

Product datasheet for **RG219171**

Transcription termination factor 1 (TTF1) (NM_007344) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transcription termination factor 1 (TTF1) (NM_007344) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TTF1
Synonyms:	TTF-1; TTF-I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219171 representing NM_007344
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGGAGAATCAAGCAGATTTGAAATCCACACTCCAGTTTCTGACAAGAAAAAGAAAAAGTTTCTA
 TACATAAGGAAAGACCTCAGAAACATCCACGAAATTTTCAGAGACTCCTCCCTGGTGAATGAACAGTC
 TCAAATAACTAGGAGGAAAAAGAGGAAAAAGATTTCCAGCATCTCATTCTTCTCCTTTGAAAAATCC
 AGAATCTGTGATGAGACTGCAAATGCCACTCCACACTCAAAAAGAGAAAAAGAGAAGATATAGTGCTT
 TGGAGGTGGACGAGGAAGCAGGTGTACAGTTGTCCTTGTGGATAAAGAAAAATTAACAACACACCAAA
 GCATTTTAGAAGGATGTTGATGTTGTTGTTGTTGATATGAGCATAGAACAGAAGTTACCAAGAAAGCCT
 AAAACAGACAAAATTCAGGTACTTGCTAAGTCACATGCACATAAATCAGAAGCCCTGCACAGTAAAGTTA
 GGGAGAAAAAGAATAAAAAGCATCAGAGGAAAGCTGCATCCTGGGAGAGCCAGCGGGCAAGGGACACCCT
 GCCTCAGTCAGAAATCCCACCAGGAGGAGTCTGGCTTTCTGTGGTCCAGGGGTGAAATACAGAACTA
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 TGGCCATGCCTGAAGGATCGCAAGCAGGCAGAGAGGCCGGGACTGATATGCAGGAATCCCAGCCTACTGT
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 CATGGCTCACGCCTGTAATCCAGTACTTTGGGAGGCCAAGGCCGGTGGATCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219171 representing NM_007344
 Red=Cloning site Green=Tags(s)

MEGESSRFEIHTPVSDK KKKKCSIHKERPQKHSHEIFRDSSLVNEQSQITRRKKRKKDFQHLISSPLKKS
 RICDETANATSTLKKRKRKRRYSALEVDDEAGVTVVLVDKENINNTPKHFRKDVVDVVCVMSIEQKLRPKP
 KTDKFQVLAKSHAHKSEALHSKVREKKNKKHQRKAASWESQARADTL PQSESHQEE SWL SVGPGGEITEL
 PASAHKNKSKKKKKSSNREYETLAMPEGSQAGREAGTDMQESQPTVGLDDETPQLLGPTHKKKSKKKKK
 KKSNNHQEFELAMPEGSQVGVSEV GADMQESRPVGLHG ETAGIPAPAYKNKSKKKKKSNHQEF EAVAMP
 ESLESAYPEGSQVGVSEVGTVEGSTALKGFKESNSTKKKSKKRKLT SVKRARVSGDDF SVPSKNSESTLFD
 SVEGDGAMMEEGVKSRRPQKKTQA CLASKHVQEAPRLEPANEHNVETAEDSEIRYL SADSGDADSDAD
 LGSAVKQLQEFIPNIKDRATSTIKRMYRDDLRFKEFKAQGVAIKFGKFSVKENKQLEKNVEDFLAL TGI
 ESADKLLYTD RYPEEKSVITNLKRRYSFRLHIGRNIARPWKLIYYRAKMF DVNNYKGRYSEG DTEKLM
 YHSL LGNDWKTIGEMVARSSLVALKFSQISSQRNRGAWSKSETRKLIKAVEEVILKMPQELKEVD SK
 LQENPESCL SIVREKLYKGISWVEV EAKVQTRNWMQCKSKWTEILTKRMTNGRRIYYGMNALRAKVS LIE
 RLYEINVEDTNEIDWEDLASAIGDVPPSYVQTKFSRLKAVYVPFWQKTFPEIIDYLYETTLPLLKEKLE
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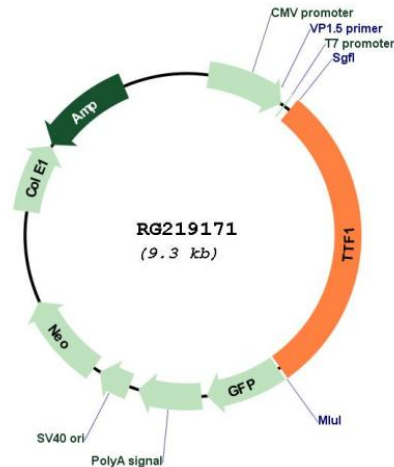
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_007344

ORF Size: 2715 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_007344.4](#)

RefSeq Size: 3137 bp

RefSeq ORF: 2718 bp

Locus ID: 7270

UniProt ID: [Q15361](#)

Cytogenetics: 9q34.13

Gene Summary:

This gene encodes a transcription termination factor that is localized to the nucleolus and plays a critical role in ribosomal gene transcription. The encoded protein mediates the termination of RNA polymerase I transcription by binding to Sal box terminator elements downstream of pre-rRNA coding regions. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. This gene shares the symbol/alias 'TTF1' with another gene, NK2 homeobox 1, also known as thyroid transcription factor 1, which plays a role in the regulation of thyroid-specific gene expression. [provided by RefSeq, Apr 2011]