

Product datasheet for **SC106270**

CD42c (GP1BB) (BC020397) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD42c (GP1BB) (BC020397) Human Untagged Clone
Tag:	Tag Free
Symbol:	GP1BB
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for BC020397, the custom clone sequence may differ by one or more nucleotides

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GTCTTCCCTTATCCCCAGACGCCTAGCGGGCAGGGTTGGGCTGAATCAAATGGGAGCCCTCCAGACATAA  
GGAGGCCAGAGGCTGCAAGGAGCGGGTTCGTGACCGCTTACACCCCTTCTCCACAGCCCGGCCGACCTG  
GAGGGCCCCGGGGCACTGGGCGGTGAGCCACCTCCTGGCAACTCTCGGTGCCGTCCCCTGCCCTCGCTC  
GAGGCCCTTCTCCCCAGCACCGCTGTGGTGTGCCGGGATCCTGAGCCTAGGCCCTCCGATGTTCCACC  
CGCATGATCCCTTCCCGCCACACGATGCTCCGTTTTCTCCGTTGTGAATGCCCGCTCCTGTCCTGGTGA  
CAGGAGAACAATGTTGGTGAACGTGCGAGCGGGTGTCCGAGTGCTCCGTGTGCCCTGAGAGCGGGTGGG  
AGCGGAAGCCTGAGCGGCTGCGGCCTCCGCGGATAGTGTGCTATCTGCCGCTGCAGCGCGCTCCGCGC  
GGCCTCTGGGCTATTTCTGGCCAGGCCGAGCACTGTGGTTCGGTGCAGGGCGTGGCAGGGGCGGGCGGCC  
TTATCGTTCGGCTCTCCCGCTACGCCTCCCGCTGCAGAGTAAGCCGGGCTGCCGTCTTCTCGCCATGGG  
CTCCGGGCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTGGCCCCGCCGAGCCGCCCGGCCGAGGT  
TGCCCGGCCCGCTGTAGCTGCGCGGGGACGCTCGTGGACTGCGGGCGCCGCGGGTACTTGGGCTCGC  
TGCCGACCGCCTTCCCTGTGACACAACCGAGCTGGTGTGACCGGCAACAACCTGACGGCGCTGCCGCC  
GGGGCTGCTGGACGCGCTGCCCGCTGCGCACCGCACACCTGGGCGCCAACCCCTGGCGCTGCGACTGC  
CGCCTTGTGCCGCTGCGCGCCTGGCTGGCGGGCCGCCCGAGCGTGCGCCCTACCGCGACCTGCGTTGCG  
TGGCGCCCCAGCGCTGCGCGGCCG
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC020397 unedited GGCCCCCGGGACCAAACCCCTTTCCCCCCCCTTACGACAATTGTATACGACTCCTATA GGCGGCCGCGNAATTTCGCACGAGCTCGGTGCCGTCCCCTGCCCTCGTCCGAGGCCTCTTC TCCCCACACCGCTGTGGTGTGCCGGGATCCTGAGCCTAGGCCTCCCGATGTTCCACCCG CATGATCCCTTCCCGCCACAGATGCTCCGTTTTCTCCGTTGTGAATGCCGCGTCTGT CCTGGTGACAGGAGAACAATGTTGGTGAACGTCGCAGCGGGTGTCCGAGTGTCCGTGTG CCCCTGAGAGCGGGTGGGAGCGGAAGCCTGAGCGGCCTGCGGCCTCCGGCGATAGTGTGC TATCTGCCGCTGCAGCGCGGTCCGCGCGCCTCTGGGCTATTTCTGGCCAGGCCGACG ACTGTGGTCCGTCGCGGGCGTGGCAGGGCGGGCGGCCTATCGTCCGGCTCTCCCGCT ACGCTCCCGCTGCAGAGTAAGCCGGGCTGCCGCTTCTCGCCATGGGCTCCGGGCCGCG CGGGGCGTGTGAGTACTGCTCTGCTGCTGGCCCCGCCGAGCCGCCGCGCAGGTTG CCCGGCGCCTGTAGTGCAGGACGCTCGTGGACTGCGGGCGCCGCGGGTACTGTTG GGCCTCGTGCACCGCCTTCCCTGTGACACAACCGAGCTGGTGTGACCGGCAACAA CCTGACGGCGTCCCGCGGGGCTGCTGAACCCGCTGCCCGCTGCGCACCGCACACC TGGCGCAACCCCTGGCGTGCAGTGCAGCCTTGTGCCGCTGCCCGCTGACTGCCCGG CGCCCCGAGCGTGCGCCCTACCGCAACTGCGTTGCGTGGCCCCCCCCACGCTGCGCGG ACCACTGCTG
Restriction Sites:	NotI-NotI
ACCN:	BC020397
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).
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:	BC020397.1
RefSeq Size:	1006 bp
RefSeq ORF:	1006 bp
Locus ID:	2812
Cytogenetics:	22q11.21
Domains:	LRRNT, LRRCT, LRR
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ECM-receptor interaction, Hematopoietic cell lineage

Gene Summary:

Platelet glycoprotein Ib (GPIb) is a heterodimeric transmembrane protein consisting of a disulfide-linked 140 kD alpha chain and 22 kD beta chain. It is part of the GPIb-V-IX system that constitutes the receptor for von Willebrand factor (VWF), and mediates platelet adhesion in the arterial circulation. GPIb alpha chain provides the VWF binding site, and GPIb beta contributes to surface expression of the receptor and participates in transmembrane signaling through phosphorylation of its intracellular domain. Mutations in the GPIb beta subunit have been associated with Bernard-Soulier syndrome, velocardiofacial syndrome and giant platelet disorder. The 206 amino acid precursor of GPIb beta is synthesized from a 1.0 kb mRNA expressed in platelets and megakaryocytes. A 411 amino acid protein arising from a longer, unspliced transcript in endothelial cells has been described; however, the authenticity of this product has been questioned. Yet another less abundant GPIb beta mRNA species of 3.5 kb, expressed in nonhematopoietic tissues such as endothelium, brain and heart, was shown to result from inefficient usage of a non-consensus polyA signal in the neighboring upstream gene (SEPT5, septin 5). In the absence of polyadenylation from its own imperfect site, the SEPT5 gene produces read-through transcripts that use the consensus polyA signal of this gene. [provided by RefSeq, Dec 2010]