

Product datasheet for MR225217

Cldn19 (NM 001038590) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cldn19 (NM_001038590) Mouse Tagged ORF Clone

Tag:Myc-DDKSymbol:Cldn19

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR225217 representing NM_001038590 Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

GTTGTTAAGTTGCCCGCCTCGGTCAAGGGCCCCCTGGGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAG**GTTTAA**

Protein Sequence: >MR225217 representing NM_001038590

Red=Cloning site Green=Tags(s)

MANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAIITAVGLYEGLWMSCASQSTGQVQCKLYDSL LALDGHIQSARALMVVAVLLGFVAMVLSVVGMKCTRVGDSNPTAKSRVAISGGALFLLAGLCTLTAVSWY ATLVTQEFFNPSTPVNARYEFGPALFVGWASAGLAMLGGSFLCCTCPEPERANSIPQPYRSGPSTAAREP

VVKLPASVKGPLGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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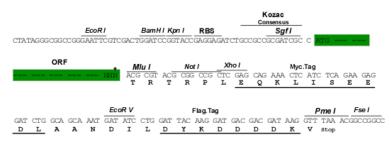
Chromatograms: https://cdn.origene.com/chromatograms/mm9024 h07.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:





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

ACCN: NM 001038590

ORF Size: 672 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 001038590.1</u>, <u>NP 001033679.1</u>

RefSeq Size: 888 bp RefSeq ORF: 675 bp Locus ID: 242653



UniProt ID: Q9ET38

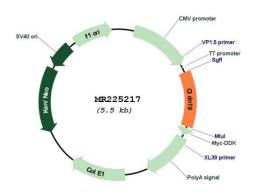
Cytogenetics: 4 D2.1 MW: 23.8 kDa

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

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, siRNA knockdown of this gene in mice develops the FHHNC (familial hypomagnesemia with hypercalciuria and nephrocalcinosis) symptoms of chronic renal wasting of magnesium and calcium together with defective renal salt handling. The protein encoded by this gene interacts with another family member, Claudin 16, and their interaction is required for their assembly into tight junctions and for renal reabsorption of magnesium. This protein is a constituent of tight junctions in the Schwann cells of peripheral myelinated nerves and the gene deficiency affects the nerve conduction of peripheral myelinated fibers. Alternatively spliced transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq, Aug 2010]

Product images:



Circular map for MR225217