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Product datasheet for MC210232

Cldn12 (NM_001193659) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn12 (NM_001193659) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cldn12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210232 representing NM_001193659 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGCTGCCGAGATGTCCACGCAGCCACCGTCCTGTCCTTCCTGTGTGGTATTGCCTCTGTCGCAGGCC TCTTTGCGGGGACTCTGCTTCCTAACTGGAGGAAACTGCGGCTGATCACATTCAACAGAAACGAGAAGAA CCTGACGATTTACACGGGCCTGTGGGTGAAGTGTGCCCGGTATGATGGAAGCAGTGACTGCCTGATGTAC GACCGTACGTGGTACCTGTCGGTTGACCAGCTGGACCTGCGTGTCCTCCAGTTTGCCCTGCCTCTCAGCA TCGTGATCGCAATGGGTGCCTTGCTACTCTGCCTGATTGGAATGTGTAACACGGCCTTCAATTCTTCCGT GCCTAACATCAAACTGGCCAAGTGTCTGGTCAATAGTGCAGGCTGCCACCTGGTGGCCGGACTCCTGTTT TTTCTGGCAGGTACCGTGAGCCTCTCTCCGTCCATCTGGGCCATCTTTTATAACAGCCATCTCAACAGGA AGTTTGAGCCGGTCTTTACCTTTGACTATGCAGTATTTGTCACTATTGCTAGCTCAGGGGGTCTGTTTAT GACTGCTCTCCTGCTGTTCGTTTGGTATTGTGCATGCAAGTCTTTGTCCTCTCCTTTCTGGCAACCGCTG TACTCTCACGCTCCCGGGATGCACACTTACTCACAGCCCTATTCATCACGGTCCCGCCTCTCTGCCATTG AAATCGACATTCCAGTAGTCTCACACAGCACTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001193659
Insert Size:	735 bp

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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_001193659.1, NP_001180588.1

RefSeq Size: 3804 bp

RefSeq ORF: 735 bp

Locus ID: 64945

UniProt ID: Q9ET43

Cytogenetics: 5 A1

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, 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 Ca2+ absorption between enterocytes. Multiple alternatively spliced transcript variants encoding the same protein have been found. [provided by RefSeq, Oct 2011]
Transcript Variant: This variant (2) differs in the 5' UTR, as compared to variant 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.