

## Datasheet for HEK293T/biotin ligase Stable Cell line

**Catalog Number:** SL241

**Product:** Human cell line HEK293T stably expressing biotin ligase

**Description:** This stable cell line expresses Biotin ligase. Biotin ligase (BirA) is extensively utilized in protein engineering and molecular biology research. Their work in studying protein interactions primarily relies on proximity labeling technology. This technique leverages the catalytic properties of biotin ligase to covalently attach a small biomolecule marker—biotin—to proteins interacting with target proteins.

**Quantity:** 1 vial of  $2 \times 10^6$  cells; frozen

**Shipping Conditions:** Dry ice

**Storage Conditions:** Liquid nitrogen vapor phase. Remove the item from the dry ice packaging and check all items for damage and leakage. Place immediately into storage at or below  $-140^{\circ}\text{C}$ , preferably into the liquid nitrogen vapor phase until use.

**Transgene**

**Integration:**



**Source of Parental line:**

HEK293T  
Organism *Homo sapiens*, human  
Tissue kidney; Embryo  
Morphology epithelial

**Quality Control:** >95% viability before freeze. All cells were tested and found to be free of mycoplasma, bacteria, viruses, and other toxins.

**Safety Instructions:** To ensure safety, protective gloves, clothing and a face mask should be worn when handling frozen vials. Some leakage may occur into the vial during storage. The liquid nitrogen will be converted to gas upon thawing. Due to the nature of nitrogen gas, pressure may build within the vial and possibly result in the vial exploding or losing its cap. This may cause flying debris.

**Thawing procedure:** The vial of cells should be thawed in a 37°C water bath with gentle agitation. For optimal performance, the vial should be thawed in under two minutes. Ensure that the cap of the vial did not loosen upon thawing and re-tighten as needed. Spray the vial with 70% EtOH and wipe off. Repeat. Using aseptic technique, add the contents of the vial to 9 mL of complete growth medium (without selection). Centrifuge for 5 min at 125 x g. Aspirate the media, being careful not to disturb the pellet. Resuspend in 10 mL of complete growth medium and place into a culture vessel of your choice. Only add selection to the media after 24 h in culture.

**Culture condition:**

**Complete Growth Medium**

The base medium for this cell line is DMEM. For optimal growth and maintenance of selection, add the following components to the base medium: fetal bovine serum to a final concentration of 10%.

**Selection:** Hygromycin to a final concentration of 150 µg/mL

**Culture temperature:** 37°C with 5% CO<sub>2</sub>

**Subculture:** Replace culture media with selection-free media and incubate for up to 6 h. Rinse the cells with PBS without cations, digest cells with 0.25% (w/v) Trypsin—EDTA (0.53 mM) solution and split at 1:3 to 1:10 ratio.

**Cryopreservation:** Freeze slowly in complete growth medium supplemented with 5% (v/v) DMSO

**Citation of product:** If use of this item results in a publication, please use this information: Human cell line HEK293T stably expressing biotin ligase (SL241; Genecopoeia, Inc, Rockville, MD).

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SL241-DS-061826

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