

## Product datasheet for **KN313530BN**

### **PnlDC1 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:** PnlDC1  
**Locus ID:** 240023  
**Components:** **KN313530G1**, PnlDC1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN313530G2**, PnlDC1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN313530BND**, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.

Homologous arm and mBFP-Neo sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **mBFP-Neo in green**; **Right arm in violet**

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GGCTCCAGAT TTATCAGCAA TAAACCAGCC AGCCGGAAGG GCCGAGCGCA GAAGTGGTCC TGCAACTTTA
TCCGCCTCCA TCCAGTCTAT TAATTGTTGC CGGGAAGCTA GAGTAAGTAG TTCGCCAGTT AATAGTTTGC
GCAACGTTGT TGCCATTGCT ACAGGCATCG TGGTGTACAG CTCGTCGTTT GGTATGGCTT CATTACAGCTC
CGGTTCCCAA CGATC
    
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**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:**

[NM\\_001034866](#)

**UniProt ID:**

[B2RXZ1](#)

**Synonyms:**

Gm313

**Summary:**

3'-exoribonuclease that has a preference for poly(A) tails of mRNAs, thereby efficiently degrading poly(A) tails (PubMed:27515512). Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs and is also used to silence certain maternal mRNAs translationally during oocyte maturation and early embryonic development (PubMed:27515512). May act as a regulator of multipotency in embryonic stem cells (PubMed:27515512).[UniProtKB/Swiss-Prot Function]

**Product images:**

