

Product datasheet for **KN212244LP**

PGC1 alpha (PPARGC1A) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	PGC1 alpha
Locus ID:	10891
Components:	KN212244G1 , PGC1 alpha gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN212244G2 , PGC1 alpha gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN212244LPD , donor DNA containing left and right homologous arms and Luciferase-Puro 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_001330751](#), [NM_001330752](#), [NM_001330753](#), [NM_013261](#), [NM_001354825](#),
[NM_001354826](#), [NM_001354827](#), [NM_001354828](#), [NR_148981](#), [NR_148982](#), [NR_148983](#),
[NR_148984](#), [NR_148985](#), [NR_148986](#), [NR_148987](#)

UniProt ID: [Q9UBK2](#)

Synonyms: LEM6; PGC-1(alpha); PGC-1alpha; PGC-1v; PGC1; PGC1A; PPARGC1

Summary: The protein encoded by this gene is a transcriptional coactivator that regulates the genes involved in energy metabolism. This protein interacts with PPARGgamma, which permits the interaction of this protein with multiple transcription factors. This protein can interact with, and regulate the activities of, cAMP response element binding protein (CREB) and nuclear respiratory factors (NRFs). It provides a direct link between external physiological stimuli and the regulation of mitochondrial biogenesis, and is a major factor that regulates muscle fiber type determination. This protein may be also involved in controlling blood pressure, regulating cellular cholesterol homeostasis, and the development of obesity. [provided by RefSeq, Jul 2008]



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Product images:

