

## **Product datasheet for KN311127BN**

# Notch4 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: Notch4

**Locus ID:** 18132

**Components: KN311127G1**, Notch4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN311127G2**, Notch4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN311127BND, 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 010929</u>

UniProt ID: P31695

Synonyms: Int-3; Int3; N4

**Summary:** Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to

regulate cell-fate determination. 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. Affects the implementation of

differentiation, proliferation and apoptotic programs (By similarity). May regulate branching

morphogenesis in the developing vascular system.[UniProtKB/Swiss-Prot Function]



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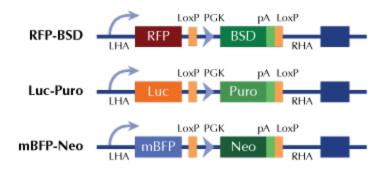
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## **Product images:**

#### Donor Vector Edited Chromosome



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