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Product datasheet for MR202708L4V

Cldn15 (NM_021719) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Cldn15 (NM_021719) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Cldn15
Synonyms:	2210009B08Rik; BB107105
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_021719
ORF Size:	684 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(MR202708).`
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_021719.1
RefSeq Size:	1878 bp
RefSeq ORF:	684 bp
Locus ID:	60363
UniProt ID:	Q9Z0S5
Cytogenetics:	5 G2

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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. This protein increases permeability for sodium ions in anion-selective epithelial cell sheets. The gene deficiency leads to megaintestine and decreases in intestinal epithelial paracellular ion permeability. This gene is a direct target for hepatocyte-nuclear-factor-4alpha, a mediator of ion epithelial transport, and is down-modulated in inflammatory bowel disease. [provided by RefSeq, Aug 2010]