

Product datasheet for **MC201661**

Cldn15 (NM_021719) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn15 (NM_021719) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cldn15
Synonyms:	2210009B08Rik; BB107105
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC023428 sequence for NM_021719
 CTGCCAGGAAGCAGAGCCTCCCAGAGACCAGGCAGAGGCACTCAGACCTGACCTCCAGAAGACGGCAGAC
 AAGAATCGCAGCTGGATGAGCGCTCCTTCAGCCTTCTCCCTCCTCAGTCTTCCGTGACATCCCTTTTGGG
 CCAAAGCCCCGGAAATTCACCTGGAGGTGCCAACTCTCCCTCTCAATCCCTGGGGCTCAAGCCCCCTTG
 GGGACCTGCATCCCAGCATGTGGTAGCTGTGGAGACCTTCGGCTTCTTCATGTGACGCCCTGGGACTGCT
 GATGCTGGGTTGACCCTTTCAAACAGCTACTGGAGAGTGTCTACGGTCCATGGCAACGTATCACCACC
 AACACCATCTTTGAGAACCTGTGGTACAGCTGTGCCACCGACTCCCTGGGAGTCTCCAACCTGCTGGGACT
 TTCCGTCCATGCTGGCCCTCTCTGGGTATGTCCAGGGCTGCCGGGCTCTCATGATCACCGCCATCCCTCT
 GGGCTTCTGGGCTCTTTCTAGGCATGGTGGGACTCCGCTGCACCAACGTGGGCAACATGGATCTCTCC
 AAGAAGGCCAAGCTGCTGGCCATTGCAGGGACCCTCCACATACTTGTGGAGCCTGTGGGATGGTGGCTA
 TCTCGTGGTACGCCGTAACATCACTACTGACTTCTTCAACCCACTGTATGCTGGAACCAAGTGAACCT
 GGGCCCCGCCCTCACTTGGGCTGGAGTGCCTCCCTGCTCTCCATCCTGGGCGGCATCTGTGTCTTCTCC
 ACCTGCTGCTGTTCTCCAAGGAGGAACCAGCCACCAGGGCTGGGCTTCCCTACAAGCCTTCTACGGTTG
 TGATACCCCGTGCACCTCGGATGAGAGTGACATCAGCTTCGGTAAATATGGCAAAAACGCATACGTGA
 GGAAGCTCTGGCCTGCTGGACACATTTCTGTCCCACTGTCTCCAGGACCTGCAGGCAGACCAGTCTCC
 AGTTAATAACCTCAGGACAGGCCAAATTTCTGGCCTCACCTGTGCCTGGAAGCCACTACCCACTCTAG
 GCACACCTTATCTGGCACTCAGCCTCTCCCTGGAACAGAAGCTTCAGGGGCAACTTGCTGCTTCTTACA
 GCTGGACACAAGGGGACAGAGGTGTCTGCAGCATGTGACTCCATATAAATGTGTGCATGAATAAATGAT
 ATTGTGATTGTTCAAGGGGACACAGGGGTGATGGAGTACAGCCACATAAGGGAGTCTTTTTCAAACCCAC
 AGACTGTCAAGTCTGCCCAATTTGGGGGCTGTCTCATCTAGTGAGATAGTGTGTGAGGGAGCTGGGGAGA
 TGGCTCAGTGAGTTGAGTGTGTTGCTACCAAGTATGAGGACCTGAGTTCAAATCCCAGAACCTGTGTGA
 ATGGCAGGCCATGGATAACAATCCTGCAACCCAAGTATGCTAGGTTGAGGTATTCTTGAGGCTTCTGGCT
 TCCACCCTGGCTCCAGGCTCCATATGAGACGCAGTCTTAAGGGAATGAGGTGGAGCGCATGGAGCAGGG
 AGCTGGAACCCCTTCCACCTTCTCAGGCACACAGACTTGTACATAGACTACACACATGCACACATTC
 TCAACAAAAGGATTTGAAAGGGGAGTCACTAACAAGTATCCAAGTCAACCCACCTCAGGAGATTGCTAA
 TAGCTGTGAAGCTCCTGGCCTGCTGAAAGTTCTCTGTTGACTCTTGACCTATTTTCTCACAGCCTCA
 CACAGGGCAGTTGATCTAGAACAGGCATTGGTAGGTGCATGTGTGTTGAAAGTTTGGGGTTTAAATA
 AAGATATTTTAAATGAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_021719

Insert Size: 684 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC023428](#), [AAH23428](#)

RefSeq Size: 1851 bp

RefSeq ORF: 684 bp

Locus ID: 60363

UniProt ID: [Q9Z0S5](#)

Cytogenetics: 5 G2

Gene Summary: This 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. This protein increases permeability for sodium ions in anion-selective epithelial cell sheets. The gene deficiency leads to megaintestine and decreases in intestinal epithelial paracellular ion permeability. This gene is a direct target for hepatocyte-nuclear-factor-4alpha, a mediator of ion epithelial transport, and is down-modulated in inflammatory bowel disease. [provided by RefSeq, Aug 2010]