

Product datasheet for **MR225223**

Cldn18 (NM_001194921) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn18 (NM_001194921) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cldn18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225223 representing NM_001194921 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGTGACCGCCTGCCAGGGCTTGGGGTTTGTGGTGTCACTGATCGGGTTTGCGGGCATCATTGCAG
CCACTTGTATGGACCACTGGAGCACCCAGGATTTATAACAACCCGGTGACCGCTGTATTCAACTACCA
AGGGCTATGGCGTTCATGCGTCCGAGAGAGCTCTGGCTTCACCGAGTGCCGAGGCTACTTCACCCGTGTG
GGTTGCCAGCCATGCTGCAAGCTGTACGAGCCCTGATGATCGTGGGCATTGTTCTGGGGTTCATCGGTA
TCCTCGTGTCCATCTTCGCCCTGAAGTGCATTGCATTGGTAGCATGGATGACTCTGCCAAGGCCAAGAT
GACTCTGACTTCTGGGATCTTGTTCATCATCTCCGGCATCTGTGCAATCATTGGTGTGTCTGTGTTTGC
AACATGCTGGTGACCAACTTCTGGATGTCCACAGCTAACATGTACAGCGCATGGCGGCATGGGTGGCA
TGGTGCAGACCGTTCAGACCAGGTACACCTTTGGTGCAGCTCTGTTCTGGGGCTGGGTGCTGGAGGCC
CACCCCTGATTGGGGGAGTGATGATGTGCATCGCCTGCCGTGGCCTGACACCAGATGACAGCAACTTCAA
GCTGTGCTTACCATGCCTCTGGCCAAATGTTGCCTACAGGCCCTGGAGGCTTTAAGGCCAGCACTGGCT
TTGGGTCCAACACCAGAAACAAGAAGATCTACGATGGGGTGCCCGCACAGAAGACGATGAACAGTCTCA
TCCTACCAAGTATGACTATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_001194921.1](#), [NP_001181850.1](#)

RefSeq Size: 2774 bp

RefSeq ORF: 795 bp

Locus ID: 56492

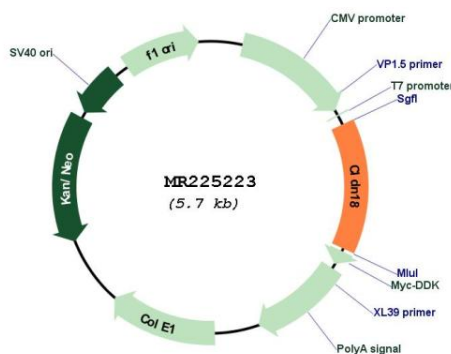
UniProt ID: [P56857](#)

Cytogenetics: 9 E3.3

MW: 28.6 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 a downstream target gene regulated by the T/EBP/NKX2.1 homeodomain transcription factor. Four alternatively spliced transcript variants resulted from alternative promoters and alternative splicing have been identified, which encode two lung-specific isoforms and two stomach-specific isoforms respectively. This gene is also expressed in colons, inner ear and skin, and its expression is increased in both experimental colitis and ulcerative colitis. [provided by RefSeq, Aug 2010]

Product images:



Circular map for MR225223