

Product datasheet for **MG225211**

Cldn17 (NM_181490) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cldn17 (NM_181490) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cldn17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225211 representing NM_181490
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTTTTATCCCTTACAGATCGCTGGACTAGTTCTTGGATTCTTCGGTTTGGTTGGGACGATTGGGA
 CAACACTTCTGCCTCAATGGAGAGTGTACAGCTTTCATCGGCAGCAACATTATTATCTTTGAGAGGATCTG
 GGAAGGGCTTTGGATGAAGTGCATCCAGCAAGCTATGGTCACCTGCAGTGCAAATTCTATAACTCCATA
 TTGGCTCTCCCTCCGGTACTGGAAGCAGCGCGTCCCTCATGTGTGGCTGTGGCTCTTGCCTTGGTTG
 CTCTCATTATTGGCATCTGCGGCATGAAACAGCTCCAGTGCACCGCTCCAGCGAGAGGGTCAAAGCCTA
 CTTGCTTGAACCTCAGGGGTGCTCTTTATTCTGACTGGTATCTTCGTTCTGATTCCAGTGTCTGGACT
 GCTAATATCATCATCAGAGATTTCTACGCCAACCGTTCATGCAGGGCAGAAGCGAGAAGTGGAGGAG
 CACTCTTCTTGGCTGGGCAACCGCTGCTGTCTCTTATTGGAGGCGGGCTGCTCTCGGATATTGCTG
 CTGCAACAGAAAGGAACGGTGGCACAGATACCCAGTCCCTGCATACCGCGTGCCACAGAAGGATAACCAA
 AGGAATGTTACTGTGCCTAGAAAATCTTCCACCAGCTACGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225211 representing NM_181490
 Red=Cloning site Green=Tags(s)

MAFYPLQIAGLVLGFGLVGTIGTLLPQWRVSAFIGSNIIIFERIWEGLWMNCIQQAMVTLQCKFYNSI
 LALPPVLEAARALMCVAVALALVALIIGICGMKQLQCTGSSERVKAYLLGTSGVLFILTGIFVLIPVSWT
 ANIIRDFYDPTVHAGQKRELGGALFLGWATAAVLFIGGGLLCGYCCNRKERWHRYVPVPAYRVPQKDNQ
 RNVTVPRKSSTSYV

TRTRPLE - GFP Tag - V

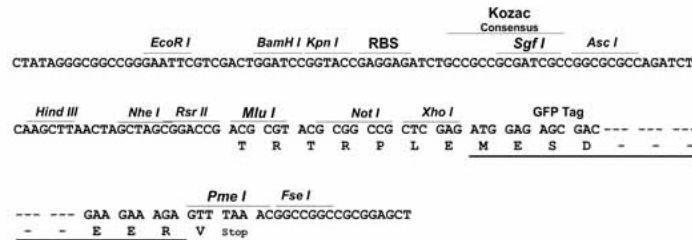
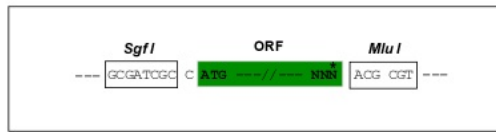


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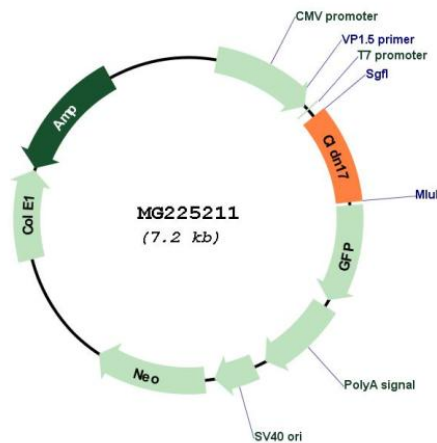
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_181490

ORF Size: 672 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:	<ol style="list-style-type: none">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_181490.3, NP_852467.1</u>
RefSeq Size:	1172 bp
RefSeq ORF:	675 bp
Locus ID:	239931
UniProt ID:	<u>Q8BXA6</u>
Cytogenetics:	16 C3.3
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 intronless and is clustered with the Cldn8 gene on chromosome 16. [provided by RefSeq, Aug 2010]