

# Resource Summary Report

Generated by [NIF](#) on Aug 9, 2026

## pESC-leu2d(empty)

RRID:Addgene\_20120

Type: Plasmid

### Proper Citation

RRID:Addgene\_20120

### Plasmid Information

**URL:** <http://www.addgene.org/20120>

**Proper Citation:** RRID:Addgene\_20120

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:16612385](#)

**Vector Backbone Description:** Backbone Marker:stratagene; Backbone Size:0; Vector Backbone:pESC-leu2; Vector Types:Yeast Expression, Synthetic Biology; Bacterial Resistance:Ampicillin

**Plasmid Name:** pESC-leu2d(empty)

**Record Creation Time:** 20220422T222050+0000

**Record Last Update:** 20260808T081358+0000

### Ratings and Alerts

No rating or validation information has been found for pESC-leu2d(empty).

No alerts have been found for pESC-leu2d(empty).

### Data and Source Information

**Source:** [Addgene](#)

### Usage and Citation Metrics

We found 8 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [NIF](#) .

Hong CY, et al. (2026) A physically linked CYP720B-diterpene synthase gene pair controls ferruginol biosynthesis in *Taiwania cryptomerioides* and reveals conserved genome organization in Cupressidae. *Plant physiology and biochemistry : PPB*, 232, 111174.

Scesa PD, et al. (2025) Pseudopterosin Biosynthesis: Unravelling a Decades Old Problem in Animal Specialized Metabolism. *Journal of the American Chemical Society*, 147(4), 3072.

Scesa PD, et al. (2023) Biomimetic Approach to Diverse Coral Diterpenes from a Biosynthetic Scaffold. *Angewandte Chemie (International ed. in English)*, 62(39), e202311406.

Xu Y, et al. (2020) Kinetic improvement of an algal diacylglycerol acyltransferase 1 via fusion with an acyl-CoA binding protein. *The Plant journal : for cell and molecular biology*, 102(4), 856.

Peng H, et al. (2019) Flow-cytometry-based physiological characterisation and transcriptome analyses reveal a mechanism for reduced cell viability in yeast engineered for increased lipid content. *Biotechnology for biofuels*, 12, 98.

Wang L, et al. (2018) Efficient CRISPR-Cas9 mediated multiplex genome editing in yeasts. *Biotechnology for biofuels*, 11, 277.

Peng H, et al. (2018) Metabolic engineering of lipid pathways in *Saccharomyces cerevisiae* and staged bioprocess for enhanced lipid production and cellular physiology. *Journal of industrial microbiology & biotechnology*, 45(8), 707.

Hamazaki T, et al. (2011) Functional expression of human adenine nucleotide translocase 4 in *Saccharomyces cerevisiae*. *PloS one*, 6(4), e19250.