

Product datasheet for **MG210660**

Cdh10 (NM_009865) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdh10 (NM_009865) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdh10
Synonyms:	A830016G23Rik; C030003B10Rik; C030011H18Rik; T2-cadh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG210660 representing NM_009865
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACAATCTATCAGTTCCTGAGACTGTTTGTCTCTGGGCATGCCTGCCCACTTCTGCTGTCCAGAAT
 TAACGTTTCAGAAGGACTCCTGGGATTCAGCAAATGACTGCAGAATCCCGTGCCCCAAGGAGTGATGGTAA
 AATCCTTCACCGTCAAAAACGTGGCTGGATGTGGAATCAGTTTTTCTTGCTGGAAGAATATACTGGATCT
 GATTATCAATATGTAGGCAAGCTTCATTAGACCAAGATAAAGGAGATGGATCGCTCAAATATATTTTGT
 CTGGAGACGGAGCTGGTACTCTTTTTATTATTGATGAGAAAACAGGTGATATTCATGCCACAAGAAGAAT
 TGATAGAGAAGAAAAGGCCTTTTATACTCTACGTGCACAAGCTATTAACAGAAGAACTCTGAGGCCAGTA
 GAATCAGAGTCAGAATTTGTGATCAAAATCCATGATATCAATGACAATGAGCCTACATCCAGAAGAAA
 TTTATACAGCCAGTGTCTGAAATGTCTGTTGTAGTACTTCTGTGGTCAAGTCACAGCTACAGATGC
 CGATGACCCTTCCTATGGAACAGCGCCAGAGTCATTTACAGCATCCTTCAAGGGCAGCCTATTTCTCT
 GTGGAACCAAGAAACAGGTATCATCAGAACAGCTCTGCCAAATATGAACCGAGAGAACAAGAACAGTACC
 AGGTGGTTATTCAAGCCAAGGATATGGGCGGCCAGATGGGGGGTTTGTCTGGAACCAACCAGTGAACAT
 CACTCTGACAGATGTCAACGACAATCCACCTCGCTTCCCCAGAACCATTCCATCTCAGAGTCTTGAA
 TCCTCTCCAGTTGGCACAGCTGTGGGAAGTGTAAAAGCCACTGATGCTGACACGGGGAAAAATGCTGAAG
 TGGATTACCGCATTATTGATGGAGATGGCACGGATATGTTTGACATTAACTGAGAAGGACACACAGGA
 AGGCATCATCACTGTGAAAAAGCCACTTGACTATGAGAACCGAAGACTATATACTCTGAAGGTGGAGGCA
 GAAAACACCCATGTGGATCCACGTTTTTATTATCTAGGGCCATTCAAAGATACTACAATTTGAAAAATCT
 CCATAGAAGACGTGGACGAGCCTCTGTTTTTCAGTCGATCCTCCTATCTGTTTGGAGTTCATGAGGATAT
 TGAAGTAGGCACAATCATTGGTACTGTAATGGCAAGAGATCCTGATTCTACATCCAGTCCCATCAGATTT
 ACATTGGATCGCCATACTGACCTTGACAGGATCTTTAACATTCTGAAATGGATCGCTTTATACAT
 CAAAGCCACTTGATCGTGAATTATCTCAATGGCACAATCTTACGTTATAGCTGCTGAGATCAATAATCC
 TAAAGAGACAACCTCGTGTCTGTTTTTGTGAGGATTTTGGATGTTAATGACAACGCTCCACAATTTGCT
 GTGTTTTATGACACATTTGATGTGAAAATGCCAGACCAGGACAGCTGATACAGACCATAAGTGCAGTTG
 ACAAGATGACCCCTTAGGTGGACAGAAGTTTTCTTCAGTTTGGCTGCTGTGAATCCGAACTTTACAGT
 ACAAGATAATGAAGACAACACTGCTAGAATTTTAAACAAGAAAGAATGGCTTCAACCGTCATGAAATAAGC
 ACCTATCTACTGCCGGTGGTATATCGGATAACGACTACCCAATTCAGAGCAGCACTGGCACCCCTGACGA
 TCCGTGTGTGCGCTGTGACAGCCAAGGCAACATGCAGTCTGTAGTGTGAAGCCCTGCTCTCCCCGC
 TGGCCTCAGCACTGGCGCCTTGATCGCCATTCTCCTCTGCATCATTATTCTGCTGGTTATAGTAGTCCTC
 TTTGCAGCCCTCAAAGGCAACGGAAGAAAGAGCCTCTGATTCTATCCAAGGAGGACATCAGAGACAACA
 TCGTGAGCTATAACGACGAAGGTGGTGGAGAGGAGGACACCCAGGCCCTTGATATAGGAACCTGAGGAA
 CCCTGCAGCTATCGAGGAGAAAAAGCTCCGGCGAGATATAATTCCTGAAACGTTATTTATACCCCGGAGG
 ACTCCTACCGCCCAGATAACACCGATGTCCGGGATTTTATTACGAGCGACTCAAAGAGCATGACCTGG
 ACCCCACTGCGCCTCCCTACGACTCACTGGCTACCTACGCCTACGAAGGAAACGACTCCGTGGCCGAATC
 TCTGAGCTCTTTAGAATCAGGTACCACTGAAGGAGACCAAACTACGATTACCTCCGAGAATGGGGACCT
 CGGTTTAATAAACTAGCAGAAATGTACGGTGGTGGCGAGAGCGACAAGATGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210660 representing NM_009865
 Red=Cloning site Green=Tags(s)

```

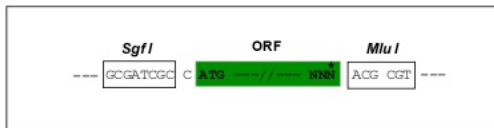
MTIYQFLRLFVLWACLPHFCCPELTFRRTPGIQQMTAESRAPRSDGKILHRQKRGWMWNQFFLLEEYTG
DYQYVVKLHSDQDKDGLSKYILSGDGAGTLFIIDEKTGDIHATRRIDREEKAFYTLRAQAINRRTLRPV
ESESEFVIKIHDINDNEPTFPEEITYTASVPEMSVVGTSVVQVTATDADDPSYGNSARVIYSILQGQPYFS
VEPETGIIRTALPNMNRNKEQYQVVIQAKDMGGQMGGLSGTTT VNITLTDVNDNPPRFPQNTIHLRVLE
SSPVGTAVGSVKATDADTGKNAEVDYRIIDGDDGDMFDIITEKDTQEGIITVKKPLDYENRRLYTLKVEA
ENTHVDPRFYLLGPFKDTTIVKISIEDVDEPPVFSRSSYLFEVHEDIEVGTIIGTVMARDPDSTSSPIRF
TLDRHTDLDRIFNIHSGNGSLYTSKPLDRELSQWHNLTVIAAEINPKETTRVSVFVRILDVNDNAPQFA
VFYDFTVCENARPGQLIQTISAVDKDDPLGGQKFFFLAAVNPNTVQDNEDNTARILTRKNGFNREHIS
TYLLPVVISDNDYPIQSSTGTLTIRVCACDSQGNMQSCSAEALLLPAGLSTGALIAILLCCIILLVIVVL
FAALKRQRKKEPLILSKEDIRDNIYSYNDGEGEEDTQAFDIGTLRNPAATIEEKKLRDRIIPETLFIIPRR
TPTAPDNTDVRDFINERLKEHDLPTAPPYDSLATYAYEGNDSVAESLSSLESGTTEGDQNYDYLREWGP
RFNKLAEYGGGESDKDA
  
```

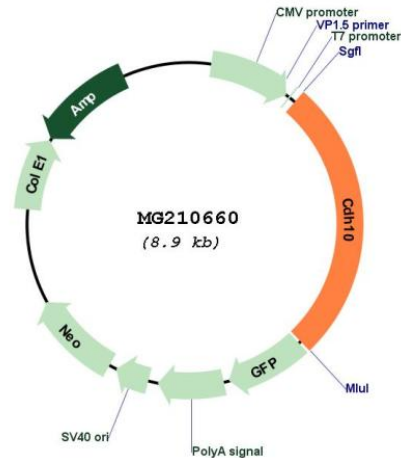
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


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_009865.1](#), [NP_033995.1](#)

RefSeq Size: 3405 bp

RefSeq ORF: 2367 bp

Locus ID: 320873

UniProt ID: [P70408](#)

Cytogenetics: 15 8.2 cM

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]