S5 Table . Genes for nucleic acids metabolism up- and down-regulated by GR-SU

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| Gene IDa | Fold changeb | *P* value | characteristics |
| Down |
| MW0364 | 0.23 | 0.037 | xanthine phosphoribosyltransferase |
| MW0366 | 0.25 | 0.005 | inositol-monophosphate dehydrogenase |
| MW0694 | 0.26 | 0.020 | ribonucleoside-diphosphate reductase minor subunit |
| MW0693 | 0.30 | 0.030 | hypothetical protein, similar to comF operon protein 3 |
| MW0367 | 0.30 | 0.002 | GMP synthase(*quaA*) |
| MW0692 | 0.37 | 0.033 | NrdI protein involved in ribonucleotide reductase function |
| MW1286 | 0.42 | 0.019 | hippurate hydrolase |
| MW0450 | 0.44 | 0.002 | hypothetical protein, similar to 4-diphosphocytidyl-2-C-methyl-D-erythritol kinase |
| MW0837 | 0.47 | 0.012 | hypothetical protein, similar to polyribonucleotide nucleotidyltransferase |
| MW1157 | 0.49 | 0.023 | polyribonucleotide nucleotidyltransferase |
| MW1584 | 0.49 | 0.005 | GTP pyrophosphokinase |
| Up |
| MW0110 | 3.74 | 0.0003 | purine nucleoside phosphorylase |

aBased on the sequence of MW2 strain (accession no: NC\_003923.1).

b”UP” represents GR-SU decreased the expression at more than 2 fold compared with that without treatment, while “Down” represent 2 fold lower expression in the mutant. Fold change represents “average ”.

c*P* value were determined by student t-test using Cyber-T