

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for RC210727

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

#### **Product data:**

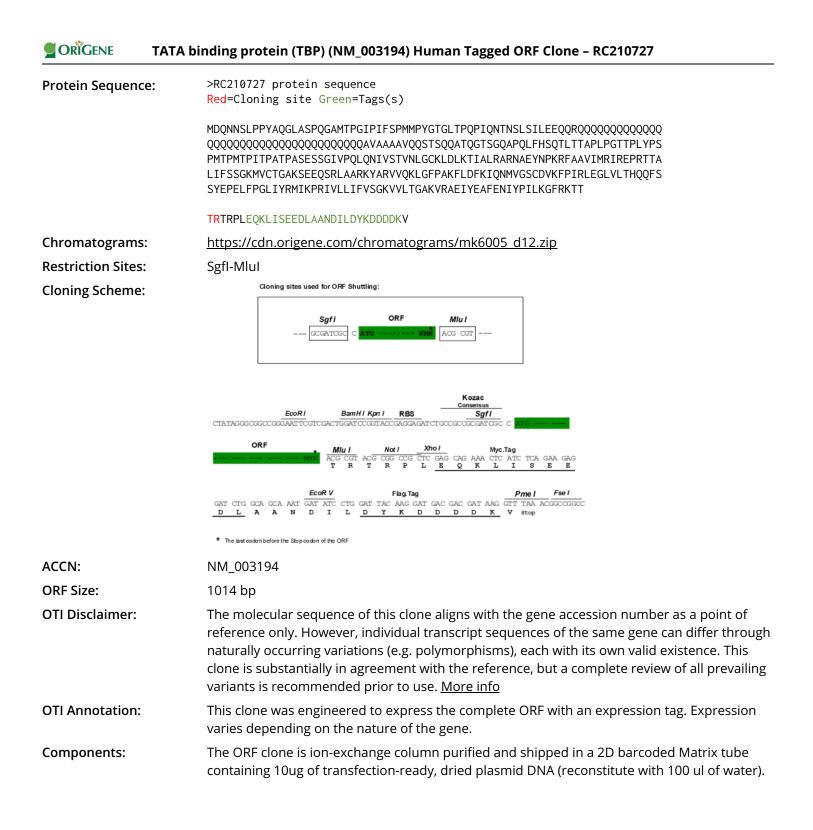
| Product Type:                | Expression Plasmids   |
|------------------------------|---|
| Product Name:                | TATA binding protein (TBP) (NM_003194) Human Tagged ORF Clone   |
| Tag:                         | Myc-DDK   |
| Symbol:                      | TATA binding protein  |
| Synonyms:                    | GTF2D; GTF2D1; HDL4; SCA17; TFIID   |
| Mammalian Cell<br>Selection: | Neomycin  |
| Vector:                      | pCMV6-Entry (PS100001)  |
| E. coli Selection:           | Kanamycin (25 ug/mL)  |
| ORF Nucleotide<br>Sequence:  | <pre>&gt;RC210727 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>                          |
|                              | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCC <mark>GCGATCGC</mark> C |

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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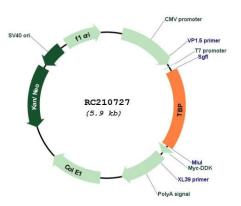
## **CRIGENE** TATA binding protein (TBP) (NM\_003194) Human Tagged ORF Clone – RC210727

| Reconstitution Method: | 1. Centrifuge at 5,000xg for 5min.<br>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:                | <u>NM 003194.5</u>  |
| RefSeq Size:           | 1921 bp   |
| RefSeq ORF:            | 1020 bp   |
| Locus ID:              | 6908  |
| UniProt ID:            | <u>P20226</u>   |
| Cytogenetics:          | 6q27  |
| Domains:               | ТВР   |
| Protein Families:      | Druggable Genome, Transcription Factors   |
| Protein Pathways:      | Basal transcription factors, Huntington's disease   |
| MW:                    | 37.6 kDa  |
| 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 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] |

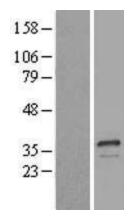
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### **Product images:**



Circular map for RC210727



Western blot validation of overexpression lysate (Cat# [LY401105]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210727 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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