

# Resource Summary Report

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

## pcDNA5-FRT-TO-FH-Nsp13\_GC3opt

RRID:Addgene\_157715

Type: Plasmid

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### Proper Citation

RRID:Addgene\_157715

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### Plasmid Information

**URL:** <http://www.addgene.org/157715>

**Proper Citation:** RRID:Addgene\_157715

**Insert Name:** FH-Nsp13\_GC3opt

**Organism:** SARS-CoV-2

**Bacterial Resistance:** Ampicillin

**Defining Citation:** [PMID:33313418](#)

**Vector Backbone Description:** Backbone Marker:Thermo Fisher; Vector Backbone:pcDNA5-FRT-TO; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

**Plasmid Name:** pcDNA5-FRT-TO-FH-Nsp13\_GC3opt

**Relevant Mutation:** codon optimized; gene expression was optimized by increasing the GC3 content within codons

**Record Creation Time:** 20220422T221854+0000

**Record Last Update:** 20260829T075759+0000

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### Ratings and Alerts

No rating or validation information has been found for pcDNA5-FRT-TO-FH-Nsp13\_GC3opt.

No alerts have been found for pcDNA5-FRT-TO-FH-Nsp13\_GC3opt.

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### Data and Source Information

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

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.