

Product datasheet for **RG202098**

TFPI (NM_001032281) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFPI (NM_001032281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFPI
Synonyms:	EPI; LACI; TFI; TFPI1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202098 representing NM_001032281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTTACACAATGAAGAAAGTACATGCACTTTGGGCTTCTGTATGCCTGCTGCTTAATCTTGCCCTG
CCCCTCTAATGCTGATTCTGAGGAAGATGAAGAACACACAATTATCACAGATACGGAGTTGCCACCACT
GAACTTATGCATTCATTTGTGCATTCAAGCGGATGATGGCCCATGTAAGCAATCATGAAAAGATT
TTCTTCAATATTTCACTCGACAGTGCGAAGAATTTATATATGGGGATGTGAAGGAAATCAGAATCGAT
TTGAAAGTCTGGAAGAGTGCAAAAAATGTGTACAAGAGATAATGCAAACAGGATTATAAAGACAACATT
GCAACAAGAAAAGCCAGATTTCTGCTTTTTGGAAGAAGATCCTGGAATATGTCGAGGTTATATTACCAGG
TATTTTTATAACAATCAGACAAAACAGTGTGAACGTTTCAAGTATGGTGGATGCCTGGGCAATATGAACA
ATTTTGAGACACTGGAAGAATGCAAGAACATTTGTGAAGATGGTCCGAATGGTTTCCAGGTGGATAATTA
TGAACCCAGCTCAATGCTGTGAATAACTCCCTGACTCCGCAATCAACCAAGGTTCCAGCTTTTGT
ACAAAAGAAGGAACAAATGATGGTTGGAAGAATGCGGCTCATATTTACCAAGTCTTTCTGAACGCCTTCT
GCATTCATGCATCCATGTTCTTTCTAGGATTGGATAGCATTTCATGCCTATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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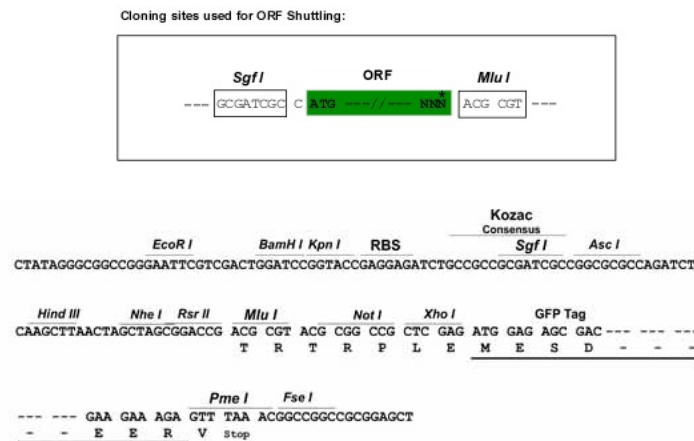
Protein Sequence: >RG202098 representing NM_001032281
 Red=Cloning site Green=Tags(s)

MIYTMKKVHALWASVCLLLNLAPLNADSEDEEHTIITDELPLPLKLMHSFCAFKADDGPCKAIMKRF
 FFNIFTRQCEEF IYGGCEGNQRFESLEECKMCTRDNANRI IKTTLQQEKPDFCFLEEDPGICRGYITR
 YFYNNQTKQ CERFKYGGCLGNMNNFETLEECKNICEDGPNGFQVDNYGTQLNAVNNSLTPQSTKVP SLFV
 TKEGTNDGWKNAAHYQVFLNAFCIHASMFLLGLDSISCLC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001032281

ORF Size: 753 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_001032281.3](#), [NP_001027452.1](#)

RefSeq Size: 1166 bp

RefSeq ORF: 756 bp

Locus ID: 7035

UniProt ID: [P10646](#)

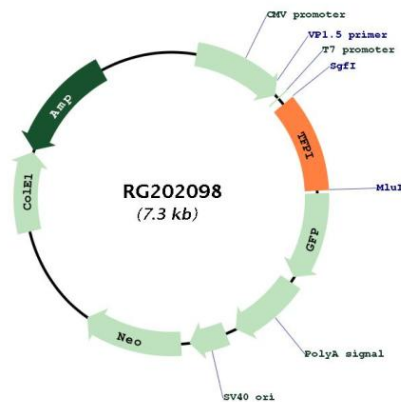
Cytogenetics: 2q32.1

Protein Families: Secreted Protein

Protein Pathways: Complement and coagulation cascades

Gene Summary: This gene encodes a Kunitz-type serine protease inhibitor that regulates the tissue factor (TF)-dependent pathway of blood coagulation. The coagulation process initiates with the formation of a factor VIIa-TF complex, which proteolytically activates additional proteases (factors IX and X) and ultimately leads to the formation of a fibrin clot. The product of this gene inhibits the activated factor X and VIIa-TF proteases in an autoregulatory loop. Inhibition of the encoded protein restores hemostasis in animal models of hemophilia. This gene encodes multiple protein isoforms that differ in their inhibitory activity, specificity and cellular localization. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG202098