

## Product datasheet for SC118124

### TATA binding protein (TBP) (NM\_003194) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TATA binding protein (TBP) (NM_003194) Human Untagged Clone
Tag:	Tag Free
Symbol:	TATA binding protein
Synonyms:	GTF2D; GTF2D1; HDL4; SCA17; TFIID
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118124 sequence for NM_003194 edited (data generated by NextGen Sequencing)

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ATGGATCAGAACAACAGCCTGCCACCTTACGCTCAGGGCTTGGCCTCCCCTCAGGGTGCC
ATGACTCCCGGAATCCCTATCTTTAGTCCAATGATGCCTTATGGCACTGGACTGACCCCA
CAGCCTATT CAGAACACCAATAGTCTGTCTATTTTGAAGAGCAACAAAGGCAGCAGCAG
CAACAACAACAGCAGCAGCAGCAGCAGCAGCAGCAACAGCAACAGCAGCAGCAGCAGCAG
CAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGGCAGTGGCAGCTGCA
GCCGTT CAGCAGTCAACGTCCCAGCAGGCAACACAGGGAACCTCAGGCCAGGCACCACAG
CTCTTCCACTCACAGACTCTCACAACCTGCACCCTTGCCGGGCACCACTCCACTGTATCCC
TCCCCCATGACTCCCATGACCCCATCACTCCTGCCACGCCAGCTTCGGAGAGTTCTGGG
ATTGTACCGCAGCTGCAAAATATTGTATCCACAGTGAATCTTGGTTGTAACCTTGACCTA
AAGACCATTGCACTTCGTGCCCGAAACGCCGAATATAATCCCAAGCGGTTTGCTGCGGTA
ATCATGAGGATAAGAGAGCCACGAACCACGGCACTGATTTTCAGTTCTGGGAAAAATGGTG
TGCACAGGAGCCAAGAGTGAAGAACAGTCCAGACTGGCAGCAAGAAAATATGCTAGAGTT
GTACAGAAGTTGGGTTTTCCAGCTAAGTTCTTGGACTTCAAGATT CAGAAATATGGTGGGG
AGCTGTGATGTGAAGTTTCTATAAGGTTAGAAGGCCTTGTGCTCACCCACCAACAATTT
AGTAGTTATGAGCCAGAGTTATTTCTGGTTTAACTACAGAATGATCAAACCCAGAATT
GTTCTCCTTATTTTTGTTTCTGGAAAAGTTGTATTAACAGGTGCTAAAGTCAGAGCAGAA
ATTTATGAAGCATTGAAAACATCTACCCTATTCTAAAGGGATT CAGGAAGACGACGTAA

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Clone variation with respect to NM\_003194.4



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_003194 unedited</p> <pre> ATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCGCCTGGGCC GCCGGCTGTTAACTTCGCTTCCGCTGGCCCATAGTGATCTTTGCAGTGACCCAGCAGCA TCACTGTTTCTTGGCGTGTGAAGATAACCCAAGGAATTGAGGAAGTTGCTGAGAAGAGTG TGCTGGAGATGCTCTAGGAAAAAATTGAATAGTGAGACGAGTTCAGCGCAAGGGTTTCT GGTTTGCCAAGAAGAAAGTGAACATCATGGATCAGAACAACAGCCTGCCACCTTACGCTC AGGGCTTGGCCTCCCCTCAGGGTGCCATGACTCCCGGAATCCCTATCTTTAGTCCAATGA TGCTTATGGCACTGGACTGACCCACAGCCTATTCAGAACACCAATAGTCTGTCTATTT TGAAGAGCAACAAGGAGCAGCAGCAACAACAACAGCAGCAGCAGCAGCAGCAGCAGCAGC AGCAACAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC AGCAGCAACAGGCAGTGGCAGCTGCAGCCGTTCCAGCAGTCAACGTCCCAGCAGGCAACAC AGGGAACCTCAGGCCAGGCACCACAGCTTCCACTCACAGACTCTACAACCTGCACCCT TGCCGGGCACCCACTCCACTGTATCCCTCCCCATGACTCCCATGACCCCATCACTCCT GCCACGCCAGCTTTGGAGAGTTCTGGGATTGTACCGCAGCTGCAAATATTGTATCCACAG TGAACTCTGGGTGTAACCTGACCTAAAGACCTTGCACTTCGTGCCCGACCGCCGATTATA TCCCAGCGGGTGGCTGCGGTATCATGAGGAATAGAAG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003194 unedited</p> <pre> TCTTGGACCCGGCGCTATCTAGAGTCGAGTTTTTTTTTTTTTTTTTATAAACTGCATT TATTGTACAGAGTACTCCTGAAGAAAGAAAAAATATGTACAGCCATTCATTTTCATTAA CACATATATTCTGCTCCTGCAATACTGGAGAGGTGGAATGTGTCTGGCACAGAAATAACCC CTAGGAGTTATAAATTAGAAAAACAACACTTTTAAAAAAGATTTTACTTTTCTGGTAGA AATATAAAAACTGTGGTTCATGGGGAAAAACATTAATAAAGTCCAATCAATTATA GAGGTGGCTTTAACACTTAAAGTTTTCTCCCTCAAACCACTTGCAACAGCAGTGTATA AAATCTACATATAAATAATGGGAGCGCTGCCAGATAGCAGCACGGTATGAGCAACTC ACAGTCACGCTGCGCGGTGTTCTCAGTGACAAAATAATGCCCTTCCCAGCATCCCAGCG TGGGCACTTACAGAAGGGCATCACTGGTGCCACACCCTGCAACTCAACATCCATCTTCT CACAAACACCACCTTTAAAGGTACCAAAACAACTGATTTGTCTAAAAAACAACAA GGGGTGGGGGAGGCATGGGTACTTGAAGCCCTACTTCGTCTTCTGAATCCCTATAA ATATGGTAGATGCTCCCAATGCTCACAATTCCTGCCCTGACTTTTACACCTGGTAATA CAACTTTATCCGAAACCAACTCTCGCACAACCATCTGGGTTTGATCCTTCTGCACT TATACCCAGAAAATACCGTCGGCCACATACCACCTACTATGCGCTTGGGTGTAACCCCTG CACTATTCACCCTTATGAGCATCCCCATTTCCACTCCCCGCTCTAATCCCCACCTCTGA CTCTCTCAACCTCACTGGCAACGCCACTCTCTGTCTACTCTCTCATTTAACCCGTGNACC GACCCACCTGTATACCCACTGTCCTGCGCCTACTATATAC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003194
<b>Insert Size:</b>	1950 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_003194.3</a> , <a href="#">NP_003185.1</a>
<b>RefSeq Size:</b>	1867 bp
<b>RefSeq ORF:</b>	1020 bp
<b>Locus ID:</b>	6908
<b>UniProt ID:</b>	<a href="#">P20226</a>
<b>Cytogenetics:</b>	6q27
<b>Domains:</b>	TBP
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Basal transcription factors, Huntington's disease
<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 TBP, the TATA-binding protein. A distinctive feature of TBP is a long string of glutamines in the N-terminus. This region of the protein modulates the DNA binding activity of the C terminus, and modulation of DNA binding affects the rate of transcription complex formation and initiation of transcription. The number of CAG repeats encoding the polyglutamine tract is usually 25-42, and expansion of the number of repeats to 45-66 increases the length of the polyglutamine string and is associated with spinocerebellar ataxia 17, a neurodegenerative disorder classified as a polyglutamine disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>