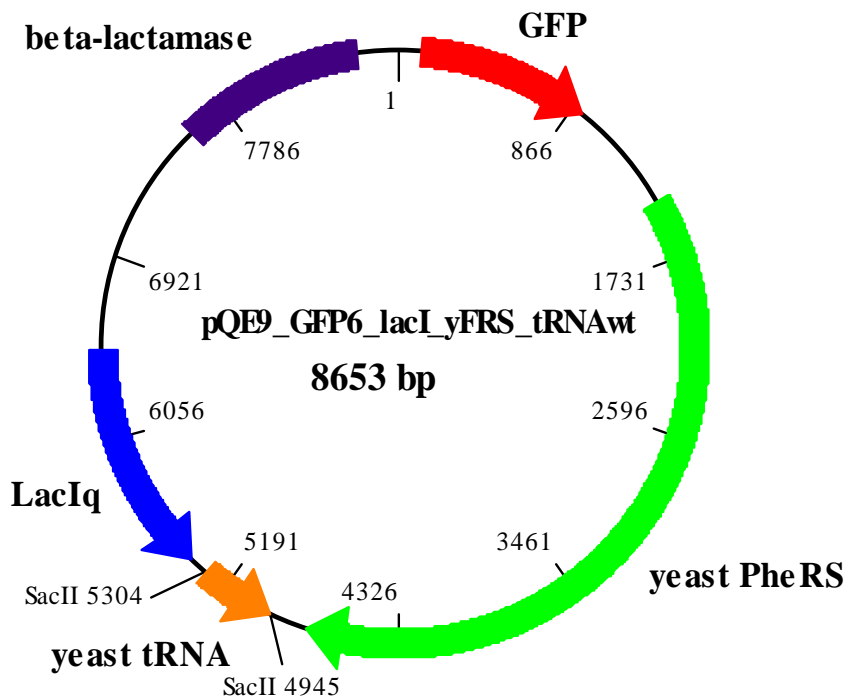


Appendix II

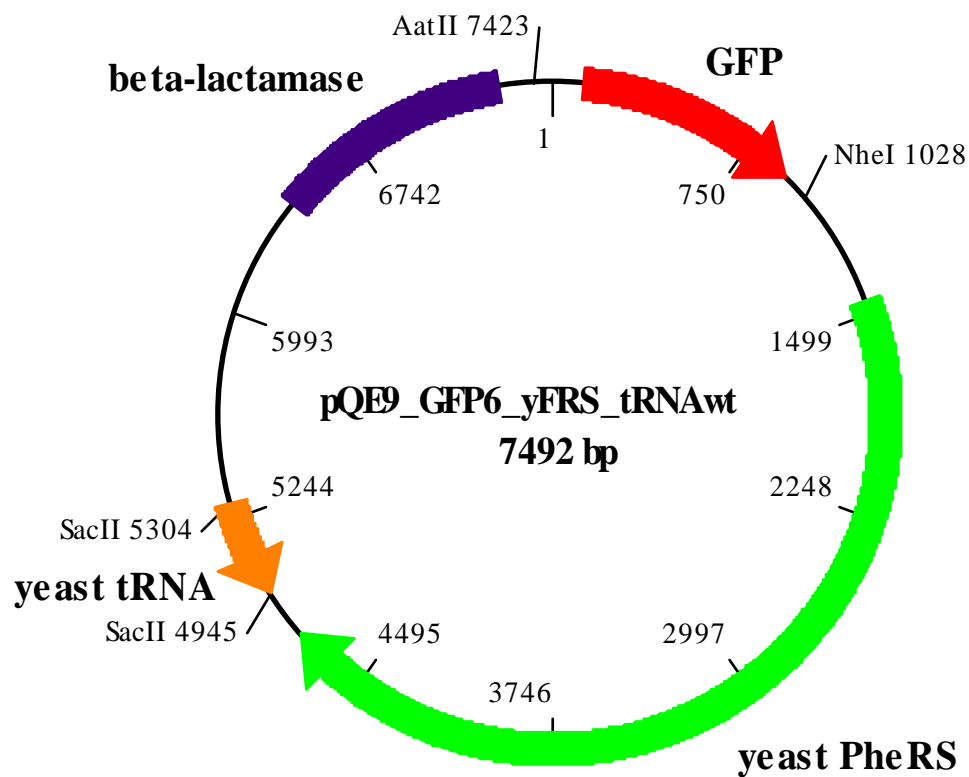
PLASMID MAPS

1. pQE9_GFP6_lacI_yFRS_tRNAwt



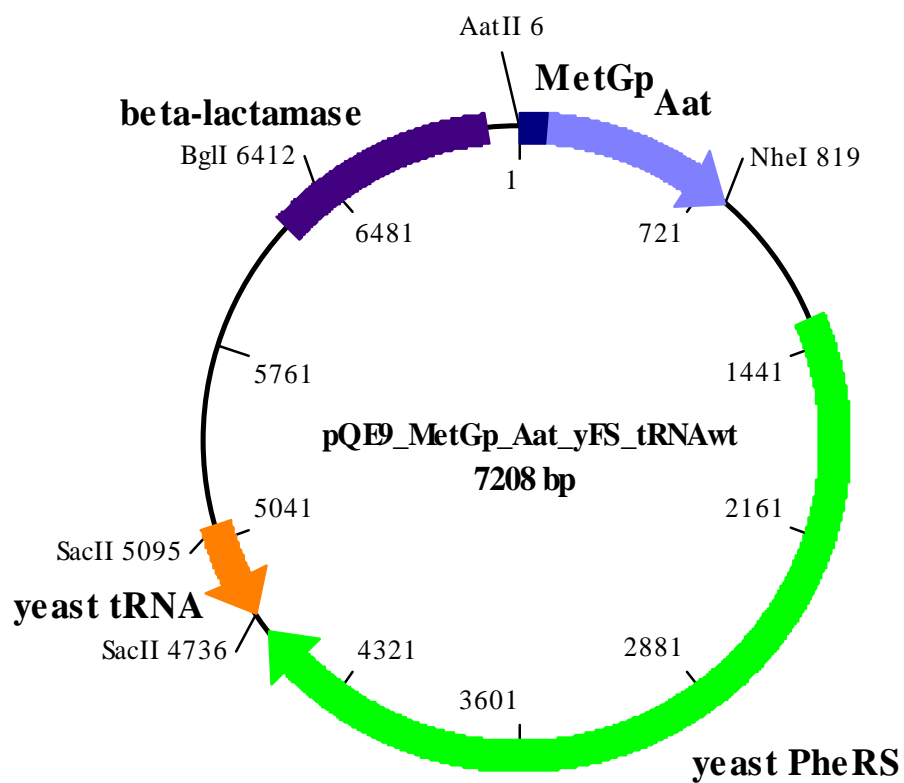
His-GFP6	115 – 921 bp
yPheRS alpha subunit	1449 - 2970 bp
yPheRS beta subunit	2987 - 4774 bp
PheUp-tRNA-PheUterm	4945 – 5304 bp
beta-lactamase	7594 - 8453 bp
lacI	5391 - 6475 bp

2. pQE9_GFP6_yFRS_tRNAwt



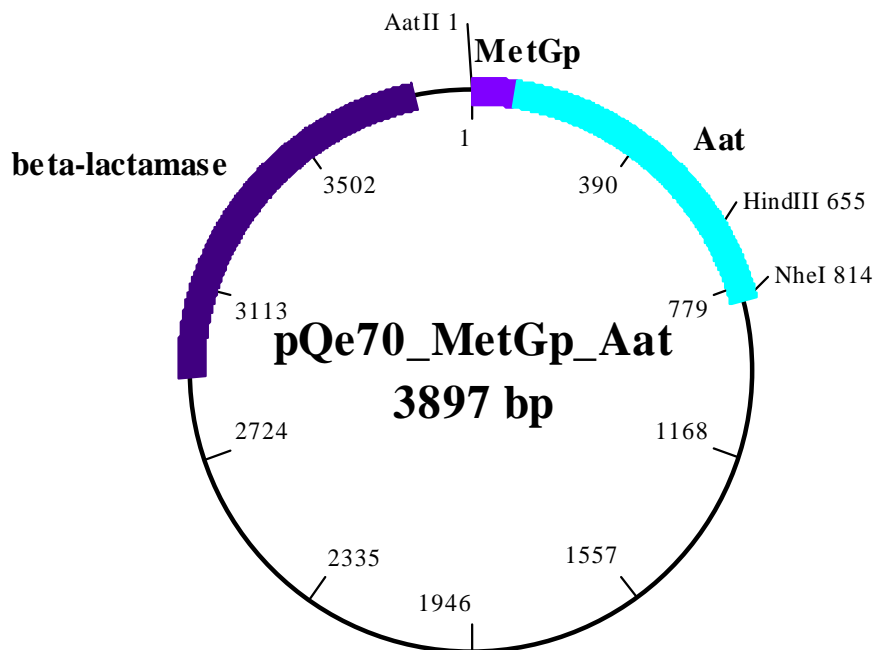
His-GFP6	115 – 921 bp
yPheRS alpha subunit	1449 - 2970 bp
yPheRS beta subunit	2987 - 4774 bp
PheUp-tRNA-PheUterm	4945 – 5304 bp
beta-lactamase	6433-7292 bp

3. pQE9_MetGp_Aat_yFRS_tRNAwt



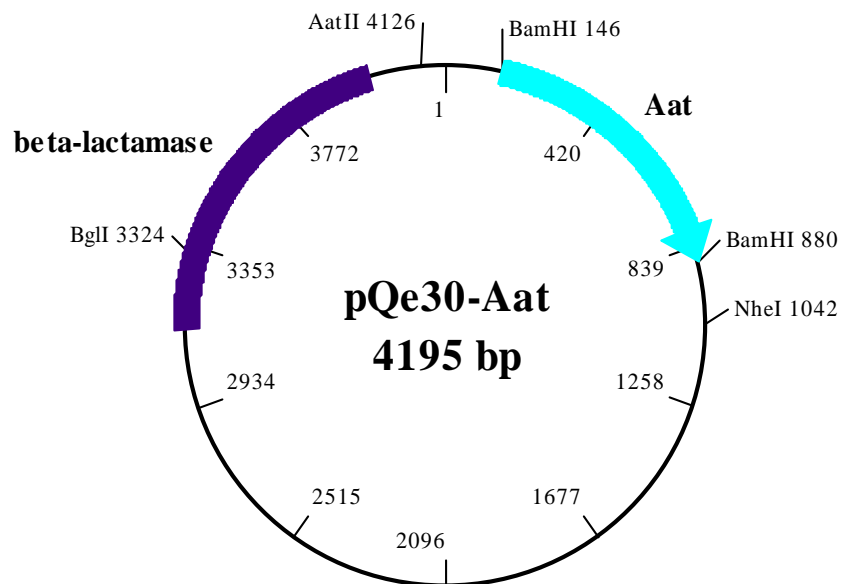
L,F-transferase	104 – 819 bp
Yeast PheRS	1340 – 4665 bp
Yeast tRNA ^{Phe}	4736 – 5095 bp
Beta-lactamase	6264 - 7083 bp

4. pQE70_MetGp_Aat



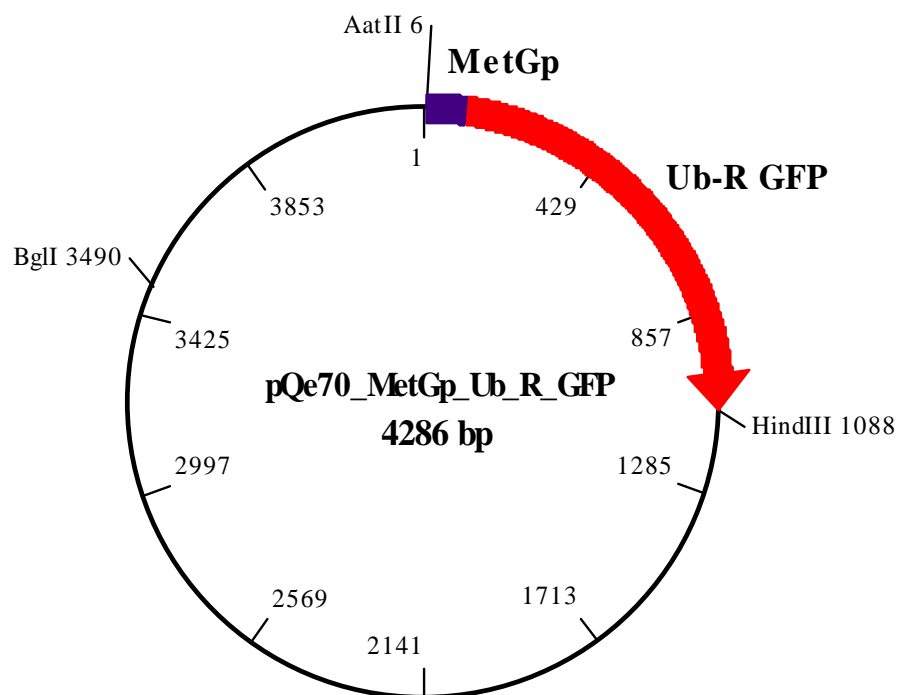
MetG promoter	1 – 97 bp
L,F-transferase	98 – 814 bp
Beta-lactamase	2908 - 3767 bp

5. pQE30Aat



L,F-transferase	146 – 880 bp
Beta-lactamase	3136-3995 bp

6. pQE70_MetGp_Ub_R_GFP



MetG promoter	6 – 103 bp
Ub-R-GFP	104-1088 bp