

## Product datasheet for **SC300066**

### CD41 (ITGA2B) (NM\_000419) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD41 (ITGA2B) (NM_000419) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD41
Synonyms:	BDPLT2; BDPLT16; CD41; CD41B; GP2B; GPIIb; GT; GT1; GTA; HPA3; PPP1R93
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000419 edited  
 TGCCTGGGAGGTTGTGGAAGAAGGAAGATGGCCAGAGCTTTGTGTCCACTGCAAGCCCTC  
 TGGCTTCTGGAGTGGGTGCTGCTGCTCTTGGGACCTTGTGCTGCCCTCCAGCCTGGGCC  
 TTGAACCTGGACCCAGTGCAGCTCACCTTCTATGCAGGCCCAATGGCAGCCAGTTTGA  
 TTTTCACTGGACTTCCACAAGGACAGCCATGGGAGAGTGGCCATCGTGGTGGGCGCCCG  
 CGGACCTGGGCCCCAGCCAGGAGGAGACGGGCGGCGTGTTCCTGTGCCCTGGAGGGCC  
 GAGGGCGGCCAGTCCCCCTCGCTGCTCTTTGACCTCCGTGATGAGACCCGAAATGTAGGC  
 TCCCAAACCTTACAAACCTTCAAGGCCCGCAAGGACTGGGGCGCTCGGTGCTCAGCTGG  
 AGCGACGTCATTGTGGCCTGCGCCCCCTGGCAGCACTGGAACGTCCTAGAAAAGACTGAG  
 GAGGCTGAGAAGACGCCCGTAGGTAGCTGCTTTTTGGCTCAGCCAGAGAGCGGCCCGCC  
 GCCGAGTACTCCCCCTGTCGCGGGAACACCTGAGCCGATTTACGTGGAATGATTTT  
 AGCTGGGACAAGCGTTACTGTGAAGCGGCTTCAGCTCCGTGGTCACTCAGGCCGGAGAG  
 CTGGTGTGGGGCTCCTGGCGGCTATTATTTCTTAGGTCTCCTGGCCCAGGCTCCAGTT  
 GCGGATATTTTCTCGAGTTACCGCCCAGGCATCCTTTTGTGGCACGTGTCTCCAGAGC  
 CTCTCCTTTGACTCCAGCAACCCAGAGTACTTCGACGGCTACTGGGGTACTCGGTGGCC  
 GTGGGCGAGTTCGACGGGGATCTCAACTACAGAATATGTGCTCGGTGCCCCCACTTGG  
 AGCTGGACCTGGGAGCGGTGGAATTTTGGATTCTACTACCAGAGGCTGCATCGGCTG  
 CGCGGAGAGCAGATGGCGTGTATTTTGGGCATTCACTGGCTGTCACTGACGTCACCGG  
 GATGGGAGGCATGATCTGCTGGTGGGCGCTCCACTGTATATGGAGAGCCGGCAGACCGA  
 AAAGTGGCCGAAGTGGGCGTGTATTTTGTTCCTGCAGCCGCGAGGCCCCACGCGCTG  
 GGTGCCCCAGCCTCCTGCTGACTGGCACACAGCTCTATGGGCGATTGCGCTCTGCCATC  
 GCACCCCTGGGCGACCTCGACGGGATGGCTACAATGACATTGCAGTGGCTGCCCTTAC  
 GGGGTCCAGTGGCCGGGGCAAGTGTGGTGTTCCTGGGTCAGAGTGGGGGCTGAGG  
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 CTTTCGAGGTGCCGTAGACATCGATGACAACGGATACCCAGACCTGATCGTGGGAGCTTAC  
 GGGGCAACAGGTGGCTGTGTACAGAGCTCAGCCAGTGGTGAAGCCTCTGTCCAGCTA  
 CTGGTGAAGATTCACTGAATCCTGCTGTGAAGAGCTGTGTCCTACCTCAGACCAAGACA



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CCCGTGAGCTGCTTCAACATCCAGATGTGTGTTGGAGCCACTGGGCACAACATTCCTCAG
AAGCTATCCCTAAATGCCGAGCTGCAGCTGGACCGGCAGAAAGCCCGCCAGGGCCGGCGG
GTGCTGTCTGGGCTCTCAACAGGCAGGCACCACCTGAACCTGGATCTGGGCGGAAAG
CACAGCCCCATCTGCCACACCACCATGGCCTTCTTCGAGATGAGGCAGACTTCCGGGAC
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CAGGGGGGCTTCAAGTGTCTCCACAGCCTCCTGTCAACCCTCTCAAGGTGGACTGGGGG
CTGCCATCCCCAGCCCCCTCCCCATTACCCGGCCCATCACAAGCGGGATCGCAGACAG
ATCTTCTGCCAGAGCCCGAGCAGCCCTCGAGGCTTCAAGGATCCAGTTCTCGTAAGCTGC
GACTCGGCGCCCTGTACTGTGGTGCAGTGTGACCTGCAGGAGATGGCGCGGGCAGCGG
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CAGTTTTGTGCTGCAGTGCACGCATGGTTCAACGTGTCTCCCTCCCCTATGCGGTGCC
CCGCTCAGCCTGCCCGAGGGGAAGCTCAGGTGTGGACACAGCTGCTCCGGGCCTTGGAG
GAGAGGGCCATTCCAATCTGGTGGGTGCTGGTGGGTGTGCTGGGTGGCCTGCTGTGCTC
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GAAGAAGATGATGAAGAGGGGGAGTGTGGTGCAGCCTACACTATTCTAGCAGGAGGGTT
GGGCGTGTACTGCACCGCCCTTCTCCAACAAGTTGCCTCCAAGCTTTGGGTTGGAGC
TGTTCCATTGGGTCTTGGTGTGTTCCCTCCC

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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_000419 unedited
GAGATTTGTATCGACTCCTATAGGGCGGCCGCAATTCGCCCTTGCCTGGGAGGTTGTGG
AAGAAGGAAGATGGCCAGAGCTTGTGTCCACTGCAAGCCCTCTGGCTTCTGGAGTGGGT
GCTGCTGCTCTTGGGACCTTGTGCTGCCCTCCAGCCTGGGCCTTGAACCTGGACCCAGT
GCAGCTCACCTTCTATGCAGGCCCAATGGCAGCCAGTTTGGATTTTCACTGGACTTCCA
CAAGGACAGCCATGGGAGAGTGGCCATCGTGGTGGGCGCCCGCGGACCTGGGCCCCAG
CCAGGAGGAGACGGGCGGCGTGTCTGTGCCCTGGAGGGCCGAGGGCGGCCAGTGCC
CTCGCTGCTCTTTGACCTCCGTGATGAGACCCGAAATGTAGGCTCCCAAACCTTACAAC
CTTCAAGGCCCGCAAGGACTGGGGCGTCCGGTGTGAGCTGGAGCGACGTCATTGTGGC
CTGCGCCCCCTGGCAGCACTGGAACGTCTAGAAAAGACTGAGGAGGCTGAGAAGACGCC
CGTAGGTAGTGTCTTTTGGTCTAGCCAGAGAGCGGCCGCGCGGAGTACTCCCCCTG
TCGCGGGAACACCCTGAGCCGCATTTACGTGGAATAATGATTTTGTAGCTGGGACAAGCGTTA
CTGTGAAGCGGGCTTCACTCCGTGGTCACTCAGCCGAGAGCTGGTGTCTGGGGCTCCT
GGCGGCTATTATTTCTAGTCTCCTGGCCAGGCTCCAGTTGCGGATATTTTCTCGAGTT
ACCGCCAGGCATCCTTTGTGGCAGTGTCTCCAGAGCCTCTCCTTTGACTCAGCACC
CAGAGTACTCGACGCTACTGGGGTACTCGTGCCTGGGCGAGTCGACGGGATCTCACACT
ACAGAATATGTCGTGTCGCCCACTGAGCTGACCTGGGAGCGGTGGAATTTGATCTAC
TA

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_000419  
**Insert Size:** 3300 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>	The ORF of this clone is fully sequenced and found to be a perfect match to NM_000419.2.
<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_000419.2</a> , <a href="#">NP_000410.1</a>
<b>RefSeq Size:</b>	3334 bp
<b>RefSeq ORF:</b>	3120 bp
<b>Locus ID:</b>	3674
<b>UniProt ID:</b>	<a href="#">P08514</a>
<b>Cytogenetics:</b>	17q21.31
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer
<b>Gene Summary:</b>	This gene encodes a member of the integrin alpha chain family of proteins. The encoded preproprotein is proteolytically processed to generate light and heavy chains that associate through disulfide linkages to form a subunit of the alpha-IIb/beta-3 integrin cell adhesion receptor. This receptor plays a crucial role in the blood coagulation system, by mediating platelet aggregation. Mutations in this gene are associated with platelet-type bleeding disorders, which are characterized by a failure of platelet aggregation, including Glanzmann thrombasthenia. [provided by RefSeq, Jan 2016]