

Product datasheet for RC203090

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Claudin 10 (CLDN10) (NM_006984) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Claudin 10 (CLDN10) (NM_006984) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: Claudin 10

Synonyms: CPETRL3; HELIX; OSP-L; OSPL

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC203090 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTAGCACGGCTTCGGAGATCATCGCCTTCATGGTCTCCATCTCAGGCTGGGTACTGGTGTCCTCCA
CGCTGCCCACCGACTACTGGAAGGTGTCTACCATCGACGGCACGGTCATCACAACCGCCACCTATTGGGC
CAACCTGTGGAAGGCGTGCGTTACCGACTCCACGGGCGTCTCCAACTGCAAGGACTTCCCCTCCATGCTG
GCGCTGGACGGTTATATACAGGCATGTAGAGGGACTTATGATCGCTGCTGTCAGCCTGGGCTTCTTTGGTT
CCATATTTGCGCTCTTTTGGAATGAAGTGTACCAAAGTCGGAGGCTCCGATAAAGCCAAAGCTAAAATTGC
TTGTTTGGCTGGGATTGTATTCATACTGTCAGGGCTGTGCTCAATGACTGGATGTTCCCTATATGCAAAC
AAAATCACAACGGAATTCTTTGATCCTCTCTTTGTTGAGCAAAAGTATGAATTAGGAGCCGCTCTGTTTA
TTGGATGGGCAGGAGCCTCACTGTGCATAATTGGTGGTGTCATATTTTGCTTTTCAATATCTGACAACAA
CAAAACACCCAGATACACATACAACGGGGCCACATCTGTCATGTCTTCTCGGACAAAAGTATCATGGTGGA
GAAGATTTTAAAACAACAAACCCTTCAAAACAGTTTGATAAAAATGCTTATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





Protein Sequence: >RC203090 protein sequence

Red=Cloning site Green=Tags(s)

MASTASEIIAFMVSISGWVLVSSTLPTDYWKVSTIDGTVITTATYWANLWKACVTDSTGVSNCKDFPSML ALDGYIQACRGLMIAAVSLGFFGSIFALFGMKCTKVGGSDKAKAKIACLAGIVFILSGLCSMTGCSLYAN KITTEFFDPLFVEQKYELGAALFIGWAGASLCIIGGVIFCFSISDNNKTPRYTYNGATSVMSSRTKYHGG EDFKTTNPSKQFDKNAYV

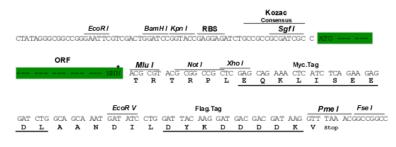
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6146 e12.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_006984

ORF Size: 684 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: <u>NM 006984.5</u>

RefSeq Size:2490 bpRefSeq ORF:687 bpLocus ID:9071

 UniProt ID:
 P78369

 Cytogenetics:
 13q32.1

Domains: PMP22_Claudin
Protein Families: Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

MW: 24.5 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

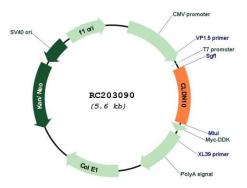
epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. The expression level of this gene is associated with recurrence of primary hepatocellular carcinoma. Six alternatively spliced transcript variants encoding

different isoforms have been reported, but the transcript sequences of some variants are not

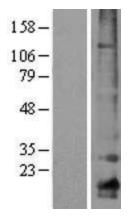
determined.[provided by RefSeq, Jun 2010]



Product images:



Circular map for RC203090



Western blot validation of overexpression lysate (Cat# [LY402070]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203090 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).