

Product datasheet for KN313676BN

Ppargc1a Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

Donor DNA: mBFP-Neo Symbol: Ppargc1a Locus ID: 19017

KN313676G1, Ppargc1a gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN313676G2, Ppargc1a gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN313676BND, donor DNA containing left and right homologous arms and mBFP-Neo

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: NM 008904, NR 027710, NR 132764

UniProt ID: 070343

Synonyms: A830037N07Rik; ENSMUSG00000079510; Gm11133; PGC-1; Pgc-1alpha; Pgc1; Pgco1;

PPARGC-1-alpha; Ppargc1

This gene encodes a transcriptional coactivator that induces and coordinates gene **Summary:**

expression regulating mitochondrial biogenesis, respiration, hepatic gluconeogenesis,

thermogenic program in brown fat and muscle fiber-type switching. Mice lacking the encoded protein exhibit reduced thermogenic capacity, hyperactivity and resistance to diet-induced obesity. Mice lacking the encoded protein specifically in the heart exhibit peripartum cardiomyopathy. Alternative splicing results in multiple transcript variants. [provided by

RefSeq, Sep 2015]



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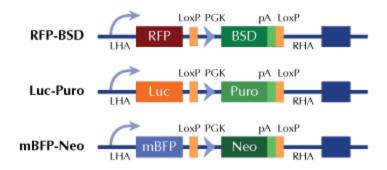
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Product images:

Donor Vector Edited Chromosome



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