

Product datasheet for **KN313530**

Pnldc1 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:	Pnldc1
Locus ID:	240023
Components:	<p>KN313530G1, Pnldc1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTCGCGGGTGCGGACTTCGT</p> <p>KN313530G2, Pnldc1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCCTGCAGGAGCTTGTCGC</p> <p>KN313530D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

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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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

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:

