

#### **OriGene Technologies, Inc.**

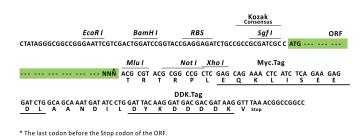
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# Product datasheet for RC208766L1

# AMPK beta 2 (PRKAB2) (NM\_005399) Human Tagged Lenti ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	AMPK beta 2 (PRKAB2) (NM_005399) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	AMPK beta 2
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208766).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I         ORF         Mlu I            GCG ATC GC         ATG // NNN         ACG CGT



ACCN: ORF Size: NM\_005399 816 bp



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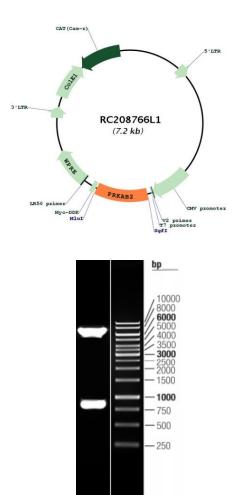
	beta 2 (PRKAB2) (NM_005399) Human Tagged Lenti ORF Clone – RC208766L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>
RefSeq:	<u>NM 005399.3</u>
RefSeq Size:	5431 bp
RefSeq ORF:	819 bp
Locus ID:	5565
UniProt ID:	<u>043741</u>
Cytogenetics:	1q21.1
Domains:	АМРКВІ
Protein Families:	Druggable Genome
Protein Pathways:	Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway
MW:	30.1 kDa

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#### CRIGENE AMPK beta 2 (PRKAB2) (NM\_005399) Human Tagged Lenti ORF Clone – RC208766L1

Gene Summary:The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase<br/>(AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic<br/>beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors<br/>cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus<br/>phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-<br/>methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo<br/>biosynthesis of fatty acid and cholesterol. This subunit may be a positive regulator of AMPK<br/>activity. It is highly expressed in skeletal muscle and thus may have tissue-specific roles.<br/>Multiple alternatively spliced transcript variants have been found for this gene. [provided by<br/>RefSeq, Jul 2013]

### **Product images:**



Circular map for RC208766L1

Double digestion of RC208766L1 using Sgfl-Mlul

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