

Product datasheet for MG225523

Cldn11 (NM_008770) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Cldn11 (NM 008770) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Cldn11

Synonyms: Claudin-11; Claudin11; Osp; Ot; Otm

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG225523 representing NM_008770

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGTAGCCACTTGCCTTCAGGTGGTGGGTTTCGTCACGAGCTTCGTGGGTTGGATTGGCATCATCGTCA
CAACGTCCACCAATGACTGGGTGGTGACCTGCAGCTACACCATCCCCACCTGCCGAAAAAATGGACGAACT
GGGCTCCAAGGGCCTGTGGGCTGACTGCGTCATGGCCACTGGTCTCTACCACTGCAAACCCCTGGTGGAC
ATCCTCATCCTTCCAGGCTACGTGCAGGCTTGTAGAGCCCTCATGATTGCTGCCTCCGTTCTGGGCCTGC
CCGCCATCTTGCTGCTGTTGACAGTTCTCCCCTGCATCCGAATGGGCCACGAGCCTGGAGTGGCCAAGTA
CAGGCGAGCCCAGCTGGCTGGGGTGCTCCTTATTCTGCTGGCTCTCTGCGCCATTGTCGCCACCATCTGG
TTTCCTGTATGTGCCCACCGCGAGATCACCATCGTGAGCTTTGGCTACTCGCTGTACGCAGGTTGGATCG
GTGCTGTGATGTGCCTGGTGGGTGGCTGTCATCGTCTGCTCCTCGCGATCAGCACAGTCATTTGGAGA

AAACCGTTTCTATTACTCTTCTGGTTCCAGCTCGCCAACGCATGCCAAGAGTGCCCATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225523 representing NM_008770

Red=Cloning site Green=Tags(s)

MVATCLQVVGFVTSFVGWIGIIVTTSTNDWVVTCSYTIPTCRKMDELGSKGLWADCVMATGLYHCKPLVD ILILPGYVQACRALMIAASVLGLPAILLLLTVLPCIRMGHEPGVAKYRRAQLAGVLLILLALCAIVATIW FPVCAHREITIVSFGYSLYAGWIGAVMCLVGGCVIVCCSGDAQSFGENRFYYSSGSSSPTHAKSAHV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



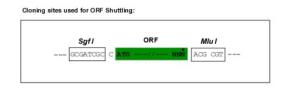
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

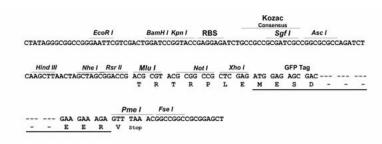
CN: techsupport@origene.cn

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

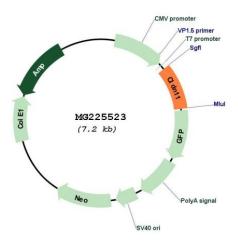


Cloning Scheme:





Plasmid Map:



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: <u>NM 008770.3, NP 032796.1</u>

 RefSeq Size:
 1872 bp

 RefSeq ORF:
 624 bp

 Locus ID:
 18417

 UniProt ID:
 Q60771

 Cytogenetics:
 3 15.14 cM

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]