

Product Information

MemDX™ Membrane Protein Human CACNG1 (Calcium voltage-gated channel auxiliary subunit gamma 1) Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX2228K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human CACNG1 membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CACNG1

Protein Length

Full Length

Protein Class

Ion channel, Transport

TMD

4

Sequence

MSQTKMLKVRVTLFCILAGIVLAMTAVVTDHWAVLSPHMEHHNTTCEAAHFGLWRICKRIPMDDSKTCGPITLPGEKNCSYFRHFM

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CACNG1

Full Name

Calcium voltage-gated channel auxiliary subunit gamma 1

Introduction

Voltage-dependent calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of two known gamma subunit proteins. This particular gamma subunit is part of skeletal muscle 1,4-dihydropyridine-sensitive calcium channels and is an integral membrane protein that plays a role in excitation-contraction coupling. 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 that function as transmembrane AMPA receptor regulatory proteins (TARPs).

Alternative Names

CACNG1; CACNLG; voltage-dependent calcium channel gamma-1 subunit; L-type calcium channel gamma polypeptide; calcium channel, voltage-dependent, gamma subunit 1; dihydropyridine-sensitive L-type, skeletal muscle calcium channel subunit gamma; neuronal dihydropyridine-sensitive calcium channel gamma subunit; Calcium voltage-gated channel auxiliary subunit gamma 1

Gene ID

[786](#)

UniProt ID

[Q06432](#)