

rank

mRNA		Protein		lowMg	Exp
	Ribosome				
	Purine metabolism				
	ABC transporters				
	Pyrimidine metabolism				
	Aminoacyl–tRNA biosynthesis				
				highMg	Exp
	Ribosome	Two–component system			
	ABC transporters	Butanoate metabolism			
	Oxidative phosphorylation	Valine, leucine and isoleucine degradation			
	Valine, leucine and isoleucine biosynthesis	Terpenoid backbone biosynthesis			
	Phenylalanine, tyrosine and tryptophan biosynthesis	Amino sugar and nucleotide sugar metabolism			
				highNa	Exp
	Flagellar assembly	Two–component system			
	ABC transporters	Purine metabolism			
	Pentose phosphate pathway	ABC transporters			
	Glycine, serine and threonine metabolism	Pyrimidine metabolism			
	Two–component system	Ribosome			
				glycerol	Exp
	Ribosome	Aminoacyl–tRNA biosynthesis			
	Purine metabolism	Pyrimidine metabolism			
	ABC transporters	Phenylalanine, tyrosine and tryptophan biosynthesis			
	Aminoacyl–tRNA biosynthesis	Purine metabolism			
	Pyrimidine metabolism	Cysteine and methionine metabolism			
				gluconate	Exp
		Ribosome			
				lactate	Exp
	Pyruvate metabolism	ABC transporters			
	Phosphotransferase system (PTS)	Citrate cycle (TCA cycle)			
	Glycolysis / Gluconeogenesis	Pyruvate metabolism			
	Fructose and mannose metabolism	Ribosome			
	Arginine and proline metabolism	Butanoate metabolism			
				lowMg	Sta
	Oxidative phosphorylation				
	Pyruvate metabolism				
	Citrate cycle (TCA cycle)				
	Arginine and proline metabolism				
	Protein export				
				highMg	Sta
	Ribosome	Flagellar assembly			
	ABC transporters				
	Purine metabolism				
	Glycine, serine and threonine metabolism				
	Valine, leucine and isoleucine biosynthesis				
				highNa	Sta
	Pyruvate metabolism	Ribosome			
	Amino sugar and nucleotide sugar metabolism	Alanine, aspartate and glutamate metabolism			
	Glycolysis / Gluconeogenesis	Purine metabolism			
	Citrate cycle (TCA cycle)	Phenylalanine, tyrosine and tryptophan biosynthesis			
	Fructose and mannose metabolism	Aminoacyl–tRNA biosynthesis			
				glycerol	Sta
	Arginine and proline metabolism	Biosynthesis of siderophore group nonribosomal peptides			
	ABC transporters	Arginine and proline metabolism			
	Aminoacyl–tRNA biosynthesis				
	Starch and sucrose metabolism				
				gluconate	Sta
		Pentose and glucuronate interconversions			
		Pentose phosphate pathway			
		ABC transporters			
				lactate	Sta
	Oxidative phosphorylation	Citrate cycle (TCA cycle)			
	Ribosome	Propanoate metabolism			
	Glycine, serine and threonine metabolism	ABC transporters			
	Valine, leucine and isoleucine biosynthesis	Butanoate metabolism			
	Citrate cycle (TCA cycle)	Oxidative phosphorylation			
condition		condition			

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