

## Product datasheet for **RC201550**

### TAF9 (NM\_003187) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAF9 (NM_003187) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAF9
Synonyms:	MGC:5067; STAF31/32; TAF2G; TAFII-31; TAFII-32; TAFII31; TAFII32; TAFIID32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201550 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTCTGGCAAGACGGCTTCTCCCAAGAGCATGCCGAAAGATGCACAGATGATGGCACAAATCCTGA  
AGGATATGGGGATTACAGAATATGAGCCAAGAGTTATAAATCAGATGTTGGAGTTGCCTCCGATATGT  
GACCACAATTCTAGATGATGCAAAAATTTATTCAAGCCATGCTAAGAAAGCTACTGTTGATGCAGATGAT  
GTGCGATTGGCAATCCAGTGCCGCGCTGATCAGTCTTTTACCTCTCTCCCAAGAGATTTTTTATTAG  
ATATTGCAAGGCAAAGAAATCAAACCCCTTTGCCATTGATCAAGCCATATTCAGTCTAGTGGCCACC  
TGATAGATACTGCTTAACAGCTCCAACCTATAGGCTGAAATCTTTACAGAAAAAGGCATCAACTTCTGCG  
GGAAGAATAACAGTCCCAGGTTAAGTGTGGTTCACTAGCAGACCAAGTACTCCACACTAGGCA  
CACCAACCCACAGACCATGTCTGTTTCAACTAAAGTAGGGACTCCCATGTCCCTCACAGGTCAAAGGTT  
TACAGTACAGATGCCTACTTCTCAGTCTCCAGCTGTAAGGCTTCAATCCTGCAACCTCAGCAGTTCAG  
AATGTTCTGATTAATCCATCATTAAATCGGGTCCAAAAACATTTTTATTACCACTAATATGATGTCATCAC  
AAAATACTGCCAATGAATCATCAAATGCATTGAAAAGAAAACGTGAAGATGATGATGATGACGATGATGA  
TGATGATGACTATGATAATCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201550 protein sequence  
 Red=Cloning site Green=Tags(s)

MESGKTASPKSMPKDAQMMAQILKDMGITEYEPRVINQMLEFAFRYVTTILDDAKIYSSHAKKATVDADD  
 VRLAIQCRADQSFTSPPPRDFLLDIARQRNQTPLPLIKPYSGPRLPPDRYCLTAPNYRLKSLQKKASTSA  
 GRITVPRLSVGSVTSRPSTPTLGTPTQTMSVSTKVGTPMSLTGQRFVQMPTSQSPAVKASIPATSAVQ  
 NVLINPSLIGSKNIFITNMSSQNTANESSNALKRKREDDDDDDDDDDDDYDNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6770\\_a12.zip](https://cdn.origene.com/chromatograms/mk6770_a12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_003187

**ORF Size:** 792 bp

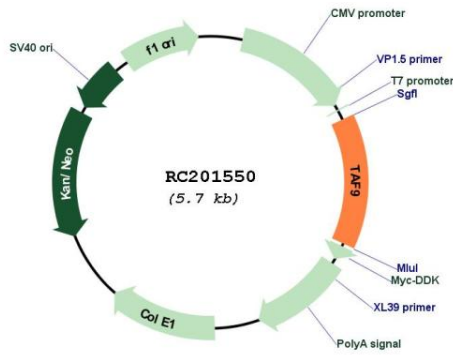
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

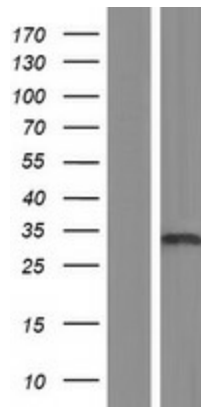
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_003187.5</a>
<b>RefSeq Size:</b>	1245 bp
<b>RefSeq ORF:</b>	795 bp
<b>Locus ID:</b>	6880
<b>UniProt ID:</b>	<a href="#">Q16594</a>
<b>Cytogenetics:</b>	5q13.2
<b>Domains:</b>	TFIID-31
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Basal transcription factors
<b>MW:</b>	29 kDa
<b>Gene Summary:</b>	<p>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 one of the smaller subunits of TFIID that binds to the basal transcription factor GTF2B as well as to several transcriptional activators such as p53 and VP16. In human, TAF9 and AK6 (GeneID: 102157402) are two distinct genes that share 5' exons. A similar but distinct gene (TAF9L) has been found on the X chromosome and a pseudogene has been identified on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]</p>

Product images:



Circular map for RC201550



Western blot validation of overexpression lysate (Cat# [LY423137]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC214833] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).