

## Product datasheet for RC223558

### Trefoil Factor 3 (TFF3) (NM\_003226) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Trefoil Factor 3 (TFF3) (NM\_003226) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Trefoil Factor 3  
**Synonyms:** ITF; P1B; TFI  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC223558 representing NM\_003226  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGGAGAGAACAGGAGCAGCCACAGCCAGGAGGGAGAGCCTTCCCCAAGCAAACAATCCAGAGCAGC  
 TGTGCAAACAACGGTGCATAAATGAGGCCTCCTGGACCATGAAGCGAGTCTGAGCTGCGTCCCGGAGCC  
 CACGGTGGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGTCTGGCCTTGCTGTCTCCAGCTCT  
 GCTGAGGAGTACGTGGGCCTGTCTGCAAACCAGTGTGCCGTGCCAGCCAAGGACAGGGTGGACTGCGGCT  
 ACCCCCATGTACCCCCAAGGAGTGCAACAACCGGGCTGCTGCTTTGACTCCAGGATCCCTGGAGTGCC  
 TTGGTGTTCAGCCCTGCAGGAAGCAGAATGCACCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC223558 representing NM\_003226  
 Red=Cloning site Green=Tags(s)  
 MQERTGAATARRESLPQANNPEQLCKQRCINEASWTMKRVLSCVPEPTVYMAARALCMLGLVLLALLSSSS  
 AEEYVGLSANQCAVPAKDRVDCGYPHVTPKECNRRGCCFDSRIPGVPWCFKPLQEAECTF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3615\\_d06.zip](https://cdn.origene.com/chromatograms/mg3615_d06.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_003226

**ORF Size:** 390 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_003226.2](#), [NP\\_003217.2](#)

**RefSeq Size:** 685 bp

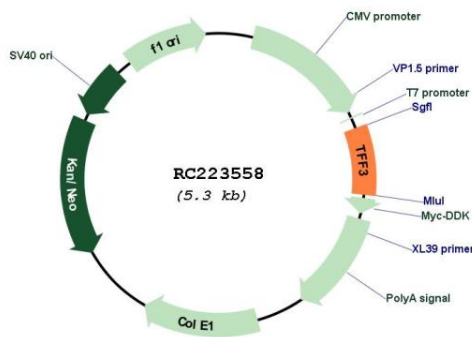
**RefSeq ORF:** 243 bp

Locus ID: 7033  
 UniProt ID: [Q07654](#)  
 Cytogenetics: 21q22.3

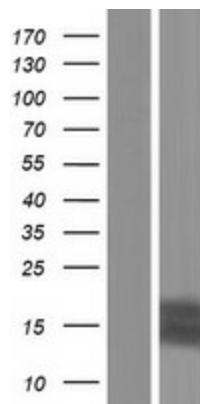
Domains: PD  
 Protein Families: Secreted Protein  
 MW: 14.25 kDa

**Gene Summary:** Members of the trefoil family are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfides. They are stable secretory proteins expressed in gastrointestinal mucosa. Their functions are not defined, but they may protect the mucosa from insults, stabilize the mucus layer and affect healing of the epithelium. This gene is expressed in goblet cells of the intestines and colon. This gene and two other related trefoil family member genes are found in a cluster on chromosome 21. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC223558



Western blot validation of overexpression lysate (Cat# [LY418823]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223558 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).