Cofactor recycling for co-production of 1,3-propanediol and glutamate by metabolically engineered *Corynebacterium glutamicum*

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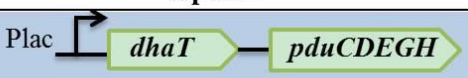
Supplementary Table 1：Primers used for the construction of *C. glutamicum* mutants

Name	Sequence	Purpose
11-F	CTATGACATGATTACGAATTAAGGAGATATACCATGAACAACTTTAATCTGCAC	To amplify gene of yqhD
11-R	ATATCTCCTTTTAGCGGGCGGCTTCG	
12-F	CGCCCGCTAAAAGGAGATATACCATGAGATCGAAAAGATTTGAAG	To amplify gene of pduCDEGH
12-R	TGCCTGCAGGTCGACTCTAGTTAAGCATGGCG	
13-F	ACGAATTAAGGAGATATACCATGAGCTATCGTATGTTTGATTATCTGGTG	To amplify gene of dhaT
13-R	ATCTCATGGTATATCTCCTTTCAGAATGCCTGGCGGAAAA	
14-F	AAGGAGATATACCATGAGATCGAAAAGATTTGAA	To amplify the backbone of pEC-yqhD-pdu
14-R	GGTATATCTCCTTAATTCGTAATCATGTCATAGCTGT	
15-F	TATACGAAGCCGCCCGCTAAGAATTCCAAAAGCTGGGTACCTCTATCTG	To amplify the H36 promoter from plasmid pEC-H36
15-R	TCAAATCTTTTCGATCTCATGGATCCCATGCTACTCCTACC	
16-F	ATGAGATCGAAAAGATTTGAAGCACTG	To amplify the backbone of pEC-yqhD-pdu
16-R	TTAGCGGGCGGCTTCGTATAT	
17-F	TATATACGAAGCCGCCCGCTAAGATTTCAGGATGCCGATAATGAACCAG	To amplify the gene of glpF
17-R	TAGAGGTACCCAGCTTTTGGTTACTCATCGATACCGCATTCGCAC	

Supplementary Table 2. Operon structure in different expression vectors.

Strains	Plasmid	Operon
PT01	pEC-dhaT-pdu	
PY01	pEC-yqhD-pdu	
PY02	pEC-yqhD-H36-pdu	
PY03	pEC-yqhD-glpF-H36-pdu