

Product datasheet for PH310953

CACNG5 (NM_145811) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CACNG5 MS Standard C13 and N15-labeled recombinant protein (NP_665810)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210953
Predicted MW:	30.9 kDa
Protein Sequence:	>RC210953 protein sequence Red=Cloning site Green=Tags(s)
	MSACGRKALTLSSVFAVCGLLGIAVSTDYWLYLEEGVIVPQNQSTEIKMSLHSGLWRVCFLLAGEERG RCFTIEYVPMNTQLTSESTVNVLMKIRSATPFPLVSLFFMFIGFILNNIGHIRPHRTILAFVSGIFFIL SGLSLVVLVLYISSINDEMLNRTKDAETYFNKYGWSFAFAAISFLLTESAGVMSVYLFMKRYTAEDMY RPHPGFYRPRLSNCSYSGQFLHPDAWVRGRSPDISSEASLQMNSNYPALLKCPDYDQMSSSPC
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_665810
RefSeq Size:	926
RefSeq ORF:	825
Locus ID:	27091
UniProt ID:	Q9UF02
Cytogenetics:	17q24.2



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Summary:

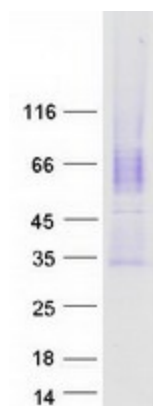
The protein encoded by this gene is a type II transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster 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]).