

## Product datasheet for MR225264

### Cldn12 (NM\_022890) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn12 (NM_022890) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cldn12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225264 representing NM_022890 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGGCTGCCGAGATGTCCACGCAGCCACCGTCCTGTCCTTCTGTGTGGTATTGCCTCTGTCGCAGGCC  
TCTTTGCGGGGACTCTGCTTCTAACTGGAGGAACTGCGGCTGATCACATTCAACAGAAACGAGAAGAA  
CCTGACGATTTACACGGGCTGTGGTGAAGTGTCCCGGATGATGGAAGCAGTGACTGCCTGATGTAC  
GACCGTACGTGGTACCTGTCGGTTGACCAGCTGGACCTGCGTGCCTCCAGTTTGCCTGCCTCTCAGCA  
TCGTGATCGCAATGGGTGCCTTGCTACTCTGCCTGATTGGAATGTGTAACACGGCCTTCAATTCTCCGT  
GCCTAACATCAAAGTGGCAAGTGTCTGGTCAATAGTGCAGGCTGCCACCTGGTGGCCGGACTCCTGTTT  
TTTCTGGCAGGTACCGTGAAGCTCTCTCCGTCATCTGGGCCATCTTTTATAACAGCCATCTCAACAGGA  
AGTTTGAGCCGGTCTTTACCTTTGACTATGCAGTATTTGTCACTATTGCTAGCTCAGGGGTCTGTTTAT  
GACTGCTCTCCTGCTGTTTCGTTTGGTATTGTGCATGCAAGTCTTTGCTCTCCTTTCTGGCAACCGCTG  
TACTCTCAGCTCCCGGATGCACACTTACTCACAGCCCTATTCATCACGGTCCCGCTCTCTGCCATTG  
AAATCGACATTCCAGTAGTCTCACACAGCACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

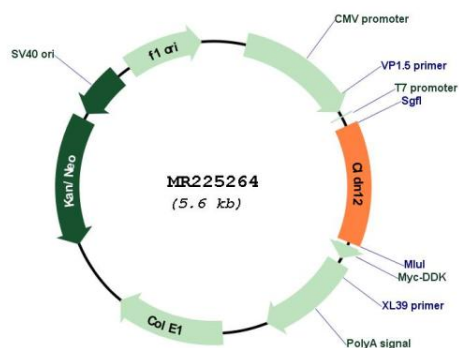


[View online »](#)



<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_022890.2</a> , <a href="#">NP_075028.1</a>
<b>RefSeq Size:</b>	3794 bp
<b>RefSeq ORF:</b>	735 bp
<b>Locus ID:</b>	64945
<b>UniProt ID:</b>	<a href="#">Q9ET43</a>
<b>Cytogenetics:</b>	5 A1
<b>MW:</b>	27.4 kDa
<b>Gene Summary:</b>	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 gene, along with several other family members, is expressed in the inner ear. The protein encoded by this gene and another family member, claudin 2, are critical for vitamin D-dependent Ca <sup>2+</sup> absorption between enterocytes. Multiple alternatively spliced transcript variants encoding the same protein have been found. [provided by RefSeq, Oct 2011]

## Product images:



Circular map for MR225264