

Product datasheet for **SC122550**

CD42b (GP1BA) (NM_000173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD42b (GP1BA) (NM_000173) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD42b
Synonyms:	BDPLT1; BDPLT3; BSS; CD42B; CD42b-alpha; DBPLT3; GP1B; GPIbA; GPIbalpha; VWDP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000173 edited
GAGAGAAGGACGGAGTCGAGTGGCACCCCTAGAAGACGCTCTGTGCCTTCGGAGGTCTTTC
TGCTGCTGTCTCATGCCTCTCCTCCTCTTGCTGCTCCTGCTGCCAAGCCCCTTACAC
CCCCACCCCATCTGTGAGGTCTCCAAAGTGGCCAGCCACCTAGAAGTGAAGTGTGACAAG
AGGAATCTGACAGCGCTGCCCTCCAGACCTGCCGAAAGACACAACCATCCTCCACCTGAGT
GAGAACCTCCTGTACACCTTCTCCCTGGCAACCCTGATGCCTTACACTCGCCTCACTCAG
CTGAACCTAGATAGGTGGAGCTCACCAAGCTCCAGGTCGATGGGACGCTGCCAGTGTG
GGGACCCCTGGATCTATCCACAATCAGCTGCAAAGCCTGCCCTTGTAGGGCAGACACTG
CCTGCTCTCACCGTCTGGACGTCTCCTCAACCGGCTGACCTCGCTGCCTCTTGGTGCC
CTGCGTGGTCTTGGCGAACTCCAAGAGCTCTACCTGAAAGGCAATGAGCTGAAGACCCTG
CCCCCAGGGCTCCTGACGCCACACCCAAGCTGGAGAAGCTCAGTCTGGCTAACAAACAAC
TTGACTGAGCTCCCCGCTGGGCTCCTGAATGGGCTGGAGAATCTCGACACCCTTCTCCTC
CAAGAGAACTCGCTGTATACAATACCAAAGGGCTTTTTTGGGTCCACCTCCTGCCTTTT
GCTTTTCTCCACGGGAACCCCTGGTTATGCAACTGTGAGATCCTCTATTTTCGTGCTGG
CTGCAGGACAATGCTGAAAATGTCTACGTATGGAAGCAAGGTGTGGACGTCGAGGCCATG
ACCTCTAACGTGGCCAGTGTGCAGTGTGACAATTCAGACAAGTTTCCCGTCTACAATAAC
CCAGGAAAGGGGTGCCCCACCCTTGGTGATGAAGGTGACACAGACCTATATGATTACTAC
CCAGAAGAGGACTGAGGGCGATAAGGTGCGTGCCACAAGGACTGTGGTCAAGTTCCCC
ACCAAAGCCCATACAACCCCTGGGGTCTATTCTACTCATGGTCCACTGCTTCTCTAGAC
AGCCAAATGCCCTCCTCCTTGCATCCAACACAAGAATCCACTAAGGAGCAGACCACATTC
CCACCTAGATGGACCCCAAAATTTACACTTCACATGGAATCCATCACATTCTCCAAAAC
CCAAAATCCACTACTGAACCAACCCCAAGCCCGACCACCTCAGAGCCCGTCCCGGAGCCC
GCCCAAAACATGACCACCCTGGAGCCCACTCCAAGCCCGACCACCCAGAGCCCACTCA
GAGCCCGCCCCAGCCCGACCACCCCGGAGCCCAACCCCAATCCCGACCATCGCCACAAGC
CCGACCATCCTGGTGTCTGCCACAAGCCTGATCACTCCAAAAAGCACATTTTAACTACC
ACAAAACCCGATCACTCTTAGAATCCACCAAAAAAACCATCCCTGAACTTGATCAGCCA
CCAAAGCTCCGTGGGGTCTCCAAGGGCATTGGAGAGCTCCAGAAATGACCCTTTTCTC
CACCCGACTTTTGTGCTCCTCCCCCTGGGCTTCTATGTCTTGGGTCTTCTGGCTG
CTCTTTGCCTCTGTGGTCTCATCCTGCTGCTGAGCTGGGTTGGGCATGTGAAACCACAG
GCCCTGGACTCTGGCCAAGGTGCTGCTGACCACAGCCACACAACCACACACCTGGAG
CTGCAGAGGGGACGGCAAGTGACAGTGCCTGGGCTGGCTGCTTCTCCTCGAGGTTCCG
TTCCCACTTTCCGCTCCAGCCTTTCCTGTGGGTACGGCCTAATGGCCGTCTGGGGCT
CTAGTGGCAGGAAGGAGGCCCTCAGCTCTGAGTCAGGGTCGTGGTCAGGACCTGTGAGC
ACAGTGAGCATTAGTACTCTGGCCACAGCCTCTGAGGGTGGGAGGTTTGGGGACCTTGA
GAGAAGAGCCTGTGGGCTCCTCATTGGAATCTAGTTGGGGGTTGGAGGGTAAGGAACA
CAGGGTGATAGGGGAGGGGTCTTAGTTCCTTTTCTGTATCAGAAGCCCTGTCTTACAA
CACAGGCACACAATTTAGTCCCAGCCAAAGCAGAAGGGGTAATGACATGGACTTGGCGG
GGGGACAAGACAAAGCTCCCGATGCTGCATGGGGCGTGCCAGATCTCACGGTGAACCAT
TTTGGCAGAATACAGCATGGTTCACATGCATCTATGCACAGAAGAAAATCTGGAAAGT
GATTTATCAGGATGTGAGCACTCGTTGTGCTGGATGTTACAAATATGGGTGGTTTTATT
TTCTTTTCCCTGTTTAGCATTTTCTAGTTTTTCCACTATTATTGTATATTATCTGTATAA
TAAAAAATAATTTTAGGGTTGGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000173 unedited CCCTGGATTTGTAATACGACTTCTCTATAGGCGGCCGCGATTCCCGGGCTGAGAGAAGAC GGAGTCGAGTGGCACCCTAGAAGACGCTCTGTGCCTTCGGAGGTCTTTCTGCCTGCCTGT CCTCATGCCTCTCCTCCTTGTGCTCCTGCTGCCAAGCCCCTACACCCACCCCAT CTGTGAGGTCTCCAAAGTGGCCAGCCACCTAGAAGTGAAGTGTGACAAGAGGAATCTGAC AGCGCTGCCTCCAGACCTGCCGAAAGACACAACCATCCTCCACCTGAGTGAGAACCTCCT GTACACCTTCTCCCTGGCAACCCGTGATGCCTTACACTCGCCTCACTCAGCTGAACCTAGA TAGGTGCGAGCTACCAAGCTCCAGTTCGATGGGACGCTGCCAGTGTGGGGACCCTGGA TCTATCCACAATCAGCTGCAAAGCCTGCCCTTGTAGGGCAGACACTGCCTGCTCTCAC CGTCTGGACGTCTCCTCAACCGGCTGACCTCGCTGCCTTTGGTGCCTGCGTGGTCT TGGCGAAGTCCAAGAGCTCTACCTGAAAGGCAATGAGCTGAAGACCCTGCCCCAGGGCT CCTGACGCCACACCAAGCTGGAGAAGCTCAGTCTGGCTAACACAACCTTGACTGAGCT CCCCCTGGGCTCCTGAATGGGCTGGAGAATCTCGACACCCTTCTCCTCAAGAGAACTC GCTGTATAACAATACCAAAGGGCTTTTTTGGGTCCACCTCCTGCCTTTTGTCTTTCTCAC GGAACCCCTGGTTATGCAACTGTGAGATCCTCTATTTTTCGTGCTGGCTGCNNAGACAT GCTGAAAATGTCTACGTATGGAAGCCAGGTGTNGNACGTCAAGGNCCATGACCTCTAACG TGCCAGTGTGAGTGTGACAATTCAGACAGGTTTCCCGTCTACA
Restriction Sites:	Please inquire
ACCN:	NM_000173
Insert Size:	2473 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).
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_000173.3 , NP_000164.3
RefSeq Size:	2427 bp
RefSeq ORF:	1881 bp
Locus ID:	2811
UniProt ID:	P07359
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ECM-receptor interaction, Hematopoietic cell lineage

Gene Summary:

Glycoprotein Ib (GP Ib) is a platelet surface membrane glycoprotein composed of a heterodimer, an alpha chain and a beta chain, that is linked by disulfide bonds. The Gp Ib functions as a receptor for von Willebrand factor (VWF). The complete receptor complex includes noncovalent association of the alpha and beta subunits with platelet glycoprotein IX and platelet glycoprotein V. The binding of the GP Ib-IX-V complex to VWF facilitates initial platelet adhesion to vascular subendothelium after vascular injury, and also initiates signaling events within the platelet that lead to enhanced platelet activation, thrombosis, and hemostasis. This gene encodes the alpha subunit. Mutations in this gene result in Bernard-Soulier syndromes and platelet-type von Willebrand disease. The coding region of this gene is known to contain a polymorphic variable number tandem repeat (VNTR) domain that is associated with susceptibility to nonarteritic anterior ischemic optic neuropathy. [provided by RefSeq, Oct 2013]