

Product datasheet for **TP310953M**

CACNG5 (NM_145811) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human calcium channel, voltage-dependent, gamma subunit 5 (CACNG5), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210953 protein sequence Red=Cloning site Green=Tags(s)

MSACGRKALTLSSVFAVCGLGLLGIAVSTDYWLYLEEGVIVPQNQSTEIKMSLHSGWLWRVCF LAGEERG
RCFTIEYVMPMNTQLTSESTVNV LKMIRSATPFPLVSLFFMFIGFILN NIGHIRPHRTILAFVSGIFFIL
SGLSLVWGLVLYISSINDEMLNRTKDAETYFNKYGWSFAFAAISFLLTESAGVMSVYLFMKRYAEDMY
RPHPGFYRPRLSNCS DYSGQFLHPDAWVRGRSPDISSEASLQMNSNYPALLKCPDYDQMSSSPC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	30.7 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:	NP_665810
Locus ID:	27091



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UniProt ID: [Q9UF02](#)

RefSeq Size: 926

Cytogenetics: 17q24.2

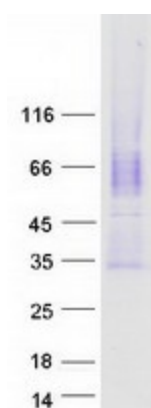
RefSeq ORF: 825

Summary: The protein encoded by this gene is a type II transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members, a type I TARP and a calcium channel gamma subunit. This gene is a susceptibility locus for schizophrenia and bipolar disorder. [provided by RefSeq, Dec 2010]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

Product images:



Coomassie blue staining of purified CACNG5 protein (Cat# [TP310953]). The protein was produced from HEK293T cells transfected with CACNG5 cDNA clone (Cat# [RC210953]) using MegaTran 2.0 (Cat# [TT210002]).