

## Product datasheet for **KN210226LP**

### AMPK alpha 2 (PRKAA2) 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:	AMPK alpha 2
Locus ID:	5563
Components:	<p><b>KN210226G1</b>, AMPK alpha 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN210226G2</b>, AMPK alpha 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p><b>KN210226LPD</b>, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p><b>GE100003</b>, scramble sequence in pCas-Guide vector</p>
RefSeq:	<a href="#">NM_006252</a>
UniProt ID:	<a href="#">P54646</a>
Synonyms:	AMPK; AMPK2; AMPKa2; PRKAA
Summary:	<p>The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia. [provided by RefSeq, Jul 2008]</p>



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## Product images:

