

Product datasheet for **SC112673**

Fibrinogen beta chain (FGB) (NM_005141) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen beta chain (FGB) (NM_005141) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fibrinogen beta chain
Synonyms:	HEL-S-78p
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005141, the custom clone sequence may differ by one or more nucleotides

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ATGAAAAGGATGGTTTCTGGAGCTCCACAACTTAAAACCATGAAACATCTATTATTGCTACTATTGT
GTGTTTTTCTAGTTAAGTCCCAAGGTGTCAACGACAATGAGGAGGGTTTCTTCAGTGCCCGTGGTCATCG
ACCCCTTGACAAGAAGAGAGAAGAGGCTCCAGCCTGAGGCCTGCCCCACCGCCCATCAGTGAGGTGGC
TATCGGGCTCGTCCAGCCAAAGCAGCTGCCACTCAAAGAAAAGTAAAGAAAAGCCCTGATGCTGGAG
GCTGTCTTCACGCTGACCCAGACCTGGGGGTGTGTGCTCACAGGATGTCAGTTGCAAGAGGCTTTGCT
ACAACAGGAAAGGCCAATCAGAAATAGTGTGATGAGTTAAATAACAATGTGGAAGCTGTTCCAGACC
TCCTCTTCTTCTTTCAGTACATGTATTTGCTGAAAGACCTGTGGCAAAGAGGCAGAAGCAAGTAAAAG
ATAATGAAAATGTAGTCAATGAGTACTCCTCAGAACTGGAAAAGCACAATTATATATAGATGAGACTGT
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CTGTGGTGTCTGGCAAAGAATGTGAGGAAATTATCAGGAAAGGAGGTGAAACATCTGAAATGTATCTCAT
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GTGATTCAGAACCGTCAAGACGGTAGTGTGACTTTGGCAGGAAATGGGATCCATATAAACAGGGATTTG
GAAATGTTGCAACCAACACAGATGGGAAGAATTACTGTGCCTACCAGGTGAATATTGGCTTGGAAATGA
TAAAATTAGCCAGCTTACCAGGATGGGACCCACAGAATTTTGTAGAAATGGAGGACTGGAAAGGAGAG
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AATACAGAGGAACAGCCGTAATGCCCTCATGGATGGAGCATCTCAGCTGATGGGAGAAAACAGGACCAT
GACCATTCACAACGGCATGTTCTTCAGCACGTATGACAGAGACAATGACGGCTGGTTAACATCAGATCCC
AGAAAACAGTGTCTAAAGAAGACGGTGGTGGATGGTGGTATAATAGATGTCATGCAGCCAATCCAAACG
GCAGATACTACTGGGTGGACAGTACACCTGGGACATGGCAAAGCATGGCACAGATGATGGTGTAGTATG
GATGAATTGGAAGGGTCATGGTACTCAATGAGGAAGATGAGTATGAAGATCAGGCCCTTCTCCACAG
CAATAG
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005141 unedited</p> <pre>NCGGTCAGAAATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGACATGG CAAAGCATGGCACAGATGATGGTGTAGTATGGATGAATTGGCTGCATGACATCTATTATA CCACCATCCACCACCGTCTTCTTTAGAACACTGTTTTCTGGGATCTGATGTTAACAGCC GTCATTGTCTCTGTCATACGTGCTGAAGAACATGCCGTTGTGAATGGTCATGGTCCTGTT TTCTCCCATCAGCTGAGATGCTCCATCCATGAGGGCATTACCGGCTGTTCTCTGTATTT GTTCACTGAGATCTGGTATTTGTTGGCTTATTCTGTACAGTGAATCCTCCATAGTGAGC CTTTACTTTGTCTCCTTTCCAGTCTCCATTTCTATCAAAAGTTCTGTGGGTCCCATCCT GGTAAGCTGGCTAATTTTATCATTTCCTCAAGCCAATATTACCTGGTAGGCCACAGTAATT CTTCCCATCTGTGTTGGTTGCAACATTTCCAAATCCCTGTTTATATGGATCCCATTTCCT GCCAAAGTCAACACTACCGTCTTGACGGTCTGGTTTCTTGGAGCTTCCACAAACTTAA ACCATGAAACATCTATTATTGCTACTATTGTGTGTTTTTCTAGTTAAGTCCCAAGGTGC AACGACAATGAGGAGGGTTTCTCAGTGCCCGTGGTCATCGACCCCTTGACAAGAAGAGA GAGAAGCTCCCAGCCTGAGGCTGCCCCACCGCCATCAGTGGGAGTGGCTATCGGGCTC GTCCAGCCAAGCAGCTGCCACTCAANAAGTAGAAAGAAAAGCCCTGATGCTGNAGGCT GTCTTCACGCTGACCCANACCTGGGGGTGTTGTGCTCTACAGGATGTCAGTTGCAAG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005141 unedited</p> <pre>NTCTTACTTGNC CGCGCCGCAATCTANNGATCGGTTTTTTTTTTTTTTTTTTTTTTTATTG CAACAAAGTCTGGTTTAATTAATAAATCTTTTTGGAAGTTTTCTTTGACAGATCCTACAT AAATAAATATAGTTTTAAAAGTGGACTTTTAAACATCAGTTTTTCTTTCCGTCATGGTT TTCTACGACAAGGATAAAAAGACCCTCTTCTTATTTGAAAATCTCGCAATCAACTAG AACTGAAATTATGAACACCAACTCTGTCAAACTATACTTTTGTACTTCTTGGTGAGCA AGAGAAATGAAGAAAACAAAAGAAAATCATGTGCTATTTAATGTAATTTATCCTATACT TTTTTCAAAAAGTCACACTCACGCTGCTTGTGAGAGTTTTAGAGGAATATAATGTATGAAA GAAAATCCAATAACATAATGTACAAAATGTTGTACATACAGAAGAGCAAAAATCTAC GTATTGGGGACTATTGCTGTGGGAAGAAGGGCCTGATCTTCATACTCATCTTCTCATTG AGTACCATGACCCCTTCCAATTCATCCATACTACACCATCATCTGTGCCATGCTTTGCCA TGTCACAGGTGTACTGTCCACCCAGTAGATCTGCTGAAATAGGGNCCCCCTTCCNCC ACTTATTTTACCACCCCTTCCCACCCCGTTTTTTTTTAAAACACTGTTTTCTTGGGATCT GATGTTAACCCAGCCGTCATTGTCTCTGGCATACTGCTGAAGAACATGCCTTGTGAATG GCATGGCCCTGTTTTCTCCCTCAGCTGAGATGCTCATCCATGAGGCATTACCGGCTGTTC CTCTGATTTGTCACTGAAATCTGTTATTGTTGGCTTCTTCTGTACATGAATCCTCCATA NGAGCCTTACTTGNCTCCTTTTACGCTCCTTTTATCAAAAGTCTGGGGC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005141
Insert Size:	2570 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_005141.2](#), [NP_005132.2](#)

RefSeq Size: 1949 bp

RefSeq ORF: 1476 bp

Locus ID: 2244

UniProt ID: [P02675](#)

Cytogenetics: 4q31.3

Domains: FBG

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Complement and coagulation cascades

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 (1) represents the longer transcript and encodes the longer 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.