

## Product datasheet for **SC303505**

### TAF1 (NM\_004606) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TAF1 (NM_004606) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAF1
Synonyms:	BA2R; CCG1; CCGS; DYT3; DYT3/TAF1; KAT4; MRXS33; N-TAF1; NSCL2; OF; P250; TAF(II)250; TAF2A; TAFII-250; TAFII250; XDP
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004606, the custom clone sequence may differ by one or more nucleotides

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ATGGGACCCGGCTGCGATTTGCTGCTGCGGACAGCAGCTACCATCACTGCTGCCCCATC
ATGTCAGACACGGACAGCGACGAAGATTCCGCTGGAGGCGGCCATTTTCTTTAGCGGGT
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ATTCTCTTAGGGAAAACAGGAGTCATCAAGGAGGAACCACAGCAGAACATGTCTCAGCCA  
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ACTGCTAAAGAAGCAGCTTTGGAGGAAGCAGAATTAGAAAGCCTGGACCCAATGACCCCA
GGGCCCTACACGCCTCAGCCTCCTGATTTGTATGATACCAACACATCCCTCAGTATGTCT
CGAGATGCCTCTGATTTCAAGATGAGAGCAATATGTCTGTCTTGGATATCCCAGTGCC
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GAGGAAGGAACTGTACAACAGCCTCAAGCCAGTGCCTGTATGAGGATTTGCTTATGTCT
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GCTATCCAGCTGAGTGAAAGTGGAAGTGACTCTGATGTGGGATCTGGTGAATAAGACCC
AAACAACCCCGCATGCTTCAGGAGAACACAAGGATGGACATGGAAAATGAAGAAAGCATG
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TATGGGAGCTATGAGGAGCCTGATCCCAAGTCGAACACCCAAGACACAAGCTTCAGCAGC
ATCGGTGGGTATGAGGTATCAGAGGAGGAAGAAGATGAGGAGGAGGAAGACAGCGCTCT
GGGCCGAGCGTACTAAGCCAGGTCCACCTGTGAGGAGCAGGAGGACAGTGAGGATTTCT
CACTCCATTGCTGGGGACAGTGACTTGGACTCTGATGAATGA
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**Restriction Sites:**

Please inquire

**ACCN:**

NM\_004606

**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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_004606.2](#), [NP\\_004597.2](#)**RefSeq Size:**

6137 bp

RefSeq ORF:	5682 bp
Locus ID:	6872
UniProt ID:	<a href="#">P21675</a>
Cytogenetics:	Xq13.1
Protein Families:	Protein Kinase
Protein Pathways:	Basal transcription factors
Gene Summary:	<p>Initiation of transcription by RNA polymerase II requires the activities of more than 70 polypeptides. The protein that coordinates these activities is the basal transcription factor 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 the largest subunit of TFIID. This subunit binds to core promoter sequences encompassing the transcription start site. It also binds to activators and other transcriptional regulators, and these interactions affect the rate of transcription initiation. This subunit contains two independent protein kinase domains at the N- and C-terminals, but also possesses acetyltransferase activity and can act as a ubiquitin-activating/conjugating enzyme. Mutations in this gene result in Dystonia 3, torsion, X-linked, a dystonia-parkinsonism disorder. Alternative splicing of this gene results in multiple transcript variants. This gene is part of a complex transcription unit (TAF1/DYT3), wherein some transcript variants share exons with TAF1 as well as additional downstream DYT3 exons. [provided by RefSeq, Oct 2013]</p> <p>Transcript Variant: This variant (1) lacks an alternate in-frame exon in the 3' coding region, compared to variant 3, resulting in an isoform (1) that is 2 aa shorter than isoform 3. The exon combination of this variant is supported by mRNA annotation on DNA accession AY623109.1.</p> <p>CCDS Note: The exon combination of this CCDS representation lacks full-length support from transcripts deposited in INSDC databases, but it is supported by mRNA annotation on DNA accession AY623109.1.</p>