

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

pBS513 EF1alpha-cre

RRID:Addgene_11918

Type: Plasmid

Proper Citation

RRID:Addgene_11918

Plasmid Information

URL: <http://www.addgene.org/11918>

Proper Citation: RRID:Addgene_11918

Insert Name: cre

Organism: bacteriophage P1

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:10334853](#)

Vector Backbone Description: Backbone Size:6600; Vector Backbone:na; Vector Types:Mammalian Expression, Cre/Lox; Bacterial Resistance:Ampicillin

Comments: pBS513 carries the wt cre gene under the control of the elongation factor-1 alpha (EF-1 alpha) promoter. The construct carries an upstream Kozak modification to increase expression. The resulting construct provides very strong expression in many different types of cells, including murine embryonic stem (ES) cells. For cell culture work this construct is recommended as a replacement for the CMV-cre construct pBS185 as it provides much stronger expression. However, pBS513 is not suitable for use in transgenic mice as such EF-1 alpha transgene constructs are often inactive in many tissues. Please note: The following enzymes are NOT single cutters: PstI, AflIII, and SacI. We do not suggest using these enzymes for cloning.

Plasmid Name: pBS513 EF1alpha-cre

Record Creation Time: 20220422T221624+0000

Record Last Update: 20260815T080312+0000

Ratings and Alerts

No rating or validation information has been found for pBS513 EF1alpha-cre.

No alerts have been found for pBS513 EF1alpha-cre.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Stone ML, et al. (2024) Agarose hydrogel-mediated electroporation method for retinal tissue cultured at the air-liquid interface. iScience, 27(12), 111299.

Battulin N, et al. (2022) The human EF1a promoter does not provide expression of the transgene in mice. Transgenic research, 31(4-5), 525.

Zenchak JR, et al. (2020) Bioluminescence-driven optogenetic activation of transplanted neural precursor cells improves motor deficits in a Parkinson's disease mouse model. Journal of neuroscience research, 98(3), 458.

Li J, et al. (2020) A CRISPR-Cas9, Cre-lox, and Flp-FRT Cascade Strategy for the Precise and Efficient Integration of Exogenous DNA into Cellular Genomes. The CRISPR journal, 3(6), 470.

Mikulka CR, et al. (2020) Cell-autonomous expression of the acid hydrolase galactocerebrosidase. Proceedings of the National Academy of Sciences of the United States of America, 117(16), 9032.