

Product datasheet for **SC122459**

CLDN19 (BC030524) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLDN19 (BC030524) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLDN19
Synonyms:	claudin 19; OTTHUMP00000008733
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for BC030524 edited
 CTGGCCATGACCAAGCCCTGCTGGCACCCCTGGCCAGCTCTGAGTCCTGGGACCCTCG
 GTCCTCTCTCTGGGCCATGGCCAACTCAGGCCTCCAGCTCCTGGGCTACTTCTTGGCCC
 TGGGTGGCTGGGTGGGCATCATTGCTAGCACAGCCCTGCCACAGTGGAAGCAGTCTTCT
 ACGCAGGCGACGCCATCATCACTGCCGTGGGCCTCTATGAAGGGCTCTGGATGTCCTGCG
 CCTCCCAGAGCACTGGCAAGTGCAGTGCAAGCTCTACGACTCGCTGCTCGCCCTGGACG
 GTCACATCCAATCAGCGCGGGCCCTGATGGTGGTGGCCGTGCTCCTGGGCTTCTGGGCCA
 TGGTCCTCAGCGTAGTTGGCATGAAGTGTACGCGGGTGGGAGACAGCAACCCCATTGCCA
 AGGGCCGTGTTGCCATCGCCGGGGAGCCCTCTTCATCCTGGCAGGCCTCTGCACTTTGA
 CTGCTGTCTCGTGGTATGCCACCCTGGTGACCCAGGAGTTCTTCAACCCAAGCACACCTG
 TCAATGCCAGGTATGAATTTGGCCAGCCCTGTTCTGGGCTGGGCCTCAGCTGGCCTGG
 CCGTGCTGGGCGGCTCCTTCTCTGCTGCACATGCCCGGAGCCAGAGAGACCCAAACAGCA
 GCCCAGAGCCCTATCGGCCTGGACCCTCTGCTGCTGCCGAGAGTACGTCTGAGCTCTGC
 CTGCCCTGGCCAGCCCCCACCAGTGGCCCCCTTGCCAGCATCCAGCCAGCCTCGCAG
 CACCCTGGGCAGGGCCACTGGGGCATAGGATGGGCATAGGTGCTCTGAGCAGCTTGTCT
 CAACACAAGCACCCACCTGCAATCTGAGACCCAGATCCTCAGAGAGACACCAGAGGCAG
 GACCCAGCCCCCAGGCATACACACAGATGCAGGTCCAGGCACGGTCTTGTCTGCACAGCC
 TGGTGGGACACAGCATGCATCCCTGGAGACAGGCCCTCAGGCACCCAGCCGGCTGTTTAC
 TCACTGAAGAGCTGCGTGGGTGTCTGCTACGTGCTGGGCCTAGAGATAGAGCAGTGGCC
 AAGACGTACCTTAGTACCCAGGTCTTGGGGTGAAGCAAACTTCAACCTCCCAAGTCC
 CATGGGCTCCTCACAGCAACCCACAAGGGCAGTGCCGGGATGCTGAACGTTACACAAG
 GACAGGGAGGGTCTGAGTTTAGGTCTCAGGTCTTCCAGTGCGCCAGGGCTGGGGGCCA
 CCTACACAGATGGTGAGGTGCGACCATGGCGCCCTGCCCGGGGAATGGGCCCAAGGCA
 GGGCTGTGTGAGGGCCAAGGTCTGGCCACGCTGGCCAGTACCCATGTCCGGGCTGAAT
 GCACAGCCCTGCCCGGACCCACAGCTCACTCACTAACCAGCTCTCTCTTTTGAC
 TTTGAGACCAGTTGTTAAATTGCCCGCCTCCGCCAAGGGCCCCCTGGGTGTGAATGTCC
 AGTCCCCAGCCAGGCTCTGTCCCTGCCATACCTAGACTGTGTGTTTCATATTTTTTTTG
 AAAGAGAAGTGAACATCCAGCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC030524 unedited
 NTTTCAGTTCAAAATTTGTATACGACTCACTATAGGCGGCCGCAATCCCGGGATCTGGC
 CATGACCAAGCCCTGCTGGCACCCCTGGCCAGCTCTGAGTCCTGGGACCCTCGGTCT
 CTCTCTGGGCCATGGCCAACTCAGGCCTCCAGCTCCTGGGCTACTTCTTGGCCCTGGGT
 GGCTGGGTGGGCATCATTGCTAGCACAGCCCTGCCACAGTGGAAGCAGTCTTCTACGCA
 GGCGACGCCATCATCACTGCCGTGGGCCTCTATGAAGGGCTCTGGATGTCCTGCGCCTCC
 CAGAGCACTGGCAAGTGCAGTGCAAGCTCTACGACTCGCTGCTCGCCCTGGACGGTCAC
 ATCCAATCAGCGCGGGCCCTGATGGTGGTGGCCGTGCTCCTGGGCTTCTGGCCATGGTC
 CTCAGCGTAGTTGGCATGAAGTGTACGCGGGTGGGAGACAGCAACCCATTGCCAAGGGC
 CGTGTTGCCATCGCCGGGGAGCCCTCTTCATCCTGGCAGGCCTCTGCACTTTGACTGCT
 GTCTCGTGGTATGCCACCCTGGTGACCCAGGAGTTCTTCAACCCAAGCACACCTGTCAAT
 GCCAGGATGAAATTTGGCCAGCCCTGTTCTGGGCTGGGCCTCAGCTGGCCTGGCCGT
 GCTGGGCGGCTCCTTCTCTGCTGCACATGCCCGGAGCCAGAGAGACCCAAACAGCAGCCC
 ACAGCCCTATCGGCCTGGACCCTCTGCTGCTGCCGAGAGTACGTCTGAGCTCTGCCTGC
 CCTGGCCAGCCCCCACCAGTGGCCCCCTTGCCAGCATCCAGCCAGCCTCGCAGCACC
 CTGGGCAGGGCCACTGGNGCATTAGATGGGCATAGGTGCTCTGAGCAGCTTGTTCA

Restriction Sites: Please inquire
ACCN: BC030524
Insert Size: 1616 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:	BC030524.1 , AAH30524.1
RefSeq Size:	1616 bp
RefSeq ORF:	633 bp
Locus ID:	149461
Cytogenetics:	1p34.2
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Gene Summary:	The product of this gene belongs to the claudin family. It plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity. Defects in this gene are the cause of hypomagnesemia renal with ocular involvement (HOMGO). HOMGO is a progressive renal disease characterized by primary renal magnesium wasting with hypomagnesemia, hypercalciuria and nephrocalcinosis associated with severe ocular abnormalities such as bilateral chorioretinal scars, macular colobomata, significant myopia and nystagmus. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jun 2010]