

Product datasheet for **SC126873**

Claudin18 (CLDN18) (NM_016369) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin18 (CLDN18) (NM_016369) Human Untagged Clone
Tag:	Tag Free
Symbol:	Claudin18
Synonyms:	SFTA5; SFTPJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_016369, the custom clone sequence may differ by one or more nucleotides

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ATGTCCACCACCACATGCCAAGTGGTGGCGTTCCTCCTGTCCATCCTGGGGCTGGCCGGCTGCATCGCGG
CCACCGGGATGGACATGTGGAGCACCCAGGACCTGTACGACAACCCCGTCACCTCCGTGTTCCAGTACGA
AGGGCTCTGGAGGAGCTGCGTGAGGCAGAGTTCAGGCTTCACCGAATGCAGGCCCTATTTACCATCCTG
GGACTTCCAGCCATGCTGCAGGCAGTGCAGCCCTGATGATCGTAGGCATCGTCTGGGTGCCATTGGCC
TCCTGGTATCCATCTTTGCCCTGAAATGCATCCGATTGGCAGCATGGAGGACTTGCCAAAGCCAAACAT
GACTGACCTCCGGGATCATGTTTCATTGTCTCAGGTCTTTGTGCAATTGCTGGAGTGTCTGTGTTGCC
AACATGCTGGTGACTAATTCTGGATGTCCACAGCTAACATGTACACCGCATGGGTGGGATGGTGCAGA
CTGTTCCAGACCAGGTACACATTTGGTGGCGCTCTGTTTCGTGGGCTGGGTCGCTGGAGGCCTCACACTAAT
TGGGGGTGTGATGATGTGCATCGCTGCCGGGGCTGGCACCAGAAGAAACCAACTACAAAGCCGTTTCT
TATCATGCCTCAGGCCACAGTGTTCCTACAAGCCTGGAGGCTTCAAGGCCAGCACTGGCTTTGGGTCCA
ACACCAAAAACAAGAAGATATACGATGGAGGTGCCCGCACAGAGGACGAGGTACAATCTTATCCTTCCAA
GCACGACTATGTGTAA
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Restriction Sites:	Please inquire
ACCN:	NM_016369



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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: [NM_016369.3](#), [NP_057453.1](#)

RefSeq Size: 3359 bp

RefSeq ORF: 786 bp

Locus ID: 51208

UniProt ID: [P56856](#)

Cytogenetics: 3q22.3

Domains: PMP22_Claudin

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. This gene is upregulated in patients with ulcerative colitis and highly overexpressed in infiltrating ductal adenocarcinomas. PKC/MAPK/AP-1 (protein kinase C/mitogen-activated protein kinase/activator protein-1) dependent pathway regulates the expression of this gene in gastric cells. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jun 2010]

Transcript Variant: This variant (1) encodes isoform 1, also known as isoform A1.