

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

pRT006.3 L1 dual-luciferase AI retrotransposition reporter

RRID:Addgene_213031

Type: Plasmid

Proper Citation

RRID:Addgene_213031

Plasmid Information

URL: <http://www.addgene.org/213031>

Proper Citation: RRID:Addgene_213031

Insert Name: Tet-On Human LINE-1 (ORFeus-Hs) Firefly + Renilla Luciferase Antisense Intron dual retrotransposition marker

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:38096902](#)

Vector Backbone Description: Backbone Marker:Genscript / Invitrogen; Backbone Size:8859; Vector Backbone:pCEP Puro; Vector Types:Mammalian Expression, Luciferase; Bacterial Resistance:Ampicillin

Comments: The construct is based on the synthetic L1 ORFeus-Hs sequence generated in the lab of Jef Boeke (see W. An et al., Mobile DNA 2, 2011 <https://doi.org/10.1186/1759-8753-2-2>). For integration with Sleeping Beauty such as SB100x (Izsvak lab, Addgene #34879). This vector is similar to pYX056 from An lab, see also: Xie, Y. et al. Cell division promotes efficient retrotransposition in a stable L1 reporter cell line. Mob DNA 4, 10 (2013). <https://doi.org/10.1186/1759-8753-4-10> and Xie, Y., Rosser, J. M., Thompson, T. L., Boeke, J. D. & An, W. Characterization of L1 retrotransposition with high-throughput dual-luciferase assays. Nucleic Acids Res 39, e16 (2011). <https://doi.org/10.1093/nar/gkq1076>

Plasmid Name: pRT006.3 L1 dual-luciferase AI retrotransposition reporter

Record Creation Time: 20240801T080633+0000

Record Last Update: 20260829T082039+0000

Ratings and Alerts

No rating or validation information has been found for pRT006.3 L1 dual-luciferase AI retrotransposition reporter.

No alerts have been found for pRT006.3 L1 dual-luciferase AI retrotransposition reporter.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.