

Product datasheet for **KN319361**

Wdr45 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: Wdr45
Locus ID: 54636
Components: **KN319361G1**, Wdr45 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGCTGGTCACACCTCGAAG
KN319361G2, Wdr45 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTCTTGTTGAAATGTAGGC
KN319361D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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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_001290792](#), [NM_001290794](#), [NM_001290795](#), [NM_172372](#)

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]

