

## Product datasheet for **RG202770**

### Fibrinogen gamma chain (FGG) (NM\_000509) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen gamma chain (FGG) (NM_000509) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fibrinogen gamma chain
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202770 representing NM_000509 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTTGGTCCTTGCACCCCGGAATTTAATTCTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACAT  
GTGTAGCATATGTTGCTACCAGAGACAAGTCTGCATCTTAGATGAAAGATTCGGTAGTTATTGTCCAAC  
TACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACCAAAGTAGACAAGGATCTACAGTCTTTGGAA  
GACATCTTACATCAAGTTGAAAAACAAACATCAGAAGTCAAACAGCTGATAAAAGCAATCCAACACTCT  
ATAATCCTGATGAATCATCAAACCAAATATGATAGACGCTGCTACTTTGAAGTCCAGGAAAATGTTAGA  
AGAAATTATGAAATATGAAGCATCGATTTTAAACACATGACTCAAGTATTGATATTTGCAGGAAATATAT  
AATTCAAATAATCAAAGATTGTTAACCTGAAAGAGAAGGTAGCCAGCTTGAAGCACAGTGCCAGGAAC  
CTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGAGC  
TAAACAGAGCGGGCTTTACTTTTAAACCTCTGAAAGCTAACCCAGCAATCTTAGTCTACTGTGAAATC  
GATGGGTCTGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACT  
GGATTCATATAAAGAAGGATTTGGACATCTGTCTCTACTGGCACAACAGAATTTGGCTGGGAAATGA  
GAAGATTCATTTGATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAACTGGAAGACTGGAAT  
GGCAGAACCAGTACTGCAGACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCTAACAT  
ATGCCTACTTCGCTGGTGGGGATGCTGGAGATGCCTTTGATGGCTTTGATTTGGCGATGATCCTAGTGA  
CAAGTTTTTACATCCCATAATGGCATGCAAGTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGC  
AACTGTGCTGAACAGGATGGATCTGTTGGTGGATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTT  
ATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCTAATGGTTATGATAATGGCATTATTTGGCCAC  
TTGGAAAACCCGGTGGTATTCCATGAAGAAAACCACTATGAAGATAATCCCATTCAACAGACTCACAAAT  
GGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGCTGGAGACGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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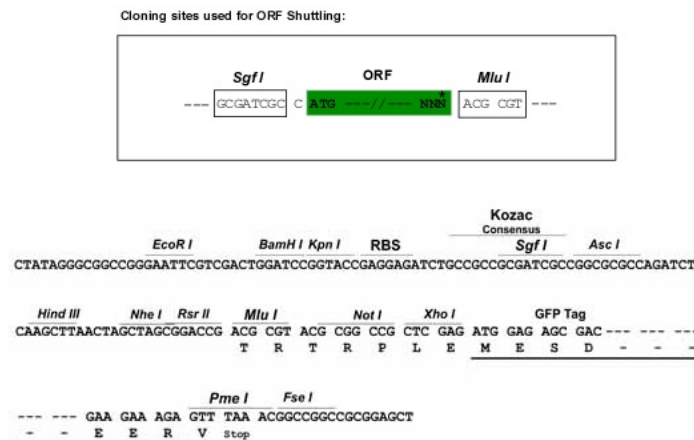
**Protein Sequence:** >RG202770 representing NM\_000509  
Red=Cloning site Green=Tags(s)

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLE  
 DILHQVENKTSEVKQLIKAIQLTYPDESSKPNMIDAATLKSRKMLEEIMKYEASILTHDSSIRYLQEIY  
 NSNNQKIVNLKEKVAQLEAQCQEPCKDVTQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEI  
 DGSGNGWTVFQKRLDGSVDFKKNWIQYKEGFHLSPTGTTEFWLGNEKIHLISTQSAIPYALRVELEDWN  
 GRTSTADYAMFKVGPADKYRLTYAYFAGGDAGDAFDGDFDGGDDPSDKFFTSHNGMQFSTWDNDNDKFEG  
 NCAEQDGSWMMNKCHAGHLNGVYYQGGTYSKASTPNGYDNGI IWATWKTRWYSMKKTTMKIIPFNRLTI  
 GEGQQHHLGGAKQAGDV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000509

**ORF Size:** 1311 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\\_000509.5](#)

**RefSeq Size:** 1665 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 2266

**UniProt ID:** [P02679](#)

**Cytogenetics:** 4q32.1

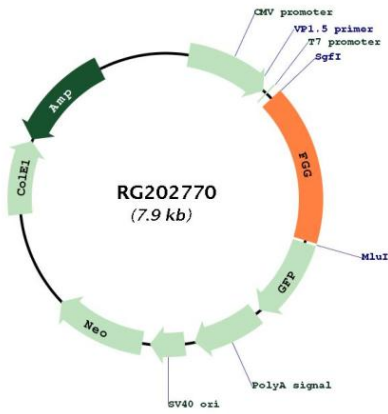
**Domains:** FBG

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** Complement and coagulation cascades

**Gene Summary:** The protein encoded by this gene is the gamma component of fibrinogen, a blood-borne glycoprotein comprised of three pairs of nonidentical polypeptide chains. Following vascular injury, fibrinogen is cleaved by thrombin to form fibrin which is the most abundant component of blood clots. In addition, various cleavage products of fibrinogen and fibrin regulate cell adhesion and spreading, display vasoconstrictor and chemotactic activities, and are mitogens for several cell types. Mutations in this gene lead to several disorders, including dysfibrinogenemia, hypofibrinogenemia and thrombophilia. Alternative splicing results in transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG202770