

## Product datasheet for **RR201738**

### Cldn16 (NM\_131905) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Cldn16 (NM\_131905) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Cldn16  
 Synonyms: Pcln1  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR201738 representing NM\_131905  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGGAGCTTCTTCAGTACGCTGCCTGCTTCTTGCCATTTCTCAACTGGGTTTTGATCGTGGCCA  
 CCTGGACGGACTGTTGGATGGTGAACGCTGATGACTCTCTGGAGGTGAGCACTAAATGCAGAGGTCTCTG  
 GTGGGAGTGCCTCACAACGCTTTTGATGGAATTCGTACCTGCGATGAGTATGACTCCATATATGCAGAA  
 CACCCCTTGAAGCTGGTGGTACTCGGGCACTGATGATCACAGCCGACATTCTAGCTGGCTTTGGATTCA  
 TACCCTCCTCCTTGACTTGACTGCGTGAAGTTCCTACCGGATGAGCCACACATTAAGTCCGCCTCTG  
 CTTTGTTCAGGGACCGTATTACTCATCGCAGGTACCCCGGAATCATTGGTTCTGTGTGGTATGCTGTG  
 GATGTTTACGTCGAGCGCTCCTCTCTGTTTTACACAATATTTCTCGGGATCCAATAAAATTCGGTT  
 GGTCTGCTGGCTCGGAATGGCTGGTCTTTGGTTGTTTTTGGCTGGAGCTCTCTCACCTGCTGTTT  
 GTACCTTTCAAAGATGTTGGACCTGAGAGGAACCTACCCTATGCCATGAGGAAGCCCTATTCAACTGCA  
 GGTGTTTCCATGGCCAAATCCTACAAGGCCCTAGGACAGAGACGCCAAAATGTACGCTGTAGACACGA  
 GAGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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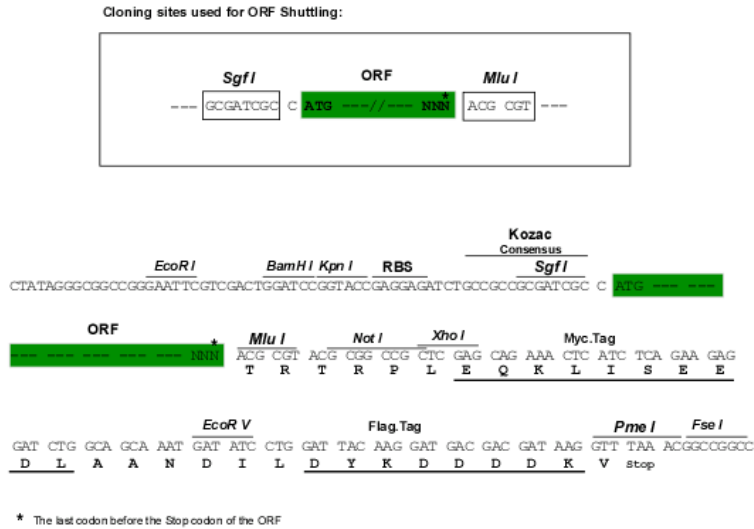
**Protein Sequence:** >RR201738 representing NM\_131905  
Red=Cloning site Green=Tags(s)

MKELLQYAAACFLAIFSTGFLIVATWDCWMVNADDSLEVSTKCRGLWVECVTNAFDGIRTCDEYDSIYAE  
 HPLKLVVTRALMITADILAGFGFITLLGLDCVKFLPDEPHIKVRLCFVAGTVLLIAGTPGIIGSVWYAV  
 DYYVERSSLVLHNIFLGIQYKFGWSCWLGMAAGSLGCFAGALLTCCLYLFKDVGPERNYPYAMRKPYSTA  
 GVSMAKSYKAPRTETAKMYAVDTRV

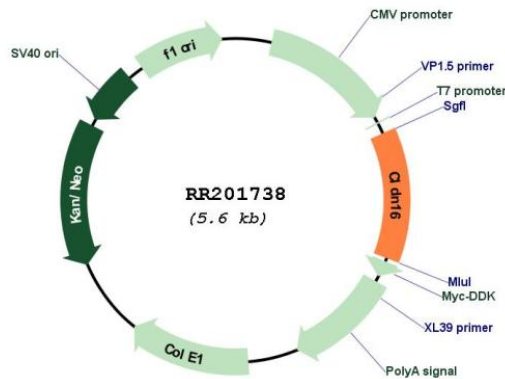
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_131905

**ORF Size:** 705 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_131905.2</a> , <a href="#">NP_571980.2</a>
<b>RefSeq Size:</b>	1514 bp
<b>RefSeq ORF:</b>	708 bp
<b>Locus ID:</b>	155268
<b>Cytogenetics:</b>	11q22
<b>MW:</b>	26.1 kDa
<b>Gene Summary:</b>	renal tight junction protein; involved in paracellular transport of magnesium and calcium [RGD, Feb 2006]