

## Product datasheet for KN314163LP

# OriGene Technologies, Inc.

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### Pten Mouse Gene Knockout Kit (CRISPR)

#### **Product data:**

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

**Format:** 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

**Donor DNA:** Luciferase-Puro

Symbol: Pten Locus ID: 19211

**Components: KN314163G1**, Pten gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN314163G2, Pten gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN314163LPD, donor DNA containing left and right homologous arms and Luciferase-Puro

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 008960</u> **UniProt ID:** 008586

**Synonyms:** 2310035007Rik; A130070J02Rik; AI463227; B430203M17Rik; MMAC1; TEP1

**Summary:** This gene encodes a phosphatase with dual activity against phospholipids and proteins, and

acts as a tumor-suppressor. The protein contains four structural domains, a PIP2-binding domain, a catalytic tensin-type phosphatase domain, a C2 tensin-type domain and a PDZ-binding domain. The protein belongs to the protein tyrosine phosphatase family. Deletion of this gene in mice contribute to tumorigenesis in multiple tissues. [provided by RefSeq, Sep

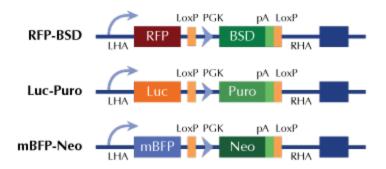
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## **Product images:**

#### Donor Vector Edited Chromosome



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