

## Product datasheet for MR225523

### Cldn11 (NM\_008770) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cldn11 (NM\_008770) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cldn11  
**Synonyms:** Claudin-11; Claudin11; Osp; Ot; Otm  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225523 representing NM\_008770  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTAGCCACTTGCCTTCAGGTGGTGGGTTTCGTCACGAGCTTCGTGGGTTGGATTGGCATCATCGTCA  
 CAACGTCCACCAATGACTGGGTGGTGACCTGCAGCTACACCATCCCCACCTGCCGAAAAATGGACGAACT  
 GGGCTCCAAGGGCCTGTGGGCTGACTGCGTCATGGCCACTGGTCTCTACCACTGCAAACCCTGGTGGAC  
 ATCCTCATCTCCAGGCTACGTGCAGGCTTGTAGAGCCCTCATGATTGCTGCCTCCGTTCTGGGCTGC  
 CCGCCATCTTGCTGCTGTTGACAGTTCTCCCTGCATCCGAATGGCCACGAGCCTGGAGTGCCCAAGTA  
 CAGGCGAGCCAGCTGGCTGGGTGCTCCTTATTCTGCTGGCTCTCTGCGCCATTGTCGCCACCATCTGG  
 TTTCTGTATGTGCCACCGCAGATCACCATCGTGAGCTTTGGCTACTCGCTGTACGCAGTTGGATCG  
 GTGCTGTGATGTGCCTGGTGGTGGCTGTGTCATCGTCTGCTGCTCCGGGATGCACAGTCATTTGGAGA  
 AAACCGTTTCTATTACTCTTCTGGTTCAGCTCGCCAACGCATGCCAAGAGTGCCCATGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR225523 representing NM\_008770  
 Red=Cloning site Green=Tags(s)

MVATCLQVVGFTSFGVWIGIIVTTSTNDWVVTCSYIPTCRKMDLGSKGLWADCVMATGLYHCKPLVD  
 ILILPGYVQACRALMIAASVLGLPAILLLLTLVPCIRMGHEPGVAKYRRAQLAGVLLILLALCAIVATI  
 WFPVCAHREITIVSFGYSLYAGWIGAVMLVGGCVIVCCSGDAQSFGENRFYSSGSSSPHAKSAHV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

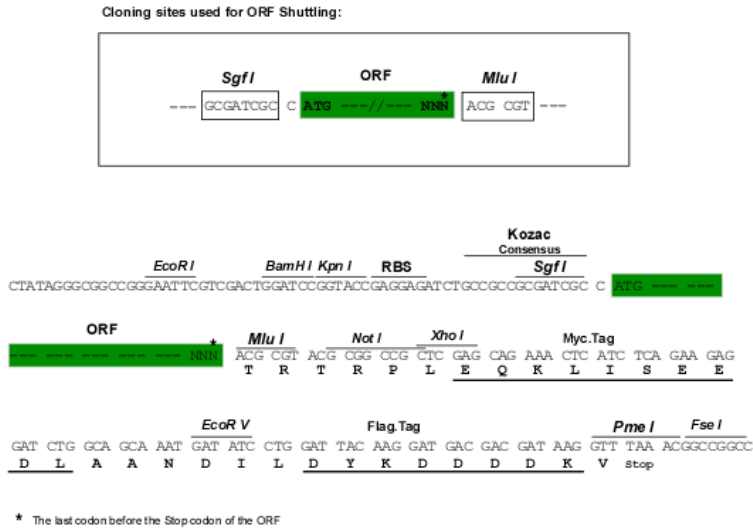


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Chromatograms: [https://cdn.origene.com/chromatograms/mm9025\\_b10.zip](https://cdn.origene.com/chromatograms/mm9025_b10.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_008770

ORF Size: 621 bp

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.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM\\_008770.3](#), [NP\\_032796.1](#)

RefSeq Size: 1872 bp

RefSeq ORF: 624 bp

Locus ID: 18417

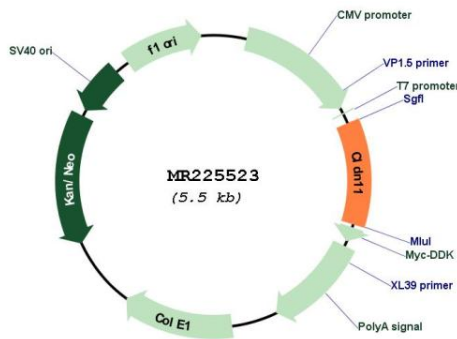
UniProt ID: [Q60771](#)

Cytogenetics: 3 15.14 cM

MW: 22.6 kDa

**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 protein encoded by this gene is a major component of CNS (central nervous system) myelin and plays an important role in regulating proliferation and migration of oligodendrocytes. The basal cell tight junctions in stria vascularis are primarily composed of this protein, and the gene-null mice suffer severe deafness. This protein is also an obligatory protein for tight junction formation and barrier integrity in the testis and the gene deficiency results in loss of the Sertoli cell epithelial phenotype in the testis. [provided by RefSeq, Aug 2010]

**Product images:**



Circular map for MR225523