

## Product datasheet for **SC210083**

### AMPK gamma 3 (PRKAG3) (NM\_017431) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	AMPK gamma 3 (PRKAG3) (NM_017431) Human 3' UTR Clone
Symbol:	AMPK gamma 3
Synonyms:	AMPKG3; SMGMQTL
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_017431
Insert Size:	915 bp
Insert Sequence:	>SC210083 3'UTR clone of NM_017431 The sequence shown below is from the reference sequence of NM_017431. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCTGCTGGCATCGATGCCCTCGGGGCCTGAGAAGATCTGAGTCCTCAATCCCAAGCCACCTGCACACCT
GGAAGCCAATGAAGGGAAGTGGAGAAGTGGAGTTCATCTTCCCCACCCCATTTGCTGGTTCAGCTA
TGATTAGGCTTCTTCCAGCCCTCCAAATTGCCCTTGCCCTACCTGTGCTCCAGAAAGCCCTCGGGCAT
GCCAGTGCACCATGGGATGATGAAATTAAGGAGAACAGCTGAGTCAAGCTTGGAGTCCCTGAACCAG
AGGCACTAGGATTACCCAGGGCATCTGTGCTCCATGCCCGCCATCCCTTGCCGCTGACTGGGTC
GGATGGCCCCAGTGGGTTTAGTCAGGGCTTCTGGATTCTCGGTTTCTGGGCTACCTATGGCTTACGCC
TTCAGCTCCTGGGAGTCCAGCTGTTGTTCCAGCAACGTCGCCACTGCCCTCCTACTCTCCAGGCTTT
GTCATTTCAAGGCTGCTGAAATGCTGCATTTCCAGGGCCACCATGGAGCAGCCGTTATTTATAGAAGT
CCTGTTGGAGGTGGGAGTCCCTCCCTCCATTCTGTCCAGAAAATCCTTAGCTCTCGCAGTGAGCCAT
GTTCTTAGTCTCCAGGGATGGATGGCCTTGATATGGACCCTGAGAATGAGCAATTGAGAAAACAAAA
AAAAGGAACAATCCATGAACCTTAGATTTTATTGGTTTCACTCAAATGCTGCAGTCATTTGACCTGAA
CTTGTGGCAAGAGACTTTGTCTTTCTAAATTCAAAGACTAGAAGGAAAATGGATAAAAATCACAAGTGC
CGTTTCTTTGCAATGTAGCGCTATTCTACTGAAATTTCTTTCTCTCTTTTCTTTTACAAAATCATAAA
GAAAAAATTAATTCATTA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites: SgfI-MluI



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<a href="#">NM_017431.4</a>
<b>Summary:</b>	The protein encoded by this gene is a regulatory 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. This subunit is one of the gamma regulatory subunits of AMPK. It is dominantly expressed in skeletal muscle. Studies of the pig counterpart suggest that this subunit may play a key role in the regulation of energy metabolism in skeletal muscle. [provided by RefSeq, Jul 2008]
<b>Locus ID:</b>	53632
<b>MW:</b>	33.7