

Product datasheet for **SC321664**

Claudin 1 (CLDN1) (NM_021101) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 1 (CLDN1) (NM_021101) Human Untagged Clone
Tag:	Tag Free
Symbol:	Claudin 1
Synonyms:	CLD1; ILVASC; SEMP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_021101.3
 CCAGACTCCAGCGCCGCCCGGGCGCGGACCCCAACCCCGACCCAGAGCTTCTCCAGCGG
 CGGCGCAGCGAGCAGGGCTCCCCGCCTTAACTTCTCCGCGGGGCCAGCCACCTTCGGG
 AGTCCGGGTTGCCACCTGCAAACCTCTCCGCCTTCTGCACCTGCCACCCCTGAGCCAGCG
 CGGGCGCCGAGCGAGTCATGGCCAACGCGGGGCTGCAGCTGTTGGGCTTCATTCTCGCC
 TTCCTGGGATGGATCGGCGCCATCGTCAGCACTGCCCTGCCCCAGTGGAGGATTTACTCC
 TATGCCGCGACAACATCGTGACCGCCAGGCCATGTACGAGGGGCTGTGGATGCCTGC
 GTGTGCGAGAGCACCGGGCAGATCCAGTGCAAAGTCTTTGACTCCTTGCTGAATCTGAGC
 AGCACATTGCAAGCAACCCGTGCCTTGATGGTGGTTGGCATCCTCCTGGGAGTGATAGCA
 ATCTTTGTGGCCACCGTTGGCATGAAGTGTATGAAGTGTGGAAAGACGATGAGGTGCAG
 AAGATGAGGATGGCTGCTATTGGGGCGCGATATTTCTTCTTGCAGGTCTGGCTATTTTA
 GTTGCCACAGCATGGTATGGCAATAGAATCGTTCAAGAATTCTATGACCCATGACCCCA
 GTCAATGCCAGGTACGAATTTGGTCAGGCTCTTCTCACTGGCTGGGCTGTGCTTCTCTC
 TGCCCTTCTGGGAGGTGCCTACTTTGCTGTTTCTGCCCCGAAAAACAACCTCTTACCCA
 ACACCAAGGCCCTATCCAAAACCTGCACCTTCCAGCGGGAAGACTACGTGTGACACAGA
 GGCAAAAGGAGAAAAATCATGTTGAAACAACCGAAAAATGGACATTGAGATACTATCATT
 ACATTAGGACCTTAGAATTTTGGGTATTGTAATCTGAAGTATGGTATTACAAAACAAACA
 AACAAAACAAAAACCCATGTGTTAAAATACTCAGTGCTAAACATGGCTTAATCTTATTTT
 ATCTTCTTTCTCAATATAGGAGGGAAGATTTTCCATTTGTATTACTGCTTCCCATTGA
 GTAATCATACTCAACTGGGGGAAGGGTGTCTCCTTAAATATATATAGATATGTATATATA
 CATGTTTTTCTATTAATAATAGACAGTAAATACTATTCTCATTATGTTGATACTAGCAT
 ACTTAAAAATCTCTAAAAATAGGTAAATGTATTTAATTCCATATTGATGAAGATGTTAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_021101



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
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:	NM_021101.3 , NP_066924.1
RefSeq Size:	3445 bp
RefSeq ORF:	636 bp
Locus ID:	9076
UniProt ID:	O95832
Cytogenetics:	3q28
Domains:	PMP22_Claudin
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Tight junction
Gene Summary:	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. [provided by RefSeq, Jul 2008]