



Reaction	Enzyme	Encoded in plasmid/strain number						
		a)	252	12	36	71		
		b)	134	135	136	137	139	142
1: ATP+GTP → (p)ppGpp	<i>Escherichia coli</i> RelA			✓				✓
2: ATP+ATP → cdiAMP	<i>Bacillus subtilis</i> YbbP				✓			
3: GTP+GTP → cdiGMP	<i>Caulobacter crecentus</i> DgcA					✓		
4: ppGpp → GDP+ppi	<i>Homo sapiens</i> Mesh1p						✓	✓

Summary of the centromeric plasmids generated in this study for the synthesis and degradation of bacterial nucleotides in *S. cerevisiae*.