

Product datasheet for MR225210L3

Cldn16 (NM_053241) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cldn16 (NM_053241) Mouse Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Cldn16

Synonyms: claudi; claudin-16; PC; PCLN1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(MR225210).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_053241

ORF Size: 708 bp



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Cldn16 (NM_053241) Mouse Tagged Lenti ORF Clone - MR225210L3

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 053241.5</u>, <u>NP 444471.1</u>

 RefSeq Size:
 1173 bp

 RefSeq ORF:
 708 bp

 Locus ID:
 114141

 UniProt ID:
 Q925N4

 Cytogenetics:
 16 B2

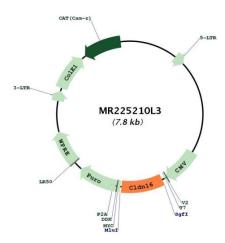
Gene Summary: This gene encodes a member of the claudin family. Claudins are integral membrane proteins

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 protein encoded by this gene is critical for renal paracellular epithelial transport of Ca(2+) and Mg(2+) in the thick ascending loop of Henle. The gene deficiency leads to specific alterations in renal Ca(2+) and Mg(2+) balance and also to disturbances in Na(+) handling. The interaction of this gene and the Cldn 19 gene is required for their assembly into tight junctions and for renal Mg(2+) reabsorption. This gene and the

Cldn1 gene are clustered on chromosome 16. [provided by RefSeq, Aug 2010]



Product images:



Circular map for MR225210L3