

Product datasheet for **RC205032**

Claudin 20 (CLDN20) (NM_001001346) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Claudin 20 (CLDN20) (NM_001001346) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Claudin 20
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205032 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCAGCAGGACTCCAGCTCCTTGCTTTCATCCTGGCCTTATCTGGGGTCTCTGGAGTGCTCACAG
CCACTCTGCTGCCAACTGGAAGGTGAATGTGGATGTGGACTCCAACATCATAACAGCCATTGTACAGCT
GCACGGGCTCTGGATGGACTGTACGTGGTACAGCACTGGGATGTTTCAGCTGTGCCCTGAAACACTCCATT
CTGTCCCTCCCATCCACGTGCAGGCTGCGAGAGCCACCATGGTCTGGCGTGTGTCTGTCTGCTTTGG
GGATCTGCACTTCCACAGTAGGAATGAAATGTAATCGTCTAGGAGGGGACAGAGAAACCAAGGCCATGC
TTCTTTGCTGGAGGAGTCTGTTTCATGTCTGCAGGAATCTAGTTAATCTCGACAGTGTGGTACACA
AAGGAGATCATAGCAAATTTCTGGATCTGACAGTTCAGAAAGCAACAACATGAACCTGGAGGAGCTA
TCTATATCGGATTCATTTCTGCAATGCTGTTGTTATCTCTGGCATGATTTCTGCACCTCTGTATAAA
AAGGAATCCAGAAGCTAGACTCGACCCACCCACACAGCAGCCTATCTCTAACACACAGCTCGAGAACAAT
TCCACACACAATCTGAAGGATTATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205032 protein sequence
Red=Cloning site Green=Tags(s)

MASAGLQLLAFILALSGVSGVL TATLLPNWKVNVVDVDSNIITAI VQLHGLWMDCTWYSTGMFSCALKHSI
LSLPIHVQAARATMVLACVLSALGICTSTVGMKCTRLGGDRETKSHASFAGGVCFMSAGISSLISTVWYT
KEIIANFLDLTPESNKHEPGGAIYIGFISAMLLFISGMIFCTSCIKRNPPEARLDPPTQQPISNTQLENN
STHNLKDYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mk6439_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001346

ORF Size: 657 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_001001346.3](#)

RefSeq Size: 1209 bp

RefSeq ORF: 660 bp

Locus ID: 49861

UniProt ID: [P56880](#)

Cytogenetics: 6q25.3

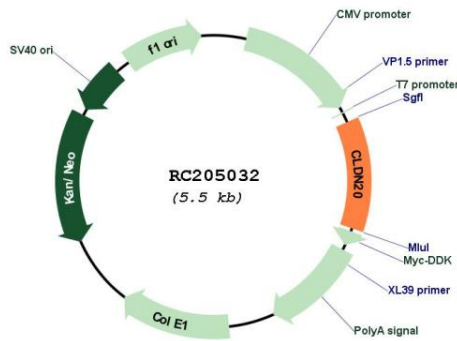
Protein Families: Transmembrane

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

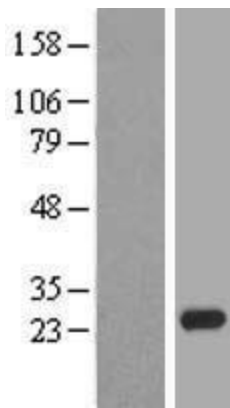
MW: 23.5 kDa

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. [provided by RefSeq, Jun 2010]

Product images:



Circular map for RC205032



Western blot validation of overexpression lysate (Cat# [LY424330]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205032 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).