Resource Summary Report

Generated by SPARC SAWG on Sep 5, 2026

pET-PE2-His (IK1822)

RRID:Addgene_170103
Type: Plasmid

Proper Citation

RRID:Addgene_170103

Plasmid Information

URL: http://www.addgene.org/170103

Proper Citation: RRID:Addgene_170103

Insert Name: bpNLS-nSpCas9(H840A)-MMLVRT-bpNLS-6xHis

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: PMID:33927418

Vector Backbone Description: Backbone Size:5238; Vector Backbone:pET; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Kanamycin

Comments: This is a bacterial codon-optimized SpCas9 (H840A) sequence within pET-28b backbone (Addgene #73018) fused to bipartite NLS, a 33-amino acid linker and the engineered M-MLV RT from the parental pCMV-PE2 plasmid (Addgene #132775). To this construct, a short GS linker and a 6xHis-tag are added to C terminus.

Plasmid Name: pET-PE2-His (IK1822)

Relevant Mutation: Bacteria codon-optimized nSpCas9 (H840A) & M-MLV RT (D200N, T306K, W313F, T330P, L603W)

Record Creation Time: 20220422T221951+0000

Record Last Update: 20260902T042812+0000

Ratings and Alerts

No rating or validation information has been found for pET-PE2-His (IK1822).

No alerts have been found for pET-PE2-His (IK1822).

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Nguyen LT, et al. (2026) Efficient genome editing with chimeric oligonucleotide-directed editing. Nature communications, 17(1).

Vanhooydonck M, et al. (2025) Prime editing outperforms homology-directed repair as a tool for CRISPR-mediated variant knock-in in zebrafish. Lab animal, 54(6), 165.

Nguyen LT, et al. (2024) Efficient Genome Editing with Chimeric Oligonucleotide-Directed Editing. bioRxiv : the preprint server for biology.