

OriGene Technologies, Inc.

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Product datasheet for RC209820

Claudin 12 (CLDN12) (NM_012129) Human Tagged ORF Clone

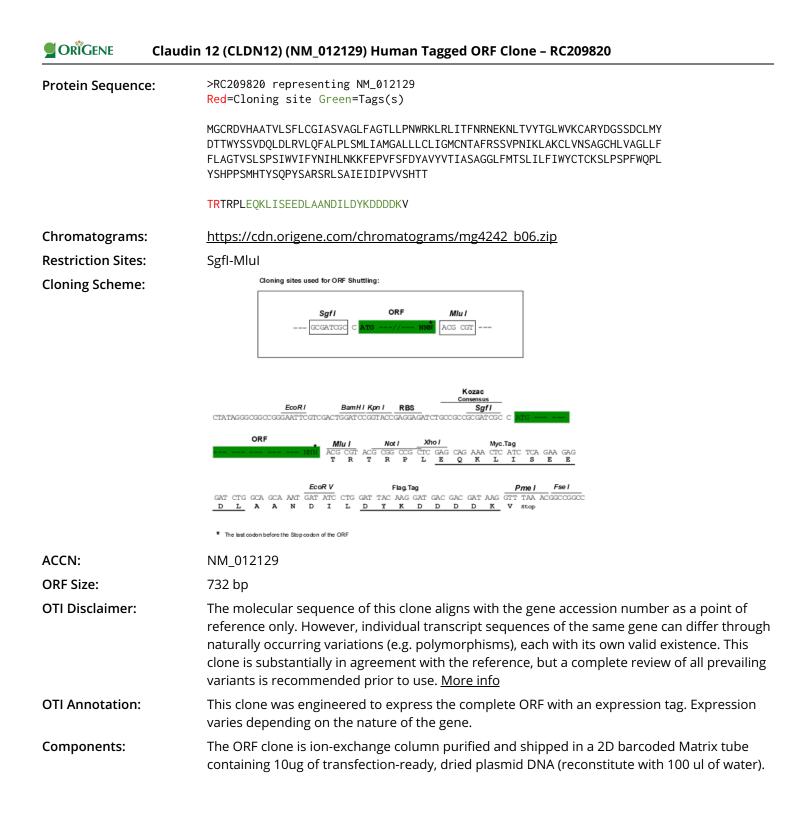
Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 12 (CLDN12) (NM_012129) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Claudin 12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC209820 representing NM_012129 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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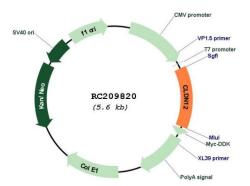
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Schule Claudin 12 (CLDN12) (NM_012129) Human Tagged ORF Clone – RC209820

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 012129.5</u>
RefSeq Size:	3493 bp
RefSeq ORF:	735 bp
Locus ID:	9069
UniProt ID:	<u>P56749</u>
Cytogenetics:	7q21.13
Protein Families:	Transmembrane
MW:	26.9 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 expressed in the inner ear and bladder epithelium, and it is over-expressed in colorectal carcinomas. This protein and claudin 2 are critical for vitamin D- dependent Ca2+ absorption between enterocytes. Multiple alternatively spliced transcript

variants encoding the same protein have been found.[provided by RefSeq, Sep 2011]

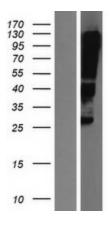
Product images:



Circular map for RC209820

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Western blot validation of overexpression lysate (Cat# [LY415956]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209820 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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