

## Product datasheet for **RG202760**

### TFPI2 (NM\_006528) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TFPI2 (NM_006528) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFPI2
Synonyms:	PP5; REF1; TFPI-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202760 representing NM_006528 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCCGCTCGCCCCCTGGGGCTGTCGATTCTGCTGCTTTTCCTGACGGAGGCTGCACTGGCGGATG  
CTGCTCAGGAGCCAACAGGAAATAACGCGGAGATCTGTCTCCTGCCCTAGACTACGGACCCTGCCGGC  
CCTACTTCTCCGTTACTACTACGACAGGTACACGCAGAGCTGCCGCCAGTTCCTGTACGGGGCTGCGAG  
GGCAACGCCAACAATTTCTACACCTGGGAGGCTTGGCAGCATGCTTGCTGGAGGATAGAAAAAGTCCCA  
AAGTTTCCCGGCTGCAAGTGAGTGTGGACGACCAGTGTGAGGGTCCACAGAAAAGTATTTCTTTAATCT  
AAGTTCCATGACATGTGAAAAATTTCTTTCCGGTGGGTGTACCCGAACCGGATTGAGAACAGGTTTCCA  
GATGAAGCTACTTGTATGGGCTTCTGCGCACCAAGAAAATTCATCATTGCTACAGTCCAAAAGATG  
AGGGACTGTGCTCTGCCAATGTGACTCGTATTATTTAATCCAAGATACAGAACCTGTGATGCTTTTAC  
CTATACTGGCTGTGGAGGGAATGACAATAACTTTGTTAGCAGGGAGGATTGCAAACGTGCATGTGCAAAA  
GCTTTGAAAAAGAAAAAGAAGATGCCAAAGCTTCGCTTTGCCAGTAGAATCCGAAAAATTCGGAAGAAGC  
AATTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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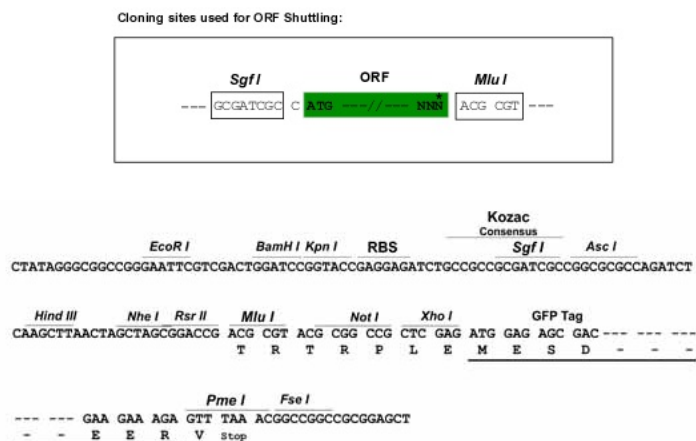
**Protein Sequence:** >RG202760 representing NM\_006528  
Red=Cloning site Green=Tags(s)

MDPARPLGLSILLFLTEAALGDAAQEPTGNNAEICLLPLDYGPCRALLRYYYDRYTQSCRQFLYGGCE  
 GNANNFYTWEACDDACWRIEKVPKVCRLQVSVDDQCEGSTEKYFFNLSSMTCEKFFSGGCHRNRIENRFP  
 DEATCMGFCAPKKIPSFYCSPKDEGLCSANVTRYFNPRTCDAFYTGCGGNDNNFVSREDCKRACAK  
 ALKKKKKMPKLRFASTRIRKIRKKQF

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_006528

**ORF Size:** 705 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\\_006528.4](#)

**RefSeq Size:** 2444 bp

**RefSeq ORF:** 708 bp

**Locus ID:** 7980

**UniProt ID:** [P48307](#)

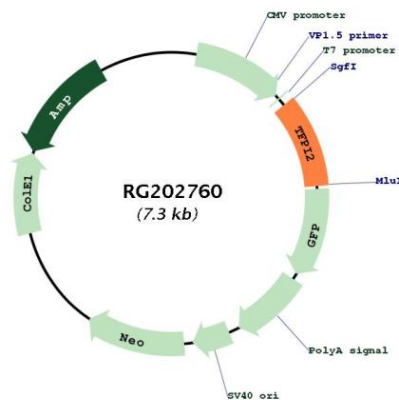
**Cytogenetics:** 7q21.3

**Domains:** KU

**Protein Families:** Secreted Protein

**Gene Summary:** This gene encodes a member of the Kunitz-type serine proteinase inhibitor family. The protein can inhibit a variety of serine proteases including factor VIIa/tissue factor, factor Xa, plasmin, trypsin, chymotrypsin and plasma kallikrein. This gene has been identified as a tumor suppressor gene in several types of cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

## Product images:



Circular map for RG202760