

Product datasheet for MR202298

Cldn7 (NM_016887) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cldn7 (NM_016887) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Cldn7
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR202298 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAACCTCGGGCCTGCAACTGCTGGGCTTTTCAATGGCCATGCTTGGCTGGGTGGGCCTGATAGCGA
 GCACTGCCATCCCTCAGTGGCAGATGAGCTCCTATGCGGGCGACAACATCATCACAGCCCAGGCCATGTA
 CAAGGGGCTCTGGATGGAGTGCCTCACGCAGAGCACCGGCATGATGAGCTGCAAAATGTACGACTCGGTG
 CTCGCCCTGCCGGGAGCCCTGCAGGCCACTCGAGCCTTAATGGTGGTGTCCCTGGTGTGGGCTTCTTAG
 CCATGTTTGTGCCACGATGGGCATGAAGTGCACACGCTGTGGGGGAGATGACAAAGCGAAGAAGGCCCG
 AATAGCTATGACTGGAGCATTGTTTTTATTGTGGCAGGTCTTGCTGCCTTGGTAGCATGTTCTGGATT
 GGTATCAGATTGTCACAGACTTTTATAACCCCTTGACGCCATGAACGTTAAGTACGAGTTGGACCTG
 CCATCTTTATCGGCTGGCAGGGTCTGCTCTGGTCTTCTGGGAGGTGCCCTGCTCTCTTCTGCTGTC
 AGGCAGTCAAAGCAAAGCTGCGTACCGAGCACCCGCTTACCCCAAGTCCAATTCCTCCAAGGAATAC
 GTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202298 protein sequence
 Red=Cloning site Green=Tags(s)

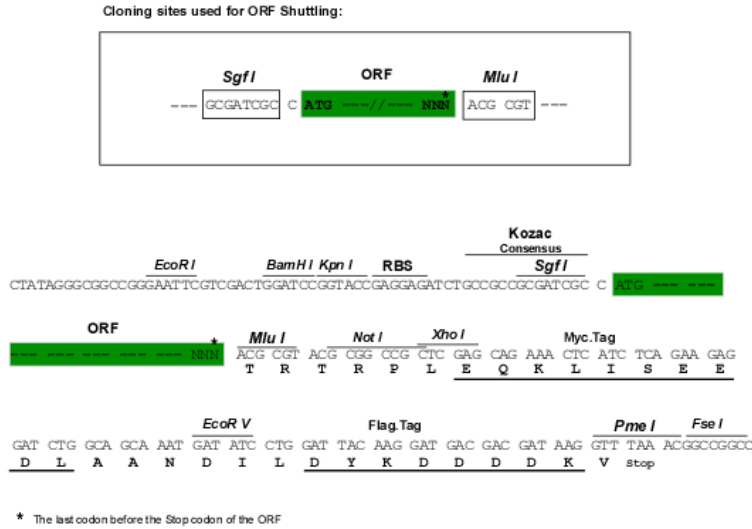
MANSGQLLLGFSMAMLGWVGLIASTAIPQWQMSSYAGDNIITAQAMYKGLWMECVTQSTGMMSCMYDSV
 LALPGALQATRALMVVSLVGLFLAMFVATMGKCTRCGGDDKAKKARIAMTGGIVFIVAGLAALVACSWI
 GHQIVTDFYNPLTPMNVKYEFGPAIFIGWAGSALVLLGGALLSCSCPSESKAAYRAPRSYPKSNSSKEY
 V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016887

ORF Size: 636 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_016887.6](#)

RefSeq Size: 1311 bp

RefSeq ORF: 636 bp

Locus ID: 53624

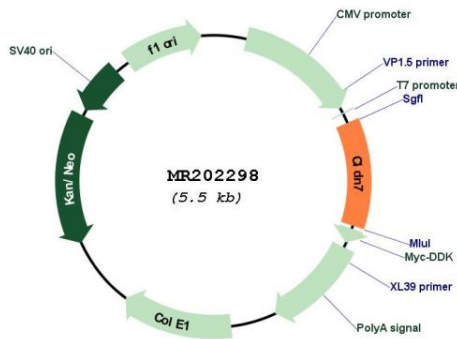
UniProt ID: [Q9Z261](#)

Cytogenetics: 11 B3

MW: 22.4 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. This gene is expressed constitutively in the mammary epithelium throughout development, and might be involved in vesicle trafficking to the basolateral membrane. It is essential for NaCl homeostasis in distal nephrons. The knockout mice lacking this gene showed severe salt wasting, chronic dehydration, and growth retardation, and died within 12 days after birth. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2010]

Product images:



Circular map for MR202298