

## Product datasheet for **SC122357**

### Claudin 2 (CLDN2) (BC071747) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Claudin 2 (CLDN2) (BC071747) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Claudin 2  
**Synonyms:** claudin 2; OTTHUMP00000023793  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC071747 edited  
GAGAGAAGTCAGCCTGGCAGAGAGACTCTGAAATGAGGGATTAGAGGTGTTCAAGGAGCA  
AGAGCTTCAGCCTGAAGACAAGGGAGCAGTCCCTGAAGACGCTTCTACTGAGAGGTCTGC  
CATGGCCTCTCTTGGCCTCCAACCTGTGGGCTACATCCTAGGCCTTCTGGGGCTTTTGGG  
CACACTGGTTGCCATGCTGCTCCCCAGCTGGAAAACAAGTTCTTATGTCGGTGCCAGCAT  
TGTGACAGCAGTTGGCTTCTCCAAGGCCTCTGGATGGAATGTGCCACACACAGCACAGG  
CATCACCCAGTGTGACATCTATAGCACCTTCTGGGCCTGCCCGTGACATCCAGGCTGC  
CCAGGCCATGATGGTGACATCCAGTGAATCTCCTCCCTGGCCTGCATTATCTCTGTGGT  
GGGCATGAGATGCACAGTCTTCTGCCAGGAATCCCAGCCAAAGACAGAGTGGCGGTAGC  
AGGTGGAGTCTTTTTCATCCTTGGAGGCCTCCTGGGATTCATTCTGTTGCCTGGAATCT  
TCATGGGATCCTACGGGACTTCTACTCACCCTGGTGCCTGACAGCATGAAATTTGAGAT  
TGGAGAGGCTCTTACTTGGGCATTATTTCTCCCTGTTCTCCCTGATAGCTGGAATCAT  
CCTCTGCTTTTCTGCTCATCCCAGAGAAATCGCTCCAACCTACTACGATGCCTACCAAGC  
CCAACCTCTTGCCACAAGGAGCTCTCCAAGGCCTGGTCAACCTCCCAAAGTCAAGAGTGA  
GTTCAATTCCTACAGCCTGACAGGGTATGTGTGAAGAACCAGGGGCCAGAGCTGGGGGT  
GGCTGGTCTGTGAAAACAGTGGACAGCACCCGAGGGCCACAGGTGAGGGACTACC  
ACTGGATCGTGTGAGAAGTGTGCTGAGGATAGACTGACTTTGGCCATTGGATTGAGCA  
AAGGCAGAAATGGGGCTAGTGTAAACAGCATGCAGTTGAATTGCCAAGGATGCTCGCCA  
TGCCAGCCTTTCTGTTTTCTCACCTTGTGCTCCCCTGCCCTAAGTCCCAACCCTCAA  
CTTGAAACCCATTCCCTTAAGCCAGGACTCAGAGGATCCCTTTGCCCTCTGTTTACCT  
GGGACTCCATCCCAAAACCCACTAATCACATCCCCTGACTGACCCTCTGTGATCAAAGA  
CCCTCTCTGGCTGAGGTTGGCTCTTAGCTCATTGCTGGGGATGGGAAGGAGAAGCAGT  
GGCTTTTGTGGCATTGCTCTAACCTACTTCTCAAGCTTCCCTCCAAAGAACTGATTGG  
CCCTGGAACCTCCATCCCCTCTTGTATGACTCCACAGTGTCCAGACTAATTTGTGCAT  
GAACTGAAATAAAACCATCCTACGGTATCCAGGGAACAGAAAGCAGGATGCAGGATGGGA  
GGACAGGAAGGCAGCCTGGGACATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC071747 unedited NACGTTCTTATTTTGTNATACGACTTACTATAGGCGGCACGCGAATTCGCACGAGGAGAG AATCAGCCTGGCAGAGATCTCTGAAATGAGGATTAGAGGTGTTCAAGGAGCAAGAGCTTC AGCCTGAAGACAAGGGAGCAGTCCCTGAAGACGTTCTACTGAGAGGTCTGCCATGGCCT CTCTTGGCCTCCAACCTTGTGGGTACATCCTATGCCTTCTGGGGCTTTTGGGCACACTGG TTGCCATGCTGCTCCCCAGCTGGAAAACAAGTTCTTATGTGGTGCCAGCATTGTGACAG CAGTTGGCTTCTCCAAGGGCCTCTGGATGGAATGTGCCACACACAGCAGCAGGCATCACCC AGTGTGACATCTATAGCACCTTCTGGGCTGCCCGCTGACATCCAGGCTGCCAGGCCA TGATGGTGACATCCAGTGAATCTCCTCCTGGCCTGCATTATCTCTGTGGTGGGCATGA GATGCACAGTCTTCTGCCAGGAATCCCGAGCCAAAGACAGAGTGGCGGTAGCAGGTGGAG TCTTTTTCATCCTTGGAGGCCTCTGGGATTCATTCTGTTCCTGGAATCTTCATGGGA TCCTACGGGACTTCTACTCACCCTGGTGCCTGACAGCATGAAATTTGAGATTGGAGAGG CTCTTTACTTGGGCATTATTTCTCCCTGTTCTCCCTGATAGCTGGAATCATCCTCTGCT TTTCTGCTCATCCAGAGAAATCGCTCCAACCTACTACGATGCCTACCAAGCCCAACCTC TTGCCACAAGGAGCTCTCCAAGGCTGGTCAACCTCCCAAGTCAAGAGTGAGTTCAATTC CTACAGCCTGACAGGGTATGTGTGAAGAACCAGGGGCCAGAGCTGGNGGTAGCTAGGTC TGT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC071747
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">BC071747.1</a></u> , <u><a href="#">AAH71747.1</a></u>
<b>RefSeq Size:</b>	1618 bp
<b>RefSeq ORF:</b>	690 bp
<b>Locus ID:</b>	9075
<b>Cytogenetics:</b>	Xq22.3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

**Gene Summary:**

This gene product belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. This protein is expressed in the intestine. Alternatively spliced transcript variants with different 5' untranslated region have been found for this gene.[provided by RefSeq, Jan 2010]