

## **Product datasheet for KN311125BN**

### Product datasileet for kins i i i zobi

# Notch2 Mouse Gene Knockout Kit (CRISPR)

**Product data:** 

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo

Symbol: Notch2

**Locus ID:** 18129

**Components: KN311125G1**, Notch2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN311125G2**, Notch2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN311125BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

**GE100003**, scramble sequence in pCas-Guide vector

**Disclaimer:** These products are manufactured and supplied by OriGene under license from ERS. The kit is

designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the

experimental process.

**RefSeq:** <u>NM 010928</u>

UniProt ID: <u>035516</u>

Synonyms: Al853703; N2

**Summary:** Functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and

Delta-1 (DLL1) to regulate cell-fate determination (PubMed:10393120). Upon ligand activation

through the released notch intracellular domain (NICD) it forms a transcriptional activator

complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus

(PubMed:10393120, PubMed:18710934). Affects the implementation of differentiation, proliferation and apoptotic programs (PubMed:10393120, PubMed:18710934). May play an essential role in postimplantation development, probably in some aspect of cell specification

and/or differentiation (By similarity). In collaboration with RELA/p65 enhances NFATc1 promoter activity and positively regulates RANKL-induced osteoclast differentiation (PubMed:18710934). Positively regulates self-renewal of liver cancer cells (By similarity).

[UniProtKB/Swiss-Prot Function]



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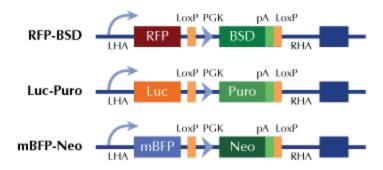
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## **Product images:**

#### Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter