

Product datasheet for **SC109207**

Factor XI (F11) (NM_000128) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Factor XI (F11) (NM_000128) Human Untagged Clone
Tag:	Tag Free
Symbol:	Factor XI
Synonyms:	FXI; PTA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109207 sequence for NM_000128 edited (data generated by NextGen Sequencing)

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ATGATTTTCTTATATCAAGTGGTACATTTCAATTTATTTACTTCAGTTTCTGGTGAATGT
GTGACTCAGTTGTTGAAGGACACCTGCTTTGAAGGAGGGGACATTACTACGGTCTTCACA
CCAAGCGCCAAGTACTGCCAGGTAGTCTGCACTTACCACCCAAGATGTTTACTCTTCACT
TTCACGGCGGAATCACCATCTGAGGATCCCACCCGATGGTTTACTTGTGTCTGAAAGAC
AGTGTTACAGAAACACTGCCAAGAGTGAATAGGACAGCAGCGATTTCTGGGTATTTCTTC
AAGCAATGCTCACACCAATAAGCGCTTGCAACAAAGACATTTATGTGGACCTAGACATG
AAGGGCATAAACTATAACAGCTCAGTTGCCAAGAGTGCTCAAGAATGCCAAGAAAGATGC
ACGGATGACGTCCACTGCCACTTTTTACGTACGCCACAAGGCAGTTTCCAGCCTGGAG
CATCGTAACATTTGTCTACTGAAGCACACCCAAACAGGGACACCAACCAGAATAACGAAG
CTCGATAAAGTGGTGTCTGGATTTTCACTGAAATCCTGTGCACTTTCTAATCTGGCTTGT
ATTAGGGACATTTCCCTAATACGGTGTTCAGACAGCAACATCGACAGTGTATGGCT
CCCAGTCTTTTGTCTGTGGCCGAATCTGCACTCATCATCCCGTTGCTTGTTTTTTACC
TTCTTTTCCAGGAATGGCCAAAGAATCTCAAAGAAATCTTTGTCTCCTTAAAACATCT
GAGAGTGGATTGCCAGTACACGCATTAAGAAAGAGCAAAGCTCTTTCTGGTTTCACTCTA
CAAAGCTGCAGGCACAGCATCCCAGTGTTCGCCATTCTTCATTTTACCATGACACTGAT
TTCTTGGGAGAAGAAGTGGATATTGTTGCTGCAAAAAGTACAGAGGCCTGCCAGAAACTG
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CACGGGAGAGGAGGCATCTCTGGATACACATTAAGGTTGTGAAAATGGATAATGAGTGT
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TGGCAGGTGACCCTGCACACAACCTCACCCACTCAGAGACACCTGTGTGGAGGCTCCATC
ATTGAAAACCAAGTGGATATTAACAGCCGCTCACTGTTTCTATGGGGTAGAGTCACCTAAG
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TTTGGGGTTCAAGAAATAATAATCCATGATCAGTATAAAATGGCAGAAAGCGGGTATGAT
ATTGCCTTGTGAAACTGGAAACCACAGTGAATTACACAGATTCTCAACGACCCATATGC
CTGCCTTCCAAGGAGATAGAAATGTAATATACTGATTGCTGGGTGACTGGATGGGGG
TACAGAAAATAAGAGACAAAATACAAAATACTCTCCAGAAAGCCAAGATACCCTTAGTG
ACCAACGAAGAGTGCCAGAAGAGATACAGAGGACATAAAATAACCCATAAGATGATCTGT
GCCGGCTACAGGGAAGGAGGGAAGGACGCTTGCAAGGGAGATTGGGAGGCCCTCTGTCC
TGCAAACAATGAGGTCTGGCATCTGGTAGGCATCACGAGCTGGGGCGAAGGCTGTGCT
CAAAGGGAGCGCCAGGTGTTTACACCAACGTGGTTCGAGTACGTGGACTGGATTCTGGAG
AAAACCAAGCAGTGTGA
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Clone variation with respect to NM_000128.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000128 unedited NGGGCTGTCAGAATTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGCTCATT CAGAGGAGGATGAAGACCTTTTGGAGGAAGAAAACACCCTTATTAAGAATTGCAGCAAGT AAGCCAACAAGGTCTTTTCAGGATGATTTTCTTATATCAAGTGGTACATTTTCATTTTATT TACTTCAGTTTCTGGTGAATGTGTGACTCAGTTGTTGAAGGACACCTGCTTTGAAGGAGG GGACATTACTACGGTCTTCACACCAAGCGCCAAGTACTGCCAGGTAGTCTGCACCTACCA CCCAAGATGTTTACTCTTCACTTTACGCGGGAATCACCATCTGAGGATCCCACCCGATG GTTTACTTGTGTCTGAAAGACAGTGTTACAGAAACACTGCCAAGAGTGAATAGGACAGC AGCGATTCTGGGTATTCTTTCAAGCAATGCTCACACCAATAAGCGCTTGAACAAAGA CATTTATGTGGACCTAGACATGAAGGGCATAAACTATAACAGCTCAGTTGCCAAGAGTGC TCAAGAATGCCAAGAAAGATGCACGGATGACGTCCACTGCCACTTTTTCACGTACGCCAC AAGGCAGTTTCCCAGCTGGAGCATCGTAACATTTGTCTACTGAAGCACACCCAAACAGG GACACCAACCAGAATAACGAAGCTCNGATAAAGTGGTGTCTGGGATTTTCACTGANATCC TGTGCACTNTCTAATCTGGCTTGTATTAAGGACATTNTCCCTATACNGTGTTCGACAG AGCACATCGACAGTGTGTCATGGCTNCCCGATGCTTGTCTGTGGCCGAATCTGCACATCA TNCCGGNTGCTNGNTTTTACCTTNNCTTCCAGNAATGGCCCAAGATCTCAAGAATAC TTNGTC
Restriction Sites:	NotI-NotI
ACCN:	NM_000128
Insert Size:	2250 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:	<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_000128.2</u> , <u>NP_000119.1</u>
RefSeq Size:	2217 bp
RefSeq ORF:	1878 bp
Locus ID:	2160
UniProt ID:	<u>P03951</u>
Cytogenetics:	4q35.2
Domains:	APPLE, Tryp_SPc, PAN
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 (1) represents the longer transcript and encodes the longer isoform (1).