

#### OriGene Technologies, Inc.

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# Product datasheet for RC208853

### Claudin 8 (CLDN8) (NM\_199328) Human Tagged ORF Clone

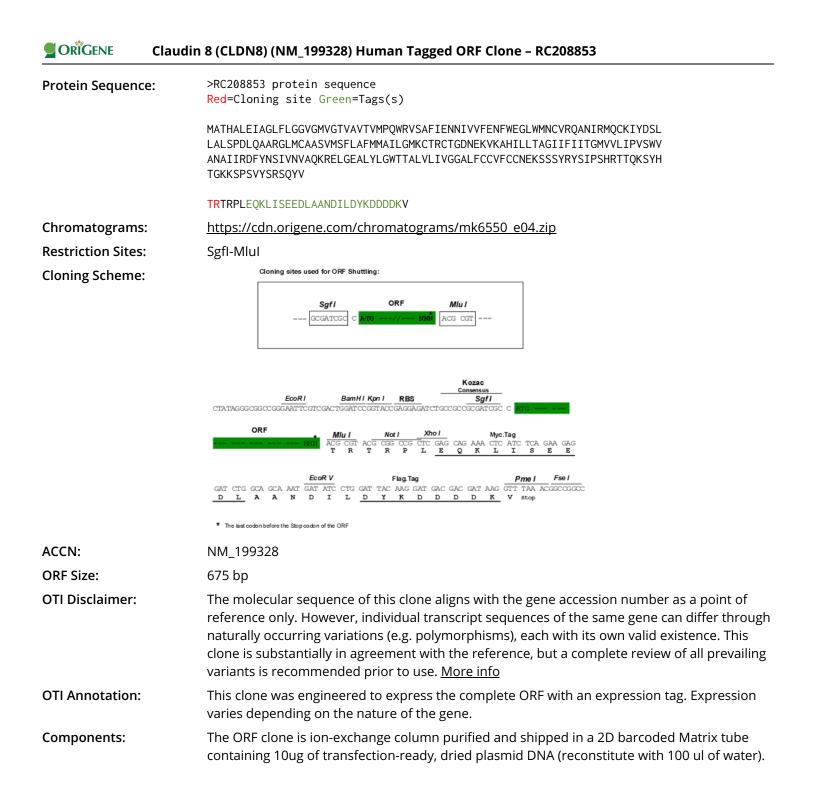
#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Claudin 8 (CLDN8) (NM_199328) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Claudin 8
Synonyms:	HEL-S-79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC208853 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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## **Claudin 8 (CLDN8) (NM\_199328) Human Tagged ORF Clone – RC208853**

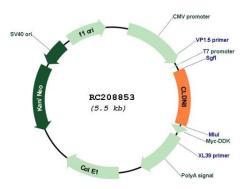
Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 199328.3</u>
RefSeq Size:	2147 bp
RefSeq ORF:	678 bp
Locus ID:	9073
UniProt ID: Cytogenetics:	<u>P56748</u> 21q22.11
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
MW:	24.8 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 protein plays important roles in the paracellular cation barrier of the distal renal tubule, and in the paracellular barrier to prevent sodium back-leakage in distal colon. Differential expression of this gene has been observed in colorectal carcinoma and renal cell tumors, and along with claudin-7, is an immunohistochemical marker for the differential diagnosis of chromophobe renal cell carcinoma and renal oncocytoma.[provided

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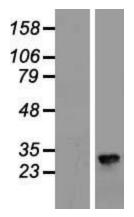
by RefSeq, May 2010]



### **Product images:**



Circular map for RC208853



Western blot validation of overexpression lysate (Cat# [LY404623]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208853 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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