LDKT YGKGTVMKLG DGTVDHNIIEVIPSGSLGLDLALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSNNNTV.VKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 398716 GII23 RS10260 WP 041104415.1	.....MDENKRRALAAALGQIEKQFGKGVMMRGDH.DRQAIPAIISTGSLGLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKRRALAAALGQIEKQFGKGVMMRGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
consensus	*** ** * ** *! *!***** * **!!!*!!*!!*!!*!!*!!*!!*!!	

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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 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 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
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 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 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 398716 GII23 RS10260 WP 041104415.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus



DEKIGQGA EKAKNYLKEHQDVFD EIDHKVRAAHG LDDSEVAETEEETTASKTAKAKKEEKAVETE IEIELELED 387
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNE EVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNE EVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNE EVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAEHPEIFDE IDKQVRSKFG LIDGEEVSEQD TENKKDE PKKEEA . . VNE EVPLDLGDELEIE 385
 DEKIGQGS ENAKKYLAADNPEIFDE IDHQVVRVQFGL IDGEEIAES KKDE AAQVDS . . VNE EVTLDLGDLEIE 381
 DEKIGQGS ENAKKYLAADNPEVFAE IDHQVVRVQFGL IDGEEAAES KKDE VAQVDS . . VNE EVTLDLGDLEIE 381
 GEKIGQGS ENAKRYLADHPQLFDE IDRKVVRVKFGL LEESEEEESAMAVASE E TDDLALDLNGIEIE 377
 GEKIGQGS ENAKKFLADNPEIFDD IDHKVVRVQYGL IEEDNTEEEKQSSKEK ETDEK . . ADKNLVLELDDTIELE 382
 EERLGGGREN AKQFLKENKDIMLMIQE QIREHYGL DNNGVVQQAEETQEEL . EFE . E 348
 SERIGQGR ENAKNYLADHEDVEDEVRLKVR AAYGISD VPEEDLPTTEDE . QI . NILPDDST EE 355
 DERIGQGK EKTIA YTAERP EMEQEIRDRVMAA AIRAGNAGEAPALAPAPAAPEAAE . . A 363
 DKKLGGGREN SKAFLKENPEIAD EITKAIQNSMG IEGMI SGSEDDGEE 343
 DKKLGGGREN AKALLKEDKALADEITLKI KESIGSNEEI MPLPDEPLEEM . . E 347
 DKKLGGGREN AKALLKEDKALADEITLKI KESIGSNEEI MPLPDEPLEEM . . E 347
 DTKLGGGRD TVKELIKDNPELAELEAK IREKLQAK 343
 GTKIGQGN NNAVKWLKENPEIADKLEQE IRNTLASNPN S VLKATASDSND . . ESDVEEFSEEL 372
 GAKIGQGD NVRVWLKENPEISDE IDAKIRALNGV EMHI TEGTQDET D GERPEE 348
 GAKIGQGD NVRVWLKENPEISDE IDAKIRALNGV EMHI TEGTQDET D GERPEE 348
 GAKIGQGD NVRVWLKENPEISDE IDAKIRALNGV EMHI TEGTQDET D GERPEE 348
 GERIGQGRD NCREFLRENAELAREIENKVREHLG VTPMG AVTLA . EEVEE . . D 352
 GDKIGQGN ANACKYLKENPEIAKTL DKKLREMLLN PENM QLIAETSSAAD . . DVEFGAVPEE . . F 354
 GDKIGQGN ANACKYLKENPEIAKTL DKKLREMLLN PENM QLIAETSSAAD . . DVEFGAVPEE . . F 354
 GNKIGQGN NVIRYLEENPQISTEIEAV IREQLLTKASD QTAAHDETEEE . . P DLLES 349
 GNKIGQGN NVIRYFEENNQIAEEIERN IREQLLTTGTN GAVQI . EDEEE . . P DLLLES 349
 GSKIGQGN ANAAKFLDNPAVGEIEERLVREKLLV VSSN SKAAAGAVA . E DLVEAD . Y 350
 GSKIGQGN ANAAKYLEENPEIGQEIEQQ IRAKLLVTSAN TKATPVA E DLADAD . I 347

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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 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	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 1130 NGFG RS03960 WP 003688695.1	...	348
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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
NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 398716 GII23 RS10260 WP 041104415.1	...	350
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved