

## Protein complexes

WID	Name
<u>DNA_GYRASE</u>	<u>DNA gyrase</u>
<u>DNA_POLYMERASE_2CORE_BETA_CLAMP_GAMMA_COMPLEX_PRIMASE</u>	<u>DNA polymerase (2) core, <math>\beta</math>-clamp, <math>\gamma</math>-complex, and primase</u>
<u>DNA_POLYMERASE_CORE</u>	<u>DNA-directed DNA polymerase</u>
<u>DNA_POLYMERASE_CORE_BETA_CLAMP_GAMMA_COMPLEX</u>	<u>DNA polymerase core, <math>\beta</math>-clamp, and <math>\gamma</math>-complex</u>
<u>DNA_POLYMERASE_CORE_BETA_CLAMP_PRIMASE</u>	<u>DNA polymerase core, <math>\beta</math>-clamp, and primase</u>
<u>DNA_POLYMERASE_GAMMA_COMPLEX</u>	<u>DNA-directed DNA polymerase gamma complex</u>
<u>DNA_POLYMERASE_HOLOENZYME</u>	<u>DNA-directed DNA polymerase holoenzyme</u>
<u>MG_001_048</u>	<u>signal recognition particle</u>
<u>MG_003_465</u>	<u>ribonuclease P</u>
<u>MG_001_DIMER</u>	<u>DNA polymerase III, beta clamp</u>
<u>MG_005_DIMER</u>	<u>seryl-tRNA synthetase</u>
<u>MG_006_DIMER</u>	<u>thymidylate kinase</u>
<u>MG_008_379_TETRAMER</u>	<u>tRNA uridine 5-carboxymethylaminomethyl modification enzyme</u>
<u>MG_013_DIMER</u>	<u>methylenetetrahydrofolate dehydrogenase/methylenetetrahydrofolate cyclohydrolase</u>
<u>MG_014_015_DIMER</u>	<u>multidrug ABC transporter</u>
<u>MG_019_DIMER</u>	<u>chaperone protein DnaJ</u>
<u>MG_021_DIMER</u>	<u>methionyl-tRNA synthetase</u>
<u>MG_023_DIMER</u>	<u>fructose-1,6-bisphosphate aldolase, class II</u>
<u>MG_029_DIMER</u>	<u>DJ-1/Pfpl family protein</u>
<u>MG_030_TRIMER</u>	<u>uracil phosphoribosyltransferase</u>
<u>MG_033_TETRAMER</u>	<u>glycerol uptake facilitator</u>
<u>MG_034_DIMER</u>	<u>thymidine kinase</u>
<u>MG_035_DIMER</u>	<u>histidyl-tRNA synthetase</u>
<u>MG_036_DIMER</u>	<u>aspartyl-tRNA synthetase</u>
<u>MG_038_TETRAMER</u>	<u>glycerol kinase</u>
<u>MG_039_DIMER</u>	<u>FAD-dependent glycerol-3-phosphate dehydrogenase, putative</u>
<u>MG_040_119_120_121_PENTAMER</u>	<u>Monosaccharide (riboside/galactoside) ABC transporter</u>

<u>MG_041_062_429_PENTAMER</u>	<u>PTS system, fructose-specific</u>
<u>MG_041_069_429_PENTAMER</u>	<u>PTS system, glucose-specific</u>
<u>MG_042_043_044_045_PENTAMER</u>	<u>spermidine/putrescine (polyamine) ABC transporter</u>
<u>MG_046_DIMER</u>	<u>metalloendopeptidase</u>
<u>MG_047_TETRAMER</u>	<u>S-adenosylmethionine synthetase</u>
<u>MG_049_HEXAMER</u>	<u>purine nucleoside phosphorylase</u>
<u>MG_051_DIMER</u>	<u>pyrimidine-nucleoside phosphorylase</u>
<u>MG_052_DIMER</u>	<u>cytidine deaminase</u>
<u>MG_053_TRIMER</u>	<u>phosphoglucomutase/phosphomannomutase, putative</u>
<u>MG_055_170_277_464_476_20MER</u>	<u>preprotein translocase</u>
<u>MG_058_HEXAMER</u>	<u>ribose-phosphate pyrophosphokinase</u>
<u>MG_063_DIMER</u>	<u>1-phosphofructokinase, putative</u>
<u>MG_064_065_TETRAMER</u>	<u>ABC transporter</u>
<u>MG_066_DIMER</u>	<u>transketolase</u>
<u>MG_072_DIMER</u>	<u>preprotein translocase, SecA subunit</u>
<u>MG_073_206_421_TETRAMER</u>	<u>DNA incision complex</u>
<u>MG_077_078_079_080_321_PENTAMER</u>	<u>oligopeptide ABC transporter</u>
<u>MG_084_TETRAMER</u>	<u>tRNA(Ile)-lysine synthetase</u>
<u>MG_085_HEXAMER</u>	<u>HPr(Ser) kinase/phosphatase</u>
<u>MG_089_DIMER</u>	<u>translation elongation factor G</u>
<u>MG_091_OCTAMER</u>	<u>single-strand binding protein family, octamer</u>
<u>MG_091_TETRAMER</u>	<u>single-strand binding protein family, tetramer</u>
<u>MG_094_HEXAMER</u>	<u>replicative DNA helicase</u>
<u>MG_098_099_100_TRIMER</u>	<u>glutamyl-tRNA(Gln) and/or aspartyl-tRNA(Asn) amidotransferase</u>
<u>MG_102_DIMER</u>	<u>thioredoxin-disulfide reductase</u>
<u>MG_102_DIMER_ox</u>	<u>oxidized thioredoxin-disulfide reductase</u>
<u>MG_105_OCTAMER</u>	<u>putative DNA integrity scanning protein</u>
<u>MG_106_DIMER</u>	<u>peptide deformylase</u>
<u>MG_107_DIMER</u>	<u>guanylate kinase</u>
<u>MG_109_DIMER</u>	<u>serine/threonine protein kinase, putative</u>
<u>MG_111_DIMER</u>	<u>glucose-6-phosphate isomerase</u>
<u>MG_112_DIMER</u>	<u>ribulose-phosphate 3-epimerase</u>

<u>MG_113_DIMER</u>	<u>asparaginyl-tRNA synthetase</u>
<u>MG_114_DIMER</u>	<u>CDP-diacylglycerol--glycerol-3-phosphate 3-phosphatidyltransferase</u>
<u>MG_118_DIMER</u>	<u>UDP-glucose 4-epimerase</u>
<u>MG_123_DIMER</u>	<u>arginine deaminase</u>
<u>MG_124_MONOMER_ox</u>	<u>oxidized thioredoxin</u>
<u>MG_126_DIMER</u>	<u>tryptophanyl-tRNA synthetase</u>
<u>MG_127_MONOMER_ox</u>	<u>oxidized Spx subfamily protein</u>
<u>MG_128_HEXAMER</u>	<u>inorganic polyphosphate/ATP-NAD kinase, probable</u>
<u>MG_132_DIMER</u>	<u>purine nucleoside phosphoramidase</u>
<u>MG_136_DIMER</u>	<u>lysyl-tRNA synthetase</u>
<u>MG_137_DIMER</u>	<u>UDP-galactopyranose mutase</u>
<u>MG_139_DIMER</u>	<u>ribonuclease J</u>
<u>MG_179_180_181_TETRAMER</u>	<u>metal ion (cobalt) ABC transporter</u>
<u>MG_182_DIMER</u>	<u>Pseudouridylate synthase</u>
<u>MG_184_DIMER</u>	<u>adenine-specific DNA modification methylase</u>
<u>MG_186_187_188_189_PENTAMER</u>	<u>Oligosaccharide or polyol ABC transporter</u>
<u>MG_194_195_TETRAMER</u>	<u>phenylalanyl-tRNA synthetase</u>
<u>MG_201_DIMER</u>	<u>co-chaperone GrpE</u>
<u>MG_203_204_TETRAMER</u>	<u>topoisomerase IV</u>
<u>MG_205_DIMER</u>	<u>heat-inducible transcription repressor HrcA, putative</u>
<u>MG_208_DIMER</u>	<u>glycoprotease family protein</u>
<u>MG_213_214_298_6MER</u>	<u>chromosome segregation protein SMC</u>
<u>MG_213_214_298_6MER_ADG</u>	<u>Chromosome Segregation Protein SMC with SCP Proteins-ADP</u>
<u>MG_215_TETRAMER</u>	<u>6-phosphofructokinase</u>
<u>MG_216_TETRAMER</u>	<u>pyruvate kinase</u>
<u>MG_221_OCTAMER</u>	<u>mraZ protein</u>
<u>MG_224_2MER_GTP</u>	<u>cell division protein ftsZ activated 2mer</u>
<u>MG_224_3MER_GTP</u>	<u>cell division protein ftsZ activated 3mer</u>
<u>MG_224_4MER_GTP</u>	<u>cell division protein ftsZ activated 4mer</u>
<u>MG_224_5MER_GTP</u>	<u>cell division protein ftsZ activated 5mer</u>
<u>MG_224_6MER_GTP</u>	<u>cell division protein ftsZ activated 6mer</u>

<u>MG_224_7MER_GTP</u>	<u>cell division protein ftsZ activated 7mer</u>
<u>MG_224_8MER_GTP</u>	<u>cell division protein ftsZ activated 8mer</u>
<u>MG_224_9MER_GDP</u>	<u>cell division protein ftsZ deactivated 9mer</u>
<u>MG_224_9MER_GTP</u>	<u>cell division protein ftsZ activated 9mer</u>
<u>MG_224_MONOMER_GDP</u>	<u>cell division protein ftsZ hydrolysed</u>
<u>MG_224_MONOMER_GTP</u>	<u>cell division protein ftsZ activated</u>
<u>MG_225_DIMER</u>	<u>amino acid transporter</u>
<u>MG_226_DIMER</u>	<u>amino acid transporter</u>
<u>MG_227_DIMER</u>	<u>thymidylate synthase</u>
<u>MG_228_TETRAMER</u>	<u>dihydrofolate reductase</u>
<u>MG_229_231_TETRAMER</u>	<u>ribonucleoside-diphosphate reductase</u>
<u>MG_229_231_TETRAMER_ox</u>	<u>oxidized ribonucleoside-diphosphate reductase</u>
<u>MG_239_HEXAMER</u>	<u>ATP-dependent protease La</u>
<u>MG_240_HEXAMER</u>	<u>nicotinamide-nucleotide adenyllyltransferase/conserved hypothetical protein</u>
<u>MG_244_DIMER</u>	<u>3-5' helicase</u>
<u>MG_251_DIMER</u>	<u>glycyl-tRNA synthetase</u>
<u>MG_252_DIMER</u>	<u>23S rRNA methyltransferase</u>
<u>MG_259_TETRAMER</u>	<u>modification methylase</u>
<u>MG_265_DIMER</u>	<u>sugar phosphatase</u>
<u>MG_271_272_273_274_192MER</u>	<u>pyruvate dehydrogenase</u>
<u>MG_271_272_273_274_192MER_ox</u>	<u>oxidized dihydrolipoamide dehydrogenase</u>
<u>MG_275_TETRAMER</u>	<u>NADH oxidase</u>
<u>MG_276_DIMER</u>	<u>adenine phosphoribosyltransferase</u>
<u>MG_278_DIMER</u>	<u>GTP pyrophosphokinase</u>
<u>MG_283_DIMER</u>	<u>prolyl-tRNA synthetase</u>
<u>MG_287_MONOMER_ACP</u>	<u>holo acyl carrier protein</u>
<u>MG_287_MONOMER_ddcaACP</u>	<u>Dodecanoyl-ACP (n-C12:0ACP)</u>
<u>MG_287_MONOMER_hdeACP</u>	<u>cis-hexadec-9-enoyl-[acyl-carrier protein] (n-C16:1)</u>
<u>MG_287_MONOMER_myrsACP</u>	<u>Myristoyl-ACP (n-C14:0ACP)</u>
<u>MG_287_MONOMER_ocrdcaACP</u>	<u>Octadecanoyl-ACP (n-C18:0ACP)</u>
<u>MG_287_MONOMER_octeACP</u>	<u>cis-octadec-11-enoyl-[acyl-carrier protein] (n-C18:1)</u>
<u>MG_287_MONOMER_palmACP</u>	<u>Palmitoyl-ACP (n-C16:0ACP)</u>

<u>MG 287 MONOMER tdeACP</u>	<u>cis-tetradec-7-enoyl-[acyl-carrier protein] (n-C14:1)</u>
<u>MG 289 290 291 PENTAMER</u>	<u>phosphonate ABC transporter</u>
<u>MG 292 TETRAMER</u>	<u>alanyl-tRNA synthetase</u>
<u>MG 293 DIMER</u>	<u>glycerophosphoryl diester phosphodiesterase family protein</u>
<u>MG 295 MONOMER ox</u>	<u>oxidized tRNA U34 sulfurtransferase</u>
<u>MG 299 DIMER</u>	<u>phosphate acetyltransferase</u>
<u>MG 301 TETRAMER</u>	<u>glyceraldehyde-3-phosphate dehydrogenase, type I</u>
<u>MG 302 303 304 TETRAMER</u>	<u>metal ion (cobalt) ABC transporter</u>
<u>MG 316 DIMER</u>	<u>DNA internalization-related competence protein ComEC/Rec2</u>
<u>MG 322 323 TETRAMER</u>	<u>potassium uptake protein, TrkH family, putative</u>
<u>MG 333 DIMER</u>	<u>FMN-dependent NADH-azoreductase, putative</u>
<u>MG 336 DIMER</u>	<u>cysteine desulfurase</u>
<u>MG 346 DIMER</u>	<u>23S rRNA methyltransferase</u>
<u>MG 347 DIMER</u>	<u>tRNA (guanine-N(7)-)-methyltransferase</u>
<u>MG 349 HEXAMER</u>	<u>Replication initiation/membrane attachment protein</u>
<u>MG 351 HEXAMER</u>	<u>inorganic pyrophosphatase</u>
<u>MG 352 DIMER</u>	<u>Holliday junction endonuclease</u>
<u>MG 353 DIMER</u>	<u>DNA-binding protein HU, putative</u>
<u>MG 355 HEXAMER</u>	<u>ATP-dependent Clp protease, ATPase subunit</u>
<u>MG 357 DIMER</u>	<u>acetate kinase</u>
<u>MG 358 359 10MER</u>	<u>Holliday junction DNA helicase</u>
<u>MG 367 DIMER</u>	<u>ribonuclease III</u>
<u>MG 368 DIMER</u>	<u>fatty acid/phospholipid synthesis protein PlsX</u>
<u>MG 369 DIMER</u>	<u>DAK2 phosphatase domain protein</u>
<u>MG 372 DIMER</u>	<u>thiamine biosynthesis/tRNA modification protein ThiI</u>
<u>MG 375 DIMER</u>	<u>threonyl-tRNA synthetase</u>
<u>MG 376 HEXAMER</u>	
<u>MG 382 TETRAMER</u>	<u>uridine kinase</u>
<u>MG 383 DIMER</u>	<u>NH(3)-dependent NAD+ synthetase, putative</u>
<u>MG 385 DIMER</u>	<u>glycerophosphoryl diester phosphodiesterase family protein</u>
<u>MG 390 DIMER</u>	<u>toxin ABC transporter, ATP-binding/permease protein</u>

<u>MG_391_HEXAMER</u>	<u>cytosol aminopeptidase</u>
<u>MG_392_393_21MER</u>	<u>GroEL-GroES chaperonin complex</u>
<u>MG_394_TETRAMER</u>	<u>serine hydroxymethyltransferase</u>
<u>MG_396_DIMER</u>	<u>ribose 5-phosphate isomerase B</u>
<u>MG_398_399_400_401_402_403_404_405_22MER</u>	<u>H(+)-transporting two-sector ATPase</u>
<u>MG_407_DIMER</u>	<u>enolase</u>
<u>MG_409_DIMER</u>	<u>phosphate transport system regulatory protein PhoU, putative</u>
<u>MG_410_411_412_PENTAMER</u>	<u>phosphate ABC transporter</u>
<u>MG_425_DIMER</u>	<u>ATP-dependent RNA helicase</u>
<u>MG_427_DIMER</u>	<u>osmotically inducible peroxidase</u>
<u>MG_427_DIMER_ox</u>	<u>oxidized osmotically inducible peroxidase</u>
<u>MG_428_DIMER</u>	<u>LuxR bacterial regulatory protein, putative</u>
<u>MG_431_DIMER</u>	<u>triosephosphate isomerase</u>
<u>MG_433_DIMER</u>	<u>translation elongation factor Ts</u>
<u>MG_434_HEXAMER</u>	<u>uridylate kinase</u>
<u>MG_437_DIMER</u>	<u>phosphatidate cytidyltransferase</u>
<u>MG_445_DIMER</u>	<u>tRNA (guanine-N1)-methyltransferase</u>
<u>MG_451_DIMER</u>	<u>translation elongation factor Tu</u>
<u>MG_453_TETRAMER</u>	<u>UTP-glucose-1-phosphate uridylyltransferase</u>
<u>MG_454_DIMER</u>	<u>thiol-dependent peroxidase</u>
<u>MG_454_DIMER_ox</u>	<u>oxidized thiol-dependent peroxidase</u>
<u>MG_455_DIMER</u>	<u>tyrosyl-tRNA synthetase</u>
<u>MG_457_HEXAMER</u>	<u>ATP-dependent metalloprotease FtsH</u>
<u>MG_458_TETRAMER</u>	<u>hypoxanthine phosphoribosyltransferase</u>
<u>MG_460_TETRAMER</u>	<u>L-lactate dehydrogenase/malate dehydrogenase</u>
<u>MG_467_468_526_TETRAMER</u>	<u>salivaricin A ABC transporter</u>
<u>MG_469_1MER_ADP</u>	<u>DnaA-ADP</u>
<u>MG_469_1MER_ATP</u>	<u>DnaA-ATP</u>
<u>MG_469_2MER_1ATP_ADP</u>	<u>DnaA 2mer-(1)ATP-(1)ADP</u>
<u>MG_469_2MER_ATP</u>	<u>DnaA-ATP 2mer</u>
<u>MG_469_3MER_2ATP_ADP</u>	<u>DnaA 3mer-(2)ATP-(1)ADP</u>
<u>MG_469_3MER_ATP</u>	<u>DnaA-ATP 3mer</u>

<u>MG_469_4MER_3ATP_AD</u>	<u>DnaA 4mer-(3)ATP-(1)ADP</u>
<u>MG_469_4MER_ATP</u>	<u>DnaA-ATP 4mer</u>
<u>MG_469_5MER_4ATP_AD</u>	<u>DnaA 5mer-(4)ATP-(1)ADP</u>
<u>MG_469_5MER_ATP</u>	<u>DnaA-ATP 5mer</u>
<u>MG_469_6MER_5ATP_AD</u>	<u>DnaA 6mer-(5)ATP-(1)ADP</u>
<u>MG_469_6MER_ATP</u>	<u>DnaA-ATP 6mer</u>
<u>MG_469_7MER_6ATP_AD</u>	<u>DnaA 7mer-(6)ATP-(1)ADP</u>
<u>MG_469_7MER_ATP</u>	<u>DnaA-ATP 7mer</u>
<u>MG_482_DIMER</u>	<u>holo-(acyl-carrier-protein) synthase</u>
<u>REPLISOME</u>	<u>Replisome</u>
<u>RIBOSOME_30S</u>	<u>30S ribosomal subunit</u>
<u>RIBOSOME_30S_IF3</u>	<u>30S ribosomal subunit - translation initiation factor IF-3 complex</u>
<u>RIBOSOME_50S</u>	<u>50S ribosomal subunit</u>
<u>RIBOSOME_70S</u>	<u>70S ribosome</u>
<u>RNA_POLYMERASE</u>	<u>DNA-directed RNA polymerase</u>
<u>RNA_POLYMERASE_HOLOENZYME</u>	<u>DNA-directed RNA polymerase holoenzyme</u>