

Product datasheet for **MG202708**

Cldn15 (NM_021719) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn15 (NM_021719) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cldn15
Synonyms:	2210009B08Rik; BB107105
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202708 representing NM_021719 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGTAGCTGTGGAGACCTTCGGCTTCTTCATGTCAGCCCTGGGACTGCTGATGCTGGGGTTGACCC
 TTTCAACAGCTACTGGAGAGTGTCTACGGTCCATGGCAACGTCATCACCACCAACACCATCTTTGAGAA
 CCTGTGGTACAGCTGTGCCACCGACTCCCTGGGAGTCTCCAAGTCTGGGACTTTCCGTCCATGCTGGCC
 CTCTCTGGGTATGTCCAGGGCTGCCGGGCTCTCATGATCACCGCCATCCTCTGGGCTTCTGGGCTCT
 TTCTAGGCATGGTGGGACTCCGCTGCACCAACGTGGGCAACATGGATCTCTCCAAGAAGCCAAGCTGCT
 GGCCATTGCAGGGACCTCCACATACTTGTGGAGCCTGTGGGATGGTGGCTATCTCGTGGTACGCCGTC
 AACATCACTACTGACTTCTTCAACCCACTGTATGCTGGAACCAAGTATGAACTGGGCCCCGCCCTCTACT
 TGGGCTGGAGTGCTCCCTGCTCTCCATCCTGGGCGGCATCTGTGTCTTCTCCACCTGCTGCTGTTCCCTC
 CAAGGAGGAACCGCCACCAGGGCTGGGCTTCCCTACAAGCCTTCTACGGTTGTGATACCCCGTGCCACC
 TCGGATGAGAGTGACATCAGCTTCGGTAAATATGGCAAAACGCATACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG202708 representing NM_021719
Red=Cloning site Green=Tags(s)

MSVAVETFGFFMSALGLLMLGLTLSNSYWRVSTVHGNVITNTIFENLWYSCATDSLGVSNCWDFPSMLA
LSGYVQGCRAIMITAILLGLFLGLGMVGLRCTNVGNMDSLKAKALLAIAGTLHILAGACGMVAISWYAV
NITTDFFNPLYAGTKYELGPALYLGWSASLLSILGGICVFSTCCSSKEEPATRAGLPYKPSTVVIPRAT
SDESDISFGKYGKNAYV

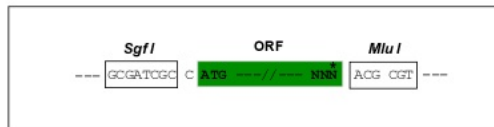
TRTRPLE – GFP Tag – V

Chromatograms: https://cdn.origene.com/chromatograms/ja2354_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCCGCGGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

--- --- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - - E E R V Stop

ACCN: NM_021719

ORF Size: 681 bp

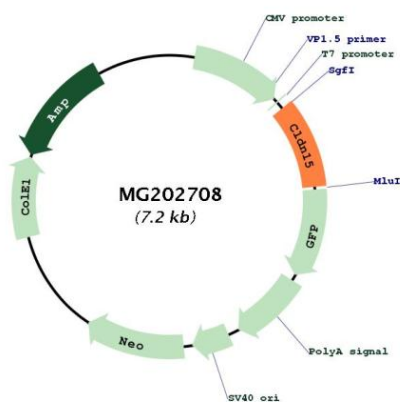
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_021719.4
RefSeq Size:	1847 bp
RefSeq ORF:	684 bp
Locus ID:	60363
UniProt ID:	Q9Z0S5
Cytogenetics:	5 G2
Gene Summary:	<p>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 protein increases permeability for sodium ions in anion-selective epithelial cell sheets. The gene deficiency leads to megaintestine and decreases in intestinal epithelial paracellular ion permeability. This gene is a direct target for hepatocyte-nuclear-factor-4alpha, a mediator of ion epithelial transport, and is down-modulated in inflammatory bowel disease. [provided by RefSeq, Aug 2010]</p>

Product images:



Circular map for MG202708