

## Product datasheet for **TP317801**

### AMPK gamma 1 (PRKAG1) (NM\_212461) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein kinase, AMP-activated, gamma 1 non-catalytic subunit (PRKAG1), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC217801 representing NM_212461 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

METVISSDSSPAVENEHPQETPESNNSVYTSFMKSHRCYDLIPTSSKLWFDTSLQVKKAFFALVTNGVR  
AAPLWDSKKQSFVGMILTDFINILHRYYSALVQIYELEEKKIETWREVYLQDSFKPLVCISPNASLFD  
AVSSLIRNKIHRPVIDPESGNTLYILTHKRILKFLKLFITFPKPEFMSKSLEELQIGTYANIAMVRTT  
TPVYVALGIFVQHRVSALPVVDEKGRVVDIYSKFDVINLAAEKTYNNLDVSVTKALQHRSHYFEGVLKCY  
LHETLETIINRLVEAEVHRLVVDENDVVKGIVSLSDILQALVLTGGEEKP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	28.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_997626</a>
Locus ID:	5571



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UniProt ID: [P54619](#)

RefSeq Size: 1756

Cytogenetics: 12q13.12

RefSeq ORF: 744

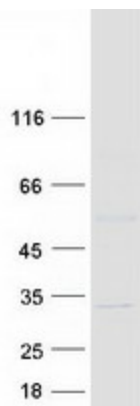
Synonyms: AMPKG; MGC8666

**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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway

### Product images:



Coomassie blue staining of purified PRKAG1 protein (Cat# TP317801). The protein was produced from HEK293T cells transfected with PRKAG1 cDNA clone (Cat# [RC217801]) using MegaTran 2.0 (Cat# [TT210002]).