

Resource Summary Report

Generated by SPARC SAWG on Aug 15, 2026

EH1

RRID:Addgene_102804

Type: Plasmid

Proper Citation

RRID:Addgene_102804

Plasmid Information

URL: <http://www.addgene.org/102804>

Proper Citation: RRID:Addgene_102804

Insert Name: none

Bacterial Resistance: None

Defining Citation: [PMID:33289521](https://pubmed.ncbi.nlm.nih.gov/33289521/)

Vector Backbone Description: Vector Backbone:none; Vector Types:; Bacterial Resistance:None

Comments: This work is supported in part by JSPS-NSF International Collaborations in Chemistry (ICC) research grant. Genotype= thrC ilvA Precursor strain = RF2 Modified from the parent Escherichia coli BL21(DE3) strain Selective amino acid labeling (and/or requirement) = Thr, Ile EH1 requires L-Thr and L-Ile for growth in M63 minimal medium Please visit the following links for additional details on this strain and selective amino acid labeling- <http://www2.nms.ac.jp/fesworld/EcoliStrains.html> <http://www2.nms.ac.jp/fesworld/EcoliStrainsSuppl.html> Note that these strains are NOT competent cells and one needs to make them competent before use. Supplemental documents contain a list of PCR primers used for verification of each knocked-out gene as well as an image showing PCR results for this strain. Supporting References: Lin, M. T., Fukazawa, R., Miyajima-Nakano, Y., Matsushita, S., Choi, S. K., Iwasaki, T., and Gennis, R. B. (2015) Escherichia coliauxotroph host strains for amino acid-selective isotope labeling of recombinant proteins. Methods Enzymol. (Isotope Labeling of Biomolecules - Labeling Methods), 565, 45-66. Iwasaki, T., Fukazawa, R., Miyajima-Nakano, Y., Baldansuren, A., Matsushita, S., Lin, M. T., Gennis, R. B., Hasegawa, K., Kumasaka, T., and Dikanov, S. A. (2012) Dissection of hydrogen bond interaction network around an iron-sulfur cluster by site-specific isotope labeling of hyperthermophilic archaeal Rieske-type ferredoxin. J. Am. Chem. Soc. 134, 19731-19738. Lin, M. T., Sperling, L. J., Frericks Schmidt, H. L., Tang, M., Samoilova, R. I., Kumasaka, T., Iwasaki, T., Dikanov, S. A., Rienstra, C. M., and Gennis, R. B. (2011) A rapid and robust method for selective isotope

labeling of proteins. Methods 55, 370-378.

Plasmid Name: EH1

Record Creation Time: 20220422T221457+0000

Record Last Update: 20260815T080026+0000

Ratings and Alerts

No rating or validation information has been found for EH1.

No alerts have been found for EH1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.