

Product datasheet for **RC224666**

Fibrinogen gamma chain (FGG) (NM_021870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen gamma chain (FGG) (NM_021870) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fibrinogen gamma chain
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC224666 representing NM_021870
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTGGTCTTGCACCCCCGAATTTAATTCTCTACTTCTATGCTCTTTTATTCTCTCTTCAACAT
 GTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATCTTAGATGAAAGATTCGGTAGTTATTGTCCAAC
 TACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACCAAAGTAGACAAGGATCTACAGTCTTTGGAA
 GACATCTTACATCAAGTTGAAAAACAAACATCAGAAGTCAAACAGCTGATAAAAGCAATCCAACACTCTT
 ATAATCCTGATGAATCATCAAACCAAATATGATAGACGCTGCTACTTTGAAGTCCAGGAAAATGTTAGA
 AGAAATTATGAAATATGAAGCATCGATTTTAACACATGACTCAAGTATTCGATATTTGCAGGAAATATAT
 AATTCAAATAATCAAAGATTGTTAACCTGAAAGAGAAGGTAGCCAGCTTGAAGCACAGTGCCAGGAAC
 CTTGCAAAGACACGGTGCAAATCCATGATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGAGC
 TAAACAGAGCGGGCTTTACTTTATTAACCTCTGAAAGCTAACCCAGCAATCTTAGTCTACTGTGAATC
 GATGGGTCTGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACCT
 GGATTCATATAAAGAAGGATTTGGACATCTGTCTCTACTGGCACAACAGAATTTTGGCTGGGAAATGA
 GAAGATTCATTTGATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAAGTGGAAAGTGGAAAT
 GGCAGAACCAGTACTGCAGACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCCTAACAT
 ATGCCTACTTCGCTGGTGGGGATGCTGGAGATGCCTTTGATGGCTTTGATTTGGCGATGATCCTAGTGA
 CAAGTTTTTACATCCCATAATGGCATGCAGTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGC
 AACTGTGCTGAACAGGATGGATCTGTTGGTGGATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTT
 ATTACCAAGTGGCACTTACTCAAAGCATCTACTCCTAATGGTTATGATAATGGCATTATTTGGGCCAC
 TTGGAAAACCCGGTGGTATTCCATGAAGAAAACCACTATGAAGATAATCCATTCAACAGACTCACAAAT
 GGAGAAGGACAGCAACACCACCTGGGGGAGCCAAACAGGTCAGACCAGAGCACCCCTGCGGAAACAGAAT
 ATGACTCACTTTACCCTGAGGATGATTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224666 representing NM_021870
 Red=Cloning site Green=Tags(s)

MSWSLHPRNLILYFYALLFLSSTCVAYVATRDNCCILDERFGSYCPTTCGIADFLSTYQTKVDKDLQSLE
 DILHQVENKTSEVKQLIKAIQLTYPDESSKPNMIDAATLKSRLMLEEIMKYEASILTHDSSIRYLQEIY
 NSNNQKIVNLKEKVAQLEAQCQEPCKDTVQIHDITGKDCQDIANKGAKQSGLYFIKPLKANQQFLVYCEI
 DGSGNGWTVFQKRLDGSVDFKKNWIQYKEFGHLSPGTTEFWLGNEKIHLISTQSAIPYALRVELEDWN
 GRTSTADYAMFKVGPADKYRLTYAYFAGGDAGDAFDGDFGDDPSDKFFTSHNGMQFSTWDDNDKDFEG
 NCAEQDGSWWMNKCHAGHLNGVYYQGGTYSKASTPNGYDNGI IWATWKTRWYSMKKTTMKIIPFNRLTI
 GEGQQHHLGGAKQVRPEHPAETEYDSLYPEDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6837_g03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_021870

ORF Size: 1359 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_021870.3](#)

RefSeq Size: 1763 bp

RefSeq ORF: 1362 bp

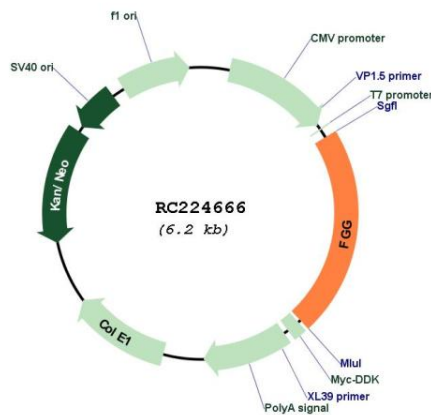
Locus ID: 2266

UniProt ID: [P02679](#)

Cytogenetics: 4q32.1
Domains: FBG
Protein Families: Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways: Complement and coagulation cascades
MW: 48.4 kDa

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 RC224666