

Product datasheet for RC203142

Tissue Factor (F3) (NM_001993) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tissue Factor (F3) (NM_001993) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tissue Factor
Synonyms:	CD142; TF; TFA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203142 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCCCTGCCTGGCCCCGGTCCCAGCCCGAGACCGCCGCTCGCTCGGACGCTCCTGCTCGGCT
GGGTCTTCGCCAGGTGGCCGGCCTTCAGGCACTACAAATACTGTGGCAGCATATAATTTAACTGGAA
ATCAACTAATTTCAAGACAATTTGGAGTGGGAACCCAAACCCGTCATCAAGTCTACACTGTTCAAATA
AGCACTAAGTCAAGGATTTGAAAAGCAAATGCTTTACACAACAGACACAGAGTGTGACCTCACCGACG
AGATTGTAAGGATGTGAAGCAGACGTAAGTGGCAGGGTCTTCTCTACCCGGCAGGGAATGTGGAGAG
CACCGGTTCTGCTGGGGAGCCTCTGTATGAGAATCCCCAGAGTTCACACCTTACCTGGAGACAAACCTC
GGACAGCCAACAATTCAGAGTTTGAACAGGTGGGAACAAAAGTGAATGTGACCGTAGAAGATGAACGGA
CTTTAGTCAGAAGGAACAACACTTTCTAAGCCTCCGGGATGTTTTGGCAAGGACTTAATTTATACACT
TTATTATTGGAAATCTTCAAGTTCAGGAAAGAAAACAGCCAAAACAACTAATGAGTTTTTGATTGAT
GTGGATAAAGGAGAAAATACTGTTTCAGTGTTCAGCAGTGTCCCTCCCGAAGGTTAACCGGAAGA
GTACAGACAGCCCGGTAGAGTGTATGGCCAGGAGAAAGGGAATTCAGAGAAAATATTCTACATCATTGG
AGCTGTGGTATTTGTGGTCATCATCCTTGTGTCATCATCTGGCTATATCTCTACACAAGTGTAGAAAGGCA
GGAGTGGGGCAGAGCTGGAAGGAGAATCCCACTGAATGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203142 protein sequence
Red=Cloning site Green=Tags(s)

METPAWPRVPRPETAVARTLLLGWVFAQVAGASGTTNTVAAYNL TWKSTNFKTILEWEPKPVNQVYTVQI
 STKSGDWKSKCFYTTDTECDL TDEIVKDVKQTYLARVFSYPAGNVESTGSAGEPLYENSPEFTPYLETNL
 GQPTIQSFEQVGTKVNVTVEDERTL VRRNNTFLSLRDVFGKDLIYTLYYWKSSSSGKKTAKTNTNEFLID
 VDKGENYCF SVQAVIPSRTVNRKSTDSPVECMGQEKGEFREIFYIIGAVVFVVIILVIIAISLHKCRKA
 GVGQSWKENSPLNVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6280_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001993

ORF Size: 885 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001993.5](#)

RefSeq Size: 2393 bp

RefSeq ORF: 888 bp

Locus ID: 2152

UniProt ID: [P13726](#)

Cytogenetics: 1p21.3

Domains: Tissue_fac

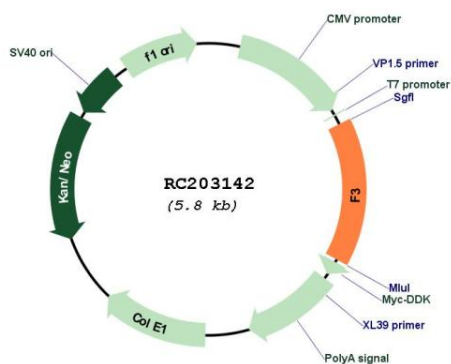
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Complement and coagulation cascades

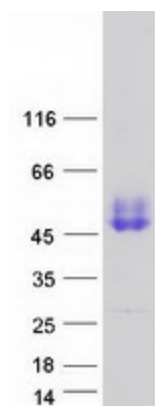
MW: 33.1 kDa

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]

Product images:



Circular map for RC203142



Coomassie blue staining of purified F3 protein (Cat# [TP303142]). The protein was produced from HEK293T cells transfected with F3 cDNA clone (Cat# RC203142) using MegaTran 2.0 (Cat# [TT210002]).