

## **Product datasheet for KN319361LP**

## OriGene Technologies, Inc.

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### Wdr45 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: Wdr45 Locus ID: 54636

**Components:** KN319361G1, Wdr45 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN319361G2**, Wdr45 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN319361LPD, 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 001290792</u>, <u>NM 001290794</u>, <u>NM 001290795</u>, <u>NM 172372</u>

UniProt ID: Q91VM3

Synonyms: C79260; DXImx38e; JM5; Sfc19; Wdrx1; WIPI-4

**Summary:** Component of the autophagy machinery that controls the major intracellular degradation

process by which cytoplasmic materials are packaged into autophagosomes and delivered to lysosomes for degradation. Activated by the STK11/AMPK signaling pathway upon starvation, WDR45 is involved in autophagosome assembly downstream of WIPI2, regulating the size of forming autophagosomes. Probably recruited to membranes through its PtdIns3P activity.

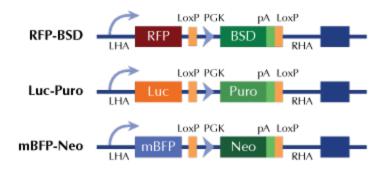
[UniProtKB/Swiss-Prot Function]





# **Product images:**

### Donor Vector Edited Chromosome



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