

#### OriGene Technologies, Inc.

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# Product datasheet for SC328519

## TATA binding protein (TBP) (NM\_001172085) Human Untagged Clone

### Product data:

Product Type:	Expression Plasmids	
Product Name:	TATA binding protein (TBP) (NM_001172085) Human Untagged Clone	
Tag:	Tag Free	
Symbol:	TATA binding protein	
Synonyms:	GTF2D; GTF2D1; HDL4; SCA17; TFIID	
Mammalian Cell Selection:	Neomycin	
Vector:	PCMV6-Neo	
E. coli Selection:	Ampicillin (100 ug/mL)	
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001172085, the custom clone sequence may differ by one or more nucleotides	

<b>Restriction Sites:</b>	Please inquire
ACCN:	NM_001172085



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	ATA binding protein (TBP) (NM_001172085) Human Untagged Clone – SC328519
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 <u>custsupport@origene.com</u> 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. <u>More info</u>
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 Met	<ul> <li>centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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> </ul>
RefSeq:	<u>NM 001172085.1, NP 001165556.1</u>
RefSeq Size:	1719 bp
RefSeq ORF:	960 bp
Locus ID:	6908
UniProt ID:	<u>P20226</u>
Cytogenetics:	6q27
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Basal transcription factors, Huntington's disease

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#### CRIGENE TATA binding protein (TBP) (NM\_001172085) Human Untagged Clone – SC328519

Initiation of transcription by RNA polymerase II requires the activities of more than 70 Gene Summary: 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]

Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.

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