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## Product datasheet for RC204466L3

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## Claudin 1 (CLDN1) (NM_021101) Human Tagged Lenti ORF Clone

## Product data:

Product Type:
Product Name:
Tag:
Symbol:
Synonyms:
Mammalian Cell
Selection:
Vector:
E. coli Selection:

ORF Nucleotide
Sequence:
Restriction Sites:
Cloning Scheme:

## Expression Plasmids

Claudin 1 (CLDN1) (NM_021101) Human Tagged Lenti ORF Clone
Myc-DDK
Claudin 1
CLD1; ILVASC; SEMP1
Puromycin
pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Chloramphenicol ( $34 \mathrm{ug} / \mathrm{mL}$ )
The ORF insert of this clone is exactly the same as(RC204466).

Sgfl-Mlul

Cloning sites used for ORF Shuttling:


| EcoR I | BamH I |  | RBS |  |  |  | Kozak Consensus |  |  |  |  |  | ORF |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Sgf I |  |  |  |  |  |  |
| CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG .... ... .... |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Mlu 1 |  |  |  |  | Not I |  | Xhol |  | Myc.Tag |  |  |  |  |  |  |
| .... ... NNN* | $\overline{\mathrm{ACG}}$ | $\underset{R}{\text { CGT }} \underset{T}{A C G}$ | $\underset{R}{\mathrm{CGG}}$ | $\mathrm{G} \underset{\mathrm{P}}{\mathrm{CCG}}$ | $\overline{\mathrm{L}} \mathrm{C}$ | $\underset{E}{\text { GAG }}$ | ${ }_{\text {CAG }}$ | AAA | A CTC | ATC | TCA | GAA | $\underset{\text { GAG }}{\text { G }}$ |

GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TGGGTAGGAAG


* The last codon before the Stop codon of the ORF.

ACCN:
NM_021101
ORF Size:

633 bp

OTI Disclaimer:

OTI Annotation:

Components:

Reconstitution Method:

RefSeq:
RefSeq Size:
RefSeq ORF:
Locus ID:
UniProt ID:
Cytogenetics:
Domains:
Protein Families:
Protein Pathways:

MW:
Gene Summary:

1. Centrifuge at $5,000 \mathrm{xg}$ for 5 min .
2. Carefully open the tube and add 100 ul 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 5000 xg ) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at $-20^{\circ} \mathrm{C}$. The DNA is stable for at least one year from date of shipping when stored at $-20^{\circ} \mathrm{C}$.
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

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

NM 021101.3
3452 bp
636 bp
9076
095832
$3 q 28$
PMP22_Claudin
Transmembrane
Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Pathogenic Escherichia coli infection, Tight junction

## 22.7 kDa

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 gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. [provided by RefSeq, Jul 2008]

## Product images:



Double digestion of RC204466L3 using Sgfl and Mlul

