

## **Product datasheet for MG225404**

## Cldn1 (NM\_016674) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Cldn1 (NM\_016674) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Cldn1

Synonyms: Al596271

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG225404 representing NM\_016674

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225404 representing NM\_016674

Red=Cloning site Green=Tags(s)

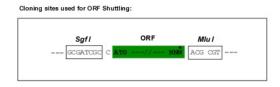
MANAGLQLLGFILASLGWIGSIVSTALPQWKIYSYAGDNIVTAQAIYEGLWMSCVSQSTGQIQCKVFDSL LNLNSTLQATRALMVIGILLGLIAIFVSTIGMKCMRCLEDDEVQKMWMAVIGGIIFLISGLATLVATAWY GNRIVQEFYDPLTPINARYEFGQALFTGWAAASLCLLGGVLLSCSCPRKTTSYPTPRPYPKPTPSSGKDY

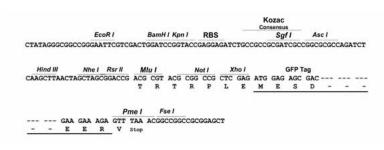
TRTRPLE - GFP Tag - V

Chromatograms: <a href="https://cdn.origene.com/chromatograms/ja2277">https://cdn.origene.com/chromatograms/ja2277</a> e12.zip

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_016674

ORF Size: 633 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 <a href="mailto:customercom">customercom</a> 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:** <u>NM 016674.4, NP 057883.1</u>

 RefSeq Size:
 3263 bp

 RefSeq ORF:
 636 bp

 Locus ID:
 12737

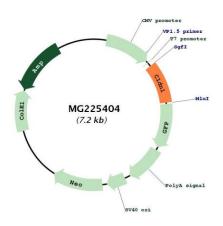
 UniProt ID:
 088551

 Cytogenetics:
 16 B2

**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. The knockout mice lacking this gene die soon after birth as a consequence of dehydration from trandermal water loss, indicating that this gene is indispensable for creating and maintaining the epidermal barrier. The protein encoded by this gene also has gastric tumor suppressive activity, and is a key factor for hepatitis C virus (HCV) entry. [provided by RefSeq, Aug 2010]

## **Product images:**



Circular map for MG225404