

Product Information

MemDX™ Membrane Protein Human PCDHGB3 (Protocadherin gamma subfamily B, 3) Full Length

Cat. No.: **MPC3042K**

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

This product is a made-to-order Human PCDHGB3 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

PCDHGB3

Protein Length

Full length

Protein Class

Cell adhesion

TMD

1

Sequence

MGNSSGWRGPAGQRRMLFLFLLSLLDQALSEPIRYAIPPEELDRGSLVGNL
AKDLGFGVGDLPTRNLRVIAEKFFTVSPENGNNLVSDRIDREEICGKKS
TCVLEFEMVAEKPLNFFHVTVLIQDINDNPPTFSQNITELEISELALTGA
TFALESAQDPDVGVNSLQQYYLSPDPHFSLIQKENLDGSRYPELVLKAPL
DREEQPHHHHLVLTAVDGGEPSRSCTTQIRVIVADANDNPPVFTQDMYRVN
VAENLPAGSSVLKVMMAIDMDEGINAEIYAFINIGKEVRQLFKLDSKTGE
LTTIGELDFEERDSYTIGVEAKDGGHHTAYCKVQIDISDENDNAPEITLA
SESQHIQEDAELGTAVALIKTHDLDSGFNGEILCQLKGNFPFKIVQDTKN
TYRLVTDGALDREQUIPEYNVTITATDKGNPPLSSSKTITLHILDVNDNVP
VFHQASYTVHVAENNPPGASIAHVRASDPDLGPNGLVSYIVASDLEPRE
LSSYVSVSARSGVVFAQRAFDHEQLRAFELTLQARDQGSPTLSANVSLRV
LVDDRNDNAPLVLYPALGPEGSAFDMVPRSAEPGYLVTKVVAVDADSGY
NAWLSYHIVQASEPGLFSLGLRTGEVRTARTLGDREAAARQRLVTVRDGG
QQPLSATVMLHLIFADSLQEIQPDLSDRPTSPDPAELQFHLVVALALIS
VLFLLAVILAISLRLRCSSRPATEGYFQPGVCFKTVPGVLPTYSSERTLPY
SYNPCAASHSSNTEFKFLNIKAENAAPQDLLCDEASWFESNDNPEMPSNS
GNLQKQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMIL
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

PCDHGB3

Full Name

Protocadherin gamma subfamily B, 3

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

PCDHGB3; PCDH-GAMMA-B3; protocadherin gamma-B3; Protocadherin gamma subfamily B, 3

Gene ID

[56102](#)

UniProt ID

[Q9Y5G1](#)