

# Product Information

## MemDX™ Membrane Protein Human PCDHGA6 (Protocadherin gamma subfamily A, 6) Full Length

Cat. No.: **MPC3039K**

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

This product is a made-to-order Human PCDHGA6 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

PCDHGA6

#### Protein Length

Full length

#### Protein Class

Cell adhesion

#### TMD

1

#### Sequence

MAPPQRHPQRSEQVLLLTLGLTWGAAAAQIRYSIPEELEKGSFVGNIVK  
DLGLEPQELAEHGVRIVSRGRMQLFSLNPRNGSLVTAGRIDREELCAQSP  
RCLVSFNILVEDKLNLYPVEVEIVDINDNTPRFLKEELEVKILENAAPSS  
RFPLMEVYDPDVGMNSLQGFKLSGNSHFSVDVQSEAHGPKYPELVLEGL  
DREGAVYRLVLTAMDGGDPVRSSVAQILVTVLDVNDNTPMFTQPVYRVS  
VPENLPVGTPVLAVTATDQDEGVHGEVTYSFVKITEKISQIFCLNVLTE  
ISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNVPEVVVT  
SGSRTIAESAPPGTVIALFQVDRDSGLNGLVTC SIPRSLPFELEKSVGN  
YYRLVTNAALDREEVFLYNITVTATDKGTPPLSTETIISLNVADTNDNPP  
TFPHSSYSVYVLENNPRGASIFSVNALDPDQNAQVSYS LAEDTLQGAP  
LSSYVSINSDTGILYALRSFDYEQRLDLQLWVTASDSGDPPLSSNVSLSL  
FVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ  
NAWLSYRLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHG  
QPPLSATVTTLTVAVADRIPDILADLGSLEPSAKPNDSDLTYLVVAVAAV  
SCVFLAFVIVLLALRLQRWHKSRLLQASGGGLASMPGSHFVGVEGVRAFL  
QTYSHEVSLTADSRKSHLIFPQPNYADTLINQESYEKSEPLLITQDLLET  
KGEPRQLQQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQA  
MILASASEAADGSSTLGGGAGTMLSARYGPQFTLQHVPDYRQNVYIPGS  
NATLTNAAGKRDKAPAGGNGNKKKSGKKEKK

## Product Description

### Expression Systems

HEK293

### Tag

Based on specific requirements

### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

### Form

Liquid

### Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

PCDHGA6

### Full Name

Protocadherin gamma subfamily A, 6

### Introduction

This gene is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related subfamily C contains 3 genes. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been described for the gamma cluster genes.

### Alternative Names

PCDHGA6; PCDH-GAMMA-A6; protocadherin gamma-A6; Protocadherin gamma subfamily A, 6

### Gene ID

[56109](#)

### UniProt ID

[Q9Y5G7](#)