

Product datasheet for **SC109240**

Fibrinogen gamma chain (FGG) (NM_021870) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen gamma chain (FGG) (NM_021870) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fibrinogen gamma chain
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021870, the custom clone sequence may differ by one or more nucleotides

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ATGAGTTGGTCCCTGCACCCCGGAATTAATTCTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACAT
GTGTAGCATATGTTGCTACCAGAGACAAGTCTGCATCTTAGATGAAAGATTCGGTAGTTATTGTCCAAC
TACCTGTGGCATTGCAGATTTCCCTGTCTACTTATCAAACCAAAGTAGACAAGGATCTACAGTCTTTGGAA
GACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTGATAAAAGCAATCCAACCTCACTT
ATAATCCTGATGAATCATCAAACCAAATATGATAGACGCTGCTACTTTGAAGTCCAGGAAAATGTTAGA
AGAAATTATGAAATGAAGCATCGATTTAACACATGACTCAAGTATTCGATATTTGCAGGAAATATAT
AATTCAAATAATCAAAGATTGTTAACCTGAAAGAGAAGGTAGCCAGCTTGAAGCACAGTCCAGGAAC
CTTGCAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGAGC
TAAACAGAGCGGGCTTTACTTTTAAACCTCTGAAAGCTAACCCAGCAATTCCTAGTCTACTGTGAAATC
GATGGGTCTGGAAATGGATGGACTGTGTTTCAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACT
GGATTCAATATAAAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTGGCTGGGAAATGA
GAAGATTCATTTGATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAAGTGGAAAGTGGAAAT
GGCAGAACCAGTACTGCAGACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTACCGCTAACAT
ATGCCTACTTCGCTGGTGGGATGCTGGAGATGCCTTTGATGGCTTTGATTTGGCGATGATCCTAGTGA
CAAGTTTTTACATCCCATAATGGCATGCAGTTCAGTACCTGGGACAATGACAATGATAAGTTTGAAGGC
AACTGTGCTGAACAGGATGGATCTGTTGGTGGATGAACAAGTGTACCGCTGGCCATCTCAATGGAGTTT
ATTACCAAGGTGGCACTTACTCAAAGCATCTACTCCTAATGGTTATGATAATGGCATTATTTGGGCCAC
TTGGAAAACCCGGTGGTATTCCATGAAGAAAACCACTATGAAGATAATCCCATTCAACAGACTCACAATT
GGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGTGAGACCAGAGCACCTGCGGAAAACAGAAT
ATGACTCACTTTACCCTGAGGATGATTTGTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021870 unedited
 NGGTTTTATAATTTGTAATACGACTCACTATAGGGCGGCCGCGAAATTCGCACCAGACA
 CTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTTGCACCCCGGAA
 TTTAATTTCTACTTCTATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGC
 TACCAGAGACAACTGCTGCATCTTAGATGAAAGATTCCGTAGTTATTGTCCAACCTACCTG
 TGGCATTGCAGATTTCTGTCTACTTATCAAACCAAAGTAGACAAGGATCTACAGTCTTT
 GGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTGATAAAAGC
 AATCCAATCACTTATAATCCTGATGAATCATCAAACCAAATATGATAGACGCTGTACT
 TTTGAAGTCCAGGAAAATGTTAGAGAAAATTATGAAATATGAAGCATCGATTTTAAACACA
 TGAICTCAAGTATTCGATATTTGCAGGAAATATATAATTCAAATAATCAAAGATTGTTAA
 CCTGAAAGAGAAGGTAGCCAGCTTGAAGCACAGTGCCAGGAACCTTGCAAAGACACGGT
 GCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGAGCTAAACA
 GAGCGGGCTNTACTTTATTAACCTCTGAAAGCTAACCAGCAATCTTAGTCTACTGTGA
 AATCGATGGGTCTGGAATGGATGGACTGTNGTTCAGAAGAGACTGATGGCAGTGTAGAT
 NTCAGAAAACCTGGATTCATATAAAGAAGATTTGNACATCTGTCTCTACTGGCACAACA
 GAAATTTNGCTGGGAAATGAGAAGATNCATTTGATAGCACACAGTCTGCCTCCCATATGC
 ATTAAGATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021870 unedited
 NTTTTGTTGNCCGCGGCCGCACTCNANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTGCAAATAAAGGCAATCATTTTATTATTATATTTAGGAACAAAGTTGAAATGTTAT
 CTCCTCAAATAACAATTTTAAATAACTCTGATATCAGTAATTTGGAATACAGTCCTA
 AATGAGTTTTAATTTCCATTGAAGGCTAAATGTCCTTAATAGAAGACTTGAAATCAATA
 ATATAGTAAGAGAAAAAAGGAAGAACTTTCAGAGAATTTCTGAAACTTTGTGGTCAAT
 AGAAATAGCAGTTAATTTTCTACAAATCATCCTCAGGGTAAAGTGAATCATATTCTGTT
 TCCGCAGGGTGTCTGGTCTGACCTGTTGGCTCCCCCAGGTGGGGTGTCTGCTCTTCT
 CCAATTGTGAGTCTGTTGAATGGGATTATCTTCATAGTGGTTTTCTTCATGGAATACCAC
 CGGGTTTTCCAAGTGGCCCAAATAATGCCATTATCATAACCATTAGGAGTAGATGCTTTT
 GAGTAAGTGCCACCTTGGTAATAAACTCCATTGAGATGGCCAGCGTGACACTTGTTCATC
 CACCAACCAGATCCATCCTGTTCCAGCACAGTTGCCTTCAAACCTATCATTGTCATTGTCC
 CAGGTAAGTGAATGCATGCCATTATGGGATGTGAAAACTTGTCACTAGGATCATGCCA
 AAATCAAAGCCATCAAAGGCATCTTCAGCATCCCACCAGCGAAGTAGGCATATGTTAAG
 CGGTACTTGTGAGTCCAGGTCCACCTTGAACATGCCATANTCTGCAGTACTGGTTCTGC
 CATTCCAGNCTTCCAGTCCACTCTTATGCTATGGGATGGCAGACTGTGTGCCTATCAAT
 GAATCTTTCATTTCCAGCCCAAATCTGTTGGCACTAGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_021870

Insert Size:

1950 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	<u>NM_021870.2</u> , <u>NP_068656.2</u>
RefSeq Size:	1763 bp
RefSeq ORF:	1362 bp
Locus ID:	2266
UniProt ID:	<u>P02679</u>
Cytogenetics:	4q32.1
Domains:	FBG
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (gamma-B) represents the longer transcript and encodes the longer isoform (gamma-B).</p>