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Product datasheet for SC306088

TAF1 (NM_138923) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: TAF1 (NM_138923) 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: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_138923, the custom clone sequence may differ by one or more nucleotides
ATGGGACCCGGCTGCGATTTGCTGCTGCGGACAGCAGCTACCATCACTGCTGCCGCCATC
ATGTCAGACACGGACAGCGACGAAGATTCCGCTGGAGGCGGCCCATTTTCTTTAGCGGGT
TTCCTTTTCGGCAACATCAATGGAGCCGGGCAGCTGGAGGGGGAAAGCGTCTTGGATGAT
GAATGTAAGAAGCACTTGGCAGGCTTGGGGGCTTTGGGGCTGGGCAGCCTGATCACTGAA
CTCACGGCAAATGAAGAATTGACCGGGACTGACGGTGCCTTGGTAAATGATGAAGGGTGG
GTTAGGAGTACAGAAGATGCTGTGGACTATTCAGACATCAATGAGGTGGCAGAAGATGAA
AGCCGAAGATACCAGCAGACGATGGGGAGCTTGCAGCCCCTTTGCCACTCAGATTATGAT
GAAGATGACTATGATGCTGATTGTGAAGACATTGATTGCAAGTTGATGCCTCCTCCACCT
CCACCCCCGGGACCAATGAAGAAGGATAAGGACCAGGATTCTATTACTGGTGAGAAAGTG
GACTTCAGTAGTTCCTCTGACTCAGAATCTGAGATGGGACCTCAGGAAGCAACACAGGCA
GAATCTGAAGATGGAAAGCTGACCCTTCCATTGGCTGGGATTATGCAGCATGATGCCACC
AAGCTGTTGCCAAGTGTCACAGAACTTTTTCCAGAATTTCGACCTGGAAAGGTGTTACGT
TTTCTACGTCTTTTTGGACCAGGGAAGAATGTCCCATCTGTTTGGCGGAGTGCTCGGAGA
AAGAGGAAGAAGAAGCACCGTGAGCTGATACAGGAAGAGCAGATCCAGGAGGTGGAGTGC
TCAGTAGAATCAGAAGTCAGCCAGAAGTCTTTGTGGAACTACGACTACGCTCCACCACCA
CCTCCAGAGCAGTGTCTCTCTGATGATGAAATCACGATGATGGCTCCTGTGGAGTCCAAA
TTTTCCCAATCAACTGGAGATATAGATAAAGTGACAGATACCAAACCAAGAGTGGCTGAG
TGGCGTTATGGGCCTGCCCGACTGTGGTATGATATGCTGGGTGTCCCTGAAGATGGCAGT
GGGTTTGACTATGGCTTCAAACTGAGAAAGACAGAACATGAACCTGTGATAAAATCTAGA
ATGATAGAGGAATTTAGGAAACTTGAGGAAAACAATGGCACTGATCTTCTGGCTGATGAA
AACTTCCTGATGGTGACACAGCTGCATTGGGAGGATGATATCATCTGGGATGGGGAGGAT
GTCAAACACAAAGGGACAAAACCTCAGCGTGCAAGCCTGGCAGGCTGGCTTCCTTCTAGC
ATGACTAGGAATGCGATGGCTTACAATGTTCAGCAAGGTTTTGCAGCCACTCTTGATGAT
GACAAACCTTGGTACTCCATTTTTCCCATTGACAATGAGGATCTGGTATATGGACGCTGG
GAGGACAATATCATTTGGGATGCTCAGGCCATGCCCCGGCTGTTGGAACCTCCTGTTTTG
ACACTTGATCCCAATGATGAGAACCTCATTTTGGAAATTCCTGATGAGAAGGAAGAGGCC
ACCTCTAACTCCCCCTCCAAGGAGAGTAAGAAGGAATCATCTCTGAAGAAGAGTCGAATT
CTCTTAGGGAAAACAGGAGTCATCAAGGAGGAACCACAGCAGAACATGTCTCAGCCAGAA

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GTGAAAGATCCATGGAATCTCTCCAATGATGAGTATTATTATCCCAAGCAACAGGGTCTT
CGAGGCACCTTTGGAGGGAATATTATCCAGCATTCAATTCCTGCTGTGGAATTACGGCAG
CCCTTCTTTCCCACCCACATGGGGCCCATCAAACTCCGGCAGTTCCATCGCCCACCTCTG
AAAAAGTACTCATTTGGTGCACTTTCTCAGCCAGGTCCCCACTCAGTCCAACCTTTGCTA
AAGCACATCAAAAAAAAGGCCAAGATGAGAGAACAAGAGAGGCAAGCTTCAGGTGGTGGA
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GCAGAATATAGTGAGGAAAATGGACCCTTAATGATGCAGGTTGGCATGGCAACCAAGATA
AAGAACTATTATAAACGGAAACCTGGAAAAGATCCTGGAGCACCAGATTGTAAATATGGG
GAAACTGTTTACTGCCATACATCTCCTTTCCTGGGTTCTCTCCATCCTGGCCAATTGCTG
CAAGCATTTGAGAACAACCTTTTTCGTGCTCCAATTTATCTTCATAAGATGCCAGAAACT
GATTTCTTGATCATTCGGACAAGACAGGGTTACTATATTCGGGAATTAGTGGATATTTTT
GTGGTTGGCCAGCAGTGTCCCTTGTTTGAAGTTCCTGGGCCTAACTCCAAAAGGGCCAAT
ACGCATATTCGAGACTTTCTACAGGTTTTTATTTACCGCCTTTTCTGGAAAAGTAAAGAT
CGGCCACGGAGGATACGAATGGAAGATATAAAAAAAGCCTTTCCTTCCCATTCAGAAAGC
AGCATCCGGAAGAGGCTAAAGCTCTGCGCTGACTTCAAACGCACAGGGATGGACTCAAAC
TGGTGGGTGCTTAAGTCTGATTTTCGTTTACCAACGGAAGAAGAGATCAGAGCTATGGTG
TCACCAGAGCAGTGCTGTGCTTATTATAGCATGATAGCTGCAGAGCAACGACTGAAGGAT
GCTGGCTATGGTGAGAAATCCTTTTTTGCTCCAGAAGAAGAAAATGAGGAAGATTTCCAG
ATGAAGATTGATGATGAAGTTCGCACTGCCCCTTGGAACACCACAAGGGCCTTCATTGCT
GCCATGAAGGGCAAGTGTCTGCTAGAGGTGACTGGGGTGGCAGATCCCACGGGGTGTGGT
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CCGCAGCCAGTGAAGAAGACAGTGACAGGAACAGATGCAGACCTTCGTCGCCTTTCCCTG
AAAAATGCCAAGCAACTTCTACGTAAATTTGGTGTGCCTGAGGAAGAGATTAAAAAGTTG
TCCCGCTGGGAAGTGATTGATGTGGTGCGCACAATGTCAACAGAACAGGCTCGTTCTGGA
GAGGGGCCCATGAGTAAATTTGCCCGTGGATCAAGGTTTTCTGTGGCTGAGCATCAAGAG
CGTTACAAAGAGGAATGTCAGCGCATCTTTGACCTACAGAACAAGGTTCTGTCATCAACT
GAAGTCTTATCAACTGACACAGACAGCAGCTCAGCTGAAGATAGTGACTTTGAAGAAATG
GGAAAGAACATTGAGAACATGTTGCAGAACAAGAAAACCAGCTCTCAGCTTTCACGTGAA
CGGGAGGAACAGGAGCGGAAGGAACTACAGCGAATGCTACTGGCAGCAGGCTCAGCAGCA
TCCGGAAACAATCACAGAGATGATGACACAGCTTCCGTGACTAGCCTTAACTCTTCTGCC
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CGCTGTGAGACAGTCCGAAAACCAGCTGTCATTGATGCCTATGTGCGCATACGGACTACA
AAAGATGAGGAATTCATTCGAAAATTTGCCCTTTTTGATGAACAACATCGGGAAGAGATG
CGAAAAGAACGGCGGAGGATTCAAGAGCAACTGAGGCGGCTTAAGAGGAACCAGGAAAAG
GAGAAGCTTAAGGGTCCTCCTGAGAAGAAGCCCAAGAAAATGAAGGAGCGTCCTGACCTA
AAACTGAAATGTGGGGCATGTGGTGCCATTGGACACATGAGGACTAACAAATTCTGCCCC
CTCTATTATCAAACAAATGCGCCACCTTCCAACCCTGTTGCCATGACAGAAGAACAGGAG
GAGGAGTTGGAAAAGACAGTCATTCATAATGATAATGAAGAACTTATCAAGGTTGAAGGG
ACCAAAAATTGTCTTGGGGAAACAGCTAATTGAGAGTGCGGATGAGGTTCGCAGAAAATCT
CTGGTTCTCAAGTTTCCTAAACAGCAGCTTCCTCCAAAGAAGAAACGGCGAGTTGGAACC
ACTGTTCACTGTGACTATTTGAATAGACCTCATAAGTCCATCCACCGGCGCCGCACAGAC
CCTATGGTGACGCTGTCGTCCATCTTGGAGTCTATCATCAATGACATGAGAGATCTTCCA
AATACATACCCTTTCCACACTCCAGTCAATGCAAAGGTTGTAAAGGACTACTACAAAATC
ATCACTCGGCCAATGGACCTACAAACACTCCGCGAAAACGTGCGTAAACGCCTCTACCCA
TCTCGGGAAGAGTTCAGAGAGCATCTGGAGCTAATTGTGAAAAATAGTGCAACCTACAAT
GGGCCAAAACACTCATTGACTCAGATCTCTCAATCCATGCTGGATCTCTGTGATGAAAAA
CTCAAAGAGAAAGAAGACAAATTAGCTCGCTTAGAGAAAGCTATCAACCCCTTGCTGGAT
GATGATGACCAAGTGGCGTTTTCTTTCATTCTGGACAACATTGTCACCCAGAAAATGATG
GCAGTTCCAGATTCTTGGCCATTTCATCACCCAGTTAATAAGAAATTTGTTCCAGATTAT
TACAAAGTGATTGTCAATCCAATGGATTTAGAGACCATACGTAAGAACATCTCCAAGCAC
AAGTATCAGAGTCGGGAGAGCTTTCTGGATGATGTAAACCTTATTCTGGCCAACAGTGTT
AAGTATAATGGACCTGAGAGTCAGTATACTAAGACTGCCCAGGAGATTGTGAACGTCTGT

TACCAGACATTGACTGAGTATGATGAACATTTGACTCAACTTGAGAAGGATATTTGTACT
GCTAAAGAAGCAGCTTTGGAGGAAGCAGAATTAGAAAGCCTGGACCCAATGACCCCAGGG
CCCTACACGCCTCAGCCTCCTGATTTGTATGATACCAACACATCCCTCAGTATGTCTCGA
GATGCCTCTGTATTTCAAGATGAGAGCAATATGTCTGTCTTGGATATTCCCAGTGCCACT
CCAGAAAAGCAGGTAACACAGGAAGGTGAAGATGGAGATGGTGATCTTGCAGATGAAGAG
GAAGGAACTGTACAACAGCCTCAAGCCAGTGTCCTGTATGAGGATTTGCTTATGTCTGAA
GGAGAAGATGATGAGGAAGATGCTGGGAGTGATGAAGAAGGAGACAATCCTTTCTCTGCT
ATCCAGCTGAGTGAAAGTGGAAGTGACTCTGATGTGGGATCTGGTGGAATAAGACCCAAA
CAACCCCGCATGCTTCAGGAGAACACAAGGATGGACATGGAAAATGAAGAAAGCATGATG
TCCTATGAGGGAGACGGTGGGGAGGCTTCCCATGGTTTGGAGGATAGCAACATCAGTTAT
GGGAGCTATGAGGAGCCTGATCCCAAGTCGAACACCCAAGACACAAGCTTCAGCAGCATC
GGTGGGTATGAGGTATCAGAGGAGGAAGAAGATGAGGAGGAGGAAGAGCAGCGCTCTGGG
CCGAGCGTACTAAGCCAGGTCCACCTGTCAGAGGACGAGGAGGACAGTGAGGATTTCCAC
TCCATTGCTGGGGACAGTGACTTGGACTCTGATGAATGA

Restriction Sites: Please inquire

ACCN: NM_138923

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_138923.1, NP_620278.1

RefSeq Size: 6074 bp

RefSeq ORF: 5619 bp

Locus ID: 6872

UniProt ID: P21675

Cytogenetics: Xq13.1

Protein Families: Protein Kinase

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 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]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, and lacks an alternate in-frame exon in the 3' coding region, compared to variant 3. The encoded isoform (2) is shorter than isoform 3.