

Product datasheet for **RC221976**

CD36 (NM_001001548) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD36 (NM_001001548) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD36
Synonyms:	BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC221976 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTGTGACCGGAAGTGTGGGCTCATCGTGGGGCTGTCATTGGTGTGCTCCTGGCTGTGTTTGGAG
 GTATTCTAATGCCAGTTGGAGACCTGCTTATCCAGAAGACAATAAAAAGCAAGTTGTCCTCGAAGAAGG
 TACAATTGCTTTTAAAAATTGGGTTAAAAACAGGCACAGAAGTTTACAGACAGTTTGGATCTTTGATGTG
 CAAAATCCACAGGAAGTGATGATGAACAGCAGCAACATTCAAGTTAAGCAAAGAGGTCCTTATACGTACA
 GAGTTCGTTTTCTAGCCAAGGAAAATGTAACCCAGGACGCTGAGGACAACACAGTCTCTTTCCTGCAGCC
 CAATGGTGCCATCTCGAACCTTCACTATCAGTTGGAACAGAGGCTGACAACTTCACAGTCTCAATCTG
 GCTGTGGCAGCTGCATCCATATCTATCAAAATCAATTTGTTCAAATGATCCTCAATTCACTTATTAACA
 AGTCAAAATCTTCTATGTTCCAAGTCAGAACTTTGAGAGAAGTGTATGGGGCTATAGGGATCCATTTT
 GAGTTTGGTTCCATACCCTGTTACTACCACAGTTGGTCTGTTTTATCCTTACAACAATACTGCAGATGGA
 GTTTATAAAGTTTTCAATGGAAAAGATAACATAAGTAAAGTTGCCATAATCGACACATATAAAGGTA
 GGAATCTGTCCTATTGGGAAAGTCACTGCGACATGATTAAATGGTACAGATGCAGCCTCATTTCCACCTTT
 TGTGAGAAAAGCCAGGTATTGCAGTCTTTTCTTCTGATATTTGCAGGTCAATCTATGCTGATTTTGA
 TCCGACGTTAATCTGAAAGGAATCCCTGTGTATAGATTTGTTCTTCCATCCAAGGCCCTTTCCTCCAG
 TTGAAAACCCAGACAACATTTGTTTCTGCACAGAAAAAATATCTCAAAAAATTGACATCATATGGTGT
 GCTAGACATCAGCAAATGCAAAGAAGGGAGACCTGTGTACATTTCACTTCCTCATTTTCTGTATGCAAGT
 CCTGATGTTTCAAGACCTATTGATGGATTAACCCAAATGAAGAAGAACATAGGACATACTGGATATTG
 AACCTATAACTGGATTCACCTTACAATTTGCAAAACGGCTGCAGGTCAACCTATTGGTCAAGCCATCAGA
 AAAAAATCAAGTATTAAGAATCTGAAGAGGAACATATATTGTCCTATTCTTTGGCTTAATGAGACTGGG
 ACCATTGGTGATGAGAAGCAAACATGTTCAAGTCAAGTAACTGGAAAAATAAACCTCCTTGGCCTGA
 TAGAAATGATCTTACTCAGTGTGGTGTGGTGTGTTGTTGCTTTTATGATTTCAATTGTGCATGCAG
 ATCGAAAAACAATAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221976 protein sequence
 Red=Cloning site Green=Tags(s)

MGCDRNCGLIAGAVIGAVLAVFGGILMPVGDLLIQKTIKKQVVLEEGTIAFKNWKVKGTEVYRQFWIFDV
 QNPQEVMMNSSNIQVKQRGPYTYRVRFLAKENVTQDAEDNTVSFLQPNGAIFEPSLSVGTEADNFTVLNL
 AVAAASHIYQNFVQMILNSLINKSSMFQVRTLRELLWGYRDPFLSLVPYPVTTTVGLFYPNNTADG
 VYKVFNGKDNISKVAIIDTYKGRNLSYWESHCDMINGTDAASFPPFVEKSQVLQFFSSDICRSIYAVFE
 SDVNLKGIPIVYRFVLPKAFASPVENPDNYCFCTEKIISKNCTSYGVLDISKCKEGRPVYISLPHFLYAS
 PDVSEPIDGLNPNEEEHRTYLDIEPITGFTLQFAKRLQVNLVKPSEKIQLKLNKRNYPVILWLNQETG
 TIGDEKANMFRSQVTGKINLLGLIEMILLSVGVVMFVAFMISYCACRSKTIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6055_g11.zip

Restriction Sites:

Sgfl-MluI

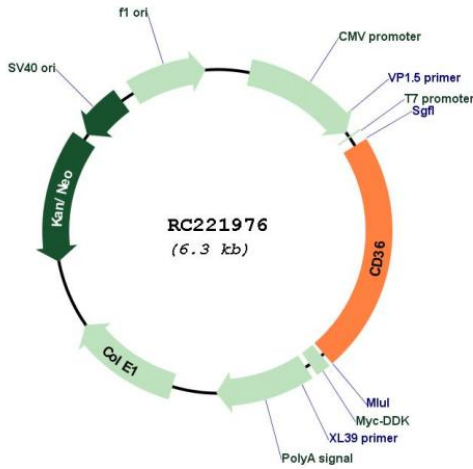
Cloning Scheme:

Cloning sites used for ORF Shutting:



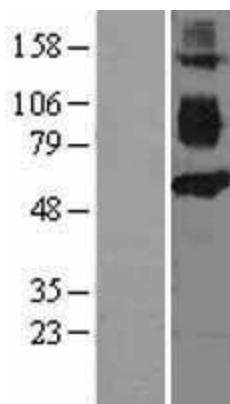
* The last codon before the Stop codon of the ORF

Plasmid Map:

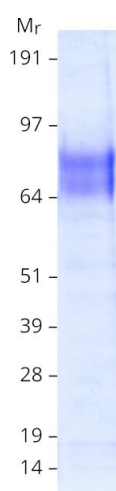


ACCN:	NM_001001548
ORF Size:	1416 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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_001001548.2
RefSeq Size:	4727 bp
RefSeq ORF:	1419 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:	53.1 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]

Product images:



Western blot validation of overexpression lysate (Cat# [LY424372]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC223825] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD36 protein (Cat# [TP321976]). The protein was produced from HEK293T cells transfected with CD36 cDNA clone (Cat# RC221976) using MegaTran 2.0 (Cat# [TT210002]).