

OriGene Technologies, Inc.

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Product datasheet for RC210226L2V

AMPK alpha 2 (PRKAA2) (NM_006252) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles	
Product Name:	AMPK alpha 2 (PRKAA2) (NM_006252) Human Tagged ORF Clone Lentiviral Particle	
Symbol:	AMPK alpha 2	
Synonyms:	AMPK; AMPK2; AMPKa2; PRKAA	
Mammalian Cell Selection:	None	
Vector:	pLenti-C-mGFP (PS100071)	
Tag:	mGFP	
ACCN:	NM_006252	
ORF Size:	1656 bp	
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC210226).	
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>	
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.	
RefSeq:	<u>NM 006252.2</u>	
RefSeq Size:	2435 bp	
RefSeq ORF:	1659 bp	
Locus ID:	5563	
UniProt ID:	<u>P54646</u>	
Cytogenetics:	1p32.2	
Protein Families:	Druggable Genome, Protein Kinase	



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	AMPK alpha 2 (PRKAA2) (NM_006252) Human Tagged ORF Clone Lentiviral RC210226L2V	Particle –
Protein Pathwa	Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCN pathway, mTOR signaling pathway, Regulation of autophagy	1), Insulin signaling
MW:	62.1 kDa	
Gene Summary	The protein encoded by this gene is a catalytic subunit of the AMP-act (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subur- beta and gamma subunits. AMPK is an important energy-sensing enzy cellular energy status. In response to cellular metabolic stresses, AMP phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regu biosynthesis of fatty acid and cholesterol. Studies of the mouse count catalytic subunit may control whole-body insulin sensitivity and is neo myocardial energy homeostasis during ischemia. [provided by RefSec	hit, and non-catalytic yme that monitors PK is activated, and thus a-hydroxy beta- ulating de novo terpart suggest that this cessary for maintaining

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