

Product Information

MemDX™ Membrane Protein Human PCDHA5 (Protocadherin alpha 5) Full Length

Cat. No.: **MPC4406K**

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

This product is a made-to-order Human PCDHA5 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

PCDHA5

Protein Length

Full length

Protein Class

Cell adhesion

TMD

1

Sequence

MVYSRRGSLGSRLLLWLLLAYWKAGSGQLHYSIPEEAKHGTFVGRFAQD
LGLELAELVPRLFVRVASKGRGDLLEVNQLQNGILFVNSRIDREELCRRRAE
CSIHLEIVDRPLQVFHVEVAVKDINDNPPRFSRQEQLFILESMPDSR
FPLEGASDLDIGANAQLRYRLNPNEYFDLDVKTNEEETNFLELVLKSLD
REETQEHRLVVIATDGGKPELTGTVQLLINVLNDANDNAPEFDKSIYNVRL
LENAPSGTLVIKLNASDADEGINKEIVYFFSNLVLDDVKSKFIINSNTGE
IKVNGELDYEDYNSYEINIDAMDKSTFPLSGHCKVVVKLLDVNDNTPEMA
ITTLFLPVKEDAPLSTVIALISVSDRDSGANGQVTCSLMPHVPFKLVSTF
KNYYSLVLDSDRESVSVYELVVTARDGGSPSLWATASVSVEVADVNDN
APAFAPQPYTVFVKENPPGCHIFTVSARDADAQENALVSYSLVERRVGE
RPLSSYVSVHAESGKVYALQPLDHEEVELLQFQVSARDAGVPPLGSNVTL
QVFLVDENDNAPALLVPRVGGTGGAVSELVPRSVGAGHVVAKVRAVDPS
GYNAWLSYELQPAPGSARIPFRVGLYTGEISTTRSLDEAPRHRLLVLV
KDHGEPLTATATVLSLVESGQAPKASSRASAGAVGPEAALVDNVYLI
IAICAVSSLLVLTLLLYTALRCSAQPTAEVCTR GKPTLLCSSAVGWSYS
QRRQRVCSGEAPPKTDLMAFSPSLPQGPTSTDNPRQPNPDWRYASLRA
GMHSSVHLEEAGILRAGPGGPDQWPTVSSATPEPEAGEVSPPVGAGVNS
NSWTFKYGPGNPKQSGPGELPKFIIPGSPAISIRQEPTNSQIDKSDFI
TFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

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

PCDHA5

Full Name

Protocadherin alpha 5

Introduction

This gene is a member of the protocadherin alpha gene cluster, one of three related gene clusters tandemly linked on chromosome five that demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The alpha gene cluster is composed of 15 cadherin superfamily genes related to the mouse CNR genes and consists of 13 highly similar and 2 more distantly related coding sequences. The tandem array of 15 N-terminal exons, or variable exons, are followed by downstream C-terminal exons, or constant exons, which are shared by all genes in the cluster. The large, uninterrupted N-terminal exons each encode six cadherin ectodomains while the C-terminal exons encode the cytoplasmic domain. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins that most likely play a critical role in the establishment and function of specific cell-cell connections in the brain. Alternative splicing has been observed and additional variants have been suggested but their full-length nature has yet to be determined.

Alternative Names

PCDHA5; CNR6; CNRN6; CNRS6; CRNR6; PCDH-ALPHA5; protocadherin alpha-5; KIAA0345-like 9; PCDH-alpha-5; ortholog of mouse CNR6; Protocadherin alpha 5

Gene ID

[56143](#)

UniProt ID

[Q9Y5H7](#)