

## Product datasheet for RC204199L1

#### OriGene Technologies, Inc.

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## Claudin 2 (CLDN2) (NM\_020384) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Claudin 2 (CLDN2) (NM\_020384) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Claudin 2
Synonyms: OAZON
Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC204199).

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

**ACCN:** NM\_020384

ORF Size: 690 bp





### Claudin 2 (CLDN2) (NM\_020384) Human Tagged Lenti ORF Clone - RC204199L1

**OTI Disclaimer:** 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:** <u>NM 020384.2</u>

 RefSeq Size:
 2998 bp

 RefSeq ORF:
 693 bp

 Locus ID:
 9075

 UniProt ID:
 P57739

Cytogenetics: Xq22.3

**Protein Families:** 

**Protein Pathways:** Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

**MW:** 24.5 kDa

**Gene Summary:** This gene product belongs to the claudin protein family whose members have been identified

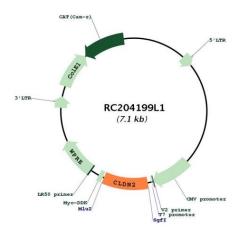
as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. This protein is expressed in the intestine. Alternatively spliced transcript variants with different 5' untranslated region have been found for this gene.[provided by

RefSeq, Jan 2010]

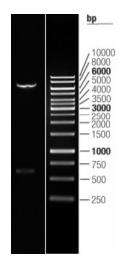
Transmembrane



# **Product images:**



Circular map for RC204199L1



Double digestion of RC204199L1 using Sgfl and Mlul