

Product datasheet for **RG231888**

CD63 (NM_001257401) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD63 (NM_001257401) 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: >RG231888 representing NM_001257401
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCACGTTTGCCATCTTTCTGTCTCTTATCATGTTGGTGGAGGTGGCCGAGCCATTGCTGGCTATG
TGTTTAGAGATAAGGTGATGTCAGAGTTTAAATAACAACCTCCGGCAGCAGATGGAGAATTACCCGAAAA
CAACCACACTGCTTCGATCCTGGACAGGATGCAGGCAGATTTTAAAGTGTGTGGGCTGCTAACTACACA
GATTGGGAGAAAATCCCTCCATGTCGAAGAACCAGTCCCGACTCCTGCTGCATTAATGTTACTGTGG
GCTGTGGGATTAATTTCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAAGATTGGGGCTGGCT
GAGGAAAAATGTGCTGGTGGTAGCTGCAGCAGCCCTTGAATTGCTTTTGTGAGGTTTTGGGAATTGTC
TTTGCCTGCTGCCTCGTGAAGAGTATCAGAAGTGGCTACGAGGTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231888 representing NM_001257401
Red=Cloning site Green=Tags(s)
MITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNFRQMMENYPKNNHTASILDRMQADFKCCGAANYT
DWEKIPSMKRNRPDSCCINVTVGCINFNKAIHKEGCVKIGGWLKRNVLVAAAAALGIAFVEVLGIV
FACCLVKSIRSGYEV

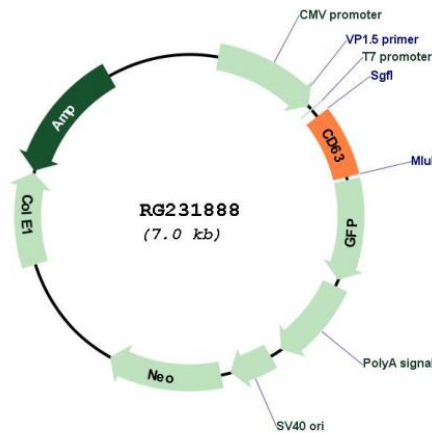
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001257401

ORF Size: 468 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:	<u>NM_001257401.1, NP_001244330.1</u>
RefSeq Size:	946 bp
RefSeq ORF:	471 bp
Locus ID:	967
UniProt ID:	<u>P08962</u>
Cytogenetics:	12q13.2
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]