

Development of a Microtiter Plate Assay for Real Time Analysis of T7 Bacteriophage Mediated Lysis of *Escherichia coli*

David Cho, Irene Lau, Michael Li, Dave Zhu

Department of Microbiology & Immunology, University of British Columbia

SUPPLEMENTAL MATERIAL

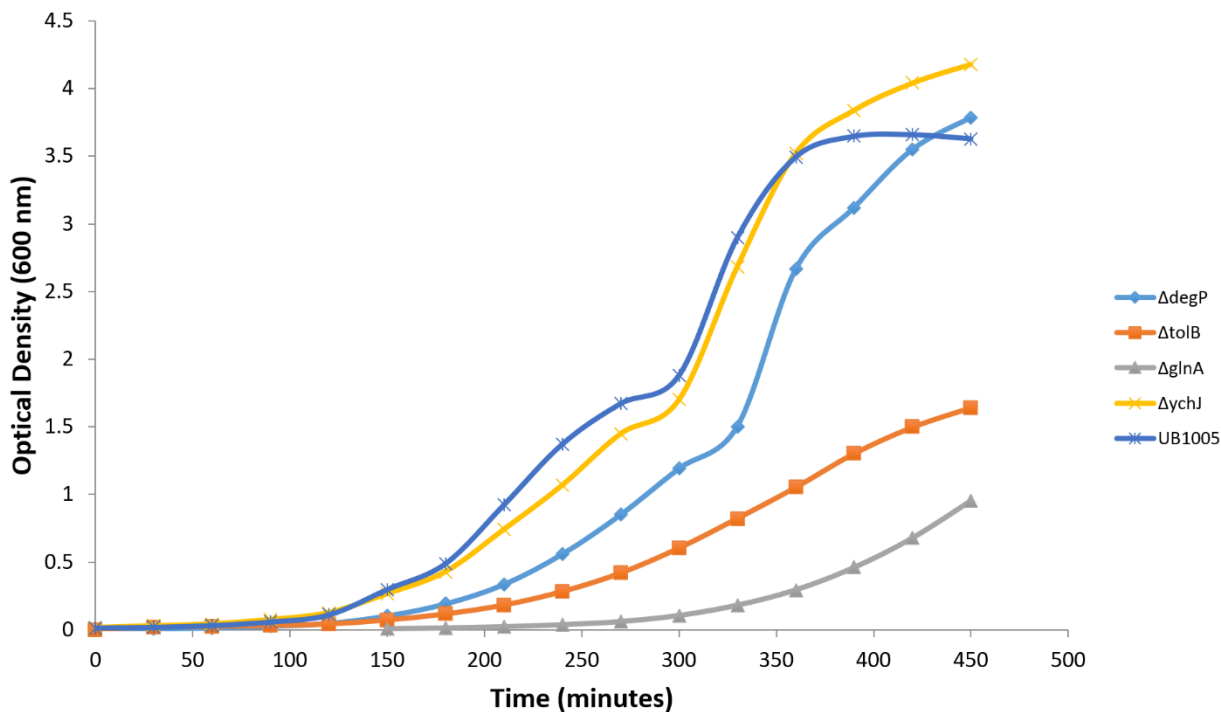


FIG. S1 Growth curve of the four mutant strains and wild-type UB1005. Cultures grown in 30mL of M9 minimal media. OD₆₀₀ measured at 30 minute intervals. *ΔychJ* and *ΔdegP* mutants and UB1005 grow at similar rates. *ΔglnA* and *ΔtolB* have a slower growth rate than the other strains.

TABLE S1 Sequencing results of the PCR products containing the kanamycin cassette from each of the four mutant strains. **A)** The Sanger sequencing results from each sample were input into NCBI BLAST to confirm sequence identity with the pKD13 template vector that was used to create the knockouts. **B)** Sequences of the PCR products from each sample were matched with the primers that were used to create the knockouts. Highlighted sequences indicate the primer sequence that matches the respective mutant samples. Bolded sequences indicate sequence derived from the pKD13 template vector used to create the knockouts. (<https://cgsc2.biology.yale.edu/KeioList.php>)

A.

Sample (sample-primer)	Query Cover	Identity
JW3841-F	73%	99%
JW3841-R	80%	99%
JW0157-F	80%	100%
JW0157-R	76%	99%
JW5100-F	81%	99%
JW5100-R	72%	99%
JW1221-F	83%	99%
JW1221-R	71%	99%

B.

Strain Designation	Primer Sequence Used to Create Knockout	Sequence Match (sample-primer)
JW3841-1	AGATTTTCGTTACCACGACGACCATGACCAATCCAGGAGA GTTAAAGTATGATTCCGGGGATCCGTCGACC	JW3841-R
	GCGAAAAGTTTCCACGGCAACTAAAACACTTAGACGCTG TAGTACAGCTCTGTAGGCTGGAGCTGCTTCG	JW3841-F
JW0157-1	GAAGAACACAGCAATTTTTCGTTATCTGTTAATCGAGAC TGAAATACATGATTCCGGGGATCCGTCGACC	JW0157-F
	TCCCGTTTTTCAGGAAGGGGTTGAGGGAGATTACTGCATT AACAGGTAGATTGTAGGCTGGAGCTGCTTCG	JW0157-R
JW5100-1	ATTCTGCTAAATTATCGTGGCCATCGGTCCAGATAAGG GAGATATGATGATTCCGGGGATCCGTCGACC	JW5100-F
	TGATTCCTTACTATTCAATTAATTATTATCACAGATACG GCGACCAGGCTGTAGGCTGGAGCTGCTTCG	JW5100-R
JW1221-3	GAGTGTTTGCTAAACCGTACCGTCAACCATTATTGGCCGC AGCACTTTTATTCCGGGGATCCGTCGACC	JW1221-R
	CTACTCAGGCGGTTAATACGCCGTTATTGTTTCCAGGGAG ATTATTTGTGTGTAGGCTGGAGCTGCTTCG	JW1221-F