

Product datasheet for **MG202643**

Cldn8 (NM_018778) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cldn8 (NM_018778) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cldn8
Synonyms: A1648025
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202643 representing NM_018778
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACCTACGCTCTTCAAATGGCTGCACTGGTGCTTGGTGGTGTGGCATGGTGGGCACGGTGGCTG
TGACTATCATGCCTCAGTGGAGAGTGTCTGCCTTCATCGAAAGTAACATTGTGGTGTGGAGAACCCTG
GGAAGGCTTGTGGATGAATTGTATGAGGCATGCCAACATCAGAATGCAGTGAAGGTCTACGACTCCCTG
CTGGCTCTTAGTCCAGACCTCCAGGCATCCCGAGGACTGATGTGTGCTGCGTCCGTCTTGGCTTTCTTG
CTTTCATGACAGCCATCCTCGGAATGAAGTGCACCAGATGCACGGGGACGATGAGAACGTGAAGAGCCG
CATCTTGCTGACAGCCGGAATCATCTTCTTCATCACCGGCTTGGTGTGCTCATCCCTGTGAGCTGGGTT
GCCAATTCATCATCAGAGACTTCTACAACCCACTGGTGGATGTGGCCCTAAAGCGTGAGCTGGGAGAAG
CCCTCTACATAGGCTGGACCACAGCGCTGGTGTGCTGATCGCTGGAGGAGCACTGTTCTGTTGTGTTTTG
TTGTAAGAAAGGAGCAACAGTTACAGGTACTCGGTACCATCCCATCGCACCCTCAACGGAGTTTCCAC
GCCGAAAAGAGATCTCCGAGCATATACTCCAAAAGTCAGTATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202643 representing NM_018778
 Red=Cloning site Green=Tags(s)

MATYALQMAALVLGGVGMVGTVAVTIMPQWRVSFAFIESNIVVFENRWEGLWMNCMRHANIRMQCKVYDSL
 LALSPDLQASRGLMCAASVLAFLAFMTAILGMKCTRCTGDENVKSRILLTAGIIFFITGLVVLIPVSWV
 ANSIIRDFFYNPLVDVALKRELGEALYIGWTTALVLIAGGALFCCVFCCTERSNSYRYSVPSHRTTQRSFH
 AEKRSPSIYSKSQYV

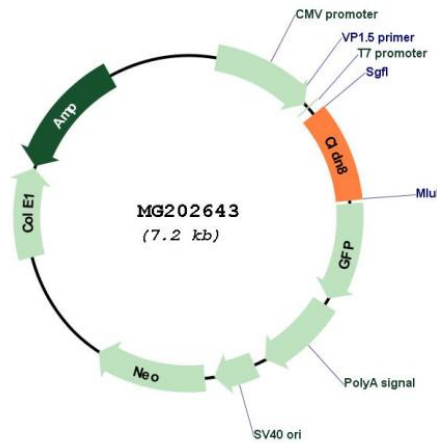
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_018778

ORF Size: 2365 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:	NM_018778.2
RefSeq Size:	2325 bp
RefSeq ORF:	678 bp
Locus ID:	54420
UniProt ID:	Q9Z260
Cytogenetics:	16 C3.3
Gene Summary:	This intronless 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 paracellular cation barrier. [provided by RefSeq, Aug 2010]