Recombinant Human TATA-box-binding protein (TBP)

Product Code	CSB-YP023239HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P20226
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MDQNNSLPPY AQGLASPQGA MTPGIPIFSP MMPYGTGLTP QPIQNTNSLS ILEEQQRQQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQQQQQQ QQQQQAVAAA AVQQSTSQQA TQGTSGQAPQ LFHSQTLTTA PLPGTTPLYP SPMTPMTPIT PATPASESSG IVPQLQNIVS TVNLGCKLDL KTIALRARNA EYNPKRFAAV IMRIREPRTT ALIFSSGKMV CTGAKSEEQS RLAARKYARV VQKLGFPAKF LDFKIQNMVG SCDVKFPIRL EGLVLTHQQF SSYEPELFPG LIYRMIKPRI VLLIFVSGKV VLTGAKVRAE IYEAFENIYP ILKGFRKTT
Source	Yeast
Target Names	TBP
Protein Names	Recommended name: TATA-box-binding protein Alternative name(s): TATA sequence-binding protein TATA-binding factor TATA-box factor Transcription initiation factor TFIID TBP subunit
Expression Region	1-339
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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-terminal. 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. Mutations that expand the number of CAG repeats encoding this polyglutamine tract, and thus increase the

	length of the polyglutamine string, are associated with spinocerebellar ataxia 17, a neurodegenerative disorder classified as a polyglutamine disease.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.