

Product datasheet for **RG231066**

CLDN24 (NM_001185149) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CLDN24 (NM_001185149) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CLDN24
Synonyms: CLDN21
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231066 representing NM_001185149
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTAATCTTTAGAACAGCAATGCAATCTGTTGGACTTTTACTATCTCTCCTGGGATGGATTTTAT
CCATTATTACAACCTATTTGCCACACTGGAAGAACCTCAACCTGGACTTAAATGAAATGGAAAACCTGGAC
CATGGGACTCTGGCAAACCTGTGTCATCCAAGAGGAAGTGGGGATGCAATGCAAGGACTTTGACTCCTTC
CTGGCTTTGCCTGCTGAACCTCAGGGTCTCCAGGATCTTAATGTTTCTGTCAAATGGGCTGGGATTTCTGG
GCCTGCTGGTCTCTGGGTTTGGCCTGGACTGTTTGAGAATTGGAGAGAGTCAGAGAGATCTCAAGAGGCC
ACTGCTCATTCTGGGAGGAATCTGTCTGGGCCCTCGGGAATCACAGCCCTGGTTCCCGTCTCTTGGGTT
GCCCAAGACGTTTCTGGGATGAGAACGTCCAGACTTTGTCCCCAGTGAGGATTTGGGG
AGGCCCTGTTTCTGGGCTGGTTTCTCTTCTGCTAGGAGGGTGTCTGCTCAACTGCGCAGC
CTGCTCCAGCCAGCTCCCCTAGCTTTGGGCCACTATGCAGTGGCGCAAATGCAAACCTAGTGTCCCTAC
CTGGAAGATGGGACAGCAGATCCTCAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231066 representing NM_001185149
 Red=Cloning site Green=Tags(s)

MALIFRTAMQSVGLLLSLLGWILSIITTYLPHWKNLNLDLNEMENWTMGLWQTCVIQEEVGMQCKDFDSF
 LALPAELRVSRILMFLSNLGLFLGLLVSGFGLDCLRIGESQRDLKRLLILGGILSWASGITALVPVSWV
 AHKTVQEFWDENVPDFVPRWEFGALFLGWFAGLSLLGGCLLNCAACSSHAPLALGHYAVAQMQTQCPY
 LEDGTADPQV

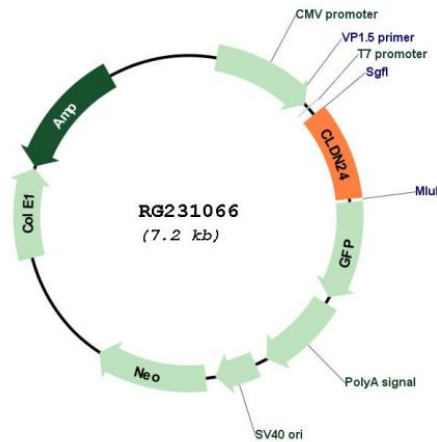
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001185149

ORF Size: 660 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_001185149.1 , NP_001172078.1
RefSeq Size:	663 bp
RefSeq ORF:	663 bp
Locus ID:	100132463
UniProt ID:	A6NM45
Cytogenetics:	4q35.1
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. The protein encoded by this gene is 75% identical to the mouse homolog. This gene is upstream of the CLDN22 gene, which overlaps the WWC2 gene on the opposite strand in the genome.[provided by RefSeq, Aug 2010]