

Supporting Information

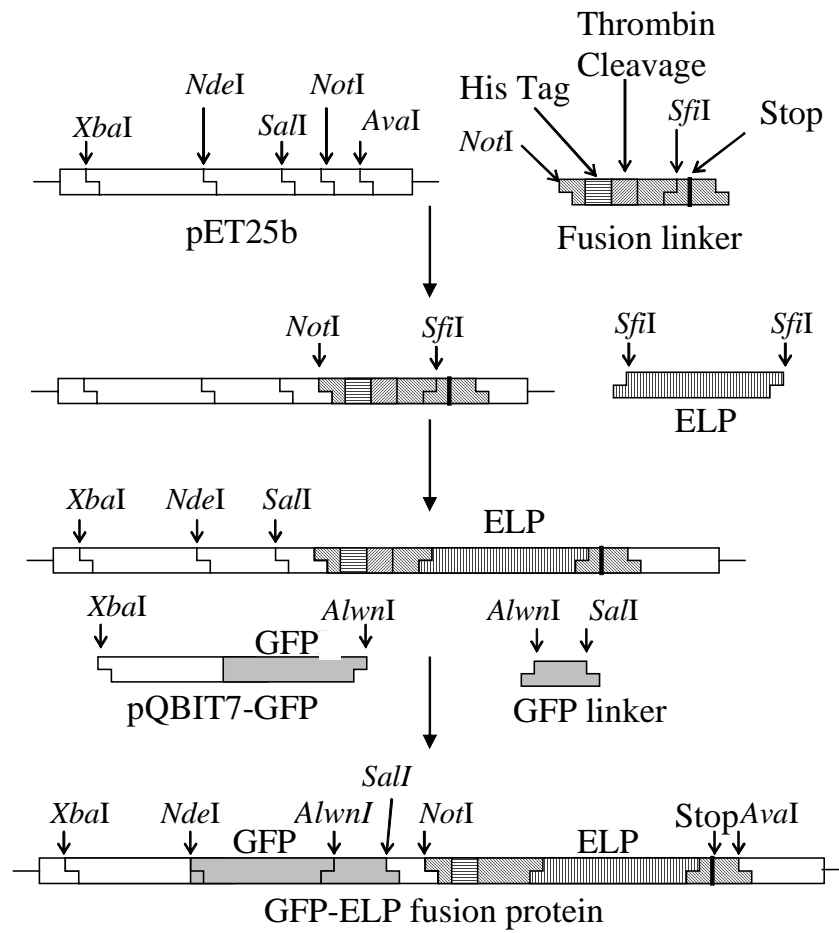


Figure S1. Detailed schematic of the construction of GFP-ELP fusion vector.

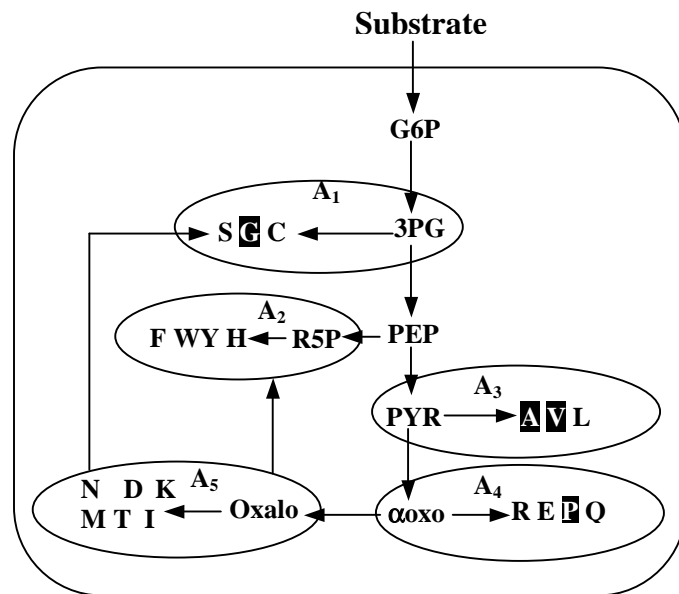


Figure S2. Amino acid metabolic pathways of a recombinant *E. coli* cell. Redrawn from (18). Amino acid family and precursors: A₁: serine, A₂: aromatic and histidine, A₃: alanine, A₄: glutamine, A₅: aspartate. Other species are: G6P: glucose-6-phosphate, R5P: ribulose-5-phosphate, 3PG: 3-phosphoglycerate, PEP: phosphoenolpyruvate, PYR: pyruvate, αoxo: α-oxoglutarate, Oxalo: oxaloacetate, and individual amino acids are represented by their standard one letter code. Amino acids that are abundant in ELPs are highlighted.