

Gene ID,Locus tag,Gene name,Strand,Protein ID,Protein name,Aminoacid number,Location,EC,Funct

G1FLP-70,AVR58_RS00350,,1,WP_010945828.1,phosphoribosylglycinamide synthetase,476,[74425:74425]

G1FLP-224,AVR58_RS01125,,-1,WP_010945978.1,5-(carboxyamino)imidazole ribonucleotide synthetase,476,[74425:74425]

G1FLP-225,AVR58_RS01130,,-1,WP_010945979.1,5-(carboxyamino)imidazole ribonucleotide mutase,476,[74425:74425]

G1FLP-469,AVR58_RS02355,,-1,WP_010946209.1,bifunctional phosphoribosylaminoimidazolecarboxamide synthetase,476,[74425:74425]

G1FLP-495,AVR58_RS02485,,1,WP_010946234.1,adenylosuccinate synthetase,431,[525920:527216]

G1FLP-809,AVR58_RS04035,,-1,WP_010946537.1,adenylosuccinate lyase,456,[885672:887043](-),4.

G1FLP-1065,AVR58_RS05320,,-1,WP_010946782.1,FOF1 ATP synthase subunit gamma,289,[1155675:1155675]

G1FLP-1066,AVR58_RS05325,,-1,WP_010946783.1,ATP synthase subunit alpha 1,490,[1156602:1156602]

G1FLP-1067,AVR58_RS05330,,-1,WP_010946784.1,H⁺ transporting ATP synthase subunit B,247,[1156602:1156602]

G1FLP-1068,AVR58_RS05335,,-1,WP_011946148.1,ATP synthase F0 subunit C,91,[1158810:1159086]

G1FLP-1069,AVR58_RS05340,,-1,WP_010946786.1,ATP synthase subunit A,230,[1159082:1159775](+),4.

G1FLP-1070,AVR58_RS05345,,-1,WP_010946787.1,FOF1 ATP synthase subunit,92,[1159777:1160056]

G1FLP-1072,AVR58_RS05355,,-1,WP_010946789.1,FOF1 ATP synthase subunit beta,474,[1160464:1160464]

G1FLP-1445,AVR58_RS07220,,1,WP_010947140.1,adenylate kinase,236,[1567508:1568219](+),2.7.4

G1FLP-1583,AVR58_RS07910,,-1,WP_010947277.1,nucleoside-diphosphate kinase,158,[1722805:1722805]

G1FLP-1709,AVR58_RS08540,,-1,WP_010947399.1,phosphoribosylglycinamide formyltransferase,19

G1FLP-1710,AVR58_RS08545,,-1,WP_010947400.1,phosphoribosylamine--glycine ligase,439,[187070:187070]

G1FLP-1711,AVR58_RS08550,,-1,WP_010947401.1,amidophosphoribosyltransferase,499,[1872025:1872025]

G1FLP-1712,AVR58_RS08555,,-1,WP_010947402.1,phosphoribosylaminoimidazolesuccinocarboxamide synthetase,476,[74425:74425]

G1FLP-1713,AVR58_RS08560,,-1,WP_010947403.1,phosphoribosylformylglycinamidine synthase I,42

G1FLP-1714,AVR58_RS08565,,-1,WP_010947404.1,phosphoribosylformylglycinamidine cyclo-ligase,42

G1FLP-1715,AVR58_RS08570,,-1,WP_010947405.1,phosphoribosylformylglycinamidine synthase subunit,42

G1FLP-1759,AVR58_RS08795,,-1,WP_010947449.1,GMP synthase (glutamine-hydrolyzing),525,[1931607:1933080](-),1

G1FLP-1760,AVR58_RS08800,,-1,WP_010947450.1,IMP dehydrogenase,490,[1931607:1933080](-),1

G1FLP-1794,AVR58_RS08970,,-1,WP_010947483.1,flagellar protein export ATPase FliI,450,[1972063:1972063]

G1FLP-1811,AVR58_RS09055,,1,WP_010947500.1,ribonucleoside-diphosphate reductase subunit alpha,476,[74425:74425]

G1FLP-1812,AVR58_RS09060,,1,WP_010947501.1,ribonucleotide-diphosphate reductase subunit beta,476,[74425:74425]

G1FLP-2055,AVR58_RS10285,,-1,WP_010947726.1,guanylate kinase,209,[2260740:2261370](-),2.7.4

G1FLP-2309,AVR58_RS11555,,-1,WP_010947958.1,GMP synthase,232,[2561731:2562430](-),6.3.5.2

G1FLP-2393,AVR58_RS11975,,1,WP_010948038.1,amidophosphoribosyltransferase,199,[2646004:2646004]

G1FLP-2927,AVR58_RS14660,,1,WP_010948530.1,guanosine monophosphate reductase,337,[32280:32280]

G1FLP-3076,AVR58_RS15415,,-1,WP_010948665.1,ATP synthase epsilon chain,140,[3386196:338660]

G1FLP-3077,AVR58_RS15420,,-1,WP_010948666.1,ATP synthase subunit beta,458,[3386630:3388000]

G1FLP-3078,AVR58_RS15425,,-1,WP_010948667.1,ATP synthase subunit gamma,288,[3388019:3388019]

G1FLP-3079,AVR58_RS15430,,-1,WP_010948668.1,ATP synthase subunit alpha,517,[3388975:3390500]

G1FLP-3080,AVR58_RS15435,,-1,WP_010948669.1,FOF1 ATP synthase subunit delta,185,[3390546:3390546]

G1FLP-3081,AVR58_RS15440,,-1,WP_010948670.1,ATP synthase subunit B,156,[3391090:3391561](+),4.

G1FLP-3082,AVR58_RS15445,,-1,WP_010948671.1,FOF1 ATP synthase subunit C,91,[3391612:3391800]

G1FLP-3083,AVR58_RS15450,,-1,WP_010948672.1,FOF1 ATP synthase subunit A,292,[3391928:3392000]

G1FLP-3084,AVR58_RS15455,,-1,WP_010948673.1,ATP synthase subunit I,131,[3392757:3393153](-),4.

amide formyltransferase/IMP cyclohydrolase PurH,529,[501694:503284](-),2.1.2.3,"Nucleotide Metabolism"

2,[1870134:1870713](-),2.1.2.2,"Nucleotide Metabolism, Metabolism of Cofactors and Vitamins"

:1973416](-),3.6.3.14,"Chemotaxis / motility / cell division, Signal transduction / other regulatory functions"

abolism, Metabolism of Cofactors and Vitamins"