

## Product datasheet for **SC318488**

### TAF4 (NM\_003185) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TAF4 (NM\_003185) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TAF4  
**Synonyms:** TAF(II)130; TAF(II)135; TAF2C; TAF2C1; TAF4A; TAFII-130; TAFII-135; TAFII130; TAFII135  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_003185, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGGCTCGGATCTGCTGGACGAGGTCTTCTTCAACAGCGAGGTGGACGAGAAA
GTGGTGAGCGACCTGGTGGGCTCGCTGGAGTCGCAGCTGGCGGCCAGCGCGGCCACCAC
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GTCCAGATCTCCACCGTACAGGCACCTGGAACACCTATCATTGCACGGCAGGTGACCCCA
ACTACCATAATTAAGCAAGTGTCTCAGGCCAGACAACGGTGCAGCCAGTGCAACCCTG
CAGCGCTCGCCCGCGTCCAGCCTCAGCTCGTTCTGGGTGGCGCTGCCAGACGGCTTCA
CTTGGGACGGCGACGGCTGTTAGACGGGGACTCCTCAGCGCACGGTACCAGGGGCGACC

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ACCACTTCCTCAGCTGCCACGGAACTATGGAAAACGTGAAGAAATGAAAAATTCCTA
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TTATACCGAGAATTAATTTTCCACCTCAACCTTACCTTGTGCCTTTCTGAAGAGGAGC
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CAGCGGGACGCCAACCTCACAGCACTAGCAGCGATCGGGCCAGGAAAAAGAGGAAAGTG
GACTGTCCGGGGCCGGGCTCAGGAGCAGAGGGGTCGGGCCCGGCTCAGTGGTCCAGCG
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AGGGACCTCATATTTGTTTAGAAAATGAACGTGAGACAAGCCATTCACTGCTGCTCTAC
AAAGCATTCTTAAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_003185
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_003185.3](#), [NP\\_003176.2](#)

RefSeq Size: 4647 bp

RefSeq ORF: 3258 bp

Locus ID: 6874

UniProt ID: [O00268](#)

Cytogenetics: 20q13.33

Protein Pathways: Basal transcription factors, Huntington's disease

**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 one of the larger subunits of TFIID that has been shown to potentiate transcriptional activation by retinoic acid, thyroid hormone and vitamin D3 receptors. In addition, this subunit interacts with the transcription factor CREB, which has a glutamine-rich activation domain, and binds to other proteins containing glutamine-rich regions. Aberrant binding to this subunit by proteins with expanded polyglutamine regions has been suggested as one of the pathogenetic mechanisms underlying a group of neurodegenerative disorders referred to as polyglutamine diseases. [provided by RefSeq, Jul 2008]