

Product datasheet for MR202486

Cldn6 (NM_018777) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cldn6 (NM_018777) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cldn6
Synonyms:	AL024037
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202486 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCTACTGGTCTGCAAATCTTGGGGATCGTCCTGACCCTGCTTGGCTGGGTCAACGCCCTGGTGT
CCTGTGCCCTGCCCATGTGGAAGGTGACCGCCTTCATCGGCAACAGCATCGTCGTGGCCAGATGGTGTG
GGAGGGGCTGTGGATGTCCTGTGTGGTTCAGAGCACTGGCCAGATGCAGTGAAGGTGTATGACTCACTG
TTGGCGCTGCCCCAGGACCTGCAGGCTGCCAGAGCCCTCTGTGTGTGACCCTCCTATTGCTCTGCTTG
GCCTGCTCGTGTACCTGGCTGGAGCCAAGTGCCTACCTGTGTGGAAGATAGGAAGTCCAAGTCTCGTCT
GGTGTCTATCTCTGGCATCATCTTTGTCAATTTCTGGGGTCTGACGCTCATTCTGTCTGCTGGACTGCC
CACTCTATCATCCAGGACTTCTACAACCCCTTGGTGGCTGATGCTCAAAAGCGGGAGCTGGGGCCCTCCC
TCTACCTGGGCTGGGAGCCTCAGGCCTTTTGTGCTGGGTGGAGGGCTACTATGCTGCGCCTGCTCTTC
TGGAGGGACCCAGGGACCCAGACATTACATGGCCTGCTATTCTACATCTGTCCCACATTCTCGGGGACCC
TCCGAATATCCCACCAAGAATTATGTG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202486 protein sequence
Red=Cloning site Green=Tags(s)

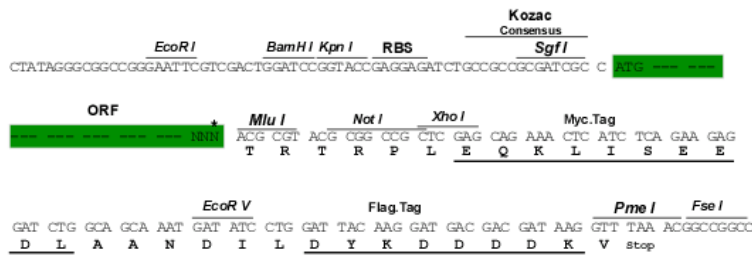
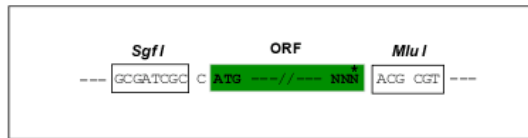
MASTGLQILGIVLTLLGWVNALVSCALPMWKVTAFIGNSIVVAQMVWEGLWMSCVVQSTGQMCKKVYDSL
 LALPQDLQAARALCVVTLTLLIVLLGLLVYLAGAKCTTCVEDRNSKSRVLISGIIIFVISGVLTLIPVCWTA
 HSI IQDFYNPLVADAQKREL GASLYL GWAASGL LLLGGLLCCACSSGGTQGRHYMACYSTSVPHSRGP
 SEYPTKNYV

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_018777

ORF Size: 660 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_018777.4](#)

RefSeq Size: 1522 bp

RefSeq ORF: 660 bp

Locus ID: 54419

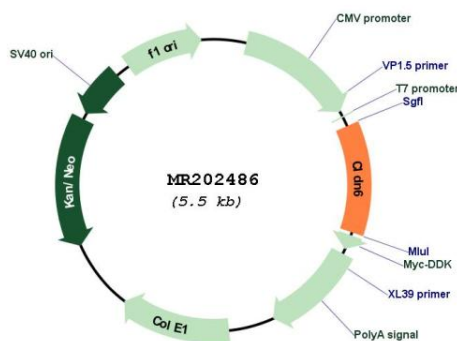
UniProt ID: [Q9Z262](#)

Cytogenetics: 17 A3.3

MW: 23.4 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. The protein encoded by this gene is essential for blastocyst formation in preimplantation mouse embryos, and is involved in and is crucial for the formation and maintenance of the epidermal permeability barrier. This gene is adjacent to another family member Cldn9 on chromosome 17. [provided by RefSeq, Aug 2010]

Product images:



Circular map for MR202486