

Additional File 5: Mutations observed in starting strains grown in LB rich medium

Gene / Keio Strain	Mutation(s)	Gene Mutated	Annotation
carA	IS2 (+) +5 bp	lit	Coding (769-773 / 894 nt)
cysK	9 bp deletion	lrhA	Coding (85-93/939 nt)
metC	+C	yifE	Coding (150/339)
ptsI	A->G	trpL/yciV	Intergenic (-54/-84)
	(ATCAGCC)2->1	cyaA	Coding (1436-1442/2547 nt)