Product datasheet for RG233487

Claudin 15 (CLDN15) (NM_001185080) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Claudin 15 (CLDN15) (NM_001185080) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Claudin 15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233487 representing NM_001185080 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCGATGGCTGTGGAAACCTTTGGCTTCTTCATGGCAACTGTGGGGCTGCTGATGCTGGGGGTGACTC TGCCAAACAGCTACTGGCGAGTGTCCACTGTGCACGGGAACGTCATCACCACCAACACCATCTTCGAGAA CCTCTGGTTTAGCTGTGCCACCGACTCCCTGGGCGTCTACAACTGCTGGGAGTTCCCGTCCATGCTGGCC CTCTCTGGGTATATTCAGGCCTGCCGGGCACTCATGATCACCGCCATCCTCCTGGGCTTCCTCGGCCTCT TGCTAGGCATAGCGGGCCTGCGCTGCACCAACATTGGGGGCCTGGAGCTCTCCAGGAAAGCCAAGCTGGC GGCCACCGCAGGGGCCCTCCACATTCTGGCCGGTATCTGCGGGATGGTGGCCATCTCCTGGTACGCCTTC AACATCACCCGGGACTTCTTCGACCCCTTGTACCCCGGAACCAAGTACGAGCTGGGCCCCGCCCTCTACC TGGGGTGGAGCGCCCTCACTGATCTCCATCCTGGGTGGCCTCTGCCTCTGCTCCGCCTGCTGCTGCGGCTC TGACGAGGACCCCAGCCGCCAGCGCCCGGCGGCCCTACCAGGCTCCAGTGTCCGTGATGCCCGTCGCCACC TCGGACCAAGAAGGCGACAGCAGCTTTGGCAAATACGGCAGAAACGCCTACGTG ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA
Protein Sequence:	>RG233487 representing NM_001185080 Red=Cloning site Green=Tags(s) MSMAVETFGFFMATVGLLMLGVTLPNSYWRVSTVHGNVITTNTIFENLWFSCATDSLGVYNCWEFPSMLA LSGYIQACRALMITAILLGFLGLLLGIAGLRCTNIGGLELSRKAKLAATAGALHILAGICGMVAISWYAF NITRDFFDPLYPGTKYELGPALYLGWSASLISILGGLCLCSACCCGSDEDPAASARRPYQAPVSVMPVAT SDQEGDSSFGKYGRNAYV TRTRPLE – GFP Tag – V

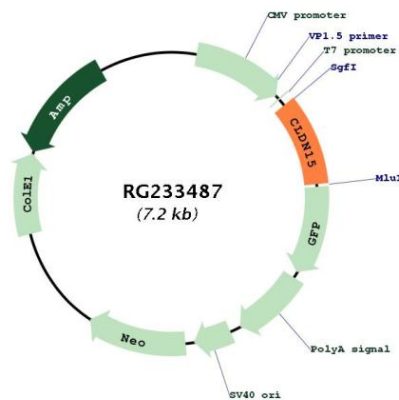View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:

ACCN: NM_001185080

ORF Size: 684 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: 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_001185080.1, NP_001172009.1

RefSeq Size: 2145 bp

RefSeq ORF: 687 bp

Locus ID: 24146

UniProt ID: P56746

Cytogenetics:	7q22.1
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. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2010]

Product images:

Circular map for RG233487