

## Product Information

### MemDX™ Membrane Protein Human CACNG6 (Calcium voltage-gated channel auxiliary subunit gamma 6) Full Length

Cat. No.: **MPC0441K**

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

This product is a 28.1 kDa Human CACNG6 membrane protein expressed in HEK293. 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

CACNG6

##### Protein Length

Full length

##### Protein Class

Transporter; Ion channel

##### Molecular Weight

28.1 kDa

##### TMD

4

##### Sequence

MMWSNFFLQEENRRRGAAGRRAHGQGRSGLTPEREGKVKLALLLAAVGA  
TLAVLSVGTEFWVELNTYKANGSAVCEAAHLGLWKACTKRLWQADVPVDR  
DTCGPAELPGEANCTYFKFFTTGENARIFQRTTKKEVNLA-AAVIAVLGLA  
VMALGCLCIIMVLSKGAEFLLRVGAVCFGLSGLLLLVSLEVFRHSVRALL  
QRVSPEPPPAPRLTYEYSWSLGCYGVGAGLILLGAGCFLLLTLPSWPWGS  
LCPKRGHRAT

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

**Protein Format**

Detergent or based on specific requirements

**Form**

Liquid

**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**

CACNG6

**Full Name**

Calcium voltage-gated channel auxiliary subunit gamma 6

**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 an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state. 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 splicing results in multiple transcript variants. Variants in this gene have been associated with aspirin-intolerant asthma.

**Alternative Names**

voltage-dependent calcium channel gamma-6 subunit; calcium channel, voltage-dependent, gamma subunit 6; neuronal voltage-gated calcium channel gamma-6 subunit; CACNG6; Calcium voltage-gated channel auxiliary subunit gamma 6

**Gene ID**

[59285](#)

**UniProt ID**

[Q9BXT2](#)