

Product datasheet for **RG208853**

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:	TurboGFP
Symbol:	Claudin 8
Synonyms:	HEL-S-79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208853 representing NM_199328 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGGTGGTGTGGAATGGTGGGCACAGTGGCTG
TCACTGTCATGCCTCAGTGGAGAGTGTCCGGCCTTCATTGAAAACAACATCGTGGTTTTTGAAAACCTCTG
GGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTGCAAATCTATGATTCCTG
CTGGCTCTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGTGATGCCTTCTTGG
CTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGACAATGAGAAGGTGAAGGCTCA
CATTCTGCTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGCATCCCTGTGAGCTGGGTT
GCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCAAAAACGTGAGCTTGGAGAAG
CTCTCTACTTAGGATGGACCACGGCACTGGTGTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTG
TTGCAACGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAAACCAAAAAAGTTATCAC
ACCGGAAAGAAGTCACCGAGCGTCTACTCCAGAAGTCAGTATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208853 representing NM_199328
 Red=Cloning site Green=Tags(s)

MATHALEIAGLFLGGVGMVGTVAVTVMPQWRVSAFIENNI VVFENFWEGLWMNCVRQANIRMQCKIYDSL
 LALSPDLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWV
 ANAIIRDFYNSIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCCNEKSSSYRYSIPSHRTTQKSYH
 TGKKSPSVYSRSQYV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199328

ORF Size: 675 bp

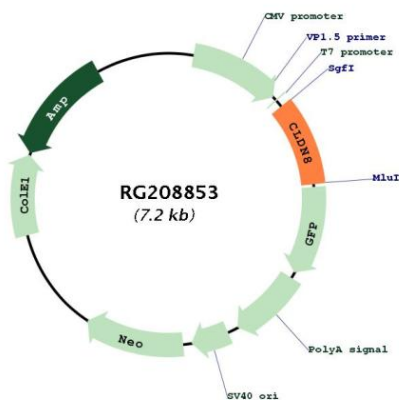
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_199328.3
RefSeq Size:	1989 bp
RefSeq ORF:	678 bp
Locus ID:	9073
UniProt ID:	P56748
Cytogenetics:	21q22.11
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
Gene Summary:	<p>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 by RefSeq, May 2010]</p>

Product images:



Circular map for RG208853