

Product datasheet for **SC304677**

Factor XI (F11) (NM_019559) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Factor XI (F11) (NM_019559) Human Untagged Clone
Tag:	Tag Free
Symbol:	Factor XI
Synonyms:	coagulation factor XI; FXI; FXI, MGC141891; MGC141891; plasma thromboplastin antecedent; platelet coagulation factor XI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_019559, the custom clone sequence may differ by one or more nucleotides

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ATGATTTTCTTATATCAAGTGGTACATTTCAATTTATTTACTTCAGTTTCTGGTGAATGTGTGACTCAGT
TGTTGAAGGACACCTGCTTTGAAGGAGGGGACATTACTACGGTCTTCACACCAAGCGCCAAGTACTGCCA
GGTAGTCTGCACTTACCACCCAAGATGTTTACTCTTCACTTTACGGCGGAATCACCATCTGAGGATCCC
ACCCGATGGTTTACTTGTGTCCTGAAAGACAGTGTACAGAAACACTGCCAAGAGTGAATAGGACAGCAG
CGATTTCTGGGTATTCTTTCAAGCAATGCTCACACCAAATAAGTAACATTTGTCTACTGAAGCACACCCA
AACAGGGACACCAACCAGAATAACGAAGCTCGATAAAGTGGTGTCTGGATTTTCACTGAAATCCTGTGCA
CTTTCTAATCTGGCTTGTATTAGGGACATTTCCCTAATACGGTGTTCGAGACAGCAACATCGACAGTG
TCATGGCTCCCGATGCTTTTGTCTGTGGCCGAATCTGCACTCATCATCCCGTGTCTGTTTTTACCTT
CTTTCCAGGAATGGCCAAAGAATCTCAAAGAAATCTTTGTCTCCTTAAACATCTGAGAGTGGATTG
CCCAGTACACGCATTAAGAGCAAAGCTCTTTCTGGTTTCAGTCTACAAAGCTGCAGGCACAGCATCC
CAGTGTCTGCCATTCTCATTTTACCATGACACTGATTTCTGGGAGAAGAAGTGGATATTGTTGCTGC
AAAAAGTCACGAGGCCTGCCAGAAACTGTGCACCAATGCCGTCCGCTGCCAGTTTTTACCTATACCCCA
GCCAAGCATCCTGCAACGAAGGGAAGGCAAGTGTACTTAAAGCTTTCTTCAAACGGATCTCCAACTA
AAATACTTACGGGAGAGGAGGCATCTCTGGATACACATTAAGTTGTGTAAAATGGATAATGAGTGTAC
CACCAAAATCAAGCCCAGGATCGTTGGAGGAAGTGCCTGTCTGTTGGTGTGAGTGGCCGTGGCAGGTGACC
CTGCACACAACCTCACCACTCAGAGACACCTGTGTGGAGGCTCCATCATTGAAACCAAGTGGATATTA
CAGCCGCTCACTGTTTCTATGGGTAGAGTCACCTAAGATTTTGGTGTCTACAGTGGCATTTTAAATCA
ATCTGAAATAAAGAGGACACATCTTTCTTTGGGGTTCAAGAAATAATAATCCATGATCAGTATAAAATG
GCAGAAAGCGGGTATGATATTGCCTTGTGAAACTGGAACACAGTGAATTACACAGATTCTCAACGAC
CCATATGCCTGCCTTCCAAGGAGATAGAAATGTAATATACACTGATTGCTGGGTGACTGGATGGGGGTA
CAGAAAATAAGAGACAAAATACAAAATACTCTCCAGAAAGCCAAGATACCCCTTAGTGACCAACGAAGAG
TGCCAGAAGAGATACAGAGGACATAAAAATAACCCATAAGATGATCTGTGCCGGCTACAGGGAAGGAGGA
AGGACGCTTGAAGGGAGATTCCGGAGGCCCTCTGCTCCTGCAACACAATGAGGTCTGGCATCTGGTAGG
CATCACGAGCTGGGGCAAGGCTGTGCTCAAAGGGAGCGGCCAGGTGTTTACACCAACGTGGTTCGAGTAC
GTGGACTGGATTCTGGAGAAAATAAGCAGTGTGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_019559
- Insert Size:** 2000 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_019559.1](#), [NP_062505.1](#)

RefSeq Size: 3116 bp

RefSeq ORF: 2055 bp

Locus ID: 2160

Cytogenetics: 4q35.2

Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Complement and coagulation cascades

Gene Summary: This gene encodes coagulation factor XI of the blood coagulation cascade. This protein is present in plasma as a zymogen, which is a unique plasma coagulation enzyme because it exists as a homodimer consisting of two identical polypeptide chains linked by disulfide bonds. During activation of the plasma factor XI, an internal peptide bond is cleaved by factor XIIa (or XII) in each of the two chains, resulting in activated factor XIa, a serine protease composed of two heavy and two light chains held together by disulfide bonds. This activated plasma factor XI triggers the middle phase of the intrinsic pathway of blood coagulation by activating factor IX. Defects in this factor lead to Rosenthal syndrome, a blood coagulation abnormality. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) represents the shorter variant, compared to variant 1. The resulting isoform (b) is shorter than isoform a, encoded by variant 1.