

Product datasheet for **MR225404L3V**

Cldn1 (NM_016674) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Cldn1 (NM_016674) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Cldn1
Synonyms:	AI596271
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_016674
ORF Size:	633 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR225404).
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.
RefSeq:	NM_016674.4 , NP_057883.1
RefSeq Size:	3263 bp
RefSeq ORF:	636 bp
Locus ID:	12737
UniProt ID:	O88551
Cytogenetics:	16 B2



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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 knockout mice lacking this gene die soon after birth as a consequence of dehydration from transdermal water loss, indicating that this gene is indispensable for creating and maintaining the epidermal barrier. The protein encoded by this gene also has gastric tumor suppressive activity, and is a key factor for hepatitis C virus (HCV) entry. [provided by RefSeq, Aug 2010]