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# Product Information

## MemDX™ Membrane Protein Human CDH10 (Cadherin 10) Full Length

Cat. No.: **MPC2484K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human CDH10 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**
CDH10

**Protein Length**
Full length

**Protein Class**
Cell adhesion

**TMD**
1

**Sequence**
MTIHQFLLLFLFWVCLPHFCSPEIMFRRTPVPQQRILSSRVPRSDGKILH
RQKRGWMWNQFFLLEEYTGSDYQYVGKLHSDQDKGDGSLKYILSGDGAGT
LFIIDEKTGDIHATRRIDREEKAFYTLRAQAINRRTLRPVEPESEFVIKI
HDINDNEPTFPEEIYTASVPEMSVVGTSVVQVTATDADDPSYGNSARVIY
SILQGQPYFSVEPETGIIRTALPNMNRENREQYQVVIQAKDMGGQMGGLS
GTTTVNITLTDVNDNPPRFPQNTIHLRVLESSPVGTAIGSVKATDADTGK
NAEVEYRIIDGDGTDMFDIVTEKDTQEGIITVKKPLDYESRRLYTLKVEA
ENTHVDPRFYYLGPFKDTTIVKISIEDVDEPPVFSRSSYLFEVHEDIEVG
TIIGTVMARDPDSISSPIRFSLDRHTDLDRIFNIHSGNGSLYTSKPLDRE
LSQWHNLTVIAAEINNPKETTRVAVFVRILDVNDNAPQFAVFYDTFVCEN
ARPGQLIQTISAVDKDDPLGGQKFFFSLAAVNPNFTVQDNEDNTARILTR
KNGFNRHEISTYLLPVVISDNDYPIQSSTGTLTIRVCACDSQGNMQSCSA
EALLLPAGLSTGALIAILLCIIILLVIVVLFAALKRQRKKEPLILSKEDI
RDNIVSYNDEGGGEEDTQAFDIGTLRNPAAIEEKKLRRDIIPETLFIPRR
TPTAPDNTDVRDFINERLKEHDLDPTAPPYDSLATYAYEGNDSIAESLSS
LESGTTEGDQNYDYLREWGPRFNKLAEMYGGGESDKDS

## 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**

CDH10

**Full Name**

Cadherin 10

**Introduction**

This gene encodes a type II classical cadherin of the cadherin superfamily. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature cadherin protein. These integral membrane proteins mediate calcium-dependent cell-cell adhesion and are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small, highly conserved C-terminal cytoplasmic domain. The extracellular domain consists of 5 subdomains, each containing a cadherin motif, and appears to determine the specificity of the protein's homophilic cell adhesion activity. Type II (atypical) cadherins are defined based on their lack of a histidine-alanine-valine (HAV) cell adhesion recognition sequence specific to type I cadherins. This particular cadherin is predominantly expressed in brain and is putatively involved in synaptic adhesions, axon outgrowth and guidance. Mutations in this gene may be associated with lung squamous cell carcinoma and colorectal cancer in human patients.

**Alternative Names**

CDH10; cadherin-10; T2-cadherin; cadherin 10 type 2; Cadherin 10

**Gene ID**

1008

**UniProt ID**

Q9Y6N8

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