

# Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

## pEM-Cas9HF1

RRID:Addgene\_89961

Type: Plasmid

---

### Proper Citation

RRID:Addgene\_89961

---

### Plasmid Information

**URL:** <http://www.addgene.org/89961>

**Proper Citation:** RRID:Addgene\_89961

**Insert Name:** Cas9HF1

**Organism:** S. pyogenes

**Bacterial Resistance:** Chloramphenicol

**Defining Citation:** [PMID:28915012](#)

**Vector Backbone Description:** Vector Backbone:pCas9-CR4; Vector Types:Bacterial Expression; Bacterial Resistance:Chloramphenicol

**Comments:** This Cas9 has been modified to contain the high-fidelity mutations for SpCas9-HF1 from Kleinstiver et al 2016

**Plasmid Name:** pEM-Cas9HF1

**Relevant Mutation:** N497A/R661A/Q695A/Q926A

**Record Creation Time:** 20220422T222611+0000

**Record Last Update:** 20260815T082202+0000

---

### Ratings and Alerts

No rating or validation information has been found for pEM-Cas9HF1.

No alerts have been found for pEM-Cas9HF1.

---

### Data and Source Information

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

---

## Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Collias D, et al. (2020) A positive, growth-based PAM screen identifies noncanonical motifs recognized by the *S. pyogenes* Cas9. Science advances, 6(29), eabb4054.