

## Product datasheet for **MR224818L3V**

### **Cldn4 (NM\_009903) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Cldn4 (NM_009903) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Cldn4
Synonyms:	Cep-r; Cpe; Cpet; Cpetr; Cpetr1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_009903
ORF Size:	633 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR224818).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_009903.2</a> , <a href="#">NP_034033.1</a>
RefSeq Size:	1827 bp
RefSeq ORF:	633 bp
Locus ID:	12740
UniProt ID:	<a href="#">O35054</a>
Cytogenetics:	5 74.9 cM



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**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 a high-affinity receptor for clostridium perfringens enterotoxin (CPE) produced by the bacterium Clostridium perfringens, and the interaction with CPE results in increased membrane permeability by forming small pores in plasma membrane. This protein augments alveolar epithelial barrier function and is induced in acute lung injury. It is highly expressed in pancreatic and ovarian cancers. [provided by RefSeq, Aug 2010]