

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)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCGACCGGCTTAGAACTGCTGGGCATGACCCTGGCTGTGCTGGGCTGGCTGGGGACCCTGGTGT
CCTGCGCCCTGCCCTGTGGAAGGTGACCGCCTTCATCGGCAACAGCATCGTGGTGGCCAGGTGGTGTG
GGAGGGCCTGTGGATGTCCTGCGTGGTGCAGAGCACGGGCCAGATGCAGTGCAAGGTGTACGACTCACTG
CTGGCTCTGCCGAGGACCTGCAGGCCGCACGTGCCCTCTGTGTCATTGCCCTCCTGCTGGCCCTGCTTG
GCCTCCTGGTGGCCATCACAGGTGCCAGTGTACCACGTGTGGAGGACGAAGGTGCCAAGGCCGTAT
CGTGCTCACCGCGGGGTCATCCTCCTCGCCGGCATCCTGGTGTCTATCCCTGTGTGCTGGACGGCG
CACGCCATCATCCAGGACTTCTACAACCCCTGGTGGCTGAGGCCCTCAAGCGGGAGCTGGGGCCCTCCC
TCTACCTGGGCTGGGCGGCGGCTGCACTGCTTATGCTGGGCGGGGGCTCCTCTGCTGCACGTGCCCC
GCCCCAGGTCGAGCGGCCCGGGACCTCGGCTGGGCTACTCCATCCCCTCCCGCTCGGGTGCATCTGGA
CTGGACAAGAGGGACTACGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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

MASTGLELLGMTLAVLGWLGTLVSCALPLWKVTAFIGNSIVVAQVVWEGLMSCVVQSTGQMCKVYDSL
 LALPQDLQAARALCVIALLLALLLGLLVAITGAQCTTCVEDEGAKARIVLTAGVILLLAGILVLIIPVCWTA
 HAI IQDFYNPLVAEALKREL GASLYL GWAAAALLMLGGGLLCCTCPPPQVERPRGPRLGYSIPSRSGASG
 LDKRDYV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020982

ORF Size: 651 bp

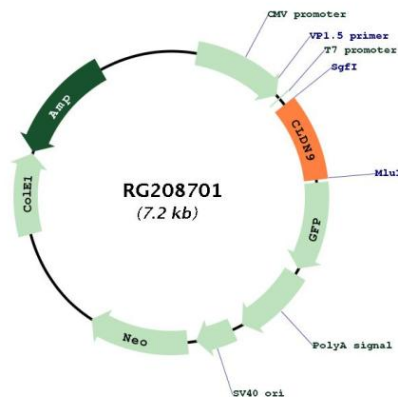
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_020982.4
RefSeq Size:	1804 bp
RefSeq ORF:	654 bp
Locus ID:	9080
UniProt ID:	Q95484
Cytogenetics:	16p13.3
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction
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 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]

Product images:



Circular map for RG208701