

## Product datasheet for **MR226979L3V**

### Cldn10 (NM\_001160099) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Cldn10 (NM_001160099) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Cldn10   |
| Synonyms:                 | 6720456116Rik; Cldn; Cldn1; Cldn10a; Cldn10b; D14Ertd728; D14Ertd728e  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_001160099   |
| ORF Size:                 | 585 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR226979).   |
| 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_001160099.1</a> , <a href="#">NP_001153571.1</a>  |
| RefSeq Size:              | 852 bp   |
| RefSeq ORF:               | 588 bp   |
| Locus ID:                 | 58187  |
| UniProt ID:               | <a href="#">Q9Z0S6</a>   |
| Cytogenetics:             | 14 62.55 cM  |



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**Gene Summary:**

This intronless 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. Six alternatively spliced transcript variants have been identified, which encode different isoforms with distinct electric charge of the first extracellular loop and with or without the fourth transmembrane region. These isoforms exhibit distinct localization and function in paracellular anion or cation permeability. [provided by RefSeq, Aug 2010]