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Product datasheet for SC300210

CD36 (NM_001001548) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD36 (NM_001001548) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD36
Synonyms:	BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_001001548 edited
GCAGTGTAGGACTTTCCTGCAGAATACCATTTGATCCTATTAAGAATTGTCCAAATGTTG
GAGCATTTGATTGAAAAATCCTTCTTAGCCATTTTAAAGATAGCTTTCCAATGATTAGAC
GAATTGATTCTTTCTGTGACTCATCAGTTCCTTTCCTGTAAAATTCATGTCTTGCTGTTG
ATTTGTGAATAAGAACCAGAGCTTGTAGAAACCACTTTAATCATATCCAGGAGTTTGCAA
GAAACAGGTGCTTAACACTAATTCACCTCCTGAACAAGAAAAATGGGCTGTGACCGGAAC
TGTGGGCTCATCGCTGGGGCTGTCATTGGTGCTGTCCTGGCTGTGTTTGGAGGTATTCTA
ATGCCAGTTGGAGACCTGCTTATCCAGAAGACAATTAAAAAGCAAGTTGTCCTCGAAGAA
GGTACAATTGCTTTTAAAAATTGGGTTAAAACAGGCACAGAAGTTTACAGACAGTTTTGG
ATCTTTGATGTGCAAAATCCACAGGAAGTGATGATGAACAGCAGCAACATTCAAGTTAAG
CAAAGAGGTCCTTATACGTACAGAGTTCGTTTTCTAGCCAAGGAAAATGTAACCCAGGAC
GCTGAGGACAACACAGTCTCTTTCCTGCAGCCCAATGGTGCCATCTTCGAACCTTCACTA
TCAGTTGGAACAGAGGCTGACAACTTCACAGTTCTCAATCTGGCTGTGGCAGCTGCATCC
CATATCTATCAAAATCAATTTGTTCAAATGATCCTCAATTCACTTATTAACAAGTCAAAA
TCTTCTATGTTCCAAGTCAGAACTTTGAGAGAACTGTTATGGGGCTATAGGGATCCATTT
TTGAGTTTGGTTCCGTACCCTGTTACTACCACAGTTGGTCTGTTTTATCCTTACAACAAT
ACTGCAGATGGAGTTTATAAAGTTTTCAATGGAAAAGATAACATAAGTAAAGTTGCCATA
ATCGACACATATAAAGGTAAAAGGAATCTGTCCTATTGGGAAAGTCACTGCGACATGATT
AATGGTACAGATGCAGCCTCATTTCCACCTTTTGTTGAGAAAAGCCAGGTATTGCAGTTC
TTTTCTTCTGATATTTGCAGGTCAATCTATGCTGTATTTGAATCCGACGTTAATCTGAAA
GGAATCCCTGTGTATAGATTTGTTCTTCCATCCAAGGCCTTTGCCTCTCCAGTTGAAAAC
CCAGACAACTATTGTTTCTGCACAGAAAAAATTATCTCAAAAAATTGTACATCATATGGT
GTGCTAGACATCAGCAAATGCAAAGAAGGGAGACCTGTGTACATTTCACTTCCTCATTTT
CTGTATGCAAGTCCTGATGTTTCAGAACCTATTGATGGATTAAACCCAAATGAAGAAGAA
CATAGGACATACTTGGATATTGAACCTATAACTGGATTCACTTTACAATTTGCAAAACGG
CTGCAGGTCAACCTATTGGTCAAGCCATCAGAAAAAATTCAAGTATTAAAGAATCTGAAG
AGGAACTATATTGTGCCTATTCTTTGGCTTAATGAGACTGGGACCATTGGTGATGAGAAG
GCAAACATGTTCAGAAGTCAAGTAACTGGAAAAATAAACCTCCTTGGCCTGATAGAAATG
ATCTTACTCAGTGTTGGTGTGGTGATGTTTGTTGCTTTTATGATTTCATATTGTGCATGC
AGATCGAAAACAATAAAATAAACCTGGCTCAAGCACAAACCAATTTGTGTTGTTCTGATT
CAATAATTGGTTTCTGGGTGGCCAATTCAGAAGAAGAGTGTACATGCTCAACAAATCCTA
GGCCCTGCATTCCTGTCATCCTCATCCGGGGGAAACACCATCATCCCAGTAGCTGCCCTA
TTCAACTGCAACAGTCTCCAGGACCATCAGTATACTGCATTTCATGTGCACCAAATATTT
TGAAAGACATTTATAAATAATTGGCTTATGACTCATATTTCTCTATGAATACCTTCATAC
AGCAGGTATAACTCTTTTCTTTATGGGCTTAAATATTTTGTCACTGATCCTGCAAATGGA
CATCATTTTAGCACACTAGCGGTTTATATTTTAAGGACCTTCATTCTCTGTTCTGCACCT
CTTCTGGAAATTGAGTAAATTTTGCTTTTTTTTTTTTACTCAGTTGCAACTTACGCTTGG
CATCTTCAGAATGCTTTTCTAGCATTAAGAGATGTAAATGATAAAGGAATTATTGTATGA
AATATTACAAAGCGTAGACTATGCATTGTTATTCATTATAATATTTTTTCTGTCATAATC
GCCTCATAAAGACAGGTTTCAACCATTAAAATATGTTCTTCCTTAAAAAAAAAAAAAAAA
A

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001001548 unedited
GTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGACTTTCCTGCAGAAT
ACCATTTGATCCTATTAAGAATTGTCCAAATGTTGGAGCATTTGATTGAAAAATCCTTCT
TAGCCATTTTAAAGATAGCTTTCCAATGATTAGACGAATTGATTCTTTCTGTGACTCATC
AGTTCCTTTCCTGTAAAATTCATGTCTTGCTGTTGATTTGTGAATAAGAACCAGAGCTTG
TAGAAACCACTTTAATCATATCCAGGAGTTTGCAAGAAACAGGTGCTTAACACTAATTCA
CCTCCTGAACAAGAAAAATGGGCTGTGACCGGAACTGTGGGCTCATCGCTGGGGCTGTCA
TTGGTGCTGTCCTGGCTGTGTTTGGAGGTATTCTAATGCCAGTTGGAGACCTGCTTATCC
AGAAGACAATTAAAAAGCAAGTTGTCCTCGAAGAAGGTACAATTGCTTTTAAAAATTGGG
TTAAAACAGGCACAGAAGTTTACAGACAGTTTTGGATCTTTGATGTGCAAAATCCACAGG
AAGTGATGATGAACAGCAGCAACATTCAAGTTAAGCAAAGAGGTCCTTATACGTACAGAG
TTCGTTTTCTAGCCAAGGAAAATGTAACCCAGGACGCTGAGGACAACACAGTCTCTTTCC
TGCAGCCCAATGGTGCCATCTTCGAACCTTCACTATCAGTTGGAACAGAGGCTGACAACT
TCACAGTTCTCAATCTGGCTGTGGCAGCTGCATCCCATATCTATCAAAATCAATTTGTTC
AAATGATCCCTCATTCACTTATTAACAAGTCANAATCTTCTATGTTNCCAAGTCAGAACT
TTGAGAGAAACTGTATGGGGCTATAGGGATCCATTTTTGAGTTTGGTTTCGTACCCTGNT
ACTACCACAGTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001001548 unedited
TGGACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAAGGAAGAACATA
TTTTAATGGTTGAAACCTGTCTTTATGAGGCGATTATGACAGCAAAAATATTATAATGAA
TAACAATGCATAGTCTACGCTTTGTAATATTTCATACAATAATTCCTTTATCATTTACAT
CTCTTAATGCTAGAAAAGCATTCTGAAGATGCCAAGCGTAAGTTGCAACTGAGTAAAAAA
AAAAAAGCAAAATTTACTCAATTTCCAGAAGAGGTGCAGAACAGAGAATGAAGGTCCTTA
AAATATAAACCGCTAGTGTGCTAAAATGATGTCCATTTGCAGGATCAGTGACAAAATATT
TAAGCCCATAAAGAAAAGAGTTATACCTGCTGTATGAAGGTATTCATAGAGAAATATGAG
TCATAAGCCAATTATTTATAAATGTCTTTCAAAATATTTGGTGCACATGAAATGCAGTAT
ACTGATGGTCCTGGAGACTGTTGCAGTTGAATAGGGCAGCTACTGGGATGATGGTGTTTC
CCCCGGATGAGGATGACAGGAATGCAGGGCCTAGGATTTGTTGAGCATGTACACTCTTCT
TCTGAATTGGCCACCCAGACACCAATTATTGAATCAGAACACACANATTGGTTTGTGCTT
GAGCCAGGNTTATTNTATTGTTTTCGATCTGCATGCACCATATGAAATCATAANAAGCAC
AAACATCACCACACCAACACTGAGTAAGATCATTTCTATCAGGCCAAGGAGGGTTATTTT
TCCCAGTACTTGACTTCTGAACATGTTTGCCTTCTCATCACCATGGTCCCAGTCTCATTA
AGCCAAGAATAGCCACATATAGNTCCTCTTCAGATCTTTATACTTGAATTTTTTCTGATG
GGCTGACCATAGGTGACCTGCAGCCGTTTGCAAATGTGAAGTGATC

Restriction Sites: NotI-NotI

ACCN: NM_001001548

Insert Size: 2300 bp

OTI Disclaimer: 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).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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.
RefSeq:	NM_001001548.1, NP_001001548.1
RefSeq Size:	2338 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
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] Transcript Variant: This variant (1) has an alternate 3' UTR, compared to variant 3. Variants 1 through 5 all encode the same isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.