

Resource Summary Report

Generated by [RRID](#) on Sep 6, 2026

B-HeFSpCas9

RRID:Addgene_126766

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/126766>

Proper Citation: RRID:Addgene_126766

Insert Name: B-HeFSpCas9

Organism: S. pyogenes

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32144253](#)

Vector Backbone Description: Vector Backbone:pX330-like (without U6-sgRNA coding sequence); Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: pCbh-3xFLAG-NLS-Blackjack-HeFSpCas9-NLS (without U6-sgRNA coding sequence, with silent mutations). Blackjack variants cleave both 20nt and 5'-extended 21nt spacer containing sgRNAs. B-HeFSpCas9 shows higher fidelity and target selectivity than its parental increased fidelity variant, HeFSpCas9. The lack of sgRNA expression cassette allows for easy testing of various SpCas9 variants with the same sgRNA expressed from a separate plasmid (e.g. pmCherry_gRNA, Addgene# #80457). For detailed information and plasmid usage, please see the associated publication.

Plasmid Name: B-HeFSpCas9

Relevant Mutation: N497A; R661A; Q695A; K848A; Q926A; K1003A; R1060A; amino acids 1005-1013 replaced with two glycine

Record Creation Time: 20220422T221705+0000

Record Last Update: 20260905T074650+0000

Ratings and Alerts

No rating or validation information has been found for B-HeFSpCas9.

No alerts have been found for B-HeFSpCas9.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.