

Product datasheet for **RC201733**

CD63 (NM_001780) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: Myc-DDK
Symbol: CD63
Synonyms: LAMP-3; ME491; MLA1; OMA81H; TSPAN30
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201733 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTGGAAGGAGGAATGAAATGTGTGAAGTTCTTGCTCTACGTCCTCCTGCTGGCCTTTTGC GCCT
GTGCAGTGGGACTGATTGCCGTGGGTGTCGGGGCACAGCTTGTCTGAGTCAGACCATAATCCAGGGGGC
TACCCCTGGCTCTCTGTTGCCAGTGGTCATCATCGCAGTGGGTGTCTTCTCTTCTGGTGGCTTTTGTG
GGCTGCTGCGGGGCCTGCAAGGAGAACTATTGTCTTATGATCACGTTTGCCATCTTCTGTCTCTTATCA
TGTTGGTGGAGGTGGCCGAGCCATTGCTGGCTATGTGTTTAGAGATAAGGTGATGTCAGAGTTTAATAA
CAACTTCCGGCAGCAGATGGAGAATTACCCGAAAAACAACCACACTGCTTCGATCCTGGACAGGATGCAG
GCAGATTTAAGTGTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTCCATGTCGAAGAACC
GAGTCCCCGACTCCTGCTGCATTAATGTTACTGTGGGCTGTGGGATTAATTTCAACGAGAAGGCGATCCA
TAAGGAGGGCTGTGTGGAGAAGATTGGGGCTGGCTGAGGAAAAATGTGCTGGTGGTAGCTGCAGCAGCC
CTTGGAATTGCTTTTGTGAGGTTTTGGGAATTGCTTTGCTGCTGCCTCGTGAAGAGTATCAGAAGTG
GCTACGAGGTGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201733 protein sequence
Red=Cloning site Green=Tags(s)

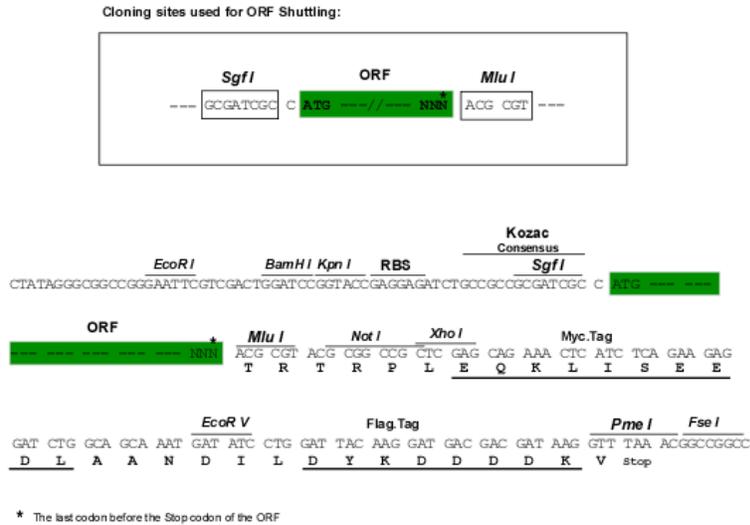
MAVEGGMKCVKFLLYVLLLAFCACAVGLIAVGGAQLVLSQTIIQGATPGSLLPVVIIAVGVFLFLVAFV
 GCCGACKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQOMENYPKNNHTASILDRMQ
 ADFKCCGAANYTDWEKIPSMKNRVPSCCINVTVGGCINFNEKAIHKEGCVKEIGGWLRKNVLVAAAA
 LGIAFVEVLGIVFACCLVKSIRSGYEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6093_b07.zip

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: 1032 bp

RefSeq ORF: 717 bp

Locus ID: 967

UniProt ID: [P08962](#)

Cytogenetics: 12q13.2

Domains: transmembrane4

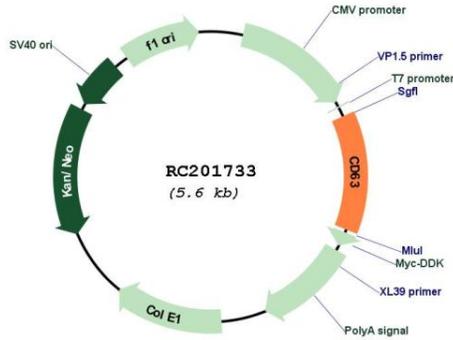
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome

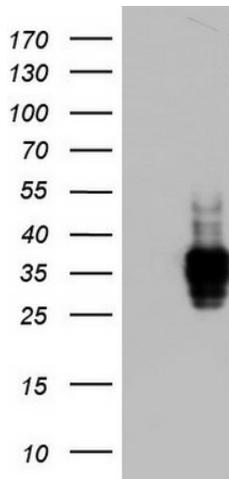
MW: 25.6 kDa

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]

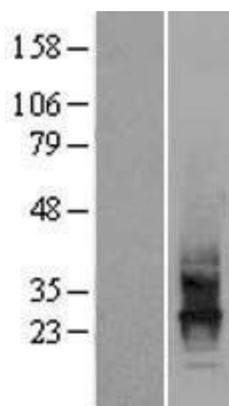
Product images:



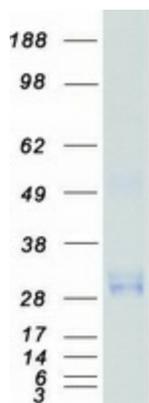
Circular map for RC201733



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD63 (Cat# RC201733, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD63 (Cat# [TA803574]). Positive lysates [LY419757] (100ug) and [LC419757] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419757]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201733 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD63 protein (Cat# [TP301733]). The protein was produced from HEK293T cells transfected with CD63 cDNA clone (Cat# RC201733) using MegaTran 2.0 (Cat# [TT210002]).