

Product datasheet for **RG216738**

CD42c (GP1BB) (NM_000407) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD42c (GP1BB) (NM_000407) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CD42c
Synonyms: BDPLT1; BS; CD42C; GPIBB; GPIbbeta
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG216738 representing NM_000407
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTCCGGCCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTGGCCCCGCCGAGCCGCCGGCCG
 CAGGTTGCCCGGCCCTGTAGCTGCGCGGGGACGCTCGTGGACTGCGGGCGCCGCGGGCTGACTTGGGC
 CTCGCTGCCGACCGCCTCCCTGTGCACACAACCGAGCTGGTGTGACCGCAACAACCTGACGGCGCTG
 CCGCCGGGGCTGCTGGACGCGCTGCCGCGCTGCGACCGCACACCTGGGCGCAACCCCTGGCGCTGCG
 ACTGCCGCTTGTCCGCTGCGCGCTGGCTGGCCGGCCGCCCGAGCGTGCGCCCTACCGCGACCTGCG
 TTGCGTGGCGCCCCAGCGCTGCGCGGCCGCTGCTGCCCTATCTGGCCGAGGACGAGCTGCGCGCCGCT
 TGGCGTCCCGGCCGCTCTGCTGGGGGGCGCTGGCGGCGCAGCTTGCCTGCTGGGCTTGGGCTGCTGC
 ACGCGTTGCTGCTGGTGTGCTGCTGTGCCGCTGCGGAGGCTGCGGGCCCGGGCCCGCGCTCGCGCCG
 AGCCCGGCTGCTGCTGACCGACCGCTGGTGGCCGAGCGAGCCGGAACCGACGAGTCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

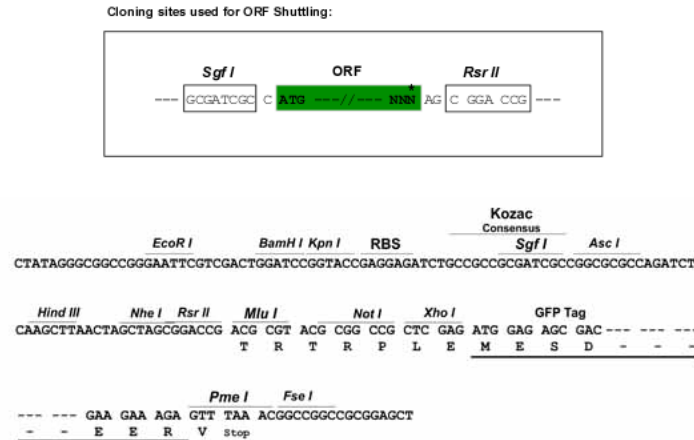
Protein Sequence: >RG216738 representing NM_000407
 Red=Cloning site Green=Tags(s)

MGSGPRGALSLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRRLTWSLPTAFPVDTTTELVLTGNNLTAL
 PPGLLDALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVAPPALRGRLLPYLAEDELRAA
 CAPGPLCWGALAAQLALLGLLHALLLVLLLRLRLRARARARAAAARLSLTDPLVAERAGTDES

SGP**TRRRLE** - GFP Tag - V

Restriction Sites: Sgfl-RsrII



Cloning Scheme:


ACCN: NM_000407

ORF Size: 618 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_000407.5](#)

RefSeq Size: 955 bp

RefSeq ORF: 621 bp

Locus ID: 2812

UniProt ID: [P13224](#)

Cytogenetics: 22q11.21

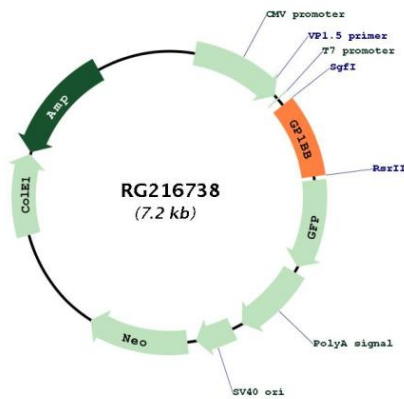
Domains: LRRNT, LRRCT, LRR

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 plateletes 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]

Product images:



Circular map for RG216738