

Product datasheet for **RG206598**

CD42b (GP1BA) (NM_000173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD42b (GP1BA) (NM_000173) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD42b
Synonyms:	BDPLT1; BDPLT3; BSS; CD42B; CD42b-alpha; DBPLT3; GP1B; GPIbA; GPIbalpha; VWDP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206598 representing NM_000173
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTCTCCTCCTTGTCTGCTCTGCTGCCAAGCCCCTTACACCCCCACCCCATCTGTGAGGTCTCCA
 AAGTGGCCAGCCACCTAGAAGTGAAGTGTGACAAGAGGAATCTGACAGCGCTGCCTCCAGACCTGCCGAA
 AGACACAACCATCCTCCACCTGAGTGAGAACCTCCTGTACACCTTCTCCCTGGCAACCCTGATGCCTTAC
 ACTCGCTCACTCAGCTGAACCTAGATAGGTGCGAGCTACCAAGCTCCAGGTCGATGGGACGCTGCCAG
 TGCTGGGACCCTGGATCTATCCACAATCAGCTGCAAAGCCTGCCCTTGTAGGGCAGACACTGCCTGC
 TCTCACCGTCTGGACGTCTCCTCAACCGGTGACCTCGCTGCCTTTGGTGCCTGCGTGGTCTTGGC
 GAACTCCAAGAGCTCTACCTGAAAGGCAATGAGCTGAAGACCCTGCCCCAGGGCTCCTGACGCCACAC
 CCAAGCTGGAGAAGCTCAGTCTGGCTAACAACTTACTGAGCTCCCCGCTGGCTCCTGAATGGGT
 GGAGAATCTGCACCCCTTCTCCTCAAGAGAAGCTCGCTGTATACAATACCAAGGGCTTTTTTGGGTCC
 CACCTCCTGCCTTTTGTCTTCTCCACGGGAACCCTGGTTATGCAACTGTGAGATCCTCTATTTTCGTC
 GCTGGCTGCAGGACAATGCTGAAAATGTCTACGTATGGAAGCAAGGTGTGGACGTCAAGGCCATGACCTC
 TAACGTGGCCAGTGTGCAGTGTGACAATTCAGACAAGTTTCCCGTCTACAAATACCCAGGAAAGGGGTGC
 CCCACCCTTGGTGTGAGGAGTGCACAGACCTATATGATTACTACCCAGAAGAGGACACTGAGGGCGATA
 AGGTGCGTGCCACAAGGACTGTGGTCAAGTTCCCACCAAAGCCCATACAACCCCTGGGGTCTATTCTA
 CTCATGGTCCACTGCTTCTAGACAGCCAAATGCCCTCCTTGCATCCAACAAGAATCCACTAAG
 GAGCAGACCACATTCCCACCTAGATGGACCCAAATTTACACTTCACATGGAATCCATCACATCTCCA
 AAACTCCAAAATCCACTACTGAACCAACCCCAAGCCCGACCACCTCAGAGCCCGTCCCGGACCCGCCCC
 AAACATGACCACCCTGGAGCCCACTCAAGCCCGACCACCCAGAGCCCACTCAGAGCCCGCCCGCCAGC
 CCGACCACCCCGAGCCACCCCAATCCCGACCATCGCCACAAGCCCGACCATCCTGGTGTCTGCCACAA
 GCCTGATCACTCCAAAAAGCACATTTTTAACTACCACAAAACCCGTATCACTCTTAGAATCCACAAAAA
 AACCATCCCTGAACTTGATCAGCCACCAAAGCTCCGTGGGGTGTCCAAGGGCATTGGAGAGCTCCAGA
 AATGACCCTTTTCTCCACCCGACTTTTGTGCCTCCTCCCCCTGGGCTTCTATGTCTTGGGTCTTCT
 GGCTGCTTTTGCCTCTGTGGTCTCATCTGCTGCTGAGCTGGGTGGGCATGTGAAACCACAGGCCCT
 GGACTCTGGCCAAGGTGCTGCTGACCACAGCCACACAAACCACACACCTGGAGCTGCAGAGGGGACGG
 CAAGTGACAGTGCCCGGGCCTGGCTGCTTCTCGAGTTTGGCTTCCACTTCCGCTCCAGCCTCT
 TCTGTGGGTACGGCCTAATGGCCGTCTGGGGCCTCTAGTGGCAGGAAGGAGGCCCTCAGCTCTGAGTCA
 GGGTCTGGTCTAGGACCTGCTGAGCACAGTGAAGTACTCTGGCCACAGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206598 representing NM_000173
 Red=Cloning site Green=Tags(s)

MPLLLLLLLLLPSPLPHHPICEVSKVASHLEVNC DKRNL TALPPDLPKDITLHLSENLLYTFSLATLMPY
 TRLTQLNLDRCLETKLQVDGTLPLVGLTDL SHNQLQSLPLLQTLPALTVLDVDFNRLTSLPLGALRGLG
 ELQELYLKGNELKTLPPGLLTPTPKLEKLSLANNL TELPAGLLNGLNLDLTLQENSLYTI PKGFFGS
 HLLPFAFLHGNPWL CNCEILYFRRWLQDNAENVYVWKQGV DVKAMTSNVA SVQCDNSDKFPVYKYPGKGC
 PTLGDEGDTLDYDYPEEDTEGDKVRATRTVVKFPTKAHTTPWGLFYSWSTASLDSQMPSSLHPTQESTK
 EQTTFFPRWTPNFTHMESITFSKTPKSTTEPTSPPTSEPVPEPAPNMTLEPTSPPTPEPTSEPPS
 PTPEPTPIPTIATSPTILVSATSLITPKSTFLTTTKPVSLLESTKKTIPELDQPPKLRGVLQGHLESSR
 NDPFLHPDFCCLLPLGFYVGLFWLLFASVVL ILLL SWVGHVKPQALDSGQGAALTTATQTTHLELQRGR
 QVTVPRALLFLRGLPTFRSSLFLWVRPNRGLPLVAGR RPSALSQGRGQDLLSTVSI RYSGHSL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000173

ORF Size: 1878 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000173.4](#), [NP_000164.4](#)

RefSeq Size: 2463 bp

RefSeq ORF: 1959 bp

Locus ID: 2811

UniProt ID: [P07359](#)

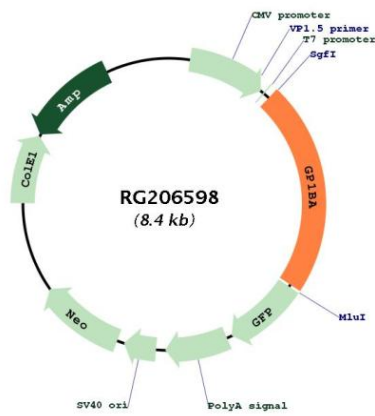
Cytogenetics: 17p13.2

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]

Product images:



Circular map for RG206598