

# Product Information

## MemDX™ Membrane Protein Human PCDHB3 (Protocadherin beta 3) Full Length

Cat. No.: **MPC4396K**

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

This product is a made-to-order Human PCDHB3 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

PCDHB3

#### Protein Length

Full length

#### Protein Class

Cell adhesion

#### TMD

1

#### Sequence

MEAGGERFLRQRQVLLLFVFLGGSLAGSESRYSVAEEKEKGFLIANLAK  
DLGLRVEELAARGAQVVSCKGNKQHFQLSHQTGDLLLNEKLDREELCGPTE  
PCILHFQILLQNPLQFVTNELRIIDVNDHSPVFFENEMHLKILESTLPGT  
VIPLGNAEDLDVGRNSLQNYTITPNSHFHVLTRSRDGRKYPELVLDKAL  
DPEEQPELSLTALTALDGGSPPRSGTAQINIQVLDINDNAPEFAQPLYEVA  
VLENTPVNSVIVTVSASDLDTGSFGTISYAFFHASEEIRKTFQLNPITGD  
MQLVKYLNFEAINSYEVDIEAKDGGGLSGKSTVIVQVVDVNDNPPELTLS  
SVNSPIPENSGETVLAVFSVSDLDSDGNRVMCSIENNLPFFLKPSVENF  
YTLVSEGALDRETRSEYNITITITDLGTPRLKTKYNITVLVSDVNDNAPA  
FTQISYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYSLLPPQDPHPLPL  
SSLVSINADNGHLFALRSLDYALQAFEFVRVGATDRGSPALSSEALVRVL  
VLDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVAVDGDGSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKHRLVVLVKDNGEP  
PRSATATLHVLLVDGFSQPYLPLPEAAPAQAAQADLLTVYLVVALASVSSL  
FLFSVLLFVAVRLCRRSRAASVGRCSVPEGPFPGQMVDVSGTGTLSSQSYQ  
YEVCLTGGSGTNEFKFLKPIIPNFVAQGAERVSEANPSFRKSFEFS

### 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**

PCDHB3

**Full Name**

Protocadherin beta 3

**Introduction**

This gene is a member of the protocadherin beta gene cluster, one of three related gene clusters tandemly linked on chromosome five. The gene clusters demonstrate an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. The beta cluster contains 16 genes and 3 pseudogenes, each encoding 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections. Unlike the alpha and gamma clusters, the transcripts from these genes are made up of only one large exon, not sharing common 3' exons as expected. These neural cadherin-like cell adhesion proteins are integral plasma membrane proteins. Their specific functions are unknown but they most likely play a critical role in the establishment and function of specific cell-cell neural connections.

**Alternative Names**

PCDHB3; PCDH-BETA3; protocadherin beta-3; Protocadherin beta 3

**Gene ID**

[56132](#)

**UniProt ID**

[Q9Y5E6](#)