

## **Product datasheet for RN202405**

## Cldn15 (NM 001107135) Rat Untagged Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Cldn15 (NM\_001107135) Rat Untagged Clone

Tag: Tag Free
Symbol: Cldn15

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Cell Selection: Neomycin

Fully Sequenced ORF: >RN202405 representing NM\_001107135

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCGATAGCTGTGGAGACCTTTGGTTTCTTCATGTCAGCCCTGGGACTGCTGATGCTGGGGGTGACCC
TTCCAAACAGCTACTGGAGAGTGTCTACCGTCCATGGGAACGTCATCACCACTAACACCATCTTCGAGAA
CCTGTGGTACAGCTGTGCCACCGACTCCCTGGGAGTCTCCAACTGCTGGGACTTCCCGTCCATGCTGGCC
CTCTCTGGCTATGTCCAGGGCTGCCGAGCTCTCATGATCACCGCCATCCTCCTGGGCTTCCTGGGCCTCT
TTCTAGGCATGGTGGGGCTCCGCTGCACCAACGTGGGCAACATCGACCTCTCCAGAAAGGCCAAGCTGCT
GGCCATTGCAGGGGCCTTCCACATACTTGCTGAGCCTGTGGCATGGTTGCTATCTCATGGTATGCTGTC
AACATCACCACCGACTTCTTCAACCCCCTGTATGTTGGAACCAAGTATGAACTGGGCTCTGCCCTCTACT
TGGGCTGGAGCGCCTCTCTGCTCTCCATCCTGGGCGGCATCTGTGTCTTCCCACCTGCTGCTGTGACTC
CAAGGAGGACCCACCAGGGTGGGACTTCCCTACAAGCCTTCTACGGTTTGTAACAGCCCGAGCCACT
TCCGATGAAAGTGACGTCAGCTTTGGTAAATATGGCAAAAATGCCTACCTGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM 001107135

**Insert Size:** 684 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a

point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative

RNA splicing form or single nucleotide polymorphism (SNP).



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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 001107135.2</u>, <u>NP 001100605.1</u>

 RefSeq Size:
 684 bp

 RefSeq ORF:
 684 bp

 Locus ID:
 304388

 UniProt ID:
 D3ZQI0

 Cytogenetics:
 12q12

**Gene Summary:** Claudins function as major constituents of the tight junction complexes that regulate the

permeability of epithelia. While some claudin family members function as impermeable barriers, others mediate the permeability to ions and small molecules. Often, several claudin family members are coexpressed and interact with each other, and this determines the overall permeability. CLDN15 forms tight junctions that mediate the paracellular transport of small monovalent cations along a concentration gradient, due to selective permeability for Na(+), Li(+) and K(+) ions, but selects against Cl(-) ions. Plays an important role in paracellular

Na(+) transport in the intestine and in Na(+) homeostasis. Required for normal Na(+)-dependent intestinal nutrient uptake (By similarity).[UniProtKB/Swiss-Prot Function]