



# Recombinant Human 5'-AMP-activated protein kinase subunit gamma-2 (PRKAG2)

<b>Product Code</b>	CSB-MP887021HU
<b>Abbreviation</b>	PRKAG2
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9UGJ0
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MLEKLEFEDEAVEDSESGVYMRFMRSHKCYDIVPTSSKLVVFDTTLQVKKAFF ALVANGV RAAPLWESKKQSFVGMILTITDFINILHRYKSPMVQIYELEEHKIETWRELYLQE TFKPL VNISPDASLFDVYSLIKNKIHRPVIDPISGNALYILTHKRILKFLQLFMSDMPKP AFM KQNLDELGIGTYHNIAFIHPDTPIIKALNIFVERRISALPVVDESGKVVDIYSKFDVI NL AAEKTYNNLDITVTQALQHRISQYFEGVVKCNKLEILETIVDRIVRAEVHRLVVVN EADSI VGIISLSDILQALILTPAGAKQKETETE
<b>Source</b>	Mammalian cell
<b>Target Names</b>	PRKAG2
<b>Protein Names</b>	Recommended name: 5'-AMP-activated protein kinase subunit gamma-2 Short name= AMPK gamma2 Short name= AMPK subunit gamma-2Alternative name(s): H91620p
<b>Expression Region</b>	1-328
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length of Isoform B
<b>Target Details</b>	AMP-activated protein kinase (AMPK) is a heterotrimeric protein composed of a catalytic alpha subunit, a noncatalytic beta subunit, and a noncatalytic regulatory gamma subunit. Various forms of each of these subunits exist, encoded by different genes. AMPK is an important energy-sensing enzyme that monitors cellular energy status and functions by inactivating key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This gene is a member of the AMPK gamma subunit family and encodes a protein with four



cystathionine beta-synthase domains. Mutations in this gene have been associated with ventricular pre-excitation (Wolff-Parkinson-White syndrome), progressive conduction system disease and cardiac hypertrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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