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NTDB id 218402 B1222 RS27615 WP 390905536.1	0
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERD KALADALALIEKD FGKGSIMRLGER.ANQK VSVVSSGSLALDI ALGAGGY PKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGA EREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGRII	75
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGA EREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGRII	75
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGA EREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGRII	75
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGA EREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGRII	75
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGA EREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGRII	75
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGA EREKALNDALKLIEKD FGKGSIMRLGER.AEQKVQVMSSGSLALDI ALGSGGYPKGRII	75
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGD ERRKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDI ALGAGGYPKGRII	75
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGD ERKKALDDALKNIEKD FGKGAVMRLGER.AEQKVQVMSSGSLALDI ALGAGGYPKGRIV	75
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQ IEKQ FGKGSIMKL GEK .TDTRISTVPSGSLALDI TALGIGGYPRGRII	60
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAAL KKIEKN FGKGSIMR MG EK.VDTQVSTVSSGSLALDE ALGVGGYPRGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDN KRKS LDAAL KS LD KT FGK GTIL RLGDK.EVEQ IDSIGTGSVGLD LALGIGGV PKGRII	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAID DKQA ISLA IKQ ID KV FGK GALV RLGDK.QVEK IDAISTGSLGLD LALGIGGV PKGRII	63
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAID DKQA ISLA IKQ ID KV FGK GALV RLGDK.QVEK IDSISTGSLGLD LALGIGGV PKGRII	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTETTSPND DKK KALAAV LEK LD KT Y GKGTVM KLGDGTVDHNI EVIP SGSLGLDL ALGVGGYPKGRIV	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS SKNNTVVKQ VEPE QKQ QALEAA LAQIEKQ FGKGSIM KL GQT.EQLD IESVSTGSLGLD LALGIGGL PMGRIV	78
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSD DK SKALAA LAQIEK SFGK GAIM KMDGSQ Q EE NLE VISTGSLGLDL ALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSD DK SKALAA LAQIEK SFGK GAIM KMDGSQ Q EE NLE VISTGSLGLDL ALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSD DK SKALAA LAQIEK SFGK GAIM KMDGSQ Q EE NLE VISTGSLGLDL ALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAAS MSAEK QKALAA LAQIEKQ FGKGSIM KM GDA.EVEPVQ VSTGSLGLD VALGVGGL PRGRVV	70
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDEN KQ KALAA ALGQIEKQ FGKGSIM RL GDN.RAMD VETISTGSLSLD I ALGAGGLPMGRIV	61
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDEN KQ KALAA ALGQIEKQ FGKGSIM RL GDN.RAMD VETISTGSLSLD I ALGAGGLPMGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDN KS KALQA ALSQIEKQ FGK NTVM RLGDN.TVQAVE AVSTGSLTLD I ALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDEN KS KALQA ALSQIEKQ FGK NTVM RLGDN.TVQAVE AVSTGSLTLD I ALGIGGLPKGRII	61
NTDB id 1205 PSJM300 05545 AFN77183.1MDEN KR RALAA ALGQIEKQ FGK GAVMR MGD H .DRQA IP STGSL GLD I ALGIGGLPKGRIV	61
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NTDB id 218402 B1222 RS27615 WP 390905536.1MYGEGISKEGSLVDIASEMDIINKSGAWYSYNND	34
NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIINKSGAWFAYNDE	314
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYKDE	313
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYKDE	313
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYKDE	313
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYKDE	313
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYKDE	313
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYKDE	313
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRGTTQIKGTG.DQKDSIGKETKIKVVKNKVAPPFKEAVVEIMYGEGISRTGELVKIASDLDIKKKAGAWFSYNGE	313
NTDB id 408 SMU RS09530 WP 002262392.1	RLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDLGITQKAGAWYSYNGE	313
NTDB id 115 BSU 16940 NP 389576.2	RLVRRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELIDVQKSGSWYSYEEE	294
NTDB id 625 LCA RS02525 WP 011374196.1	RLVRRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGQGISRTGELVDMAVEKDIINKSGSWYSYGSE	296
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT....L.KQNEEPIGNRVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYKDK	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK	298
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQDK	298
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRLSDTGKIKDKSGEVIGNRTKVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDIQKSGSWFSYQDT	309
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGEIIGSETKVVKNKVAPPFREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYDGT	312
NTDB id 1130 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYNGA	296
NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYNGA	296
NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYNGA	296
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGS....I.KKGEDEVVGNETKVVKNKVAPPFREAIQFDILYEGAGVSRGEIIDLGVKAKVVEKSGAWYSYNGE	304
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGQGFNREGELIDLGVKHKMVEKSGAWYSYNGD	295
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGQGFNREGELIDLGVKHKMVEKSGAWYSYNGD	295
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEGDEIIGSETKVVKNKMAPPFREAIQIYLYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQGN	295
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEGDEIIGSETKVVKNKMAPPFKEAIFQIYLYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQGN	295
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGDEVVGSSETRVVKNKVAPPFRQAEFQIYLYGKIYRNGEIIDLGVQQGLVEKSGAWAYKGS	295
consensus	***** * ** ***** * *****! *! * * * * * * * * * * * * * * * ! *! *! *! *!	

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NTDB id 218402 B1222 RS27615 WP 390905536.1	.	87
NTDB id 600 KW2 RS01765 WP 011675413.1	.	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 453 Spy49 1753c ACI62003.1	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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
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
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 1205 PSJM300 05545 AFN77183.1	.	347

consensus

 non conserved
 similar
 ≥ 50% conserved