

Product datasheet for **MR210660**

Cdh10 (NM_009865) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh10 (NM_009865) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdh10
Synonyms:	A830016G23Rik; C030003B10Rik; C030011H18Rik; T2-cadh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210660 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAATCTATCAGTTCCTGAGACTGTTTGTCTCTGGGCATGCCTGCCCACTTCTGCTGTCCAGAAT
TAACGTTCCAGAAGGACTCCTGGGATTCAGCAAATGACTGCAGAATCCCGTGCCCCAAGGAGTGATGGTAA
AATCCTTCACCGTCAAAAACGTGGCTGGATGTGGAATCAGTTTTTCTTGCTGGAAGAATATACTGGATCT
GATTATCAATATGTAGGCAAGCTTCATTAGACCAAGATAAAGGAGATGGATCGCTCAAATATATTTTGT
CTGGAGACGGAGCTGGTACTCTTTTTATTATTGATGAGAAAACAGGTGATATTCATGCCACAAGAAGAAT
TGATAGAGAAGAAAAGGCCTTTTATACTCTACGTGCACAAGCTATTAACAGAAGAACTCTGAGGCCAGTA
GAACCAGAGTCAGAATTTGTGATCAAAATCCATGATATCAATGACAATGAGCCTACATCCAGAAGAAA
TTTATACAGCCAGTGTCTGAAATGTCTGTTGTAGTACTTCTGTGGTCAAGTCACAGCTACAGATGC
CGATGACCCTTCCTATGGAACAGCGCCAGAGTCATTTACAGCATCCTTCAAGGGCAGCCTTATTTCTCT
GTGGAACCAAGAAACAGGTATCATCAGAACAGCTCTGCCAAATATGAACCGAGAGAACAAGAACAGTACC
AGGTGGTTATTCAAGCCAAGGATATGGGCGGCCAGATGGGGGGTTTGTCTGGAACCAACCACAGTGAACAT
CACTCTGACAGATGTCAACGACAATCCACCTCGCTTCCCCAGAACCATTCCATCTCAGAGTCTTGTAA
TCCTCTCCAGTTGGCACAGCTGTGGGAAGTGTAAAAGCCACTGATGCTGACACGGGGAAAAATGCTGAAG
TGGATTACCGCATTATTGATGGAGATGGCACGGATATGTTTGACATTAACTGAGAAGGACACACAGGA
AGGCATCATCACTGTGAAAAAGCCACTTGACTATGAGAACCGAAGACTATATACTCTGAAGGTGGAGGCA
AAAACACCCATGTGGATCCACGTTTTTATTATCTAGGGCCATTCAAAGATACTACAATTTGTAAAACT
CCATAGAAGACGTGGACGAGCCTCTGTTTTTTCAGTCGATCCTCCTATCTGTTTGGAGTTCATGAGGAT
TGAAGTAGGCACAATCATTGGTACTGTAATGGCAAGAGATCCTGATTCTACATCCAGTCCCATCAGATTT
ACATTGGATCGCCATACTGACCTTGACAGGATCTTTAACATTCTGAAATGGATCGCTTTATACAT
CAAAGCCACTTGATCGTGAATTATCTCAATGGCACAATCTTACGTTATAGCTGCTGAGATCAATAATCC
TAAAGAGACAACCTCGTGTCTGTTTTTGTGAGGATTTTGGATGTTAATGACAACGCTCCACAATTTGCT
GTGTTTTATGACACATTTGATGTGAAAATGCCAGACCAGGACAGCTGATACAGACCATAAGTGCAGTTG
ACAAGATGACCCCTTAGGTGGACAGAAGTTTTTCTTTCAGTTTGGCTGCTGTGAATCCGAACTTTACAGT
ACAAGATAATGAAGACAACACTGCTAGAATTTTAAACAAGAAAGAATGGCTTCAACCGTCATGAAATAAGC
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TCCGTGTGTGCGCCTGTGACAGCCAAGGCAACATGCAGTCCTGTAGTGTGAAGCCCTGCTCCTCCCGC
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TTTGCAGCCCTCAAAGGCAACGGAAGAAAGAGCCTCTGATTCTATCCAAGGAGGACATCAGAGACAACA
TCGTGAGCTATAACGACGAAGGTGGTGGAGAGGAGGACACCCAGGCCCTTGGATATAGGAACCTGAGGAA
CCCTGCAGCTATCGAGGAGAAAAAGCTCCGGCGAGATATAATTCTGAAACGTTATTTATACCCCGGAGG
ACTCCTACCGCCCAGATAACACCGATGTCCGGGATTTTATTACGAGCGACTCAAAGAGCATGACCTGG
ACCCCACTGCGCCTCCCTACGACTCACTGGCTACCTACGCCTACGAAGGAAACGACTCCGTGGCCGAATC
TCTGAGCTCTTTAGAATCAGGTACCACTGAAGGAGACCAAACTACGATTACCTCCGAGAATGGGGACCT
CGGTTTAATAAACTAGCAGAAATGTACGGTGGTGGCGAGAGCGACAAGATGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210660 protein sequence

Red=Cloning site Green=Tags(s)

MTIYQFLRLFVLWACLPHFCCPELTFRRTPGIQQMTAESRAPRSDGKILHRQKRGWMWNQFFLLEEYTGSDYQYVVGKLSHQKDGSLKYILSGDGAGTLFIIDEKTGDIHATRRIDREEKAFYTLRAQAINRRTLRPV
EPESEFVIKIHDINDNEPTFPPEIYTASVPEMSVVGTSVVQVTATDADDPSYGNSARVIYSILQGQPYFS
VEPETGIIRTALPNMRENKEQYQVVIQAKDMGGQMGGLSGTTTTVNITLTDVNDNPPRFPQNTIHLRVLE
SSPVGTAVGSVKATDADTGKNAEVDYRIIDGDTDMFDIITEKDTQEGIITVKKPLDYENRRLYTLKVEA
ENTHVDPRFYLLGPFKDTTIVKISIEDVDEPPVFSRSSLFEVHEDIEVGTIIGTVMARDPDSTSSPIRF
TLDRHTDLDRIFNIHSGNGSLYTSKPLDRELSQWHNLTVIAAEINNPKETTRVSVFVRILDVNDNAPQFA
VFYDTFVCENARPGQLIQTISAVDKDDPLGGQKFFFLAAVNPNTVQDNEDNTARILTRKNGFNRHEIS
TYLLPVVISDNDYPIQSSTGTLTIRVCACDSQGNMQSCSAEALLLPAGLSTGALIAILLCIIILLVIVVL
FAALKRQRKKEPLILSKEDIRDNIYSYNDEGGGEEDTQAFDIGTLRNPAEIEKKLRRDIIPETLFIIPRR
TPTAPDNTDVRDFINERLKEHDLPTAPPYDSLATYAYEGNDSVAESLSSLESSTEGDQNYDYLREWGP
RFNKLAEYGGGESDKDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_009865

ORF Size: 2364 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_009865.3](#), [NP_033995.1](#)

RefSeq Size: 3405 bp

RefSeq ORF: 2367 bp

Locus ID: 320873

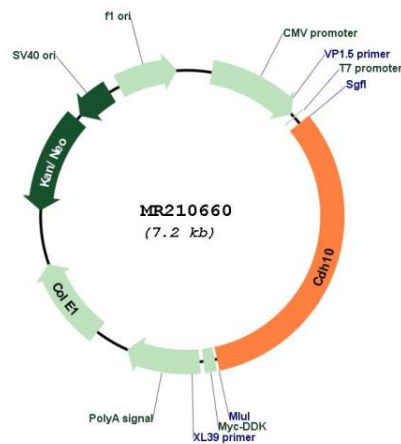
UniProt ID: [P70408](#)

Cytogenetics: 15 8.2 cM

MW: 88.3 kDa

Gene Summary: This gene encodes a member of the cadherin family of calcium-dependent glycoproteins that mediate cell adhesion and regulate many morphogenetic events during development. The encoded preproprotein is further processed to generate a mature protein. This gene is expressed in the blood-brain barrier and retinal endothelia suggesting a role in the development and maintenance of brain barrier. Alternative splicing results in multiple transcript variants. Multiple distinct genes of the cadherin family, including this gene, are found on chromosome 15. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR210660