

Product datasheet for MG201866

Cldn10 (BC021770) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cldn10 (BC021770) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Cldn10

Synonyms: 6720456l16Rik, D14Ertd728e

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG201866 representing BC021770

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TGATAAAAATGCCTATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201866 representing BC021770

Red=Cloning site Green=Tags(s)

MSRAQISALVCGVGGFGALVAATTSNEWKVTTRASSVITATWVYQGLWMNCAGNALGSFHCRPHFTIFKV EGYIQACRGLMIAAVSLGFFGSIFALFGMKCTKVGGSDQAKAKIACLAGIVFILSGLCSMTGCSLYANKI

TTEFFDPLYMEQKMGYTYNGPTSVMSSRTKYQGGEGDFKTAGPSKQFDKNAYV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



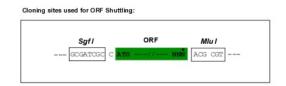
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

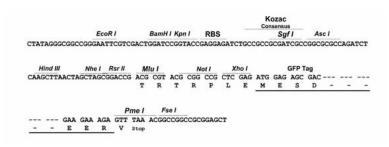
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: BC021770 **ORF Size:** 579 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>BC021770</u>, <u>AAH21770</u>

RefSeq Size: 1054 bp
RefSeq ORF: 581 bp
Locus ID: 58187



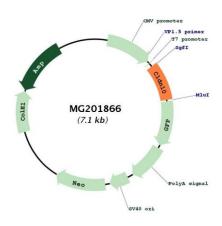
Cytogenetics:

14 62.55 cM

Gene Summary:

This intronless gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight unction 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. Six alternatively spliced transcript variants have been identified, which encode different isoforms with distinct electric charge of the first extracellular loop and with or without the fourth transmembrane region. These isoforms exhibit distinct localization and function in paracellular anion or cation permeability. [provided by RefSeq, Aug 2010]

Product images:



Circular map for MG201866