

Product datasheet for **RG208701**

Claudin 9 (CLDN9) (NM_020982) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 9 (CLDN9) (NM_020982) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Claudin 9
Synonyms:	DFNB116
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208701 representing NM_020982 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTTCGACCGGCTTAGAACTGCTGGGCATGACCCTGGCTGTGCTGGGCTGGCTGGGGACCCTGGTGT
 CCTGCGCCCTGCCCTGTGGAAGGTGACCGCCTTCATCGGCAACAGCATCGTGGTGGCCAGGTGGTGTG
 GGAGGGCCTGTGGATGTCCTGCGTGGTGCAGAGCACGGGCCAGATGCAGTGCAAGGTGTACGACTCACTG
 CTGGCTCTGCCGAGGACCTGCAGGCCGCACGTGCCCTCTGTGTCATTGCCCTCCTGCTGGCCCTGCTTG
 GCCTCCTGGTGGCCATCACAGGTGCCAGTGTACCACGTGTGTGGAGGACGAAGGTGCCAAGGCCCGTAT
 CGTGCTACCGCGGGGGTCATCCTCCTCGCCGGCATCCTGGTGTCTATCCCTGTGTGCTGGACGGCG
 CACGCCATCATCCAGGACTTCTACAACCCCTGGTGGCTGAGGCCCTCAAGCGGGAGCTGGGGGCCCTCCC
 TCTACCTGGGCTGGGCGGCGGCTGCACTGCTTATGCTGGGCGGGGGCTCCTCTGCTGCACGTGCCCCC
 GCCCCAGGTGAGCGGCCCCGCGGACCTCGGCTGGGCTACTCCATCCCCTCCCGCTCGGGTGCATCTGGA
 CTGGACAAGAGGGACTACGTG

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA


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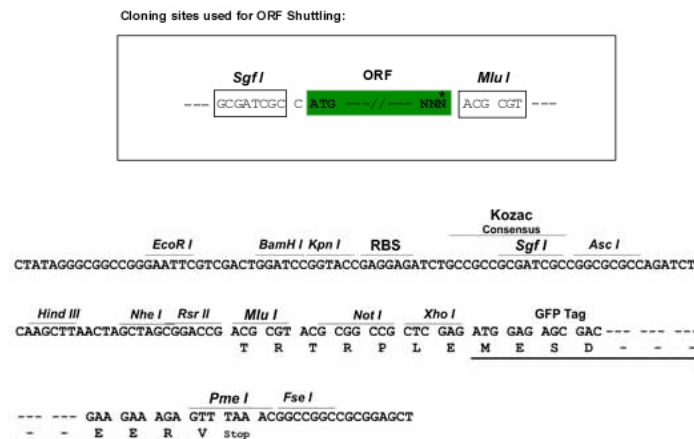
Protein Sequence: >RG208701 representing NM_020982
 Red=Cloning site Green=Tags(s)

MASTGLELLGMTLAVLGWLGTLVSCALPLWKVTAFIGNSIVVAQVVWEGLMSCVVQSTGQMCKVYDSL
 LALPQDLQAARALCVIALLLALLGLLVAITGAQCTTCVEDEGAKARIVLTAGVILLLAGILVLIPIVCWTA
 HAIQDFYNPLVAEALKREL GASLYLGWAAAALLMLGGLLCCTCPPPQVERPRGPRLGYSIPSRSGASG
 LDKRDYV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020982

ORF Size: 651 bp

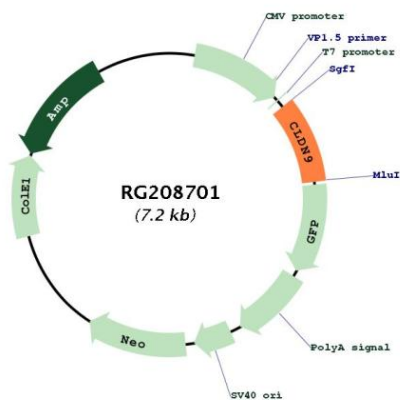
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_020982.4</u>
RefSeq Size:	1804 bp
RefSeq ORF:	654 bp
Locus ID:	9080
UniProt ID:	<u>O95484</u>
Cytogenetics:	16p13.3
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 is one of the entry cofactors for hepatitis C virus. Mouse studies revealed that this gene is required for the preservation of sensory cells in the hearing organ and the gene deficiency is associated with deafness. [provided by RefSeq, Jun 2010]</p>

Product images:



Circular map for RG208701