

Product datasheet for **RG203477**

TFIIE beta (GTF2E2) (NM_002095) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TFIIE beta (GTF2E2) (NM_002095) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TFIIE beta
Synonyms:	FE; TF2E2; TFIIE-B; TTD6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203477 representing NM_002095 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCAAGCCTGTTGAGAGAAAGGGAGCTGTTCAAAAAACGAGCTCTTTCTACTCCTGTAGTAGAAA
AACGTTTCAGCATCTTCTGAGTCATCATCATCGTCAAAGAAGAAGAAAACAAAGGTAGAACATGGAGG
ATCGTCAGGCTCTAAACAAAATTCTGATCATAGCAATGGATCATTTAACTTGAAGCTTTGTCAGGAAGC
TCTGGATAAAGTTTGGTGTCTTGCTAAGATTGTGAATTACATGAAGACACGGCATCAGCGAGGAGATA
CGCATCCTCTAACCTTAGATGAAATTTGGATGAAACACAACATTTAGATATTGGACTCAAGCAGAAACA
ATGGCTAATGACTGAGGCTTTAGTCAACAATCCCAAAATTGAAGTAATAGATGGGAAGTATGCTTTCAAG
CCCAAGTACAACGTGAGAGATAAGAAGGCCCTACTTAGGCTCTTAGATCAGCATGACCAGCGAGGATTAG
GAGGAATCTTTTAGAAGACATAGAAGAAGCACTGCCCAATCCAGAAAGCTGTCAAGGCTTTGGGGGA
CCAGATACTATTTGTAATCGTCCCGATAAGAAGAAAATACTTTCTTCAATGATAAGAGCTGTCAGTTT
TCTGTGGATGAAGATTTAGAACTGTGGAGGAGTGTCACTGTAGATCCATGGACGAGGAGAAAATTG
AAGAATATCTGAAGCGACAGGGTATTTCTTCCATGCAGGAATCTGGACCAAGAAAGTGGCCCTATTCA
GAGAAGGAAAAAGCCTGCTTACAGAAAAAGCGACGCTTAAAGACTCATAACGAACACTTGGCTGGAGTG
CTGAAGGATTACTCTGACATTACTTCCAGCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203477 representing NM_002095
 Red=Cloning site Green=Tags(s)

MDPSLLRERELFKKRALSTPVVEKRSASSESSSSSSKSKKTKVEHGGSSGSKQNSDHSNGSFNLKALSGS
 SGYKFGVLAKIVNYMKTTRHQRGDTHPLTLDEILDETDIQLDGLKQKQWLMTALVNNPKIEVIDGKYAFK
 PKYNVRDKKALLRLLDQHDQRGLGGILLEDIEEALPNSQKAVKALGDQILFVNRDPDKKILFFNDKSCQF
 SVDEEFQKLWRSVTVDSMDEEKIEEYLKRQGISSMQESGPKKVAPIQRRKKPASQKKRRFKTHNEHLAGV
 LKDYSIDITSSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002095

ORF Size: 873 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_002095.6](#)

RefSeq Size: 1560 bp

RefSeq ORF: 876 bp

Locus ID: 2961

UniProt ID: [P29084](#)

Cytogenetics: 8p12

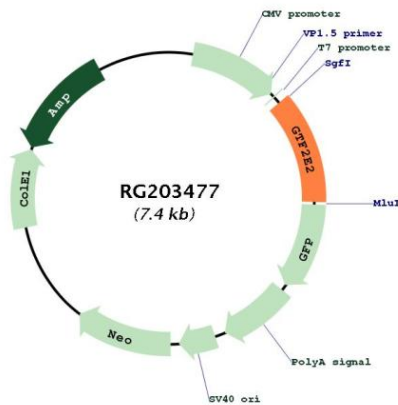
Domains: TFIIE_beta

Protein Families: Transcription Factors

Protein Pathways: Basal transcription factors

Gene Summary: The general transcription factor IIE (TFIIE) is part of the RNA polymerase II transcription initiation complex, recruiting TFIIF and being essential for promoter clearance by RNA polymerase II. TFIIE is a heterodimer (and sometimes heterotetramer) of alpha and beta subunits. The protein encoded by this gene represents the beta subunit of TFIIE. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG203477