

Product datasheet for **RG232263**

Claudin 12 (CLDN12) (NM_001185072) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Claudin 12 (CLDN12) (NM_001185072) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CLDN12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232263 representing NM_001185072
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGGCTGTGGGATGTCCACGCAGCCACAGTCCTTTCTTCTGTGTGGAATCGCCTCAGTAGCAGGCC
TCTTTGCAGGGACTCTGCTTCCCAACTGGAGAAAATTACGATTGATCACATTCAACAGAAACGAGAAGAA
CCTGACTGTTTACACAGGCCTGTGGTGAATGTGCCCGGTATGACGGGAGCAGTGACTGCCTGATGTAC
GACTACTTGGTACTCATCAGTTGACCAGCTGGACCTGCGTGTCTCCAGTTTGCCTACCCCTCAGCA
TGCTGATCGCCATGGGTGCCCTGCTGCTGCTGATTGGAATGTGCAACTGCCTTCAGTCCCTCGGT
GCCAACATCAAAGTGGCCAAAGTCTGGTCAATAGTGCAGTTGCCACCTGGTGGGCTGCTATTT
TTCTGGCAGGACTGTGAGCCTCTCCCATCTATCTGGGTCATCTTTTATAACATCCATCTGAACAAGA
AGTTTGAGCCAGTCTTTTCATTTGACTATGCAGTGTATGTCACTATTGCTAGTGTGGGGCCTGTTTAT
GACTTCCCTTATACTATTTATTTGGTATTGTACATGCAAATCTTTGCCTTCTCCTTTCTGGCAACCATTG
TACTCCCATCCACCCAGTATGCATACTTACTCACAGCCCTATTCAGCACGCTCTCGCCTCTCGCATTG
AAATTGACATTCCAGTAGTTTCACACCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232263 representing NM_001185072
Red=Cloning site Green=Tags(s)

MGCRDVHAATVLSFLCGIASVAGLFAAGTLLPNWRKLRLLITFNRNEKNLTVYTGLWVKARYDGSDDL
DTTWYSSVDQLDLRVLQFALPLSMLIAMGALLLCLIGMCNTAFRSSVPNIKAKLVNSAGCHLVAGLLF
FLAGTVSLSPSIWVIFYNIHLNKKFEPVFSFDYAVVYVITIASAGGLFMTSLILFIWYCTCKSLPSPFQPL
YSHPPSMHTYSQPYSARSRLSAIEIDIPVVSHTT

TRTRPLE - GFP Tag - V



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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:	<u>NM_001185072.3</u>
RefSeq Size:	3684 bp
RefSeq ORF:	735 bp
Locus ID:	9069
UniProt ID:	<u>P56749</u>
Cytogenetics:	7q21.13
Protein Families:	Transmembrane
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 Ca ²⁺ absorption between enterocytes. Multiple alternatively spliced transcript variants encoding the same protein have been found.[provided by RefSeq, Sep 2011]