

Product datasheet for **SC120051**

Factor I (CFI) (NM_000204) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Factor I (CFI) (NM_000204) Human Untagged Clone
Tag:	Tag Free
Symbol:	Factor I
Synonyms:	AHUS3; ARMD13; C3b-INA; C3BINA; FI; IF; KAF
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 SC120051 sequence for NM_000204 edited (data generated by NextGen Sequencing)

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ATGAAGCTTCTTCATGTTTTCTGTTATTTCTGTGCTTCCACTTAAGGTTTTGCAAGGTC
ACTTATACATCTCAAGAGGATCTGGTGGAGAAAAAGTGCCTTAGCAAAAAATATACTCAC
CTCTCCTGCGATAAAGTCTTCTGCCAGCCATGGCAGAGATGCATTGAGGGCACCTGTGTT
TGTAACACTACCGTATCAGTGCCCAAAGAATGGCACTGCAGTGTGTGCAACTAACAGGAGA
AGCTTCCCACTACTGTCAACAAAAGAGTTTGGAAATGTCTTCATCCAGGGACAAAAGTTT
TTAAATAACGGAACATGCACAGCCGAAGGAAAGTTTAGTGTTCCTTGAAGCATGGAAAT
ACAGATTCAGAGGGAATAGTTGAAGTAAAACTTGTGGACCAAGATAAGACAATGTTTCATA
TGCAAAAGCAGCTGGAGCATGAGGGAAGCCAACGTGGCCTGCCTTGACCTTGGGTTTCAA
CAAGGTGCTGATACTCAAAGAAGGTTTAAAGTTGTCTGATCTCTATAAAATCCACTGAA
TGTCTACATGTGCATTGCCGAGGATTAGAGACCAGTTTGGCTGAATGTACTTTTACTAAG
AGAAGAATATGGGTTACCAGGATTTTCGCTGATGTGGTTTGTATACACAGAAAGCAGAT
TCTCCAATGGATGACTTCTTTCAGTGTGTGAATGGGAAATACATTTCTCAGATGAAAGCC
TGTGATGGTATCAATGATTGTGGAGACCAAGTATGAATGTGTGTAAGCATGCCAA
GGCAAAGGCTTCCATTGCAAATCAGGTGTTTGCATTCCAAGCCAGTATCAATGCAATGGT
GAGGTGGACTGCATTACAGGGGAAGATGAAGTTGGCTGTGCAGGCTTTGCATCTGTGGCT
CAAGAAGAAACAGAAATTTTACTGCTGACATGGATGCAGAAAGAAGACGGATAAAATCA
TTATTACCTAAACTATCTTGTGGAGTTAAAAACAGAATGCACATTCGAAGGAAACGAATT
GTGGGAGGAAAGCGAGCACAACCTGGGAGACCTCCCATGGCAGGTGGCAATTAAGGATGCC
AGTGGAAATCACCTGTGGGGGAATTTATATTGGTGGCTGTGGATTCTGACTGCTGCACAT
TGCTCTCAGAGCCAGTAAACTCATCGTTACCAAATATGGACAACAGTAGTAGACTGGATA
CACCCCGACCTTAAACGTATAGTAATTGAATACGTGGATAGAATATTTTTCCATGAAAC
TACAATGCAGGCACTTACCAAAATGACATCGCTTTGATTGAAATGAAAAAGACGGAAAC
AAAAAAGATTGTGAGCTGCCTCGTTCCATCCCTGCCTGTGCCCTGGTCTCCTTACCTA
TTCCAACCTAATGATACATGCATCGTTTCTGGCTGGGACGAGAAAAAGATAACGAAAGA
GTCTTTTCACTTCAGTGGGGTGAAGTTAACTAATAAGCAACTGCTCTAAGTTTTACGGA
AATCGTTTCTATGAAAAAGAAATGGAATGTGCAGGTACATATGATGGTTCCATCGATGCC
TGTAAGGGGACTCTGGAGGCCCTTAGTCTGTATGGATGCCAACATGTGACTTATGTC
TGGGGTGTGTGAGTTGGGGGAAAACGTGGAAAACCAGAGTCCAGGTGTTTACACC
AAAGTGGCCAATATTTTACTGGATTAGCTACCATGTAGGAAGGCTTTTATTTCTCAG
TACAATGTATAA
    
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Clone variation with respect to NM_000204.3
804 g=>a

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000204 unedited

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NGGGGTCACCATTGTATACGACTCCTATAGGCGGCCCGGAATTCGACCAGNAGAAAA
ANACCCCGACACCTCCAACATGAACTTCTTCATGTTTTCTGTTATTTCTGTGCTTCCAC
TTAAGGTTTTGCAAGGTCACTTATACATCTCAAGAGGATCTGGTGGAGAAAAAGTCTTA
GCAAAAAAATATACTCACCTCTCCTGCGATAAAGTCTTCTGCCAGCCATGGCAGAGATGC
ATTGAGGGCACCTGTGTTTGTAACTACCGTATCAGTGCCCAAAGAATGGCACTGCAGTG
TGTGCAACTAACAGGAGAAGCTTCCAACATACTGTCAACAAAAGAGTTTGAATGTCTT
CATCCAGGGACAAAGTTTTTAAATAACGGAACATGCACAGCCGAAGGAAAGTTTAGTGT
TCCTTGAAGCATGAAAATACAGATTCAGAGGGAATAGTTGAAGTAAAACCTGTGGACCA
GATAAGACAATGTTTCATATGCAAAAGCAGCTGGAGCATGAGGGAAGCCAACGTGGCTGC
CTTGACCTTGGGTTTCAACAAGGTGCTGATACTCAAAGAAGTTTAAAGTTGTCTGATCTC
TCTATAAATCCACTGAATGTCTACATGTGCATTGCCGAGGATTAGAGACCAGTTTGGCT
GAATGTACTTTTACTAAGAGAAGAACTATGGGTTACCAGGATTTTCGCTGATGTGGTTTTG
TTATACACAGAAAGCAGATTTCCAATGGATGACTTCTTTCAGTGTGTGAATGGGAAATA
CATTTCTCAGATGAAAGCCTGTGATGTTATCAATGATTGTGGAGACCAATGATGAACTG
TGTTGTAACATGCCAAGGCAAAGCTTCCATTGCAAATAGGGGTTTGCATTCCAGCA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000204 unedited NTTTAGCTTGNACCCGCGGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTT TATGCTTCACCAAANATATTTATTTGAGAATTATACAACAAAATCCAATATGGCATAAA CTCTGTGGAGACCTTTAAAAATATCCAATGAGATTTGCTTCATTTTTCCCCCTAGAGAA TTATTAATTATACCGTTTTATTTCCATTAATGGAACCTTGAGAGAAAAAGAATAGAAT GAAGAGAGAGATCACAATTTTATACATTGTAAGTAAAGGAACTTTGAGAGAAAAAGAATAGAAT AGCTAATCCAGTCAAAAATAATTGGCCACTTTGGTGTAAACACCTGGGAACCTCTGGTTTTC CACAGTTTTTCCCCCAACTCACAAACACCCAGACATAAGTCACATTGTTGGCATCCATAC AGACTAAGGGGCCTCCAGAGTCCCCTTTACAGGCATCGATGGAACCATCATATGTACCTG CACATTCCATTTCTTTTTCATAGAAACGATTTCCGTAACACTTAGAGCAGTTGCTTATTA GTTTAACTTCACCCCACTGAAGTAAAAGACTCTTTTCGTTATCTTTTTCTCGTCCCAGC CAGAAACGATGCATGTATCATTAGGTTGGAATAGGTAAGGAGACCAGGGGACACAGGCAG GGATGGAACGAGGCAGCTCACAATCTTTTTGTTCCGCTTTTTTCATTTCAATCAAAG CGATGTCATTTTGGTAAGTGCCTGCATTGTAGTTTTTCATGAAAATAATTCTATCCACGT ATTCAACTACTATACGTTTAAAGGTCGGGGTGTATCCAGTCTACTACTGTTGTCCATATTT GGTACGATGAGTTTTACTGGCTCTGAGNACATGTGCAGCAGTCAGAATCCACAGCCACCC ATATAATCCCCACAGGTGATNCACTGGCATNCTTAATGCCCTGCATGGAA
Restriction Sites:	NotI-NotI
ACCN:	NM_000204
Insert Size:	2260 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_000204.1</u> , <u>NP_000195.1</u>
RefSeq Size:	1963 bp
RefSeq ORF:	1752 bp
Locus ID:	3426
UniProt ID:	<u>P05156</u>
Cytogenetics:	4q25
Domains:	SR, Tryp_SPC, ldl_recept_a, FIMAC

Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<p>This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uremic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immune deposits and age-related macular degeneration are other conditions associated with mutations of this gene. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (2) encodes isoform 2.</p>