

Product datasheet for **RC238203**

CD36 (NM_001289908) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD36 (NM_001289908) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD36
Synonyms:	BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238203 representing NM_001289908 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTGTGACCGAACTGTGGGCTCATCGCTGGGGCTGTCATTGGTGTCTCCTGGCTGTGTTGGAG
GTATTCTAATGCCAGTTGGAGACCTGCTTATCCAGAAGACAATAAAAAGCAAGTTGCTCCTGAAGAAGG
TACAATTGCTTTTAAAAATTGGGTTAAACAGGCACAGAAGTTTACAGACAGTTTGGATCTTTGATGTG
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GAGTTCGTTTTCTAGCCAAGGAAAATGTAAACCCAGGACGCTGAGGACAACACAGTCTCTTTCCTGCAGCC
CAATGGTGCCATCTTCGAACCTTCACTATCAGTTGGAACAGAGGCTGACAACTTCACAGTTCTCAATCTG
GCTGTGGCAGCTGCATCCCATATCTATCAAAATCAATTTGTTCAAATGATCCTCAATTCACTTATTAACA
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GAGTTTGGTCCGTACCCTGTTACTACCACAGTTGGTCTGTTTTATCCTTACAACAATACTGCAGATGGA
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GGTCAATCTATGCTGATTTGAATCCGACGTTAATCTGAAAGGAATCCCTGTGTATAGATTTGTTCTTCC
ATCCAAGGCTTTGCCTCTCCAGTTGAAAACCCAGACAACCTATTGTTTCTGCACAGAAAAAATTATCTCA
AAAAATTTACATCATATGGTGTCTAGACATCAGCAAATGCAAAGAAGGAGACCTGTGTACATTTTAC
TTCTCATTTTTCTGTATGCAAGTCTGATGTTTTCAGAACCTATTGATGGATTAACCCAAATGAAGAAGA
ACATAGGACATACTTGGATATTGAACCTATAACTGGATTCACCTTACAATTTGCAAAACGGCTGCAGGTC
AACCTATTGGTCAAGCCATCAGAAAAAATCAAGTATTAAGAATCTGAAGAGGAACTATATTGTGCCTA
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AAAAATAAACCTCCTTGGCCTGATAGAAATGATCTTACTCAGTGTGGTGTGGTGTGTTGTTGCTTTT
ATGATTTTCAATTTGTGCATGCAGATCGAAAACAATAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238203 representing NM_001289908
 Red=Cloning site Green=Tags(s)

MGCDRNCGLIAGAVIGAVLAVFGGILMPVGDLLIQKTIKKQVVLEEGTIAFKNWKVTGTEVYRQFWIFDV
 QNPQEVMMSSNIQVKQRGPYTYRVRFLAKENVTQDAEDNTVSFLQPNGAIFEPSLSVGTEADNFTVLNL
 AVAAASHIYQNQFVQMILNSLINKSKSSMFQVRTLRELLWGYRDPFLSLVPYPVTTTVGLFYPPYNTADG
 VYKVFNGKDNISKVAIIDTYKGRSIYAVFESDVNLKGIPIVYRFVLPKAFASPVENPDNYCFCTEKIIS
 KNCTSYGVLDISKCKEGRPVYISLPHFLYASPDVSEPIDGLNPNEEHRTYLDIEPITGFTLQFAKRLQV
 NLLVKPSEKIQLVKNLKRNYIVPILWLNETGTIGDEKANMFRSQVTGKINLLGLIEMILLSVGVVMFVAF
 MISYCACRSKTIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

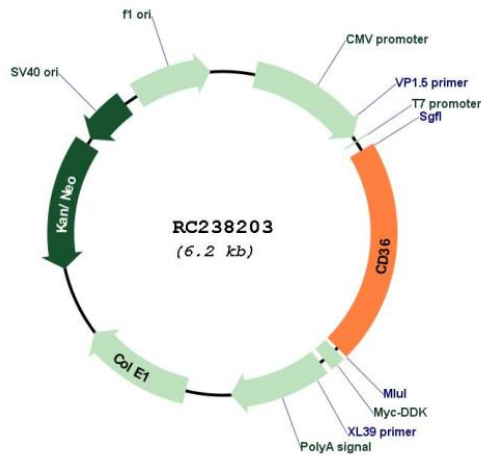
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289908

ORF Size:	1299 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:	NM_001289908.1 , NP_001276837.1
RefSeq Size:	1665 bp
RefSeq ORF:	1302 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:	49.1 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]