

## Product datasheet for SC110888

### Tissue Factor (F3) (NM\_001993) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tissue Factor (F3) (NM_001993) Human Untagged Clone
Tag:	Tag Free
Symbol:	Tissue Factor
Synonyms:	CD142; TF; TFA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110888 sequence for NM_001993 edited (data generated by NextGen Sequencing)

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ATGGAGACCCCTGCCTGGCCCCGGTCCCAGCCCCGAGACCCCGTCGCTCGGACGCTC
CTGCTCGGCTGGTCTTCGCCCAGGTGGCCGGCGCTTCAGGCACTACAAATACTGTGGCA
GCATATAATTTAACTTGGAAATCAACTAATTTCAAGACAATTTGGAGTGGGAACCCAAA
CCCGTCAATCAAGTCTACTGTCAAATAAGCACTAAGTCAGGAGATTGAAAAGCAAA
TGCTTTTACACAACAGACACAGAGTGTGACCTCACCGACGAGATTGTGAAGGATGTGAAG
CAGACGTACTTGGCACGGGTCTTCTCCTACCCGGCAGGGAATGTGGAGAGCACCGTTCT
GCTGGGGAGCCTCTGTATGAGAACTCCCAGAGTTCACACCTTACCTGGAGACAAACCTC
GGACAGCCAACAATTCAGAGTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAGAA
GATGAACGGACTTTAGTCAGAAGGAACAACACTTTCCTAAGCCTCCGGGATGTTTTGGC
AAGGACTTAATTTATACACTTTATTATTGGAAATCTTCAAGTTCAGGAAAGAAAACAGCC
AAAACAAACACTAATGAGTTTTTATTGATTGATGTGGATAAAGGAGAAAACACTGTTTCAGT
GTTCAAGCAGTGATTCCTCCCAGACAGTTAACCGGAAGAGTACAGACAGCCCGGTAGAG
TGTATGGGCCAGGAGAAAGGGGAATTCAGAGAAATATTCTACATCATTGGAGCTGTGGTA
TTTGTGGTCATCATCCTTGTGTCATCATCTGGCTATATCTCTACACAAGTGTAGAAAGGCA
GGAGTGGGGCAGAGCTGGAAGGAGAACTCCCCTGAATGTTTCATAA

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Clone variation with respect to NM\_001993.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001993 unedited  
 TACTATAGGGNCGGCACGCGCAATTCGGCACGAGGCCCGCACCCCTCGCACTCCCTCTG  
 GCCGGCCAGGGCGCCTTCAGCCCAACCTCCCCAGCCCCACGGGCGCCACGGAACCCGCT  
 CGATCTCGCCGCAACTGGTAGACATGGAGACCCTGCCCTGGCCCCGGTCCCAGCGCCC  
 GAGACCCCGTCGCTCGGACGCTCCTGCTCGGCTGGGTCTCGCCAGGTGGCCGGCGCT  
 TCAGGCACTACAATACTGTGGCAGCATATAATTTAACTTGAAATCAACTAATTTCAAG  
 ACAATTTTGGAGTGGAAACCCAAACCCGTCATCAAGTCTACACTGTTCAAATAAGCACT  
 AAGTCAGGAGATTGGAAAAGCAAATGCTTTTACACAACAGACACAGAGTGTGACCTCACC  
 GACGAGATTGTGAAGGATGTGAAGCAGACGTACTTGGCACGGGTCTTCTCTACCCGGCA  
 GGGAAATGTGGAGAGCACCGTCTGCTGGGGAGCCTCTGTATGAGAACTCCCAGAGTTC  
 ACACCTTACCTGGAGACAAACCTCGGACAGCCAACAATTCAGAGTTTTGAACAGGTGGGA  
 ACAAAAAGTGAATGTGACCGTAGAAGATGAACGGACTTTAGTCAGAAGGAACAACACTTTC  
 CTAAGCCTCCGGGATGTTTTGGCAGGACTTAATTTATACACTTTATTATTGGAAAATC  
 TCAAGTTCAGGAAAGAAAACAGCCAANACAAACACTAATGAGTTTTTATTGATGTGGAT  
 AAAGGAGAACTACTGNNTTCAGTGTCAAGCAGTGATTCCTCCCGACAGTTAACCGNAG  
 ATACAGACGCCCGGTAGATGTATGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001993 unedited  
 AGCTATGGACCGCGCCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTACAATCCAGTCACCTTTATTTAAAGTATATTAATAAATTATCTCAATATATA  
 CAAATAGAACAATATTACCTACATAAATAGAAAATCCCCATATAGAAAACCTTTTTAAAA  
 AATTATATACAAATGTCAACCATAGAAGCTTTAAGTACCTTAAATCATAAACTCTGTAG  
 TTTGTATAGTAGTCTTATAAAAAATATAGTTAGCTCTCAAATGTTAAGGCCACTTAAGTC  
 AGTTAAAGGGCAGATTGTAAGCATATTAGGAAGGTGCCAGAAATACCAATGTCTCCTGC  
 ACTTAACACATTAATACAAAGTTTGCCAATGTTTTGAATTTCCAAATGTATCCCTGAAA  
 AAAAAAGAACCTAAACACTATATTATAGACATACGTTAGAAAAGTCTAGAAATGCACC  
 CAATTTCTTCCATTTTACTTTCTACACGGATTGAAGCCAGCCCTCAAAGCTTTTTCG  
 GCTGGGCATGGTGGTTCACGCCATAATACTAGCACTTTGGGAGGCCAAGGTGGGTGGAT  
 CAACTGAGGTCAGGAATCAAGACCAGCCTGGCCAAGATGGCGAAACCCCATCTCTACC  
 TAAAAAATACAAAAATTAGCCTGGCGTGGTAGTGCGCACCTGGAATCCCAGTACTCGG  
 GGAGGCTGAGGCAGACAATTGCTTTGACCCCCAGAGACGGAGGGTGCAGTGGAGCCAGAG  
 ATCGGGCTACTGCACTTCAACCGGGGCAAAAGAGCAAGAATCCGTCTAAAAAAAAAAAA  
 AAAAAAGGCTTTTAAAGGCCACCAAGAATTTTAAAGAAATTTCCCTTTGTTTTGCTGGAAG  
 ACCGCTACCTCTGGGCGGAAAAAATTTAAGCCGTTATGGCAAAGAGCCAGGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001993

**Insert Size:**

2240 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_001993.2](#), [NP\\_001984.1](#)

**RefSeq Size:** 2153 bp

**RefSeq ORF:** 888 bp

**Locus ID:** 2152

**UniProt ID:** [P13726](#)

**Cytogenetics:** 1p21.3

**Domains:** Tissue\_fac

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Complement and coagulation cascades

**Gene Summary:**

This gene encodes coagulation factor III which is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces, for example, on monocytes. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. Platelets and monocytes have been shown to express this coagulation factor under procoagulatory and proinflammatory stimuli, and a major role in HIV-associated coagulopathy has been described. Platelet-dependent monocyte expression of coagulation factor III has been described to be associated with Coronavirus Disease 2019 (COVID-19) severity and mortality. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described. Alternate splicing results in multiple transcript variants.[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.