

## Product datasheet for **RG208552**

### **TAF5 (NM\_006951) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TAF5 (NM_006951) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAF5
Synonyms:	TAF(II)100; TAF2D; TAFII-100; TAFII100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG208552 representing NM\_006951  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCGCTGGCGGAGGAGCAGACGGAGGTGGCGGTCAAGCTAGAGCCTGAGGGACGCCAACGCTGC  
 TACCTCCGCAGGCGGGGACGGCCGAGGCGAGGGTAGCGCGGCACTACCAACAACGGCCCCAACGCGCG  
 CGGCGGGAACGTTGCGGCGTCGTCGCTCCACTGGCGGGGATGGCGGGACCCCAAGCCACGGTGGCTGTC  
 TCCGCGCTGCCCGGGGGGGCGCCCGGTGCCCGCGCTGCTCCGGACGCGGGCTCCGCATGACC  
 GACAGACTCTACTGGCCGTGCTGCAGTTCCTACGGCAGAGCAAACCTCCGCGAGGCCGAAGAGGCGCTGCG  
 CCGTGAGGCCGGCTGCTGGAGGAGCAGTGGCGGGCTCCGGAGCCCGGAGAGGTGGACAGCGCCGGC  
 GCTGAGGTGACCAGCGCTTCTCAGCCGGGTACCGCCTCGGCCCTGGCCCTGCGGCCCCGACCCTC  
 CGGCACTGGCGTTCGGGGCCACGGTCGTCTCAGTTCAGCCTCAGGTCTGCGGCTCCGGTAAAGT  
 TGGAGTGTGTGGAAGACCAGCCAGATGTCAGTCCGTGTTGTGAGCTACAACCAACAAGGAGAT  
 CCCACAATGTATGAAGAATACTATAGTGGACTGAAACACTTCATTGAATGTTCCCTGGACTGCCATCGGG  
 CAGAGTTGCCAACTTTTTATCCTCTGTTTGTGCACATGTAAGTGGAGCTAGTCTACAATCAACATGA  
 GAATGAAGCAAAGTATTCTTTGAGAAGTTCATGGAGATCAGGAATGTTATTACCAGGATGACCTACGA  
 GTATTACTAGTCTTACCAAAAAGGAACACATGAAAGGGAATGAGACCATGTTGGATTTTCGAACAAGTA  
 AATTTGTTCTGCGTATTTCCCGTACTCGTACCAACTCTTGAAGAGGCATCTTCAGGAGAAAACAGAA  
 TCAGATATGGAACATAGTTCAGGAGCACCTCTACATTGACATCTTGTGATGGGATGCCCGTGTAAAGCA  
 CAGATAGATGCGATGGTGGGAAGTTTGGCAGGAGAGGCTAAACGAGAGGCAACAATCAAAGTATTTT  
 TTGGTTTATAAAAAGAACCAGAAATGAGGTACCTTTGGATGACGAGGATGAAGAGGGGAAAAATGAAGA  
 AGGAAAACCTAAAAAGAAGCAAGCTAAAAAAGATAGTATTGGATCCAAAAGCAAAAAACAAGATCCCAAT  
 GCTCCACCTCAGAACAGAAATCCCTCTTCTGAGTTGAAAGATTGAGATAAGTTGGATAAGATAATGAATA  
 TGAAAGAAACCACCAACGAGTGCCTTTGGCCGGACTGCTTACCCTCCATTTGTTTCTATACATTTCT  
 CAATGCTTACCAGGTCTCACTGCAGTGGATGTCAGTGTGATTCTAGTCTGATTGCTGGAGTTTTGCA  
 GATTAAGTGTGAGAGTGGTTCGGTAACACCCAAAAGCTTCGTAGTGTCAAACAAGCATCAGATCTTA  
 GTCTTATAGACAAAGAATCAGATGATGTCTTAGAAAGAATCATGGATGAGAAAACAGCAAGTGAAGTGA  
 GATTTTGTATGGTACAGTGGCCTGTCTACGGAGCCAGCTTCAGTCCGGATAGGAACTATCTGCTTTCC  
 TCTTCAGAGGACGGAAGTGTAGATTGTGGAGCCTTCAAACATTTACTTGTGTTGGTGGGATATAAAGGAC  
 ACAACTATCCAGTATGGGACACACAATTTCTCCATATGGATATTATTTGTGTCAGGGGCCATGACCG  
 AGTAGCTCGGCTCTGGGCTACAGACCACTATCAGCCTTAAGAATATTTGCCGGCCATCTTGCTGATGTG  
 AATTGTACCAGATTCCATCCAAATCTAATTATGTTGCTACGGGCTCTGCAGACAGAAGTGTGCGGCTCT  
 GGGACGTCCTGAATGGTAACTGTGTAAGGATCTCACTGGACACAAGGGACCAATTCATTCTTGACATT  
 TTCTCCAATGGGAGATTCCTGGCTACAGGAGCAACAGATGGCAGAGTGTCTTTGGGATATTGGACAT  
 GGTTTGTGGTTGGAGAATTAAGGCCACACTGATACAGTCTGTTCACTTAGGTTTAGTAGAGATGGTG  
 AAATTTGGCATCAGGTTCAATGGATAATACAGTTCGATTATGGGATGCTATCAAAGCCTTTGAAGATT  
 AGAGACCGATGACTTTACTACGCCACTGGGCATATAAATTTACCTGAGAATTCACAGGAGTTATTGTTG  
 GGAACATATATGACCAAAATCAACACCAGTTGTACACCTTCATTTACTCTAAGAAACCTGTTCTAGCTG  
 CAGGAGCTTATAGTCCAAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG208552 representing NM\_006951  
Red=Cloning site Green=Tags(s)

MAALAEQTEVAVKLEPEGPPTLLPPQAGDGAGEGSGGTTNNGPNGGGGNVAASSSTGGDGGTPKPTVAV  
SAAAPAGAAPVPAAPDAGAPHDRQTLLAVLQFLRQSKLREAEALRREAGLLEEAVAGSGAPGEVDSAG  
AEVTSALLSRVTASAPGPAAPDPPGTGASGATVVSASGPAAPGKVGSAVEDQPDVSAVLSAYNQGD  
PTMYEEYSSGLKHFIECSLDCHRAELSQLFYPLFVHMYLELVYNQHENEAKSFFEKFHGDQECYQDDL  
VLSSLTKKEHMKNETMLDFRTSKFVLRISRDSYQLLKRHLQEKQNNQIWNIVQEHLIYIDIFDGMPSKQ  
QIDAMVGLAGEAKREANKSKVFFGLLKEPEIEVPLDDEDEEGENEKGPKKKPKKDSIGSKSKKQDPN  
APPQNRIPPELKDSDLKIMNMKETTQRVRLGPDCLPSICFYTFNLAYQGLTAVDVTDDSSLIAGGFA  
DSTVRVWVTPKKLRSVKQASDLSLIDKESDVLERIMDEKTASELKILYGHSGPVYGASFSPDRNYLLS  
SSEDGTVRLWSLQTFCLVGYKGHNYPVWDTQFSPYGYFVSGGHDRVARLWATDHYQPLRIFAGHLADV  
NCTRFHPNSNYVATGSADRTVRLWDVLNGNCVRIFTGHKGIHSLTFSPNGRFLATGATDGRVLLWDIGH  
GLMVGELKGHTDTCVSLRFSRDGEILASGSMDNTVRLWDAIKAFEDLETDDFTTATGHINLPENSQELL  
GTYMTKSTPVLHFTLRNLVLAAGAYSPQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



*EcoRI*
*BamHI* *KpnI*
RBS
Kozac  
Consensus
*SgfI*
*AscI*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

*HindIII*
*NheI* *RsrII*
*MluI*
*NotI*
*XhoI*
GFP Tag

CAAGCTTAAGTACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E
M E S D - - -

*PmeI*
*FseI*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

ACCN: NM\_006951

ORF Size: 2400 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_006951.3](#), [NP\\_008882.2](#)

**RefSeq Size:** 3283 bp

**RefSeq ORF:** 2403 bp

**Locus ID:** 6877

**UniProt ID:** [Q15542](#)

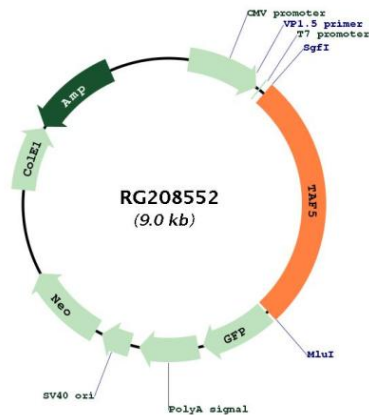
**Cytogenetics:** 10q24.33

**Protein Families:** Transcription Factors

**Protein Pathways:** Basal transcription factors

**Gene Summary:**

Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is transcription factor IID (TFIID), which binds to the core promoter to position the polymerase properly, serves as the scaffold for assembly of the remainder of the transcription complex, and acts as a channel for regulatory signals. TFIID is composed of the TATA-binding protein (TBP) and a group of evolutionarily conserved proteins known as TBP-associated factors or TAFs. TAFs may participate in basal transcription, serve as coactivators, function in promoter recognition or modify general transcription factors (GTFs) to facilitate complex assembly and transcription initiation. This gene encodes an integral subunit of TFIID associated with all transcriptionally competent forms of that complex. This subunit interacts strongly with two TFIID subunits that show similarity to histones H3 and H4, and it may participate in forming a nucleosome-like core in the TFIID complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

**Product images:**


Circular map for RG208552