

Product datasheet for MR225233

Cldn20 (NM_001101560) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cldn20 (NM_001101560) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Cldn20
 Synonyms: EG621628
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR225233 representing NM_001101560
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCCTCGGCAGGTCTCCAGCTCCTTGCTTTCATCCTGGCCGTGTCTGGGGTGTCTGGAGTACTCGCTG
 CCACTCTGCTGCCAACTGGAAGGTTAATGCATACGCAGGACCAACATTGTAAGTCTGTTGTCCAGGT
 GCAGGGTTGTGGGTGGACTGCACGTGGTACAGCACTGGGATGTTTAGCTGCACTCTAAAATACTCCATT
 CTGTCGCTCCCCGTCCATGTGCAGACTGCGAGGGCCACCATGGTCTGGCCTGTGTCTGTCTGCTTGGG
 GGATTTGACTTCGATAGCAGGAATGAACTGCACTCACTTAGGAGGAGACACACACCAAGAGTAAAAT
 TTCCTTTGCTGGAGGAGTCTGTTTCATCACTGCAGGGATCTCTGGTTTAAATCCCAACAGTGTGGTACACC
 AAGGAGATCATAGCGAATTTCTGGATCTGACCATTCCGAAAAGCCAAATATGAACCTGGAGGAGCCC
 TGTACATTGGGTTTATTTTCGGCGATGCTACTACTTATCTCTGGTGTATTTTCTGCACTTCTTATATACA
 GAAGAACCAAGAACCATGGATCTACCCTCCAAGCAGAACTTTCCACTACCTGGCAGCCAAAGAACAGG
 CGAGCACATAACTGAAGGATTACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225233 representing NM_001101560
Red=Cloning site Green=Tags(s)

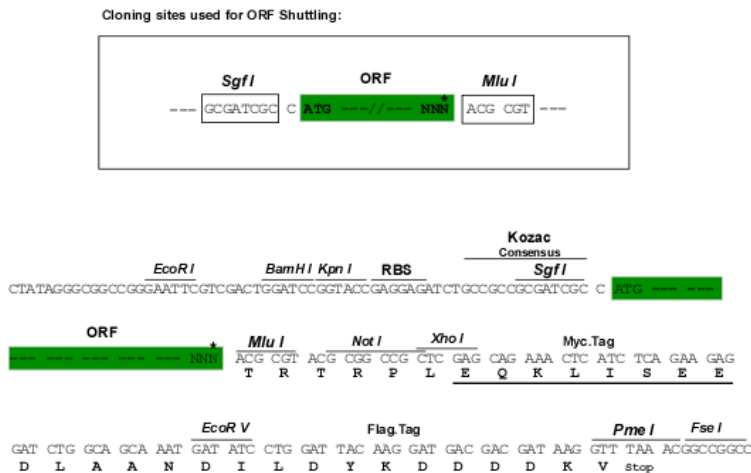
MASAGLQLLAFILAVSGVSGVLAATLLPNWKVNAYAGPNIIVTAVVQVQGLWVDCTWYSTGMFCTLKYSI
 LSLPVHVQTARATMVLACVLSAWGICTSIAGMNCNTHLGGDTHTKSKISFAGGVCFITAGISGLIPTVWYT
 KEIIANFLDLTIPESHKYEPGGALYIGFISAMLLLSISGVIFCTSYIQKNQEPWIYPPKQKLSTTWQPKNR
 RAHNLKDYM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9025_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001101560

ORF Size: 657 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_001101560.1](#), [NP_001095030.1](#)

RefSeq Size: 660 bp

RefSeq ORF: 660 bp

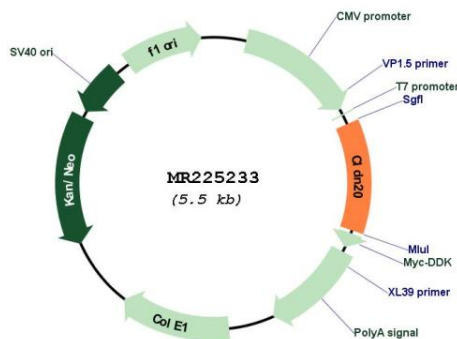
Locus ID: 621628

Cytogenetics: 17 A1

MW: 24.2 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 identified in retinal pigment epithelium (RPE) and analysis of the RPE transcriptome reveals that this gene expression appears late during development of chick embryo. [provided by RefSeq, Aug 2010]

Product images:



Circular map for MR225233