

Product datasheet for **SC324409**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_000509.4

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ACAGTGCTGACACTACAAGGCTCGGAGCTCCGGGCACTCAGACATCATGAGTTGGTCCTT
GCACCCCGGAATTTAATTCTCTACTTCTATGCTCTTTATTTCTCTTCAACATGTGT
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TCCAACACTACCTGTGGCATTGCAGATTTCTGTCTACTTATCAAACCAAAGTAGACAAGGA
TCTACAGTCTTTGGAAGACATCTTACATCAAGTTGAAAACAAAACATCAGAAGTCAAACA
GCTGATAAAAGCAATCCAACACTTATAATCCTGATGAATCATCAAACCAAATATGAT
AGACGCTGCTACTTTGAAGTCCAGGAAAATGTTAGAAGAAATTATGAAATATGAAGCATC
GATTTTAAACACATGACTCAAGTATTCGATATTTGCAGGAAATATAAATCAAATAATCA
AAAGATTGTTAACCTGAAAGAGAAGGTAGCCAGCTTGAAGCACAGTGCCAGGAACCTTG
CAAAGACACGGTGCAAATCCATGATATCACTGGGAAAGATTGTCAAGACATTGCCAATAA
GGGAGCTAAACAGAGCGGGCTTTACTTTATTAACCTCTGAAAGCTAACCCAGCAATTCCT
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TGGCAGTGTAGATTTCAAGAAAACTGGATTCAATATAAAGAAGGATTTGGACATCTGTC
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GTCTGCCATCCCATATGCATTAAGAGTGGAACTGGAAGACTGGAATGGCAGAACCAGTAC
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TGATAAGTTTGAAGGCAACTGTGCTGAACAGGATGGATCTGGTTGGTGGATGAACAAGTG
TACAGCTGGCCATCTCAATGGAGTTTATTACCAAGGTGGCACTTACTCAAAGCATCTAC
TCCTAATGGTTATGATAATGGCATTATTTGGGCCACTTGGAAAACCCGGTGGTATTCCAT
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GGACTTGCAAAGCTTCACTTCATTTTAAAGCAAAAGACCCCATGTTGAAAACCCATAA
CAGTTTTATGCTGATGATAATTTATCTACATGCATTTCAATAAACCTTTTGTTCCTAAG
ACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_000509
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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:	<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-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.</p>