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Product datasheet for SC338114

TAF1 (NM_001286074) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAF1 (NM_001286074) 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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001286074, the custom clone sequence may differ by one or more nucleotides

ATGGGACCCGGCTGCGATTTGCTGCTGCGGACAGCAGCTACCATCACTGCTGCCGCCATCATGTCAGACA
CGGACAGCGACGAAGATTCCGCTGGAGGCGGCCCATTTTCTTTAGCGGGTTTCCTTTTCGGCAACATCAA
TGGAGCCGGGCAGCTGGAGGGGGAAAGCGTCTTGGATGATGAATGTAAGAAGCACTTGGCAGGCTTGGGG
GCTTTGGGGCTGGGCAGCCTGATCACTGAACTCACGGCAAATGAAGAATTGACCGGGACTGACGGTGCCT
TGGTAAATGATGAAGGGTGGGTTAGGAGTACAGAAGATGCTGTGGACTATTCAGACATCAATGAGGTGGC
AGAAGATGAAAGCCGAAGATACCAGCAGACGATGGGGAGCTTGCAGCCCCTTTGCCACTCAGATTATGAT
GAAGATGACTATGATGCTGATTGTGAAGACATTGATTGCAAGTTGATGCCTCCTCCACCTCCACCCCCGG
GACCAATGAAGAAGGATAAGGACCAGGATTCTATTACTGGTGTGTCTGAAAATGGAGAAGGCATCATCTT
GCCCTCCATCATTGCCCCTTCCTCTTTGGCCTCAGAGAAAGTGGACTTCAGTAGTTCCTCTGACTCAGAA
TCTGAGATGGGACCTCAGGAAGCAACACAGGCAGAATCTGAAGATGGAAAGCTGACCCTTCCATTGGCTG
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AAAGGTGTTACGTTTTCTACGTCTTTTTGGACCAGGGAAGAATGTCCCATCTGTTTGGCGGAGTGCTCGG
AGAAAGAGGAAGAAGAAGCACCGTGAGCTGATACAGGAAGAGCAGATCCAGGAGGTGGAGTGCTCAGTAG
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AAAGTGACAGATACCAAACCAAGAGTGGCTGAGTGGCGTTATGGGCCTGCCCGACTGTGGTATGATATGC
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GGCTTACAATGTTCAGCAAGGTTTTGCAGCCACTCTTGATGATGACAAACCTTGGTACTCCATTTTTCCC
ATTGACAATGAGGATCTGGTATATGGACGCTGGGAGGACAATATCATTTGGGATGCTCAGGCCATGCCCC

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GGCTGTTGGAACCTCCTGTTTTGACACTTGATCCCAATGATGAGAACCTCATTTTGGAAATTCCTGATGA
GAAGGAAGAGGCCACCTCTAACTCCCCCTCCAAGGAGAGTAAGAAGGAATCATCTCTGAAGAAGAGTCGA
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TGCGCCACCTTCCAACCCTGTTGCCATGACAGAAGAACAGGAGGAGGAGTTGGAAAAGACAGTCATTCAT
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CGGATGAGGTTCGCAGAAAATCTCTGGTTCTCAAGTTTCCTAAACAGCAGCTTCCTCCAAAGAAGAAACG
GCGAGTTGGAACCACTGTTCACTGTGACTATTTGAATAGACCTCATAAGTCCATCCACCGGCGCCGCACA
GACCCTATGGTGACGCTGTCGTCCATCTTGGAGTCTATCATCAATGACATGAGAGATCTTCCAAATACAT
ACCCTTTCCACACTCCAGTCAATGCAAAGGTTGTAAAGGACTACTACAAAATCATCACTCGGCCAATGGA
CCTACAAACACTCCGCGAAAACGTGCGTAAACGCCTCTACCCATCTCGGGAAGAGTTCAGAGAGCATCTG
GAGCTAATTGTGAAAAATAGTGCAACCTACAATGGGCCAAAACACTCATTGACTCAGATCTCTCAATCCA
TGCTGGATCTCTGTGATGAAAAACTCAAAGAGAAAGAAGACAAATTAGCTCGCTTAGAGAAAGCTATCAA
CCCCTTGCTGGATGATGATGACCAAGTGGCGTTTTCTTTCATTCTGGACAACATTGTCACCCAGAAAATG
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AATGACCCCAGGGCCCTACACGCCTCAGGCTAAGCCTCCTGATTTGTATGATACCAACACATCCCTCAGT
ATGTCTCGAGATGCCTCTGTATTTCAAGATGAGAGCAATATGTCTGTCTTGGATATTCCCAGTGCCACTC
CAGAAAAGCAGGTAACACAGGAAGGTGAAGATGGAGATGGTGATCTTGCAGATGAAGAGGAAGGAACTGT

ACAACAGCCTCAAGCCAGTGTCCTGTATGAGGATTTGCTTATGTCTGAAGGAGAAGATGATGAGGAAGAT
GCTGGGAGTGATGAAGAAGGAGACAATCCTTTCTCTGCTATCCAGCTGAGTGAAAGTGGAAGTGACTCTG
ATGTGGGATCTGGTGGAATAAGACCCAAACAACCCCGCATGCTTCAGGAGAACACAAGGATGGACATGGA
AAATGAAGAAAGCATGATGTCCTATGAGGGAGACGGTGGGGAGGCTTCCCATGGTTTGGAGGATAGCAAC
ATCAGTTATGGGAGCTATGAGGAGCCTGATCCCAAGTCGAACACCCAAGACACAAGCTTCAGCAGCATCG
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AAGCCAGGTCCACCTGTCAGAGGACGAGGAGGACAGTGAGGATTTCCACTCCATTGCTGGGGACAGTGAC
TTGGACTCTGATGAATGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001286074
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).
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_001286074.1, NP_001273003.1
RefSeq Size:	7740 bp
RefSeq ORF:	5688 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 (3) represents the longest transcript and encodes the longest isoform (3, also known as neuron specific isoform or N-TAF1).