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Product Information

MemDX™ Membrane Protein Human PCDHGB7 (Protocadherin gamma subfamily B, 7) Full Length

Cat. No.: **MPC3036K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human PCDHGB7 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
PCDHGB7

Protein Length
Full length

Protein Class
Cell adhesion

TMD
1

Sequence
MGGSCAQRRRAGPRQVLFPLLLPLFYPTLCEPIRYSIPEELAKGSVVGNL
AKDLGLSVLDVSARELRVSAEKLHFSVDAQSGDLLVKDRIDREQICKERR
RCELQLEAVVENPLNIFHVIVVIEDVNDHAPQFRKDEINLEISESVSLGM
GTILESAEDPDISMNSLSKYQLSPNEYFSLVEKDNPDGGKYPELVLQKTL
DRETQSAHHLVLTALDGGDPPRSGTAQIRILVIDANDNPPVFSQDVYRVS
LREDVPPGTSILRVKATDQDEGINSEITYSFFGVADKAQHVFSLDYTTGN
ILTQQPLDFEEVERYTINIEAKDRGSLSTRCKVIVEVVDENDNSPEIIIT
SLSDQIMEDSPPGVVVALFKTRDQDSGENGEVRCSLSRGVPFKIHSSSNN
YYKLVTDEALDREQTPEYNVTIAATDRGKPPLSSSKTITLHITDVNDNAP
VFGQSAYLVHVPENNQPGASIAQVSASDPDFGLNGRVSYSLIASDLESRT
LSSYVSVSAQSGVVFAQRAFDHEQLRTFELTLQARDQGSPALSANVSLRV
LVGDRNDNAPRVLYPALGPDGSALFDTVPRAAQPGYLVTKVVAVDADSGH
NAWLSYHVVQASEPGLFSLGLRTGEVRMVRALGDKDSVRQRLLVAVRDGG
QPPLSATATLHLVFADSLQEVLPDFSDHPTPSDSQAEMQFYLVVALALIS
VLFLLAVILAIALRLRQSFSPTAGDCFESVLCSKSGPVGPPNYSEGTLPY
AYNFCVPGDQMNPEFNFFTSVDHCPATQDNLNKDSMLLASILTPSVEADK
KILKQQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMIL
ASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNAT
LTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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

PCDHGB7

Full Name

Protocadherin gamma subfamily B, 7

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

PCDHGB7; ME6; PCDH-GAMMA-B7; protocadherin gamma-B7; cadherin ME6; Protocadherin gamma subfamily B, 7

Gene ID

56099

UniProt ID

Q9Y5F8

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