

Product datasheet for SC319526

Claudin 3 (CLDN3) (NM 001306) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Claudin 3 (CLDN3) (NM_001306) Human Untagged Clone

Tag: Tag Free Symbol: Claudin 3

Synonyms: C7orf1; CPE-R2; CPETR2; HRVP1; RVP1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-AC (PS100020)E. coli Selection:Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001306.2

CAAAGCCACAGGCAGGTGCAGGCGCAGCCGCGGCGAGAGCGTATGGAGCCGAGCCGTTAG CGCGCGCCGTCGGTGAGTCAGTCCGTCCGTCCGTCCGTCGGGGCGCGCAGCTCCC GCCAGGCCCAGCGGCCCCGCCCTCGTCTCCCCGCACCCGGAGCCACCCGGTGGAGCGG GCCTTGCCGCGCAGCCATGTCCATGGGCCTGGAGATCACGGGCACCGCGCTGGCCGTGC TGGGCTGGCTGGGCACCATCGTGTGCTGCGCGTTGCCCATGTGGCGCGTGTCGGCCTTCA TCGGCAGCACATCATCACGTCGCAGAACATCTGGGAGGGCCTGTGGATGAACTGCGTGG TGCAGAGCACCGGCCAGATGCAGTGCAAGGTGTACGACTCGCTGCTGCCACCAGG ACCTTCAGGCGGCCCGCGCCCTCATCGTGGTGGCCATCCTGCTGGCCGCCTTCGGGCTGC TAGTGGCGCTGGTGGGCGCCCAGTGCACCAACTGCGTGCAGGACGACACGGCCAAGGCCA AGATCACCATCGTGGCAGGCGTGCTGTTCCTTCTCGCCGCCCTGCTCACCCTCGTGCCGG TGTCCTGGTCGGCCAACACCATTATCCGGGACTTCTACAACCCCGTGGTGCCCGAGGCGC TGGGGGGCGCGCTGCTCTGCTGCTCCCCCACGCGAGAAGAAGTACACGGCCACCA AACACCACCACCACCGCGAGCTGGAGCGCGCACCAGGCCATCCAGCGTGCAGCCTTG CCTCGGAGGCCAGCCCACCCCAGAAGCCAGGAAGCCCCCGCGCTGGACTGGGCAGCTT CCCCAGCAGCCACGGCTTTGCGGGCCGGGCAGTCGACTTCGGGGCCCAGGGACCAACCTG CATGGACTGTGAAACCTCACCCTTCTGGAGCACGGGGCCTGGGTGACCGCCAATACTTGA CCACCCGTCGAGCCCCATCGGGCCGCTGCCCCCATGCTCGCGCTGGGCAGGGACCGGCA

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Restriction Sites: Please inquire ACCN: NM_001306



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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 customercom 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. <u>More info</u>

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:

- 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: <u>NM 001306.2, NP 001297.1</u>

 RefSeq Size:
 1294 bp

 RefSeq ORF:
 663 bp

 Locus ID:
 1365

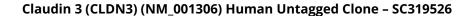
 UniProt ID:
 015551

 Cytogenetics:
 7q11.23

Domains: PMP22 Claudin

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, 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 intronless gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. It is also a low-affinity receptor for Clostridium perfringens enterotoxin, and shares as sequence similarity with a putative apoptosis-related protein found in rat. [provided by RefSeq, Jul 2008]