

## Product datasheet for **SC300209**

### CD36 (NM\_001001547) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD36 (NM_001001547) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD36
Synonyms:	BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_001001547 edited
ACATCTCCGAAAGCAAGCTCTTCTAGAAGTTGATAGCTTTCCAATGATTAGACGAATTGA
TTCTTTCTGTGACTCATCAGTTCATTTCTGTAAAATTCATGTCTTGCTGTTGATTTGTG
AATAAGAACCAGAGCTTGTAGAAACCACTTTAATCATATCCAGGAGTTTGAAGAAACAG
GTGCTTAACTAATTCACCTCCTGAACAAGAAAAATGGGCTGTGACCGGAACTGTGGC
TCATCGCTGGGGCTGTCATTGGTGTCTGCTGGCTGTGTTGGAGGTATTCTAATGCCAG
TTGGAGACCTGCTTATCCAGAAGACAATTA AAAAGCAAGTTGCTCCTCGAAGAAGGTACAA
TTGCTTTTAAAAATTGGGTTAAAAACAGGCACAGAAGTTTACAGACAGTTTGGATCTTTG
ATGTGCAAAATCCACAGGAAGTGATGATGAACAGCAGCAACATTCAAGTTAAGCAAAGAG
GTTCTTATACGTACAGAGTTCGTTTTCTAGCCAAGGAAAAATGTAACCCAGGACGCTGAGG
ACAACACAGTCTCTTCTGCAGCCCAATGGTGCCATCTTCGAACCTTCACTATCAGTTG
GAACAGAGGCTGACAACCTCACAGTTCTCAATCTGGCTGTGGCAGCTGCATCCCATATCT
ATCAAAATCAATTTGTTCAAATGATCCTCAATTCATTATTAACAAGTCAAAATCTTCTA
TGTTCCAAGTCAGAACTTTGAGAGAACTGTTATGGGGCTATAGGGATCCATTTTTGAGTT
TGGTCCGTACCCTGTTACTACCACAGTTGGTCTGTTTTATCCTTACAACAATACTGCAG
ATGGAGTTTATAAAGTTTTCAATGGAAAAGATAACATAAGTAAAGTTGCCATAATCGACA
CATATAAAGGTA AAGGAATCTGTCCTATTGGGAAAGTCACTGCGACATGATTAATGGTA
CAGATGCGACCTCATTTCCACCTTTTGTGAGAAAAGCCAGGTATTGCAGTTCCTTTCTT
CTGATATTTGCAGGTCAATCTATGCTGTATTTGAATCCGACGTTAATCTGAAAGGAATCC
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ACTATTGTTTCTGCACAGAAAAAATTATCTCAAAAAATGTACATCATATGGTGTGCTAG
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CAAGTCTGATGTTTCAGAACCTATTGATGGATTAAACCCAAATGAAGAAGAACATAGGA
CATACTTGGATATTGAACCTATAACTGGATTCACTTTACAATTTGCAAAACGGCTGCAGG
TCAACCTATTGGTCAAGCCATCAGAAAAAATCAAGTATTAAGAATCTGAAGAGGAACT
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TGTTTCAGAAAGTCAAGTA ACTGGAAAAATAAACCTCCTTGGCCTGATAGAAATGATCTTAC
TCAGTGTGGTGTGGTGTGTTTGTGCTTTTATGATTTCATATTGTGCATGCAGATCGA
AAACAATAAAATAACCTGGCTCAAGCACAAACCAATTTGTGTTGTTCTGATTCAATAATT
GGTTTCTGGGTGGCCAATTCAGAAGAAGAGTGTACATGCTCAACAATCCTAGGCCCTGC
ATTCCTGTATCCTCATCCGGGGGAAACACCATCATCCAGTAGCTGCCCTATTCAACTG
CAACAGTCTCCAGGACCATCAGTATACTGCATTTCATGTGCACCAAAATATTTGAAAGAC
ATTTATAAATAATTGGCTTATGACTCATATTTCTCTATGAATACCTTCATACAGCAGGTA
TAACTCTTTTCTTATGGGCTTAAATATTTTGTCACTGATCCTGCAAAATGGACATCATT
TAGCACACTAGCGGTTTATATTTAAGGACCTTCACTCTGTTCTGCACCTCTTCTGGA
AATTGAGTAAATTTTGTCTTTTTTTTTTACTCAGTTGCAACTTACGCTTGGCATCTTCA
AATGCTTTTCTAGCATTAAAGAGATGTAATGATAAAGGAATTATTGTATGAAATATTACA
AAGCGTAGACTATGCATTGTTATTCAATTATAATATTTTTGCTATCATAATCGCCTCATA
AAGACAGGTTTCAACCATTA AAAATATGTTCTTCTTAAAAA AAAAAAAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001001547 unedited</p> <pre>NNGGTCAACATTTGTATACGACTCCTATAGGCGGCNCGCAATTCGCACCAGACATCTCC GAAAGCAGCTCTTCTAGAAGTTGATAGCTTTCCAATGATTAGACGAATTGATTCTTTCTG TGACTCATCAGTTCATTTCTGTAAAATTCATGTCTTGCTGTTGATTTGTGAATAAGAAC CAGAGCTTGTAAGAACTTTAATCATATCCAGGAGTTTGAAGAAACAGGTGCTTAAC ACTAATTCACCTCCTGAACAAGAAAAATGGGCTGTGACCGGAACGTGGGCTCATCGCTG GGCTGTCAATTGGTGTCTCTGGCTGTGTTGGAGGTATTCTAATGCCAGTTGGAGACC TGCTTATCCAGAAGACAATTAAGCAAGTTGCTCCTCGAAGAAGTACAATTGCTTTTA AAAATTTGGTTAAAACAGGCACAGAAGTTTACAGACAGTTTTGGATCTTTGATGTGCAAA ATCCACAGGAAGTGATGATGAACAGCAGCAACATTCAAGTTAAGCAAAGAGGTTCTTATA CGTACAGAGTTCGTTTTCTAGCCAAGGAAAATGTAACCCAGGACGCTGAGGACAACACAG TCTCTTTCTGCAGCCCAATGGTGCCATCTTGAACCTTCACTATCAGTTGGAACAGAGG CTGACAACCTCACAGTTCTCAATCTGGCTGTGGCAGCTGCATCCCATATCTATCANAATC AATTTGTTCAAATGATCCTCAATCACTTATTAACAAGTCANAATCTTCTATTGNTNCCA GTCAGAACCTTTGAGAGAAGTGTATGGGGCTATTAGGNATCCATTNTTGAAGNTTNGGNT NCCGTACCTGNTACTACCACAGNTGGGCTGTTTTATTCTACAACATACTGCAGATGG AGTTTATAAAAAGTTTCATGGGNAAGATAACATAAGTAAAGTTGCATTATCGACCATATAA NNGGTAAGGAT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' genomic read for NM_001001547 unedited</p> <pre>TCGCGATGCACCTTCAGGGCAGGAAGCACTGGGGAGGGTACAGGGCATGCCACCCGGG ATCTGTTCAAGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTT TTTTTTTTTTAAGGAAGAACATATTTAATGGTTGAAACCTGTCTTTATGAGGCGATTAT GATAGCAAAAAATATTATAATGAATAACAATGCATAGTCTACGCTTTGTAATATTTTCATA CAATAATTCCTTTATCATTTACATCTCTTAATGTAGAAAAGCATTCTGAAGATGCCAAG CGTAAGTTGCAACTGAGTAAAAAAAAAAGCAAAATTTACTCAATTTCCAGAAGAGGTGC AGAACAGAGAATGAAGTCTTAAAAATATAAACCGCTAGTGTGCTAAAATGATGTCCATT TGCAGGATCAGTGACAAAATATTTAAGCCATAAAGAAAAGAGTTATACCTGCTGTATGA AGGTATTCATAGAGAAAATAGAGTCATAAGCCAATTTATTTATAAATGTCTTTCAAATAT TTGGTGACATGAAATGCAGTATACTGATGGTCCTGGAGACTGTTGCAGTTGAATAGGGC AGCTACTGGGATGATGGTGTTCCTCCCGGATGAGGATGACAGGAATGCAGGGCCTAGGAT TTGTTGAGCATGTACACTCTTCTCTGAATTGGCCACCCAGAAACCAATTATTGAATCA GAACAACACAATTGGTTTTGTGCTTGAGCCAGGTTATTTTATTGTTTTCGATCTGCATG CACAATATGAAATCATAAAGCAACAAACATCACCCACACCAACACTGAGTAGATCATTTT TATCAGCCAGAGTTATTTTTCAGTTACTTGACTTCTGAACATGTTTGCCTTCTCATCAC C</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001001547
<b>Insert Size:</b>	2300 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa.
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001001547.1</a> , <a href="#">NP_001001547.1</a>
<b>RefSeq Size:</b>	2050 bp
<b>RefSeq ORF:</b>	1419 bp
<b>Locus ID:</b>	948
<b>UniProt ID:</b>	<a href="#">P16671</a>
<b>Cytogenetics:</b>	7q21.11
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Adipocytokine signaling pathway, ECM-receptor interaction, Hematopoietic cell lineage, PPAR signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) has an alternate 5' UTR exon, compared to variant 3. Variants 1 through 5 all encode the same isoform 1.</p>