

pRIP.Cre.GH

Last modified on August 6, 2010 at 3:28 PM by [Mark Magnuson](#)

Summary description:

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.

Usage Keywords/Tags	Cre, transgene, RIP, rat insulin promoter, ins2
Category	Plasmid
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Collection(s) Contributed To	Public Shared Collection

Resource Data

Vector Map Image



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Backbone Vector	pBluescript II KS
Construct Size	6,936 bp (approximate)
Source	Laboratory: Mark Magnuson Made by: Yuejin Chen
Bacterial Stock	No
Storage Temperature	-20 °C
Stock Concentration	0.1 µg/µL
Stock Date	December 23, 2008
Genbank File	pRIP-Cre-GH.gb
Location	Not Available

