

Product datasheet for **SC328711**

Fibrinogen beta chain (FGB) (NM_001184741) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen beta chain (FGB) (NM_001184741) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fibrinogen beta chain
Synonyms:	HEL-S-78p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328711 representing NM_001184741. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGAAAAGGATGGTTTCTTGGAGCTTCCACAACTTAAACCATGAAACATCTATTATTGCTACTATTG
TGTGTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGGTTTCTTCAGTGCCCGTGGTCAT
CGACCCCTTGACAAGAAGAGAGAAGAGGCTTGTCTAACAGGAAAGGCCAATCAGAAATAGTGTTGAT
GAGTTAAATAACAATGTGGAAGCTGTTCCAGACCTCCTTCTTCTTCAGTACATGTATTTGCTG
AAAGACCTGTGGAAAAGAGGCAGAAGCAAGTAAAGATAATGAAATGTAGTCAATGAGTACTCCTCA
GAACTGGAAAAGCACCAATTATATATAGATGAGACTGTGAATAGCAATATCCCACTAACCTTCGTGTG
CTTCGTTCAATCCTGGAAAACCTGAGAAGCAAAATACAAAAGTTAGAATCTGATGTCTCAGCTCAAATG
GAATATTGTCGCACCCCATGCACTGTCACTTGCATATTCTGTGGTGTCTGGCAAAGAATGTGAGGAA
ATTATCAGGAAAGGAGGTGAAACATCTGAAATGTATCTCATTCAACCTGCAGTTCTGTCAAACCGTAT
AGAGTATACTGTGACATGAATACAGAAAATGGAGGATGGACAGTGATTGAGAACCGTCAAGACGGTAGT
GTTGACTTTGGCAGGAAATGGGATCCATATAAACAGGGATTTGGAAATGTTGCAACCAACACAGATGGG
AAGAATTACTGTGGCTACCAGGTGAATATTGGCTTGGAAATGATAAAATTAGCCAGCTTACCAGGATG
GGACCCACAGAACTTTTGATAGAAATGGAGGACTGGAAAGGAGACAAAGTAAAGGCTCACTATGGAGGA
TTCAGTGTACAGAAATGAAGCCAAACAATACCAGATCTCAGTGAACAAATACAGAGGAACAGCCGTAAT
GCCCTCATGGATGGAGCATCTCAGCTGATGGGAGAAAACAGGACCATGACCATTACAACGGCATGTTT
TTCAGCACGTATGACAGAGACAATGACGGCTGGTTAACATCAGATCCCAGAAAACAGTGTTCTAAAGAA
GACGGTGGTGGATGGTGTATAATAGATGTGATGCAGCCAATCCAAACGGCAGATACTACTGGGGTGGG
CAGTACACCTGGGACATGGCAAAGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGAAGGGGTCA
TGGTACTCAATGAGGAAGATGAGTATGAAGATCAGGCCCTTCTCCACAGCA**ATAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001184741
Insert Size:	1299 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).
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:	<u>NM_001184741.1</u>
RefSeq Size:	3451 bp
RefSeq ORF:	1299 bp
Locus ID:	2244
UniProt ID:	<u>P02675</u>
Cytogenetics:	4q31.3
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
MW:	50 kDa

Gene Summary:

The protein encoded by this gene is the beta 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. Fibrinogen serves key roles in hemostasis and antimicrobial host defense. Mutations in this gene lead to several disorders, including afibrinogenemia, dysfibrinogenemia, hypodysfibrinogenemia and thrombotic tendency. [provided by RefSeq, Aug 2020]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.