

Product datasheet for **RG223558**

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: TurboGFP
Symbol: TFF3
Synonyms: ITF; P1B; TFI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG223558 representing NM_003226
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGAGAGAACAGGAGCAGCCACAGCCAGGAGGGAGAGCCTTCCCCAAGCAAACAATCCAGAGCAGC
TGTGCAAACAACGGTGCATAAATGAGGCCTCTGGACCATGAAGCGAGTCTGAGCTGCGTCCCGGAGCC
CACGGTGGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGGTCTGGCCTTGTCTCCTCCAGCTCT
GCTGAGGAGTACGTGGGCTGTCTGCAAACCAGTGTGCCGTGCCAGCCAAGGACAGGGTGGACTGCGGCT
ACCCCCATGTACCCCCAAGGAGTGCAACAACCGGGCTGCTGCTTTGACTCCAGGATCCCTGGAGTGCC
TTGGTGTTCAGCCCTGCAGGAAGCAGAATGCACCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223558 representing NM_003226
Red=Cloning site Green=Tags(s)
MQERTGAATARRESLPQANNPEQLCKQRCINEASWTMKRVLSCVPEPTVVMAARALCMLGLVLALLSSSS
AEEYVGLSANQCAVPAKDRVDCGYPHVTPKECNRGCCFDSRIPGVPWCFKPLQEAECTF

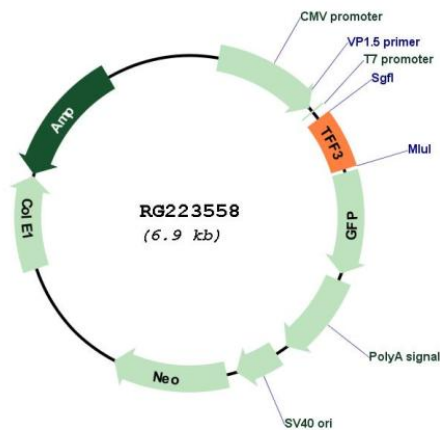
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:

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:	<ol style="list-style-type: none">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_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
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]