

Product datasheet for **SC121707**

Claudin 7 (CLDN7) (NM_001307) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 7 (CLDN7) (NM_001307) Human Untagged Clone
Tag:	Tag Free
Symbol:	Claudin 7
Synonyms:	CEPTRL2; claudin-1; CLDN-7; CPETRL2; Hs.84359
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001307, the custom clone sequence may differ by one or more nucleotides

```
ATGGCCAATTCGGGCTGCAGTTGCTGGGCTTCTCCATGGCCCTGCTGGGCTGGGTGGGTCTGGTGGCCT
GCACCGCCATCCCGCAGTGGCAGATGAGCTCCTATGCGGGTGACAACATCATCACGGCCCAGGCCATGTA
CAAGGGGCTGTGGATGGACTGCGTCACGCAGAGCACGGGGATGATGAGCTGCAAATGTACGACTCGGTG
CTCGCCCTGTCCGCGGCCTTGCAGGCCACTCGAGCCCTAATGGTGGTCTCCCTGGTGCTGGGCTTCTCG
CCATGTTTGTGGCCACGATGGGCATGAAGTGCACGCGCTGTGGGGGAGACGACAAAGTGAAGAAGGCCCG
TATAGCCATGGGTGGAGGCATAATTTTCATCGTGGCAGGTCTTGCCGCTTGGTAGCTTGCTCCTGGTAT
GGCCATCAGATTGTCACAGACTTTTATAACCCTTTGATCCCTACCAACATTAAGTATGAGTTTGGCCCTG
CCATCTTTATTGGCTGGGCAGGGTCTGCCCTAGTCATCCTGGGAGGTGCACTGCTCTCCTGTTCTGTCC
TGGGAATGAGAGCAAGGCTGGGTACCGTGTACCCGCTTACCCTAAGTCCAACCTTCCAAGGAGTAT
GTGTGA
```



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001307 unedited NGGTTTCGGTATTTGTTAAACGACTCACTATAGGCGGCCGGAATTGGCACGAGGCTGCTG GCTCACCTCCGAGCACCTCTGCTGCGCACCCGAGCCTCGGACCTACAGCCCAGGATACTT TGGGACTTGCCGGCGCTCAGAAACGCGCCAGACGGCCCTCCACCTTTTGTTCCTAG GGTCCGCGAGAGCGCCCGAGGGAACCGCCTGGCCTTCGGGGACCACCAATTTTGTCTGG AACACCCTCCCGCGTATCCTACTCCCTGTGCCGCGAGGCCATCGCTTCACTGGAGGGG TCGATTTGTGTAGTTTGGTGACAAGATTTGCATTACCTGGCCAAACCCTTTTGTGTC TCTTTGGGTGACCGAAAACCTCCACCTCAAGTTTTCTTTTGTGGGCTGCCCCCAAGTG TCGTTTGTTTACTGTAGGGTCTCCCGCCGGCGCCCAAGTGTTTTCTGAGGGCGGAAA TGGCCAATTCGGGCTGCAGTTGCTGGGCTTCTCCATGGCCCTGCTGGGCTGGGTGGGTC TGGTGGCTGCACCGCCATCCCGCAGTGGCAGATGAGCTCCTATGCGGGTGACAACATCA TCACGGCCAGGCCATGTACAAGGGGACTGTGGATGGACTGCGTCACGCAGAGCACGGGG ATGATGAGCTGCAAAATGTACGACTCGGTGCTCGCCCTGCCGCGCCTGCAGGCCACT CGAGCCCTAATGGTGGTCTCCCTGGTGTGGGCTTCTGGCCATGTTTGTGGCCACGATG GGCATGAAGTGCACGCGCTGTGGGGAGACCGACAAGTGAAGAACGCCGTATAGCCATG GGTGGAGGCATAATTTTCATCGTGGCAAGTCTTGCCACCTTGGTAGCTTGTCTCTGGTAT GGCCATCAGATTGTCACAGACTTTTATGACCCTTTGATACCTACCAACATAA
Restriction Sites:	Please inquire
ACCN:	NM_001307
Insert Size:	2000 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:	NM_001307.3 , NP_001298.2
RefSeq Size:	1332 bp
RefSeq ORF:	636 bp
Locus ID:	1366
UniProt ID:	O95471
Cytogenetics:	17p13.1
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

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. Differential expression of this gene has been observed in different types of malignancies, including breast cancer, ovarian cancer, hepatocellular carcinomas, urinary tumors, prostate cancer, lung cancer, head and neck cancers, thyroid carcinomas, etc.. Alternatively spliced transcript variants encoding different isoforms have been found.

[provided by RefSeq, May 2010]

Transcript Variant: This variant (1) encodes the longer isoform (1).