

## Product datasheet for SC208403

### AMPK gamma 1 (PRKAG1) (NM\_002733) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** AMPK gamma 1 (PRKAG1) (NM\_002733) Human 3' UTR Clone  
**Symbol:** AMPK gamma 1  
**Synonyms:** AMPKG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pMirTarget (PS100062)  
**ACCN:** NM\_002733  
**Insert Size:** 655 bp  
**Insert Sequence:** >SC208403 3'UTR clone of NM\_002733  
 The sequence shown below is from the reference sequence of NM\_002733. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

```

GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
GTGCTCACAGGTGGAGAGAAGAAGCCCTAGCTGGGGGAAGGGGTCATGCAGCACCAGGGGATATGCCC
AACTACTGCCTGCTGGAAGCTCTGTGGGAATCAGATGAACTTGAGGGAATTGTGACTCTGTTCCCTG
TTCAGGGTCCCCTGCCCTTCTATCTGGGAGCTAGGGAAGGTATGGGGGAGGAAAGAGAATGGATTATA
GCTACCCTTACCCTCACACATACACTTGAAAAAAGTTTCAGCCTAGCCAGTTCTAGCCCCGTCTCTCTT
AGATATATCCCCCTTTCTGGGTGAAGTATAGGCTCTGTGCCTCTCAGACAAATTCTGATCTCTAAGAGA
TCCCCAGACCTCACTTGCTCTGCTCCATCTTGCCCTGATTCAACCCTAAGATAATAGCACAACAAA
ATTCTTCATAAAGATATTTTATTACCTGTTCCGTGCTATATGGAGGAGGCCAAGTCCATTTAGTGAC
ATTTCTTCCCATAAATGTGAGTGGGAGGATTGTGGGAGGAGGGGCTTTGGGTTCTGTGTTTGTGCAT
ATGAAGGGAGATGGGGGTTAGGTGGAGGAGGAGAGCAGCGTGGTTAGCTAAGGTTATTGCTTTTGTGG
CAAATCTAATTAATGACAGGAATCTCTTCACGA
ACGCGTAAGCGGCCGCGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** 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).


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Components:	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.
RefSeq:	<a href="#">NM_002733.5</a>
Summary:	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. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]
Locus ID:	5571
MW:	24