Supplementary Table S1 *E. coli* mutant strains

Supplementary Table S1 E. coli mutant strains			
Strain	Genotype	Source	M9 supplement
MG1655	Wild type	Lab collection	As required
JW0195-1	F-, Δ (araD-araB)567, Δ metN724::kan, Δ lacZ4787(::rrnB-3), λ ^T , rph-1, Δ (rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	L-methionine
JW3911-1	F-, Δ(araD-araB)567, ΔlacZ4787(::rrnB-3), λ̄, rph-1, Δ(rhaD-rhaB)568, ΔmetL727::kan, hsdR514	E. coli Genetic Stock Center	L-methionine
JW1733-1	F-, Δ (araD-araB)567, Δ lacZ4787(::rrnB-3), λ -, Δ astE742::kan, rph-1, Δ (rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	L-arginine
JW2732-1	F-, Δ(araD-araB)567, ΔlacZ4787(::rrnB-3), λ̄, ΔcysH764::kan, rph-1, Δ(rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	L-cysteine
JW3331-2	F-, Δ (araD-araB)567, Δ lacZ4787(::rrnB-3), λ , Δ cysG776::kan, rph-1, Δ (rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	L-cysteine
JW3878-2	F-, Δ (araD-araB)567, Δ lacZ4787(::rrnB-3), λ -, rph-1, Δ (rhaD-rhaB)568, Δ rhaT767::kan, hsdR514	E. coli Genetic Stock Center	L-rhamnose monohydrate
JW3731-1	F-, Δ (araD-araB)567, Δ lacZ4787(::rrnB-3), λ , rph-1, Δ rbsK781::kan, Δ (rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	D-ribose
JW0740-3	F-, Δ(araD-araB)567, ΔlacZ4787(::rrnB-3), ΔgalK729::kan, λ ⁻ , rph-1, Δ(rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	D-galactose
JW5628-1	F-, Δ(araD-araB)567, ΔlacZ4787(::rrnB-3), λ̄, rph-1, ΔdgoA729::kan, Δ(rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	D-galactose
JW2388-1	F-, Δ (araD-araB)567, Δ lacZ4787(::rrnB-3), λ , Δ mntH729::kan, rph-1, Δ (rhaD-rhaB)568, hsdR514	E. coli Genetic Stock Center	Ferrous sulphate heptahydrate