

# Resource Summary Report

Generated by [RRID](#) on Sep 2, 2026

## [pEF 1-PNH-4](#)

RRID:Addgene\_20083

Type: Plasmid

### Proper Citation

RRID:Addgene\_20083

### Plasmid Information

**URL:** <http://www.addgene.org/20083>

**Proper Citation:** RRID:Addgene\_20083

**Insert Name:** PNH promoter

**Organism:** *S. lycopersicum*

**Bacterial Resistance:** Kanamycin

**Vector Backbone Description:** Backbone Marker:Invitrogen; Backbone Size:4777; Vector Backbone:pDONRP4-P1R; Vector Types:Synthetic Biology, plant Gateway Donor vector; Bacterial Resistance:Kanamycin

**Plasmid Name:** pEF 1-PNH-4

**Record Creation Time:** 20220422T222049+0000

**Record Last Update:** 20260902T043617+0000

### Ratings and Alerts

No rating or validation information has been found for pEF 1-PNH-4.

No alerts have been found for pEF 1-PNH-4.

### Data and Source Information

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

### Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Estornell LH, et al. (2012) Exploiting Multisite Gateway and pENFRUIT plasmid collection for fruit genetic engineering. *Methods in molecular biology* (Clifton, N.J.), 847, 351.

Estornell LH, et al. (2009) A multisite gateway-based toolkit for targeted gene expression and hairpin RNA silencing in tomato fruits. *Plant biotechnology journal*, 7(3), 298.