

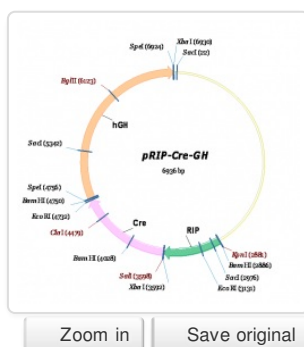
This plasmid contains an insulin-cre-hGH fusion gene that was made as follows. (1) The 1.2 kb NLSKOZCre gene from pml78 was subcloned into pBSIIKS at Sal I and EcoRI. (2) The 0.7 kb rat insulin promoter 2 gene (RIP) was subcloned from pSPRIP into the Kpn I and Xho I sites. (3) The 2.1 kb growth hormone gene from pOGH was cut at BamHI and EcoRI, blunted, and Spe I sites introduced on either end; this GH gene fragment was then subcloned into the Spe I site of the clone from step 2. (4) A small Sal I/Sal I polylinker fragment between RIP and Cre was deleted. (5) The final construct (pBS/RIP-Cre-GH) was cut at Kpn I and Not I and used for microinjection. This plasmid was used to generate RIP(Ins2)-Cre transgenic mice.

Keywords: [transgene](#) [RIP](#) [rat insulin promoter](#) [ins2](#) [Cre](#)

Expand

Vector Annotations

Vector Map



Zoom in

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Genbank File	pRIP-Cre-GH.gb
Backbone Vector	pBluescript II KS
Construct Size	6,936 bp (approximate)
Bacterial Stock	No
Storage Temperature	-20 °C
Stock Concentration	0.1 µg/µL
Addgene	Not Provided

Source

Laboratory	Mark Magnuson
Made by	Yuejin Chen
Stock Date	December 23, 2008

Inventory Location

Private

Publications / Citations

1. Dual roles for glucokinase in glucose homeostasis as determined by liver and pancreatic beta cell-specific gene knock-outs using Cre recombinase. Postic C, Shiota M, Niswender KD, Jetton TL, Chen Y, Moates JM, Shelton KD, Lindner J, Cherrington AD, Magnuson MA (1999) *J Biol Chem* **274**(1): 305-15
 > Primary publication · [9867845](#) (PubMed) · Added on 1/31/2014

MeSH Terms

[Albumins](#) [Alleles](#) [Animals](#) [Base Sequence](#)
[DNA Primers](#) [Gene Deletion](#) [Glucokinase](#) [Glucose](#)
[Homeostasis](#) [Insulin](#) [Integrases](#) [Islets of Langerhans](#)
[Liver](#) [Mice](#) [Mice, Knockout](#) [Transgenes](#)
[Viral Proteins](#)