

Product datasheet for **KN304265**

Dag1 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: Dag1
Locus ID: 13138
Components: **KN304265G1**, Dag1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGAACCCCTCAGAGGCTGTG
KN304265G2, Dag1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGACTGGAAGAACCAGCTTG
KN304265D, 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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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_001276481](#), [NM_001276482](#), [NM_001276485](#), [NM_001276486](#), [NM_001276492](#),
[NM_001276493](#), [NM_001276494](#), [NM_010017](#)

UniProt ID:

[Q62165](#)

Synonyms:

D9Wsu13e; DG; Dp71; Dp427

Summary:

This gene encodes dystroglycan, a central component of dystrophin-glycoprotein complex that links the extracellular matrix and the cytoskeleton in the skeletal muscle. The encoded preproprotein undergoes O- and N-glycosylation, and proteolytic processing to generate alpha and beta subunits. A complete lack of the encoded protein in mice results in embryonic lethality due to the disorganization of Reichert's membrane. Chimeric mice deficient in the encoded protein overcome embryonic lethality but develop a progressive muscular dystrophy. Alternative splicing results in multiple transcript variants, all encoding the same protein. [provided by RefSeq, Nov 2015]

Product images:

