

## Product datasheet for **KN212244BN**

### PGC1 alpha (PPARGC1A) Human 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:	PGC1 alpha
Locus ID:	10891
Components:	<p><b>KN212244G1</b>, PGC1 alpha gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN212244G2</b>, PGC1 alpha gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN212244BND</b>, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>
RefSeq:	<p><a href="#">NM_001330751</a>, <a href="#">NM_001330752</a>, <a href="#">NM_001330753</a>, <a href="#">NM_013261</a>, <a href="#">NM_001354825</a>,  <a href="#">NM_001354826</a>, <a href="#">NM_001354827</a>, <a href="#">NM_001354828</a>, <a href="#">NR_148981</a>, <a href="#">NR_148982</a>, <a href="#">NR_148983</a>,  <a href="#">NR_148984</a>, <a href="#">NR_148985</a>, <a href="#">NR_148986</a>, <a href="#">NR_148987</a></p>
UniProt ID:	<a href="#">Q9UBK2</a>
Synonyms:	LEM6; PGC-1(alpha); PGC-1alpha; PGC-1v; PGC1; PGC1A; PPARGC1
Summary:	<p>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]</p>



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## Product images:

