

Product datasheet for **MR204097**

Cldn23 (NM_027998) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cldn23 (NM_027998) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cldn23
Synonyms: 2310014B08Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204097 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGGACCGGGTGGTATGACGCTGGGCATGGTGCTCACGCCCTGCGGGTTGCTGCTTAATCTTGTC
GTACACTGGCCCCGGGCTGGCGGCTGGTGAAGGGCTTTCTGGACCAGCCAGTGGACGTGGTGCTGTACCA
GGGGCTGTGGGACATATGTCGCGAGCAGAGCAGTCGCGAACGCGAGTGGCCAGCCGACGAGTGAAC
TACTTCCAGACCCAGCCTGTGCAGGTGGCCGGGACTCATGATCACGTCAGTGGCCACTACCGCCCTAG
GGCTGCTGCTGGCTTCCCTCGGCGTGCCTGTTGGCAAGATGAGCCCCACTACGGGCTAGCGGGCCTCTC
TGGCGTGGTGTTCCTCGTCGCTGGCCTTTCAGCCTCATCCCGGTCTCCTGGTATAACCCTTCTTGTC
GATCCCGACGTCCTGGCCGCCCCGAGCTCGCCGGTACCGTGCAGGTGAGCTACAGTCTGGTGTGGGCT
ACCTAGGGAGCTGCCTGCTGCTTCTGGCGGCTTCTCTGCGCTCAGCTTTCGCCCCGCTGGTGTGAAGA
GCGTTGTGCGCGCTGTGCAAGGCGCCCCAGCAGGCCCGCGCCGAGCAGCATCAGCACCGTCTACGTG
GACTGGCCGGAACCAGCGCTCACACCTGCCATCAAGTACTACAGCGACGGACAGCATCGGCTCCTCCCA
CCGAGAGCACAGGGACACCAGCAAGCTCAAGTGGGATTCGATGCCACGACCCACCCAAGTCCCTA
CACCAACCCGATGGATGTGCTTGGAGGAGAAGAAAAGAAGACAGCCACCTCCCAAGTGGTTCCTCCTCT
CGCAGCACCCGGCCCTGCCAAAATTCGTTGCCCTGTGACTCTGACCTG

**ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**



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Protein Sequence: >MR204097 protein sequence
Red=Cloning site Green=Tags(s)

M RTPVVM T L G M V L T P C G L L L N L V S T L A P G W R L V K G F L D Q P V D V V L Y Q G L W D I C R E Q S S R E R E C G Q P D E W N
 Y F Q T Q P V Q V A R G L M I T S L A T T A L G L L L A S L G V R C W Q D E P H Y G L A G L S G V V F F V A G L F S L I P V S W Y N H F L S
 D P D V L A A P S S P V T V Q V S Y S L V L G Y L G S C L L L L G G F S L A L S F A P W C E E R C R R C R K A P P A G P R R S S I S T V Y V
 D W P E P A L T P A I K Y Y S D G Q H R P P P T A E H R D T S K L K V G F P M P R P P P K S Y T N P M D V L E G E E K K T A T S Q G G S S
 R S T R P C Q N S L P C D S D L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027998

ORF Size: 891 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: [NM_027998.2](#), [NP_082274.1](#)

RefSeq Size: 1851 bp

RefSeq ORF: 891 bp

Locus ID: 71908

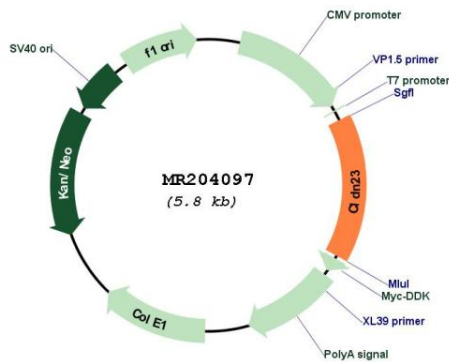
UniProt ID: [Q9D7D7](#)

Cytogenetics: 8 A4

MW: 32.5 kDa

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 the protein encoded by this gene is 77% identical to the human homolog. [provided by RefSeq, Aug 2010]

Product images:



Circular map for MR204097