

Product datasheet for **RG238062**

CD36 (NM_001289909) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CD36 (NM_001289909) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CD36 |
| Synonyms: | BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG238062 representing NM_001289909. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGGCTGTGACCGAACTGTGGCTCATCGCTGGGGCTGTCATTGGTGCTGTCCTGGCTGTGTTTGGAA
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TACAGAGTTCGTTTTCTAGCCAAGGAAAATGTAACCCAGGACGCTGAGGACAACACAGTCTCTTTCTG
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AATCTGGCTGTGGCATAACAATACTGCAGATGGAGTTTATAAAGTTTTCAATGGAAAAGATAACATA
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ACAGAAAAAATTATCTCAAAAAATTGTACATCATATGGTGTGCTAGACATCAGCAATGCAAAGAAGGG
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ATGTTTCAGAAGTCAAGTAACTGGAAAAATAAACCTCCTTGGCCTGATAGAAATGATCTTACTCAGTGT
GGTGTGGTGTGTTTGTGCTTTTATGATTTTCATATTGTGCATGCAGATCGAAAAACAATAAAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG238062
 Blue=ORF Red=Cloning site Green=Tag(s)

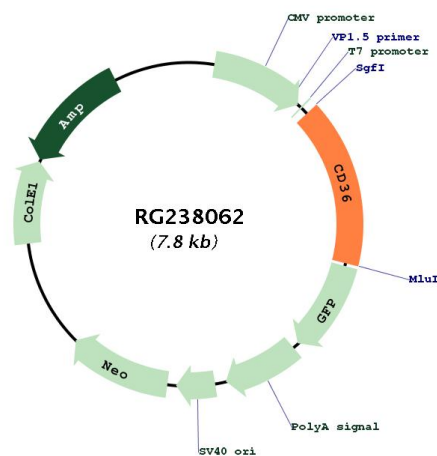
MGCDRNCGLIAGAVIGAVLAVFVGGILMPVGDLLIQKTIKKQVLEEGTIAFKNWKVTGTEVYRQFWIFD
 VQNPQEVMMNSSNIQVKQRGPYTYRVRFLAKENVTQDAEDNTVSFLQPNGAIFEPSLSVGTEADNFTVL
 NLAVAYNNTADGVYKVFNGKDNISKVAIIDTYKGRNLSYWEHSCDMINGTDAASFPPFVEKSQVLQFF
 SSDICRSIYAVFESDVNLKGIPIVYRFVLPKAFASPVENPDNYCFCTEKIISKNCTSYGVLDISKCKEG
 RPVYISLPHFLYASPDVSEPIDGLNPNEEHRTYLDIEPIITGFTLQFAKRLQVNLLVKPSEKIQVLKNL
 KRNYIVPILWLNETGTIGDEKANMFRSQVTGKINLLGLIEMILLSVGVMFVAFMISYCACRSKTIK
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 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



| | |
|--------------------------|--|
| ACCN: | NM_001289909 |
| ORF Size: | 1236 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). |
| RefSeq: | NM_001289909.1 , NP_001276838.1 |
| RefSeq Size: | 1693 bp |
| RefSeq ORF: | 1239 bp |
| Locus ID: | 948 |
| UniProt ID: | P16671 |
| Cytogenetics: | 7q21.11 |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Adipocytokine signaling pathway, ECM-receptor interaction, Hematopoietic cell lineage, PPAR signaling pathway |
| MW: | 46.5 kDa |
| Gene Summary: | The protein encoded by this gene is the fourth major glycoprotein of the platelet surface and serves as a receptor for thrombospondin in platelets and various cell lines. Since thrombospondins are widely distributed proteins involved in a variety of adhesive processes, this protein may have important functions as a cell adhesion molecule. It binds to collagen, thrombospondin, anionic phospholipids and oxidized LDL. It directly mediates cytoadherence of Plasmodium falciparum parasitized erythrocytes and it binds long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport. Mutations in this gene cause platelet glycoprotein deficiency. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2014] |