

Product datasheet for **MC206508**

Cldn2 (BC015252) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn2 (BC015252) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cldn2
Synonyms:	AL022813
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC015252
 GAAAGAAGTCAGCTTGCCAGAGACTGTGAAATAAGGGATTAGAGGCTCGGATCCAAGAAGCAAGAGCA
 GCAGCCAAACGACAAGCAAAACAGGCTCCGAAGATACTTCTACTGAGAGGTCTGCCATGGCCTCCCTTGGC
 GTTCAACTGGTGGGCTACATCCTAGGCCTTTTGGGGCTGTTAGGCACATCCATTGCCATGCTGCTCCCA
 ACTGGCGAACGAGTTCCTATGTTGGTGCCAGCATTGTGACGGCGGTTGGCTTTTCCAAGGGCCTCGGAT
 GGAGTGTGCGACACACAGCACAGGCATCACCCAGTGCATATCTACAGTACCCTTTTAGGACTTCTGCT
 GACATCCAGGCTGCCAGGCCATGATGGTGACGTCCAGTCAATGTCCTCGCTGGCTTGTATTATCTCTG
 TGGTGGGCATGAGATGCACCGTGTCTGCCAGGATTCTCGAGCTAAGGACAGAGTGGCTGTAGTGGGTGG
 AGTCTTTTTTCATCCTTGGTGGCATCCTGGGCTTTATCCCAGTTGCTTGGAAATCTTCATGGCATCCTTCGG
 GACTTCTACTCGCCGCTGGTTCCTGACAGCATGAAATTTGAGATTGGAGAGGCTCTGTAATTGGGCATCA
 TCTCAGCCCTGTTTTCTTGGTAGCCGGAGTCATCCTTTGCTTTTCTGCTCGCCCCAGGGCAATCGTAC
 CAACTACTATGATGGCTACCAGGCCAGCCTCTTGCCACTAGGAGCTCTCCAAGATCTGCTCAACAGCCC
 AAAGCCAAGAGTGAGTTCAACTCATACAGCCTGACTGGGTATGTGTGAAGAACCAGGGGCCAGAGCTGGG
 GGTAGGGTGGGTAGTGGCTGGGACTATATATATAAAAAAAGCAGTGGACAATGCCCCAGGGTACAA
 GCAAAGGACATTGCCACTGAATCATGTGTAAGGTGCTGCTGAGGGTAGAATGACTTTGGCCATTGGATGG
 AGTGAAGGCAGAGATGAGAAGAGGGGTGTGAGCATGTAGATGGCATTGCCAAGGACGCTTGCCAAGCTAG
 CTTTTCTATTTCCCTCACCTGACCTCACTAAAGTACCTCCTGTGCTTTGAATGCTCAACCCAAAAGCCCA
 AATCCCATCTCTGCCACTTTAGGCTATGCCAGAGGCTCTCTTCTGCCCTTTGGTTTACTTGGAGATCTG
 TCCCCAAACCAATCATATCCTGTTGACTAATCACCTGTGATCAAAAGACCCTCTCCCTCTGGCTGAGGTT
 GGCTCTTAACTCAATTAAGGGACAGAGAGAAGAAAGAGTGGTGGCTTCTGTGAGGACATTTCTAGCT
 CCCTTCTCAAATCTCCAGCCAAAGAAATGGATTAGTCAGTAATGGGCCCTGAAGCTTCTCTTCCAGTTTT
 GCTATGAATGCAGTATGTCCAGACTGCATTGTGAATGAACTGAAGGAAAGCTATCTCATGGCATCCAGCA
 GAATACAGCTGGGTGCAGGATGGGAGGCAACCTGGGATCTAAAGAAACAAAACAAACAGCAAAACCCGAC
 AGAATCCCTTCTCAGGCCATCTCCTATAATTCCCGTACATTTGTGGGTGAGGGATGGAAGCACTGCTAAG
 GAAAGCAAGAAGCCAAAGGAAAGCACATGGCTGCTGCCTCTGACTCCACAGAGGAATTGCCAGAAAG
 CCAAGGTGAACACGACCCTGAAAGCTCTGCCTCCCACTGGGGTGTCTGACCCAGCTTCTGCTAAACC
 ACAAGACTTGGAGCCCTAGACAAGGTTTCTTAAAGACAATAAACAGTTTTTTCTAGAAGTGCCTTTG
 ACATGCGAGTTGCAGAAGGCTTAAAAAAATACTACCCTTTAGCCCTGACCGAGAAAGAATAAGGGCTTG
 GGTATCAAAGAACCGACAGAGATGTGTGGTAGCTGTTATGTGTGCTCCTACTGTTTCAGAGAGGCAGCC
 CTACCAGATACTTAGACTTGATGGAAGACCAACCCATCAGGGTCTATGTCTCAGCACTACAGAGCCTCT
 GAAAGACCACAGCACCAGAGAGGTCCTTTGTCACCTTTTACACTTGAGTCATCGCCCATCAGAAGATATT
 CTCACAGGTATGCAAAGTCTCCAGTGTGGAACATCTGTGACCAAGGTGTTGTGTTTATGACCTGAGCAAT
 TGGTGAACCTTCTGCCTGGGATTGTGCTTGGGTGGGAGAACGGAGACTGGTTCCTGTCCAACAGTTTTTA
 TTTCCACGGTCTTAAATGCTCCATTTCTTCTGTGGTAGATGGGGGTATAAACCCAGAGACATTTCCCA
 CCACCAGCAGCTTAATATCACCAGCTTCAGAAGATCCCCAGCGCACCTCATCAAACTTCAGCACCAGGCA
 AGAGAGGCCCATATGTGAGGTTTCCCTTAAATGCCTTTCTATTTCCACCATATTACTTGTGTTCAAGC
 TGATATGCTGACCTGGAAGCCATTTCTTTTAACTAAGTCATCCCATGCTTGGAGAACTTGCTCATTGA
 GCCTTCTCTGACCACTCCTTCTGTTCTTTCTTTCCCTCCTCCAACCTCCAATATATAAATTGCCTAAT
 CCTCATATTCAATTTTGAATGATAGTTTATAGTTCTTGTATGTGCATTTGTGTGACTCTATCCGT
 CTGTCTGTCTGTGTGATCTCAAAAGTTCAGTGAAGTACTTGGAGGGCAATTGCTATATCTTAGACCTGT
 CCATATGTATAACCAAGACTGTAAACAGTCTGGGCACACACAAGGTGATCAATAAACGGATGTTGATTGA
 GTAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC015252
Insert Size: 693 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:	<ol style="list-style-type: none">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:	BC015252 , AAH15252
RefSeq Size:	2828 bp
RefSeq ORF:	693 bp
Locus ID:	12738
Cytogenetics:	X F1
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. The knockout mice lacking this gene display normal appearance, activity, growth and behavior, but are defective in the leaky and cation-selective paracellular permeability properties of renal proximal tubules. The proteins encoded by this gene and another family member Cldn12 are also critical for vitamin D-dependent Ca ²⁺ absorption between enterocytes. [provided by RefSeq, Aug 2010]