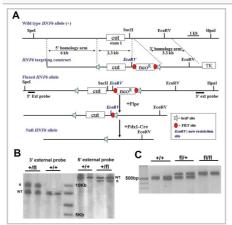


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FRT-flanked DNA in somatic and germ cells. HNF6flox/+ mice were used to generate mice homozygous for the floxed allele (HNF6flox/flox).

Associated Images

Image 1



Description:

Schematic diagram of HNF6^{flox-neo} targeting vector and Cre-mediated HNF6 inactivation. (A)

Representation of the mouse HNF6 locus showing exon one (the cut DNA binding domain). Also shown: HNF6^{flox}-targeting construct, HNF6^{flox}-targeted allele, and recombined HNF6 allele following Cre exposure. The 5' and 3' Southern blot hybridization probes are indicated as horizontal lines below the floxed allele. Restriction sites shown in italics indicate introduced sites to allow for genotyping. (B) Southern blot of Spel/EcoRV digested genomic DNA from HN6^{flox-neo} targeted ES cells using the 5' external probe, detected bands specific to wild type (WT; 13.3kb) and HNF6^{flox} (fl; 11.6kb) alleles. Using 3' the external probe, Southern blot of Hpal/SacII digested genomic DNA from HN6^{fl} targeted ES cells detected bands specific to wild type (WT; 7.6kb) and HNF6fl (fl; 9.6kb) alleles. (C) PCR analysis of mouse tail genomic DNA using primers flanking the 5'-most loxP site resulted in amplification of a larger product (590bp) from the targeted versus wild type allele (550bp).

Reference:

19766716

Repositories



Stock #: 029869-UNC
Availability Notes: Not provided

Gannon Lab



Stock #: Not provided
Availability Notes: Not provided

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Associated Publications

Publication	Citation
23926259	Wu F, Li R, Umino Y, Kaczynski TJ, Sapkota D, Li S, Xiang M, Fliesler SJ, Sherry DM, Gannon M, Solessio E, Mu X Onecut1 is essential for horizontal cell genesis and retinal integrity. (2013) <i>J Neurosci</i> 33: 13053-65, 13065a (Added April 27, 2015)
21898486	Vanderpool C, Sparks EE, Huppert KA, Gannon M, Means AL, Huppert SS Genetic interactions between hepatocyte nuclear factor-6 and Notch signaling regulate mouse intrahepatic bile duct development in vivo. (2012) Hepatology 55: 233-43 (Added April 27, 2015)
19766716	Zhang H, Ables ET, Pope CF, Washington MK, Hipkens S, Means AL, Path G, Seufert J, Costa RH, Leiter AB, Magnuson MA, Gannon M Multiple, temporal-specific roles for HNF6 in pancreatic endocrine and ductal differentiation. (2009) Mech Dev 126: 958-73 (Added December 11, 2014)

Comments

There are no comments for this entry.



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