

Product datasheet for **SC314840**

Fibrinogen alpha chain (FGA) (NM_000508) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibrinogen alpha chain (FGA) (NM_000508) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGA
Synonyms:	Fib2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



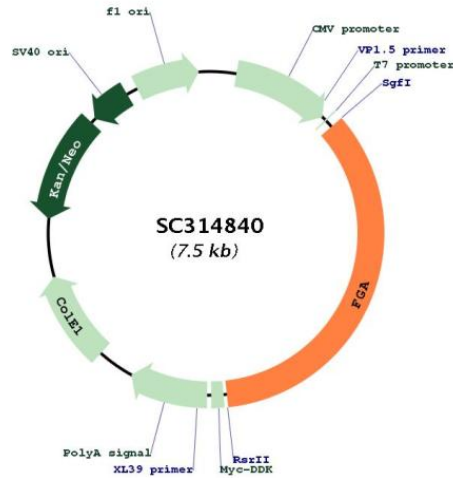
[View online »](#)

Fully Sequenced ORF: >SC314840 representing NM_000508.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTTTCCATGAGGATCGTCTGCCTGGTCCTAAGTGTGGTGGGCACAGCATGGACTGCAGATAGTGGT
GAAGTGACTTTCTAGCTGAAGGAGGCGCTGCGTGGCCCAAGGTTGTGGAAGACATCAATCTGCC
TGCAAAGATTCAGACTGGCCCTTCTGCTCTGATGAAGACTGGAACATAAATGCCCTTCTGGCTGCAGG
ATGAAAGGGTTGATTGATGAAGTCAATCAAGATTTTACAAACAGAATAAAATAAGCTCAAAAAATCTACTA
TTTGAATATCAGAAGAACAATAAGGATTCTCATTGCTGACCACTAATATAATGGAAATTTTGAGAGGC
GATTTTTCTCAGCCAATAACCGTGATAATACCTACAACCGAGTGTGAGAGGATCTGAGAAGCAGAATT
GAAGTCTGAAGCGCAAAGTCATAGAAAAAGTACAGCATATCCAGCTTCTGCAGAAAAATGTTAGAGCT
CAGTTGGTTGATGAAACGACTGGAGGTGGACATTGATTAAGATCCGATCTGTGCGAGGGTCATGC
AGTAGGGCTTTAGCTCGTGAAGTAGATCTGAAGGACTATGAAGATCAGCAGAAGCAACTGAAACAGGTC
ATTGCCAAAGACTTACTCCCTCTAGAGATAGGCAACACTTACCCTGATAAAAATGAAACAGTCCCA
GACTTGGTTCCTCGAAATTTTAAGAGCCAGCTTCAAGAGTACCCCAAGAGTGAAGGCATTAACAGAC
ATGCCGCAGATGAGAATGGAGTTAGAGAGACCTGGTGGAAATGAGATTACTCGAGGAGGCTCCACCTCT
TATGGAACCGGATCAGAGACGGAAGCCCAAGAACCTAGCAGTGTGGAAGCTGGAACCTGAGGAGC
TCTGGACCTGGAAGTACTGGAACCGAAACCTGGGAGCTCTGGGACTGGAGGGACTGCAACCTGGA
CCTGGGAGCTCTGGACCTGGAAGTACTGGAAGCTGGAACCTGGGAGCTCTGGAACCTGGAAGTACTGGA
AACCAAAACCTGGGAGCCCTAGACCTGGTAGTACCGAACCTGGAATCCTGGCAGCTCTGAACCGGGA
AGTGTGGGCACTGGACCTCTGAGAGCTCTGTATCTGGTAGTACTGGACAATGGCACTGTAATCTGGA
AGTTTTAGGCCAGATAGCCAGGCTCTGGGAACCGAGGCTTACAACCCAGACTGGGGCACATTTGAA
GAGGTGTGAGGAAATGTAAGTCCAGGGACAAGGAGAGAGTACCACACAGAAAAACTGGTCACTTCTAAA
GGAGATAAAGAGCTCAGGACTGGTAAAGAGAAGGTCACCTCTGGTAGCACAACCACCGCGTCTTCA
TGCTCTAAAACCGTTACTAAGACTGTTATTGGTCTGATGGTCACAAAGAAGTTACCAAGAAGTGGTG
ACCTCCGAAGATGGTTCTGACTGTCCCAGGCAATGGATTTAGGCACATTGTCTGGCATAGGTAAGTCTG
GATGGGTTCCGCCATAGGCACCCTGATGAAGCTGCCTTCTCGACACTGCCTCAACTGAAAAACATTC
CCAGGTTTCTTCTCACCTATGTTAGGAGAGTTTGTGAGTACTGAGTCTAGGGGCTCAGAATCTGGC
ATCTTCACAAATACAAAGGAATCCAGTTCTCATCACCTGGGATAGCTGAATCCCTTCCCGTGGTAAA
TCTTCAAGTTACAGCAAACAATTTACTAGTAGCAGGATTACAACAGAGGAGACTCCACATTTGAAAGC
AAGAGCTATAAAATGGCAGATGAGGCCGGAAGTGAAGCCGATCATGAAGGAACACATAGCACCAAGAGA
GGCCATGCTAAATCTCGCCCTGTGAGAGACTGTGATGATGTCCTCCAAACACATCCTTCAGTACCCAA
AGTGGCATTTCATATCAAGCTACCGGATCCAGTAAGATTTTTTCTGTTTATTGCGATCAAGAGACC
AGTTTGGGAGGATGGCTTTTGTCCAGCAAAGAATGGATGGATCACTGAATTTTAAACCGGACCTGGCAA
GACTACAAGAGAGGTTTCGGCAGCCTGAATGACGAGGGGAAGGAGAATTCTGGCTAGGCAATGACTAC
CTCCACTACTAACCCAAAGGGGCTCTGTTCTTAGGGTTGAATTAGAGGACTGGGCTGGGAATGAAGCT
TATGCAGAATACACTTCCGGTAGGCTCTGAGGCTGAAGGCTATGCCCTCCAAGTCTCCTCCTATGAA
GGCACTGCGGGTGATGCTCTGATTGAGGGTTCCGTAGAGGAAGGGGCAGAGTACACCTCTCACAACAAC
ATGCAGTTACGACCTTTGACAGGGATGCAGACCAGTGGGAAGGAAGTGTGCAGAAGTCTATGGGGGA
GGCTGGTGGTATAATAACTGCCAAGCAGCAATCTCAATGGAATCTACTACCCTGGGGGCTCCTATGAC
CCAAGGAATAACAGTCTTATGAGATTGAGAATGGAGTGGTCTGGGTTTCTTTAGAGGGGCAGATTAT
TCCCTCAGGGCTGTTGCGATGAAAATTAGGCCCTTGTGACCCAA TAG
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
```

Restriction Sites: SgfI-RsrII

Plasmid Map:


ACCN: NM_000508

Insert Size: 2601 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:

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_000508.4](#)

RefSeq Size: 3692 bp

RefSeq ORF: 2601 bp

Locus ID: 2243

UniProt ID: [P02671](#)

Cytogenetics: 4q31.3

Domains:	FBG
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
MW:	95 kDa
Gene Summary:	<p>This gene encodes the alpha subunit of the coagulation factor fibrinogen, which is a component of the blood clot. Following vascular injury, the encoded preproprotein is proteolytically processed by thrombin during the conversion of fibrinogen to fibrin. Mutations in this gene lead to several disorders, including dysfibrinogenemia, hypofibrinogenemia, afibrinogenemia and renal amyloidosis. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (alpha-E) represents the longer transcript and encodes the longer isoform (alpha-E). 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.</p>