

## Product datasheet for **RG201733**

### CD63 (NM\_001780) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD63 (NM_001780) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD63
Synonyms:	LAMP-3; ME491; MLA1; OMA81H; TSPAN30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201733 representing NM_001780 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGTGGAAGGAGGAATGAAATGTGTGAAGTCTTGCTCTACGTCCTCCTGCTGGCCTTTTGC  
GTGCAGTGGGACTGATTGCCGTGGGTGTCGGGGCACAGCTTGCCTGAGTCAGACCATAATCCAGGGGGC  
TACCCCTGGCTCTCTGTTGCCAGTGGTCATCATCGCAGTGGGTGCTTCTCCTTCTCCTGGTGGCTTTTGTG  
GGCTGCTGCGGGCCTGCAAGGAGAACTATTGTCTTATGATCACGTTTGCCATCTTCTGTCTCTTATCA  
TGTTGGTGGAGGTGGCCGAGCCATTGCTGGCTATGTGTTTAGAGATAAGGTGATGTCAGAGTTAATAA  
CAACTCCGGCAGCAGATGGAGAATTACCCGAAAAACAACCACACTGCTTCGATCCTGGACAGGATGCAG  
GCAGATTTTAAGTGTGTGGGGCTGCTAACTACACAGATTGGGAGAAAAATCCCTTCCATGTCGAAGAACC  
GAGTCCCCGACTCCTGCTGCATTAATGTTACTGTGGGCTGTGGGATTAATTTCAACGAGAAGGCGATCCA  
TAAGGAGGGCTGTGTGGAGAAGATTGGGGGCTGGCTGAGGAAAAATGTGCTGGTGGTAGCTGCAGCAGCC  
CTTGAATTGCTTTTGTGCGAGGTTTGGGAATTGTCTTTGCTGCTGCCTCGTGAAGAGTATCAGAAGTG  
GCTACGAGGTGATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201733 representing NM\_001780  
Red=Cloning site Green=Tags(s)

MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGVGAQLVLSQTIIQGATPGSLLPVVIIAVGVFLFLVAFV  
 GCCGACKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQOMENYPKNNHTASILDRMQ  
 ADFKCCGAANYTDWEKIPSMKRNRPDSCCINVTVGCGINFNEKAIHKEGCVEKIGGWLRKNLVLVAAAA  
 LGIAFVEVLGIVFACCLVKSIRSGYEVV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001780

**ORF Size:** 714 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001780.6](#)

**RefSeq Size:** 1031 bp

**RefSeq ORF:** 717 bp

**Locus ID:** 967

**UniProt ID:** [P08962](#)

**Cytogenetics:** 12q13.2

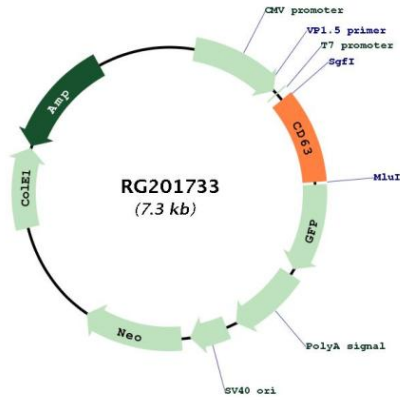
**Domains:** transmembrane4

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Lysosome

**Gene Summary:** The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The encoded protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker. Deficiency of this protein is associated with Hermansky-Pudlak syndrome. Also this gene has been associated with tumor progression. Alternative splicing results in multiple transcript variants encoding different protein isoforms. [provided by RefSeq, Apr 2012]

Product images:



Circular map for RG201733