

# **Product datasheet for MG225640**

# Cldn22 (NM\_029383) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Cldn22 (NM\_029383) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Cldn22

**Synonyms:** 2210404A22Rik; 5330431C14Rik; 9530051B05Rik

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >MG225640 representing NM\_029383

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCTTAGTCTTCCGAACGGCAACGCAGGCGGCTGCACTTCTGCTCTCCCTGCTGGGATGGGTTTTAT
CCTGCCTTACAAACTACTTGCCGCACTGGAAGAACCCTTAACTTGGAGCTGAACGAGATGGAGAACTGGAC
CATGGGGCTCTGGAAACTCCTGCGTCATCCAGGAGGAAGTCGGAGGCAATGCAAGGACTTTGACTCCTTC
CTGGCCTTGCCAGCTGAACTGCAGGTCTCCAGGGTCTTGATGTCCCTGTGCAACGGGCTGGGGCTGCTGG
GCTTGCTGGCCTCTGGCCTGGACTGCTTGAGGCTTGGAGAGACACAGGAGGGTCTGAAGAAGCG
GCTGCTCACCCTGGGAGGGACCCTGCTCTGGACCTCGGGAGTCATGCTAGTTCCTGTCTCCTGGGTG
GCCCACAAGACGGTGCGGGAGTTCTGGGATGAGACCATGCCTGAGATTGTGCCCAGGTGGGAGTTTGGGG
AGGCCCTGTTCCTGGGCTTGCTGGCTTCTGCCTGGTGCTAGGAGGGTGTGTGCTTCACTGTGCAGC
CTGCTGGAGCCCGGCTCCTGCAGCCTCGAGTCACTATGCAGTGGCGGGACCTCGAGACCACCAGCAGCAT

CTGGAGCTGAAGCAAGCCAATCCAGAAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225640 representing NM\_029383

Red=Cloning site Green=Tags(s)

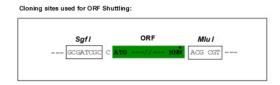
MGLVFRTATQAAALLLSLLGWVLSCLTNYLPHWKNLNLELNEMENWTMGLWKSCVIQEEVGRQCKDFDSF LALPAELQVSRVLMSLCNGLGLLGLLASGCGLDCLRLGETQEGLKKRLLTLGGTLLWTSGVMVLVPVSWV AHKTVREFWDETMPEIVPRWEFGEALFLGWFAGFCLVLGGCVLHCAACWSPAPAASSHYAVAGPRDHQQH LELKQANPEI

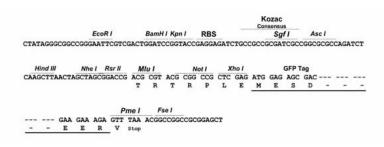
TRTRPLE - GFP Tag - V

**Restriction Sites:** 

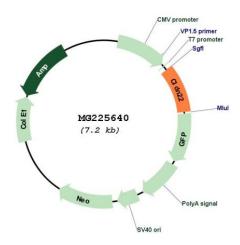
Sgfl-Mlul

**Cloning Scheme:** 





#### Plasmid Map:



**ACCN:** NM\_029383

ORF Size: 660 bp

### Cldn22 (NM\_029383) Mouse Tagged ORF Clone - MG225640

**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: NM 029383.1, NP 083659.1

8 B1.1

 RefSeq Size:
 994 bp

 RefSeq ORF:
 663 bp

 Locus ID:
 75677

 UniProt ID:
 Q9D7U6

Cytogenetics:

**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 overlaps the 3' UTR of the Wwc2 gene

(GenelD: 52357) on the opposite strand. [provided by RefSeq, Aug 2010]