| | mRNA | Protein |
|---|---|---|
| lowMg | 1. Ribosome<br>2. Purine metabolism<br>3. ABC transporters<br>4. Pyrimidine metabolism<br>5. Aminoacyl−tRNA biosynthesis | |
| highMg | 1. Ribosome<br>2. ABC transporters<br>3. Oxidative phosphorylation<br>4. Valine, leucine and isoleucine biosynthesis<br>5. Phenylalanine, tyrosine and tryptophan biosynthesis | 1. Two−component system<br>2. Butanoate metabolism<br>3. Valine, leucine and isoleucine degradation<br>4. Terpenoid backbone biosynthesis<br>5. Amino sugar and nucleotide sugar metabolism |
| highNa | 1. Flagellar assembly<br>2. ABC transporters<br>3. Pentose phosphate pathway<br>4. Glycine, serine and threonine metabolism<br>5. Two−component system | 1. Two−component system<br>2. Purine metabolism<br>3. ABC transporters<br>4. Pyrimidine metabolism<br>5. Ribosome |
| glycerol | 1. Ribosome<br>2. Purine metabolism<br>3. ABC transporters<br>4. Aminoacyl−tRNA biosynthesis<br>5. Pyrimidine metabolism | 1. Aminoacyl−tRNA biosynthesis<br>2. Pyrimidine metabolism<br>3. Phenylalanine, tyrosine and tryptophan biosynthesis<br>4. Purine metabolism<br>5. Cysteine and methionine metabolism |
| gluconate | | 1. Ribosome |
| lactate | 1. Pyruvate metabolism<br>2. Phosphotransferase system (PTS)<br>3. Glycolysis / Gluconeogenesis<br>4. Fructose and mannose metabolism<br>5. Arginine and proline metabolism | 1. ABC transporters<br>2. Citrate cycle (TCA cycle)<br>3. Pyruvate metabolism<br>4. Ribosome<br>5. Butanoate metabolism |