

## Product datasheet for **RG214355**

### Glycoprotein VI (GP6) (NM\_001083899) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glycoprotein VI (GP6) (NM_001083899) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glycoprotein VI
Synonyms:	BDPLT11; GPIV; GPVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214355 representing NM\_001083899  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCTCCATCCCCGACCGCCCTTTCTGTCTTGGGCTGTGTCTGGGGCTGTGCCAGCGCAGAGTGGAC  
 CGTCCCCAAGCCCTCCCTCCAGGCTCTGCCAGCTCCCTGGTGCCCTGGAGAAGCCAGTGACCCCTCCG  
 GTGCCAGGACCTCCGGCGTGGACCTGTACCGCTGGAGAAGCTGAGTTCACGACAGTACCAGGATCAG  
 GCAGTCTCTTCAATCCCGGCCATGAAGAGAAGTCTGGCTGGACGCTACCGCTGCTCTACCAGAACGGAA  
 GCCTCTGGTCCCTGCCAGCGACCGACTGGAGCTCGTTGCCACGGGAGTTTTTGCACAAACCTCGCTCTC  
 AGCCAGCCCGCCGGCGGTGTCTGAGGAGGGACGTAACCCACAGTGTGACTCGGTATGGCTTT  
 GACCAATTTGCTCTGTACAAGGAAGGGGACCTGCGCCCTACAAGAATCCCGAGAGATGGTACAGGGCTA  
 GTTTTCCCATCATCACGGTGACCGCCGCCACAGCGGAACCTACCGATGTACAGCTTCTCCAGCAGGGA  
 CCCATACCTGTGGTCAGCCCCAGCGACCCCTGGAGCTTGTGGTACAGGAACCTCTGTGACCCCGCAGC  
 CGGTTACCAACAGAACCACTTCCCGGTAGCAGAATTCTCAGAAGCCACCGCTGAAGTACCGTCTCAT  
 TCACAAACGAAGTCTTCACAACTGAGACTTCTAGGAGTATCACCGCCAGTCCAAAGGAGTACAGACTCTCC  
 AGCTGGTGTGAGTCTGCCCGCAGTACTACACCAAGGGCAACCTGGTCCGGATATGCCTCGGGGCTGTGAT  
 CCTAATAATCCTGGCGGGTTTCTGGCAGAGGACTGGCACAGCCGGAGGAAGCGCCTGCGGCACAGGGGC  
 AGGGCTGTGCAGAGGCGCTTCCGCCCTCCCGCCCTCCCGCAGACCCGGAAATCACACGGGGTCAAG  
 ATGGAGGCCGACAGGATGTTACAGCCGCGGTTATGTTTCATGACCGTGAACCCAGGCACGGTGTGAT  
 CCAAGGGAGGGATCATGGCATGGGAGGCGACTCAAAGACTGGCGTGTGTGGAGCGTGAAGCAGGAGGGC  
 AGAGGCTACAGCTGTGGAACAGAGGCCATGCTGCCTCTCTGGTGTTCATCAGGAGCGGTTCCGCCA  
 GTGTCTGTCTGTCTGCCTCTGTCTGAGGACCCCTCCATTTGGGATGGAAGGAATCTGTGGAGA  
 CCCCATCTCTCCCTGCACACTGTGGATGACATGGTACCCTGGCTGGACCACATACTGGCTCTTTCTT  
 CAACCTCTCTAATATGGGCTCCAGACGGATCTCTAAGGTTCCAGCTCTCAGGGTTGACTCTGTTCCATC  
 CTCTGTGCAAAATCCTCCCGTCTTCCCTTTGGCCCTCTGTGCTTGTCTGGTTTTCCCGAAGAACTCT  
 CACCCCTACTCCATCTCCACTGCGGTCTAACAAATCTCCTTTGCTCTCTCAGAACGGGTCTTGCAGGCA  
 GTTTGGGTATGTCATTCTTTCTTAGTGTAAACTAGCACGTTGCCCGCTTCCCTTACATTAGAAAA  
 CAAGATCAGCCTGTGCAACATGGTAAACCTCATCTCTACCAACAAAACAAAAAACAAAAAATTAGCC  
 AGGTGTGGTGGTGCATCCCTATACTCCAGCAACTCAGGGGGCTGAGGTGGGAGAATGGCTTGCAGCTGG  
 GAGGCAGAGGTTGCAGTGAGCTGAGATCACACCACTGCACTCTAGCTCGGGTACGGAAGCCTGACTTTGT  
 CTCAAAAAATACAGGGATGAATATGTCAATTACCTGATT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG214355 representing NM\_001083899  
 Red=Cloning site Green=Tags(s)

MSPSPTALFCLGLCLGRVPAQSGPLPKPSLQALPSSLVPLEKPVTLRCQPPGVDLRLEKLSRRYQDQ  
 AVLFIIPAMKRSLAGRYRCSYQNGSLWLSLPSDQLELVATGVFAKPSLSAQPGPAVSSGGDVTLCQQT  
 RYGF DQFALYKEGDPAPYKNPERWYRASFPITVTAAHSGTYRCYSFSSRDPLYWSAPSDPLELVVTGTSVTPS  
 RLPTEPPSPVAEFSEATAELTVSFTNEVFTTETSRSITASPKESSPAGESCPPVLHQGPMPDMPRGCD  
 PNNPGGVSGRGLAQPEEAPAAQGGCAEASAPPAPPADPEITRSGWRPTGCSQPRVMFMTAEPQARSY  
 PREGSWHGRRLLKDRVWVSEAGGQRLQLWKRGHAAASSWCSIREPFGQCLSVCLPLCLRAPSIWDGRNLWR  
 PHPPPCTLWMTWYPGWTTYWPLSSTSLIWAPDGLRFPALRVDSVPSSVQNPVLPFGPLCSCLVFRNS  
 HPHSISHCGLTNLLSSLRTGLAGSLGMSFIFLSVKLARCLPFTLENKISLCNMVPHLYQNKTKTKLA  
 RCGGASLYSQLRGLRWENGLSLGGRGCSELRSHHCTLARVTKPDFVSKNTGMNMSITLI

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001083899

**ORF Size:** 1860 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\\_001083899.1](#), [NP\\_001077368.1](#)

**RefSeq Size:** 2268 bp

**RefSeq ORF:** 1863 bp

**Locus ID:** 51206

**UniProt ID:** [Q9HCN6](#)

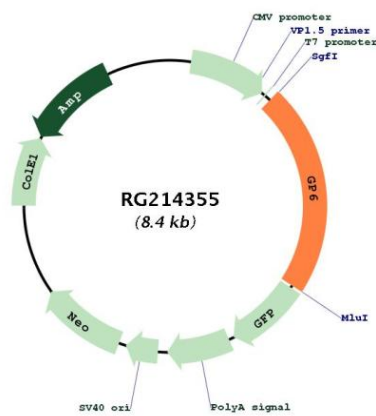
**Cytogenetics:** 19q13.42

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ECM-receptor interaction

**Gene Summary:** This gene encodes a platelet membrane glycoprotein of the immunoglobulin superfamily. The encoded protein is a receptor for collagen and plays a critical role in collagen-induced platelet aggregation and thrombus formation. The encoded protein forms a complex with the Fc receptor gamma-chain that initiates the platelet activation signaling cascade upon collagen binding. Mutations in this gene are a cause of platelet-type bleeding disorder-11 (BDPLT11). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

**Product images:**



Circular map for RG214355