Product datasheet for KN313676RB

Ppargc1a Mouse Gene Knockout Kit (CRISPR)

Product data:

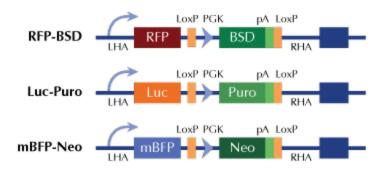|	
Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	Ppargc1a
Locus ID:	19017
Components:	**KN313676G1**, Ppargc1a gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN313676G2**, Ppargc1a gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN313676RBD**, donor DNA containing left and right homologous arms and RFP-BSD 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:	O70343
Synonyms:	A830037N07Rik; ENSMUSG00000079510; Gm11133; PGC-1; Pgc-1alpha; Pgc1; Pgco1; PPARGC-1-alpha; Ppargc1
Summary:	This gene encodes a transcriptional coactivator that induces and coordinates gene 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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Product images:

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