

Product datasheet for RC229148

Claudin 5 (CLDN5) (NM_003277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 5 (CLDN5) (NM_003277) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLDN5
Synonyms:	AWAL; BEC1; CPETRL1; TMDVCF; TMVCF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229148 representing NM_003277 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCCGCGCACGGATTGGCTGCTTCGGGCCGGGGGGCCGGGCCGGGGGACAGAATCCGCCCCGAAC
CTTCAAAGAGGGTACCCCCGGCAGGAGCTGGCAGACCCAGGAGGTGCGACAGACCCGGGGCAAACGG
ACTGGGGCCAAGAGCCGGGAGCGCGGGCGCAAAGGCACCAGGGCCGCCAGGGCGCCGCGCAGCACGGC
CTTGGGGTTCTGCGGGCCTTCGGGTGCGCTCTCGCTCTAGCCATGGGGTCCGCAGCGTTGGAGATCC
TGGGCTGGTGTGTGCCTGGTGGGCTGGGGGGTCTGATCCTGGCGTGGGGCTGCCCATGTGGCAGGT
GACCGCTTCTGGACCAACATCGTGACGGCGCAGACCACCTGGAAGGGCTGTGGATGTCTGTGCGTG
GTGCAGAGCACCGGGCACATGCAGTGCAAAGTGTACGACTCGGTGCTGGCTCTGAGCACCGAGGTGCAGG
CGGCGCGGGCGCTCACCGTGAGCGCCGTGCTGCTGGCGTTCGTTGCGCTCTTCGTGACCTGGCGGGCGC
GCAGTGACCACTGCGTGGCCCCGGGCCCGCAAGGCGGTGTGGCCCTCACGGGAGGCGTGTCTAC
CTGTTTTGCGGGTGTGGCGCTCGTGCCACTCTGCTGGTTCCCAACATTGTCTCCGCGAGTTTTACG
ACCGTCTGTGCCGTGTCGAGAAGTACGAGCTGGGCGCAGCGCTGTACATCGGCTGGGCGGCCACCGC
GCTGCTCATGGTAGGCGGCTGCCTTTGTGCTGCGGCCCTGGTCTGCACCGCCGTCCCGACCTCAGC
TTCCCCGTGAAGTACTCAGCGCCGGCGGCCACGGCCACCGGGACTACGACAAGAAGAACTACGTC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229148 representing NM_003277
 Red=Cloning site Green=Tags(s)

MTRARIGCFGPGGRARGTESAPEPSKRVPVPPGRSWQTQEVQRTRGANGLGPRAGSAGAKAPGPAQGAHQHG
 LGGSAGLRVRSPLAMGSAALEILGLVLCLVGVWGLILACGLPMWQVTAFLDHNIVTAQTWTKGLWMSCV
 VQSTGHMQCKVYDSVLALSTEVQAARALTVSAVLLAFVALFVTLAGAQCCTCVAPGPAKARVALTGGVLY
 LFCGLLALVPLCWFANIVREFYDPSVPSQKYELGAALYIGWAATALLMVGGLCCGAWVCTGRPDLS
 FPKYSAPRRPTATGDYDKKNYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

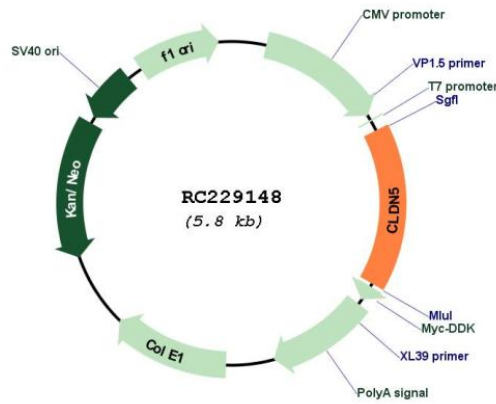
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_003277

ORF Size: 909 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:	<ol style="list-style-type: none">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_003277.3 , NP_003268.2
RefSeq ORF:	912 bp
Locus ID:	7122
UniProt ID:	O00501
Cytogenetics:	22q11.21
Domains:	PMP22_Claudin
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
MW:	31.4 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. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2018]