

# Product Information

## MemDX™ Membrane Protein Human PCDHB10 (Protocadherin beta 10) Full Length

Cat. No.: **MPC3773K**

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

This product is a made-to-order Human PCDHB10 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

PCDHB10

#### Protein Length

Full length

#### Protein Class

Cell adhesion

#### TMD

1

#### Sequence

MAVRELCFPRQRQVLFLFLFWGVSLAGSGFGRYSVTEETEKGSFVVNLAK  
DLGLAEGELAARGTRVVSDDNKQYLLLDSTGNLLTNEKLDREKLCGPKE  
PCMLYFQILMDDPFQIYRAELVRDINDHAPVFQDKETVLKISENTAEGT  
AFRLERAQDPDGGGLNGIQNYTISPNSFFHINISGGDEGMIYPELVLDKAL  
DREEQGELSLTLTALDGGSPSRSGTSTVRIVVLDVNDNAPQFAQALYETQ  
APENSPIGFLIVKVAEDVDSGVNAEVSYSFFDASENIRTTTFQINPFSGE  
IFLRELLDYELVNSYKINIQAAMDGGGLSARCRVLVEVLDTNDNPPELIVS  
SFSNSVAENSPETPLAVFKINDRDSGENGKMVCYIQENLPFLKPSVENF  
YILITEGALDREIRAENITITVTDLGTPRLKTEHNITVLVSDVNDNAPA  
FTQTSYTLFVRENNSPALHIGSVSATDRDSGTNAQVTYSLLPPQDPHLPL  
ASLVSINADNGHLFALRSLDYEALQAFEFVRGATDRGSPALSREALVRVL  
VLDANDNSPFVLYPLQNGSAPCTELVPRAAEPGYLVTKVAVDGDGSGQNA  
WLSYQLLKATEPGLFGVWAHNGEVRTARLLSERDAAKHRLVVLVKDNGEP  
PRSATATLHLLLVDFGFSQPYLPLPEAAPAQAAEADLLTVYLVVALASVS  
SLFLLSVLLFVAVRLCRRSRAASVGRCSVPEGPFGHLVDVRGAETLSQS  
YQYEVCLTGGPGTSEFKFLKPVISDIQAQGPGRKGEENSTFRNSFGFNIQ

### 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**

PCDHB10

**Full Name**

Protocadherin beta 10

**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**

PCDHB10; PCHB10; PCDH-BETA10; protocadherin beta-10; PCDH-beta-10; Protocadherin beta 10

**Gene ID**

[56126](#)

**UniProt ID**

[Q9UN67](#)