

Product datasheet for **RG200744**

Claudin 6 (CLDN6) (NM_021195) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Claudin 6 (CLDN6) (NM_021195) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Claudin 6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG200744 representing NM_021195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCTGCCGAATGCAGATCCTGGGAGTCGTCTGACACTGCTGGGCTGGGTGAATGGCCTGGTCT
 CCTGTGCCCTGCCCATGTGGAAGGTGACCGCTTTCATCGGCAACAGCATCGTGGTGGCCAGGTGGTGTG
 GGAGGGCCTGTGGATGTCTGCTGGTGCAGAGCACCGGCCAGATGCAGTGCAAGGTGTACGACTCACTG
 CTGGCGCTGCCACAGGACCTGCAGGCTGCACGTGCCCTCTGTGCATCGCCCTCCTGTGGCCCTGTTTCG
 CTTTCTGGTCTACCTTGTCTGGGGCCAAGTGTACCACCTGTGTGGAGGAGAAGGATTCGAAGGCCCGCT
 GGTGCTCACCTCTGGGATTGTCTTTGTCTCTCAGGGGTCTGACGCTAATCCCGTGTGCTGGACGGCG
 CATGCCGTATCCGGACTTCTATAACCCCTGGTGGCTGAGGCCAAAAGCGGGAGCTGGGGCCCTCCC
 TCTACTTGGGCTGGGCGCCTCAGGCCTTTTGTGCTGGGTGGGGGTTGCTGTGCTGCACTTGCCCTC
 GGGGGGTCCCAGGGCCCAGCCATTACATGGCCCGCTACTCAACATCTGCCCTGCCATCTCTCGGGG
 CCCTCTGAGTACCCTACCAAGAATTACGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200744 representing NM_021195
 Red=Cloning site Green=Tags(s)

MASAGMQLGVVLTLLGWVNLVSCALPMWKVTAFIGNSIVVAQVVWEGLWMSVQSTGQMCKVYDSL
 LALPQDLQAARALCVIALLVALLVGLLVLAGAKCTTVEEKDSKARLVLTSGIVFVISGLTLIPVCWTA
 HAVIRDFYNPLVAEAQKRELASLYLGWAASGLLLLGGLLCCTCPSSGSGQPSHYMARYSTSAPAI SRG
 PSEYPTKNYV

TRTRPLE - GFP Tag - V

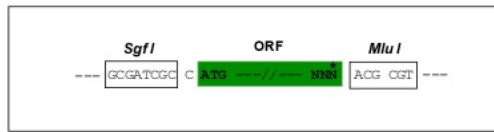


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Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_021195

ORF Size: 660 bp

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

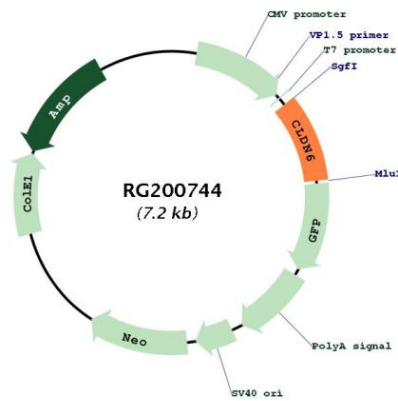
RefSeq: [NM_021195.3, NP_067018.1](#)
RefSeq Size: 1363 bp
RefSeq ORF: 663 bp
Locus ID: 9074
UniProt ID: [P56747](#)
Cytogenetics: 16p13.3

Protein Families: 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. This gene encodes a component of tight junction strands, which is a member of the claudin family. The protein is an integral membrane protein and is one of the entry cofactors for hepatitis C virus. The gene methylation may be involved in esophageal tumorigenesis. This gene is adjacent to another family member CLDN9 on chromosome 16.[provided by RefSeq, Aug 2010]

Product images:



Circular map for RG200744