A

	mRNA	Protein
lowMg	1.Ribosome 2.Purine metabolism	
highMg	1.Flagellar assembly 2.Sulfur metabolism 3.Nitrogen metabolism	1.Biosynthesis of siderophore group nonribosomal peptides 2.Two-component system 3.Pyruvate metabolism
highNa	1.Flagellar assembly	1.Biosynthesis of amino acids 2.Biosynthesis of secondary metabolites 3.Biosynthesis of antibiotics 4.Metabolic pathways 5.Phenylalanine, tyrosine and tryptophan biosynthesis
glycerol	1.Ribosome 2.Biosynthesis of antibiotics	
gluconate	1.Pentose phosphate pathway	1.Biosynthesis of siderophore group nonribosomal peptides
lactate	1.Pyruvate metabolism 2.Ribosome	1.Citrate cycle (TCA cycle) 2.Pyruvate metabolism 3.Carbon metabolism

B

	mRNA	Protein
lowMg		
highMg	1.Biosynthesis of siderophore group nonribosomal peptides	
highNa	1.Pyruvate metabolism 2.Pentose and glucuronate interconversions 3.Fructose and mannose metabolism 4.Glycolysis / Gluconeogenesis	1.Biosynthesis of amino acids 2.Biosynthesis of secondary metabolites 3.Biosynthesis of antibiotics 4.Metabolic pathways 5.Phenylalanine, tyrosine and tryptophan biosynthesis
glycerol		1.Biosynthesis of siderophore group nonribosomal peptides
gluconate		1.Biosynthesis of siderophore group nonribosomal peptides
lactate		1.Citrate cycle (TCA cycle) 2.Biosynthesis of siderophore group nonribosomal peptides 3.Pyruvate metabolism