

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

pGREAT3

RRID:Addgene_170891

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/170891>

Proper Citation: RRID:Addgene_170891

Insert Name: E-Luc

Organism: *Pyrearinus termitilluminans* (E-Luc) and *Luciola curciata* (Red-F)

Bacterial Resistance: Spectinomycin

Defining Citation: [PMID:34520169](#)

Vector Backbone Description: Backbone Marker:Diego Orzaez Lab; Backbone Size:2925; Vector Backbone:pDGB1_omega1; Vector Types:Plant Expression, Luciferase, Synthetic Biology; Bacterial Resistance:Spectinomycin

Comments: Encodes both E-Luc and Red-F transcriptional units. Insert can be excised by BsaI digestion. Requires pSOUP for replication in *agrobacterium*. Please visit <https://www.biorxiv.org/content/10.1101/2021.05.26.443018v2> to read the preprint on bioRxiv

Plasmid Name: pGREAT3

Relevant Mutation: c.375C>T silent mutation to remove BbsI site (E-Luc), p.S286Y Red mutant (RedF)

Record Creation Time: 20220422T221954+0000

Record Last Update: 20260725T074240+0000

Ratings and Alerts

No rating or validation information has been found for pGREAT3.

No alerts have been found for pGREAT3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.