

Product datasheet for RC231066

CLDN24 (NM_001185149) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CLDN24 (NM_001185149) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: CLDN24
Synonyms: CLDN21
Mammalian Cell Neomycin

Selection:

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

ORF Nucleotide >RC231066 representing NM_001185149
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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CLDN24 (NM_001185149) Human Tagged ORF Clone - RC231066

Protein Sequence: >RC231066 representing NM_001185149

Red=Cloning site Green=Tags(s)

MALIFRTAMQSVGLLLSLLGWILSIITTYLPHWKNLNLDLNEMENWTMGLWQTCVIQEEVGMQCKDFDSF LALPAELRVSRILMFLSNGLGFLGLLVSGFGLDCLRIGESQRDLKRRLLILGGILSWASGITALVPVSWV AHKTVQEFWDENVPDFVPRWEFGEALFLGWFAGLSLLLGGCLLNCAACSSHAPLALGHYAVAQMQTQCPY LEDGTADPQV

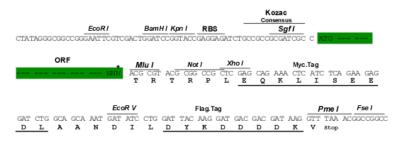
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1255 d07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001185149

ORF Size: 660 bp

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 001185149.1</u>, <u>NP 001172078.1</u>

RefSeq ORF: 663 bp

Locus ID: 100132463 **UniProt ID:** A6NM45

Cytogenetics: 4q35.1 MW: 24.9 kDa

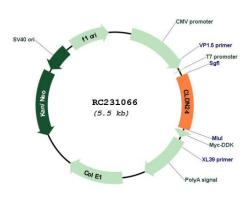
Gene Summary: This gene encodes a member of the claudin family. Claudins are integral membrane proteins

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 protein encoded by this gene is 75% identical to the mouse homolog. This gene is upstream of the CLDN22 gene, which overlaps the WWC2 gene on the

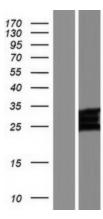
opposite strand in the genome.[provided by RefSeq, Aug 2010]

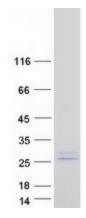
Product images:



Circular map for RC231066







Western blot validation of overexpression lysate (Cat# [LY434065]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231066 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified CLDN24 protein (Cat# [TP331066]). The protein was produced from HEK293T cells transfected with CLDN24 cDNA clone (Cat# RC231066) using MegaTran 2.0 (Cat# [TT210002]).