

Product datasheet for **RG201294**

TFIIF (GTF2F1) (NM_002096) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFIIF (GTF2F1) (NM_002096) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFIIF
Synonyms:	BTF4; RAP74; TF2F1; TFIIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201294 representing NM_002096
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCCTAGGCCCTAGCAGCCAGAATGTCTACTGAATACGTGTTTCGAGTTCCTAAGAATACAACCA
 AAAAATAAACATCATGGCTTTTAAATGCAGCCGACAAAGTCAACTTTGCTACGTGGAATCAGGCTCGGCT
 GGAGCGGACTTGAGCAACAAGAAAATCTACCAAGAGGAGGAGATGCCGAATCGGGCGCGGCAGTGAG
 TTCAACCGCAAGCTTCGGGAGGAGGCTCGGAGGAAGAAGTACGGCATCGTCTCAAGGAGTTCGGCCCCG
 AGGACCAGCCCTGGTGTCTCCGGTCAACGGCAAATCAGGCAGGAAGTTCAAGGGCATCAAGAAGGGAGG
 CGTAACAGAGAACACGTCTACTACATCTTACCCAGTCCCCGACGGGGCTTCGAGGCCCTCCCCGTG
 CACAACGGTACAATTTACACCCGCTGGCCCGCATCGCACGCTACTGCCGAGGAGGCCGAGGAGGAGT
 GGGAGAGGAGGAACAAGGTGCTGAACACTTCAGCATCATGCAGCAGCGCGGCTCAAGGATCAGGACCA
 GGACGAGGATGAGGAGGAGAAGGAGAACTGGCCGAGGAAGGCGAGCGAGCTGCCATCCACGACCTG
 GAGGACGACCTGGAGATGTCGTCCGATGCCAGTATGCCAGTGGTGGAGGAGGGGGCAGAGTCCCCAAGG
 CCAAGAAGAAGGCGCCGCTGGCCAAGGGCGGCAGGAAAAAGAAGAAGAAGGGTTTCAGACGACGAGGC
 CTTTCGAGGACAGCGATGATGGGGACTTCGAGGGCCAAGAGGTAGACTACATGTCAGACGGCTCCAGTAGC
 TCCCAAGAAGAGCCTGAGAGCAAGGCCAAGGCGCCGACGAGGAGGGGGCCCAAGGGTGTGATGAGC
 AGAGCGACAGTAGTGAGGAGAGTGAGGAGGAGAAGCCGCTGAGGAGGACAAGGAGGAGGAGGAGGAGAA
 GAAGGCACCCACCCCGCAGGAGAAGAAGCGCAGGAAAGACAGCAGCGAGGAGTCCGACAGCTCAGAGGAG
 AGCGACATTGACAGCGAGGCTCTCAGCCCTTTCATGGCGAAGAAGAAGACGCCACCCAAGAGAGAGC
 GGAAGCCGTCGGGAGGAGCTCAAGGGGCAACAGCCGCCAGGCAGCCAGCGCAGAGGGTGGCAGCAGC
 CTCTCCACCCTGCGGGCGGCTGCCAGCAAACTCGAGCAAGGGAAGCGGGTGGAGGAGATGCCTGCAGCC
 AAGCGGTTGCGGCTGGACACGGGACCCAGAGCCTGTCTGGGAAGTCGACACCCAGCCACCATCAGGCA
 AGACAACACCCAACAGCGGCGACGTGCAGGTGACTGAGGATGCCGTGCGCCGCTACCTGACACGGAAGCC
 CATGACCACTAAGGACCTGCTGAAAAAGTTCCAGACCAAGAAGACAGGGCTGAGCAGCGAGCAGACAGTG
 AACGTGTTGGCCAGATCCTCAAGCGACTCAACCCGAGCGCAAGATGATCAACGACAAAATGCCTTCT
 CCCTCAAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

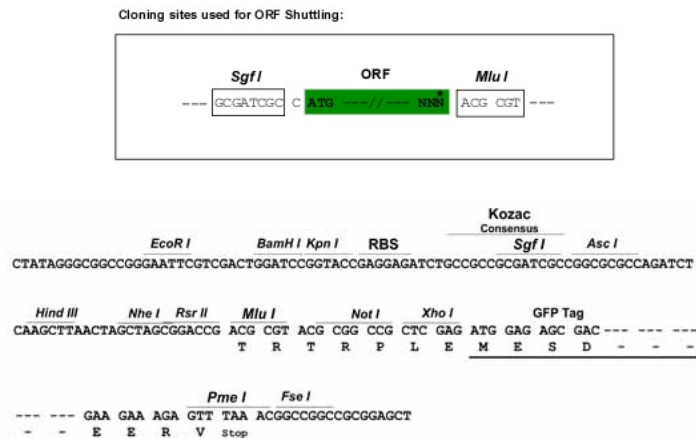
>RG201294 representing NM_002096
 Red=Cloning site Green=Tags(s)

MAALGPSSQNVTEYVVRVVPKNTTKKYNIMAFNAADKVNFAWNRARLERDL SNKKIYQEEEMPESGAGSE
 FNRKLRREARRKKYIVLKEFRPEDQPWLLRVNGKSGRKFKGIKKGGVTENTSYYIFTQCPDGAFAFPV
 HNWYNFTPLARHRTLTAEEAEEWEERRNKLNFHFSIMQQRRLKDQDDEEEKEKRGRRKASELRIDHL
 EDDLEMSDASDASGEEGGRVPAKAKKAPLAKGGRKKKKKGSDDFAFEDSDDGDFEGQEVDMYSDGSSS
 SQEEPESKAKAPQEEGPKGVDEQSDSSESEEEKPPPEEDKEEEEEKAPTPQEKRRKDSSESDSSEE
 SDIDSEASSALFMAKKTPPKRERKPSGGSSRGNSRPGTPSAEGGSTSSTLRAAASKLEQKRVSEMPAA
 KRLRLDTGPQSLSGKSTPPSGKTPNSGDVQVTEDAVRRYL TRKPMTKDLLKKFQTKKTGLSSEQTV
 NVLAQILKRLNPERKMINDKMHFSLKE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002096

ORF Size: 1551 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_002096.1](#), [NP_002087.1](#)

RefSeq Size: 2440 bp

RefSeq ORF: 1554 bp

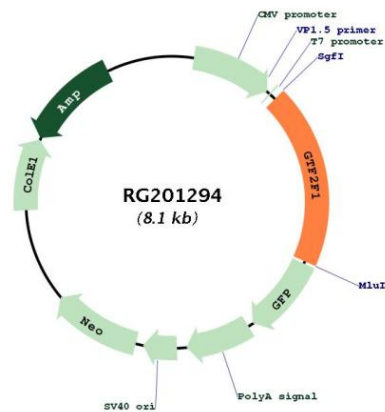
Locus ID: 2962

UniProt ID: [P35269](#)

Cytogenetics: 19p13.3

Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Basal transcription factors
Gene Summary:	TFIIF is a general transcription initiation factor that binds to RNA polymerase II and helps to recruit it to the initiation complex in collaboration with TFIIB. It promotes transcription elongation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201294