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NTDB id 1313 DR RS12030 WP 010888966.1	MSKD...ATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVYSTGSLSLDLALGVGGIPRGRITE	75
NTDB id 600 KW2 RS01765 WP 011675413.1	MA..TKKKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGAE.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE	77
NTDB id 269 KZH43 RS08665 WP 001085462.1	.M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 228 SPD RS09265 WP 001085462.1	.M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 194 SPR RS08825 WP 001085462.1	.M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 159 SP RS09750 WP 001085462.1	.M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 499 SM12261 RS08315 WP 078228268.1	.M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 453 Spy49 1753c ACI62003.1	.M..AKKPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE	76
NTDB id 408 SMU RS09530 WP 002262392.1	.M..AKRIKKTEEITKKFGDERKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE	76
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGK.TDTRISTVPSGSLALDTALGIGGYPGRGRIVE	61
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPGRGRIVE	63
NTDB id 1102524 ACNOGP RS19705 WP 418213527.1	MA..KKDELNFETDNKMASSEKALKALAAVEKIEKSFSGKGSIMKMGDDSV.EVEVPTGSLALNVALGVGGYPGRGRIVE	77
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKTETTSPNDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNI.EVIPSGLGLDLALGVGGYPKGRIVE	71
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIVE	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFSGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIVE	64
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFSGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIVE	64
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKSSKNNTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIVE	79
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQENLEVISTGSLGLDLALGVGGLPRGRIVE	63
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQENLEVISTGSLGLDLALGVGGLPRGRIVE	63
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQEQENLEVISTGSLGLDLALGVGGLPRGRIVE	63
NTDB id 1427 RS RS02760 WP 011000510.1	MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVYSTGSLGLDVALGVGGLPRGRVVE	71
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDLALGAGGLPMGRIVE	62
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDLALGAGGLPMGRIVE	62
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE	62
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE	62
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGQIEKQFGKGAVMRMDH.DRQAIPSIISTGSLGLDLALGIGGLPKGRIVE	62
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NTDB id 1313 DR RS12030 WP 010888966.1	IYGPESGGKTTLALHAVAQAQKAGGTCAFIDA EHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRS GAVD LVVV	155
NTDB id 600 KW2 RS01765 WP 011675413.1	IYGPESGGKTTVALHAVA AAVQKEGGIAAFIDAENALDPEYAKALGVNIDELLVSQPDYGEQGLQIAEKLITSGAVDLVVT	157
NTDB id 269 KZH43 RS08665 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKEGGIAAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 228 SPD RS09265 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKEGGIAAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 194 SPR RS08825 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKEGGIAAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 159 SP RS09750 WP 001085462.1	IYGPESGGKTTVALHAVAQAQKEGGIAAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 499 SM12261 RS08315 WP 078228268.1	IYGPESGGKTTVALHAVAQAQKEGGIAAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IYGPESGGKTTVALHAVAQAQKEGGIAAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 453 Spy49 1753c ACI62003.1	IYGPESGGKTTVALHAVAQAQKEGGIAAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 408 SMU RS09530 WP 002262392.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 115 BSU 16940 NP 389576.2	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 625 LCA RS02525 WP 011374196.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1102524 ACNOGP RS19705 WP 418213527.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1334 RAOC RS04870 WP 004918236.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1245 Cj1673c YP 002345041.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1211 C694 RS00795 WP 000963128.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1130 NGFG RS03960 WP 003688695.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1124 NGFG RS03960 WP 003688695.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1123 OK783 RS03845 WP 003688695.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1427 RS RS02760 WP 011000510.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
NTDB id 1205 PSJM300 05545 AFN77183.1	IYGPESGGKTTVALHAVAQAQKDG GIIAFIDA EHALDPAYAAALGVNIDELLVSQPDSEGEQGLEIAGK LIDSGAVDLVVV	156
consensus	**!!!!*!!!!* * **! !* ** !**!!!!*!* * !! !**!*!*!*!*!*!*!*!* * **!*!*!*!*!*!*!	





