

Product datasheet for MR202789

Cldn10 (NM 021386) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cldn10 (NM 021386) Mouse Tagged ORF Clone

Tag: Myc-DDK Symbol: Cldn10

6720456I16Rik; Cldn; Cldn1; Cldn10a; Cldn10b; D14Ertd728; D14Ertd728e Synonyms:

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL) >MR202789 ORF sequence **ORF Nucleotide**

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTAGCACGGCCTTGGAAATCGTCGCCTTCGTAGTCTCCATCTCGGGCTGGGTGCTAGTGTCTTCCA CACTGCCCACCGACTACTGGAAGGTCTCCACCATCGATGGCACTGTCATCACCACAGCCACTTATTTTGC CAACCTGTGGAAGATCTGCGTTACCGATTCCACCGGTGTCGCCAACTGCAAGGAGTTCCCCTCCATGCTG GCGTTGGATGGTTACATCCAGGCATGTAGAGGACTAATGATCGCTGCGGTCAGCCTGGGATTTTTCGGTT CCATTTTTGCACTCTTTGGAATGAAATGTACCAAAGTCGGAGGCTCAGATCAAGCCAAAGCTAAAATCGC TTGCTTGGCCGGGATTGTATTCATATTGTCAGGTCTGTGTTCCATGACAGGCTGTTCCCTGTATGCAAAC AAAATCACAACAGAATTCTTTGATCCTCTATATGGAGCAAAAGTATGAATTAGGGGCTGCTCTCTCA TCGGATGGGCAGGAGCTTCTCTCTGCATCATTGGGGGAGTCATATTTTGCTTTTCAATATCCGACAACAA TAAGACACCCAGAATGGGCTACACATACAACGGACCCACGTCTGTCATGTCTTCTCGGACCAAGTATCAA GGCGGAGAAGGAGATTTTAAAACCGCAGGCCCTTCAAAACAGTTTGATAAAAATGCCTATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202789 protein sequence

Red=Cloning site Green=Tags(s)

MASTALEIVAFVVSISGWVLVSSTLPTDYWKVSTIDGTVITTATYFANLWKICVTDSTGVANCKEFPSML ALDGYIQACRGLMIAAVSLGFFGSIFALFGMKCTKVGGSDQAKAKIACLAGIVFILSGLCSMTGCSLYAN KITTEFFDPLYMEQKYELGAALFIGWAGASLCIIGGVIFCFSISDNNKTPRMGYTYNGPTSVMSSRTKYQ GGEGDFKTAGPSKQFDKNAYV

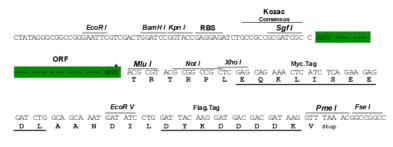
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_021386

ORF Size: 696 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: <u>NM 021386.3</u>

 RefSeq Size:
 960 bp

 RefSeq ORF:
 696 bp

 Locus ID:
 58187

 UniProt ID:
 Q9Z0S6

Cytogenetics: 14 62.55 cM MW: 24.7 kDa

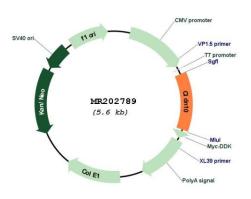
Gene Summary: This intronless gene encodes a member of the claudin family. Claudins are integral

membrane proteins and components of tight unction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. Six alternatively spliced transcript variants have been identified, which encode different isoforms with distinct electric charge of the first

extracellular loop and with or without the fourth transmembrane region. These isoforms exhibit distinct localization and function in paracellular anion or cation permeability.

[provided by RefSeq, Aug 2010]

Product images:



Circular map for MR202789