

## Product datasheet for **MC204128**

### **Cldn10 (NM\_021386) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cldn10 (NM_021386) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cldn10
Synonyms:	6720456I16Rik; Cldn; Cldn1; Cldn10a; Cldn10b; D14Ertd728; D14Ertd728e
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC029019  
 CGGGAACCGAGAGCGCCGCTGCAGCCAGCATGGCTAGCACGGCCTTGAAATCGTCGCCTTCGTAG  
 TCTCCATCTCGGGCTGGGTGCTAGTGTCTTCCACACTGCCACCGACTACTGGAAGGTCTCCACCATCGA  
 TGGCACTGTATCACCACAGCCACTTATTTGCCAACCTGTGGAAGATCTGCGTTACCGATTCCACCGGT  
 GTCGCCAACTGCAAGGAGTCCCTCCATGCTGGCGTTGGATGGTTACATCCAGGCATGTAGAGGACTAA  
 TGATCGCTGCGGTGAGCTGGGATTTTCGGTTCATTTTGCCTCTTTGGAATGAAATGTACCAAAGT  
 CGGAGGCTCAGATCAAGCCAAAGCTAAAATCGCTTGCTTGCCGGGATTGTATTCATATTGTCAGGTCTG  
 TGTCCATGACAGGCTGTTCCCTGTATGCAACAAAATCACACAGAATCTTTGATCCTCTCTATATGG  
 AGCAAAAGTATGAATTAGGGGCTGCTCTTTCATCGGATGGGCAGGAGCTTCTCTCTGCATCATTGGGGG  
 AGTCATATTTTGTCTTCAATATCCGACAACAATAAGACACCCAGAATGGGCTACACATAACAACGGACCC  
 ACGTCTGTATGCTTCTCGGACCAAGTATCAAGCGGAGAAGGAGATTTTAAAACCGCAGGCCCTTCAA  
 AACAGTTTGATAAAAATGCCTATGTCTAAAGAGCTCTGGCAAGCTGCCTCCTGAGTTTTGTGTGCAAGA  
 GAACTGTCCTCACAATAGTCCTTCCAAGGCTCTCCTGTAATTACTGCTTAAGCTGTTTTTAAAAATATA  
 AATTTGAAGAATGTTAATTGGATGTAATGTTCTTATAGTTATATACTAATCATTCTGCTGTGCCTTT  
 CTGTAAGGAAAATAAACAGGTTATTTACAGGGTGTGTATTTTTATACATAGAAGACATGGGTACCTT  
 TAGTTCCATAAGGCTCAGGGAATGGTAGCCACTGGATCCTTAATGTCTGAGAGCTCCCTCGTTCACCC  
 ACAGATCAACACAAGTGTGCAGACGATGGATGGTGTCTGTGTAAGGGGACAGCGATAATCTCAGACCCC  
 TCATCCAGTATCCAAGTCAAACAATCACACAACCAATGTGCCATGTCTGTTGATTTCTAGTTTCTGGTTC  
 TGTCCATCAGGGCTGTCTTTGTATGATGGCCAAAGAAAGGGCTGGTGAGGCCAAGGTGCCTTTGCCCT  
 GTGTGTGGACCATAAACACACGGGCTTGTCTGAGCGAGAGCATGTGACCACTAGCTGAGCTGGCCACTG  
 GTGGCGGCTGAATCTAAAGCCAGCTAAGGAAGCTCTGGGGCTGTGTGGGCTGGCTCTCTCATTTCCTG  
 TGATCAGGTGGTTTTGGAACAAAGATGCAGGTGAATTCCTGAGGCCAGCCCTGCATGTCACTTACCACA  
 AAGGCAGTAATTGTTCTCACTAGCACACAGCTTATAGGTGAGAGCACATTACCCTTACACACCCCTTA  
 ACCGTTGGTGCTTACATTTTCTGCGTGTGCAAGTGAAGAAACGTAGAGTAGGGAGCCCTGTAGTGCAGA  
 ACCAGGGCTGAGCTGGTCTAGGGTAAAATACATGGTTTCAAGTTGTAAGAACTGGTACTTCTGTATAT  
 GCTATAAATCGCCACAACGAGTCACATGGCTGACTACATGACTTTCCAGAGGGTAAAAGACTGAAAAG  
 GAAATAGAGGACTGTTTGCAGGGATTCAACGGAAAGGAAAGGAAAGGAAACTTTTTTTTAAAAAAGTA AAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_021386

**Insert Size:** 696 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC029019](#), [AAH29019](#)

RefSeq Size: 1904 bp

RefSeq ORF: 696 bp

Locus ID: 58187

UniProt ID: [Q9Z0S6](#)

Cytogenetics: 14 62.55 cM

**Gene Summary:** This intronless gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction 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]

Transcript Variant: This variant (b) differs in the 5' UTR and 5' coding region, representing use of an alternate promoter, compared to variant a. The resulting isoform (b) has a longer and distinct N-terminus, compared to isoform a. This variant is expressed in all tissues tested, with lowest expression in liver and highest expression in kidney.