

**MemDX™ Membrane Protein Human PCDHA3 (Protocadherin alpha 3) Full Length**

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

## Product Specifications

## Human

## PCDHA3

## Full length

## Cell adhesion

## 1

MLFSWREDPGAQCLLSLLLLAASEVSGQLHYSVSEEAKHGTFVGRIAQ  
DLGLELAELVPRLFRVASKRHHGDLLEVNQLQNGILFVNSRIDREELCGRSA  
ECSTHLEIVDRPLQVFHVEVEVKDINDNAPVFPMAVKNLFISESQPGS  
RFSLEGASDADIGTNSLLTYSLDSTEYFTLDVKRNDEEIKSLGLVLKKNL  
NREDTPKHILLITAIDGGKPELTGTTQLKITVLDVNDNAPAFERTIYKVR  
LLENAPNGTLVVTVNATDLDEGVNKDIAYSFNDDMSADILSKFHLDPVNG  
QISVKGNIIDFEESKSYEIQVEATDKGNPPMSDHCTVLLEIVDINDNPEL  
VIQSLSLPVLEDSPLSTVIALISVSDRDSGVNGQVTCSTLPHVPFKLVST  
FKNYYSVLVDSPLDRESVSAYELVVTARDGGSPSLWATASVSVEVADVND  
NAPAFSQSEYTVFVKENPPPGCHIFTVSARDADAQENALVSYSLVERRVG  
ERALSSYVSVAESGKVYALQPLDHEELELLQFQVSARDAGVPPLGSNVT  
LQVFDVLDENDNAPALLMPRVGGIGGAVSELVPRSVGAGHVVAKVRAVDAD  
SGYNWLSYELQPGTGGARIPFRVGLYTGEISTTRALDEVDAPRHLLVL  
VKDHGEPSTATATVLSVLSVESGAPKASSQASAGATGPEAALVDNVYL  
IVAICAVSSLLVLTLLLYTALRCSAPPTGDCGPGKPTLVCSSAVGWSY  
SQQRQQRVCSEGLPKTDLMAFSPSLPPCISRDREKQDQVDVDSAPKR  
QPNPDWRYASRLAGMHSSVHLEEAGLIRAGPGGPDQQWPTVSSATPEPE  
AGEVSPVPVAGVNSNSWTFKYGPGNPKQSGPGEPLDKFIIPGSPAIIIR  
QEPTNSQIDKSDFITFGKKEETKKKKKKKKGNKTQEKKEKGNSTTDNSDQ

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## 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

PCDHA3

### Full Name

Protocadherin alpha 3

### 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

PCDHA3; PCDH-ALPHA3; protocadherin alpha-3; KIAA0345-like 11; PCDH-alpha-3; Protocadherin alpha 3

### Gene ID

[56145](#)

### UniProt ID

[Q9Y5H8](#)