

Product datasheet for SC119829

Fibrinogen gamma chain (FGG) (NM_000509) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen gamma chain (FGG) (NM_000509) 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:	>OriGene ORF within SC119829 sequence for NM_000509 edited (data generated by NextGen Sequencing)

```

ATGAGTTGGTCCCTGCACCCCCGAATTTAATTCTCTACTTCTATGCTCTTTTATTCTC
TCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAACCTGCTGCATCTTAGATGAAAGA
TTCCGGTAGTTATTGTCCAACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACC
AAAGTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACA
TCAGAAGTCAAACAGCTGATAAAAGCAATCCAACCTCACTTATAATCCTGATGAATCATCA
AAACCAAATATGATAGACGCTGCTACTTTGAAGTCCAGGAAAATGTTAGAAGAAATTATG
AAATATGAAGCATCGATTTTAAACACATGACTCAAGTATTCGATATTTGCAGGAAATATAT
AATTCAAATAATCAAAAGATTGTTAACTGAAAGAGAAGGTAGCCAGCTTGAAGCACAG
TGCCAGGAACCTTGCAAAGACACGGTGCAAATCCATGATACACTGGGAAAGATTGTCAA
GACATTGCCAATAAGGGAGCTAAACAGAGCGGGCTTTACTTTTATAAACCTCTGAAAGCT
AACCAGCAATTCTTAGTCTACTGTGAAATCGATGGGTCTGGAAATGGATGGACTGTGTTT
CAGAAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACTGGATTCAATATAAAGAAGGA
TTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGGGAAATGAGAAGATTCAT
TTGATAAGCACACAGTCTGCCATCCCATATGCATTAAGAGTGGAACTGGAAGACTGGAAT
GGCAGAACCAGTACTGCAGACTATGCCATGTTCAAGGTGGGACCTGAAGCTGACAAGTAC
CGCCTAACATATGCCTACTTCGCTGGTGGGGATGCTGGAGATGCCTTTGATGGCTTTGAT
TTTGGCGATGATCCTAGTGACAAGTTTTTCACATCCCATAAATGGCATGCAGTTCAGTACC
TGGGACAATGACAATGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGG
TGGATGAACAAGTGTACGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCCTTAC
TCAAAAGCATCTACTCCTAATGGTTATGATAATGGCATTATTTGGGCCACTTGGAAAACC
CGGTGGTATTCCATGAAGAAAACCACTATGAAGATAATCCCATCAACAGACTCACAAAT
GGAGAAGGACAGCAACACCACCTGGGGGGAGCCAAACAGGCTGGAGACGTTTAA

```

Clone variation with respect to NM_000509.4



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000509 unedited
 GCGAATTTTGTAAATACGACTCACTATAGGGCGGCCCGGAATTCGCACCAGGCTCGGAGC
 TCCGGGCACTCAGACATCATGAGTTGGTCTTGCACCCCCGGAATTTAATTCTCTACTTC
 TATGCTCTTTTATTTCTCTCTTCAACATGTGTAGCATATGTTGCTACCAGAGACAAGTGC
 TGCATCTTAGATGAAAGATTCGGTAGTTATTGTCCAACACTGTGGCATTGCAGATTTCT
 CTGTCTACTTATCAAACAAAAGTAGACAAGGATCTACAGTCTTTGGAAGACATCTTACAT
 CAAGTTGAAAACAAAACATCAGAAGTCAAACAGCTGATAAAAAGCAATCCAACACTTAT
 AATCCTGATGAATCATCAAAACCAATATGATAGACGCTGCTACTTTGAAGTCCAGGAAA
 ATGTTAGAAGAAATTATGAAATATGAAGCATCGATTTTAAACACATGACTCAAGTATTGCA
 TATTTGCAGGAAATATATAAATCAAATAATCAAAGATTGTTAACCTGAAAGAGAAGGTA
 GCCCAGCTTGAAGCACAGTGCCAGGAACCTTGCAAAGACACGGTGCAAATCCATGATATC
 ACTGGGAAAGATTGTCAAGACATTGCCAATAAGGGAGCTAAACAGAGCGGGCTTACTTT
 ATTAACCTCTGANAGCTAACCAGCAATCTTAGTCTACTGTGAAATCGATGGGTCTGGA
 AATGGATGGACTGTGTTTCAGAGAGACTTGATGGCAGTGTAGATTTCAAGAAAACTGNG
 ATTCATATANAGAAGGATTTGGACATCTGTCTCCTACTGGCACAACAGAATTTTGGCTGG
 GAAATGAGAAGATTCATTGATAGCACACAGTCTGCCTCCCATATGCATTTAGAGTGGACT
 GGNAGATGGNATGGCAGACCAGTACTGCGNCTATTGCCATGTTTCAGGTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000509 unedited
 NNNNTTTTTGACTATGNNACCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTT
 TTAGTCTTAGGAAACAAAGGTTTATTGAAATGCATGTAGATAAATTATCATCAGCATAAA
 ACTGTTATGGAGTTTTCAACATGGGGTCTTTTGCTCTTAAATGAAGTGAAGCTTTGCAA
 GTCCATTGTCCAATAGGAAAAATATTATATCTCTCTGTTTCAGATAAAGTCTTTAAAAAA
 GTAAATCTTTTTGAAACGGTCTTTTAAACGCTCCAGCCTGTTTGGCTCCCCCAGGTG
 GTGTTGCTGCTCTCTCAATTGTGAGTCTGTTGAATGGGATTATCTTCATAGTGGTTTT
 CTTTCATGGAATACCACCGGGTTTTCCAAGTGGCCCAAATAATGCCATTATCATAACCATT
 AGGAGTAGATGCTTTTGGAGTAAAGTCCACCTTGGTAATAAACTCCATTGAGATGGCCAGC
 GTGACACTTGTTCATCCACCAACCAGATCCATCCTGTTTCAGCACAGTTGCCTTCAAACCT
 ATCATTGTCAATTGCCAGTACTGAACTGCATGCCATTATGGGATGTGAAAACTTGTGTC
 ACTAGGATCATCGCCAAATCAAAGCCATCAAAGGCATCTCCAGCATCCCCACCAGCGAA
 GTAGGCATATGTTAGGCGGTACTTGTGAGTCCAGTCCACCTTGAACATGGCATAGTC
 TGCAGTACTGGTTCTGCCATTCCAGTCTCCAGTCCACTCTTAATGCATATNGGGATGG
 CANGACTGGTGTGCTTATCAAATGAATCTTCTCATTTCCAGCCAAAATNCTGTTGTGCCA
 GTAGGAAACAGATGTCCCAATCCTTNCATTATTTGAAATCCAGTTTTTCTGAAATCTAC
 ACTGCCCCATCAGTCTCTTCTGAAACACAGNTCCATNCATT

Restriction Sites:

NotI-NotI

ACCN:

NM_000509

Insert Size:

1570 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:

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_000509.4](#), [NP_000500.2](#)

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]
Transcript Variant: This variant (gamma-A) is the predominant transcript and is shorter than variant gamma-B. Variant gamma-A encodes isoform gamma-A, which is shorter and has a distinct C-terminus compared to isoform gamma-B.