

Product datasheet for **MC213151**

Cldn19 (NM_001038590) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn19 (NM_001038590) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cldn19
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC213151 representing NM_001038590 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAACCTCGGGCTCCAGCTCCTGGGCTACTTCTAGCCTTGGGCGGCTGGGTGGGCATCATCGCCA
GCCTGCCCTGCCACAGTGGGAAGCAGTCTTCTATGCAGGCGATGCCATCATCACTGCCGTGGCCCTCTA
CGAAGGGCTGTGGATGTCTTGGCCTCTCAGAGCACCGGGCAGGTGCAATGCAAACCTCTACGATTCACTC
CTGGCCCTGGACGGTCATATCCAGTCAGCACGAGCCCTGATGGTCGTGGCTGTGCTCCTGGGCTTTGTGG
CCATGGTGCTCAGTGTCGTGGGATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
TGTGGCCATCTCCGAGGTGCTCTTCTCTTGGCAGGTCTCTGTACTTTGACTGCTGTCTCCTGGTAT
GCTACCCTGGTAACACAGGAATTCTTCAACCCAGCACTCCTGTCAATGCCAGGTACGAATTTGGCCAG
CTCTGTTCTGGTGGGCTGGGCTCGGCCGGCCTGGCCATGCTGGGCGGTTTCCTTCTCTGCTGCACATGCC
AGAGCCGGAGAGGGCGAACAGCATCCCACAGCCCTATCGCTCTGGACCCTCAACTGCTGCCAGAGAACCT
GTTGTTAAGTTGCCCGCCTCGGTCAAGGGCCCCCTGGGTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001038590
Insert Size:	675 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).



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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:	<u>NM_001038590.1</u> , <u>NP_001033679.1</u>
RefSeq Size:	888 bp
RefSeq ORF:	675 bp
Locus ID:	242653
UniProt ID:	<u>Q9ET38</u>
Cytogenetics:	4 D2.1
Gene Summary:	<p>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. siRNA knockdown of this gene in mice develops the FHHNC (familial hypomagnesemia with hypercalciuria and nephrocalcinosis) symptoms of chronic renal wasting of magnesium and calcium together with defective renal salt handling. The protein encoded by this gene interacts with another family member, Claudin 16, and their interaction is required for their assembly into tight junctions and for renal reabsorption of magnesium. This protein is a constituent of tight junctions in the Schwann cells of peripheral myelinated nerves and the gene deficiency affects the nerve conduction of peripheral myelinated fibers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2010]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>