

Product datasheet for **MG204589**

Tbp (NM_013684) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbp (NM_013684) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbp
Synonyms:	Gtf2d; GTF2D1; SCA17; TFIID
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204589 representing NM_013684 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAGAACAACAGCCTTCCACCTTATGCTCAGGGCTTGGCCTCCCCACAGGGCGCCATGACTCCTG
GAATCCCATCTTTAGTCCAATGATGCCTTACGGCACAGGACTTACTCCACAGCCTATTCAGAACACCAA
CAGTCTCTCTATTTTGAAGAGCAACAAAGACAGCAGCAGCAACAGCAACAGCAGCAGCAACAACAGCAG
GCAGTAGCAACTGCAGCAGCCTCAGTACAGCAATCAACATCTCAGCAACCCACACAGGGTGCCTCAGGCC
AGACCCCACTCTTCCATTCTCAAATCTGACCACTGCACCGTTGCCAGGCACCACCCCTTGTACCC
TTCACCAATGACTCCTATGACCCCTATCACTCCTGCCACACCAGTCTGAGAGCTCTGGAATTGTACCG
CAGCTTCAAAATATTGTATCTACCGTGAATCTTGCTGTAACCTGACCTAAAGACCATTGCACTTCGTG
CAAGAAATGCTGAATATAATCCAAGCGATTTGCTGCAGTCATCATGAGAATAAGAGAGCCACGGACAAC
TGCGTTGATTTTCAGTTCTGGAAAAATGGTGTGCACAGGAGCCAAGAGCTATGAGCCAGAATTATTTCT
GGATTAATCTACAGAATGATCAAACCCAGAATTGTTCTCCTTATTTTGTCTGGAAAAGTTGTATTAA
CAGGTGCTAAAGTTAGAGCAGAGATTTATGAAGCATTTGAAAACATCTACCCCATCTTAAAGGGATTTCAG
GAAGACCACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204589 representing NM_013684
Red=Cloning site Green=Tags(s)

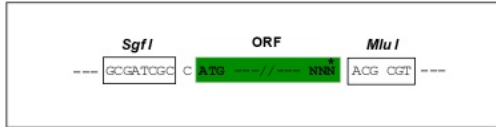
MDQNNSLPPYAQGLASPGAMTPGIPIFSPMPYGTGLTPQPIQNTNSLSILEEQQRQQQQQQQQQQQQQ
 AVATAAASVQQSTSQQPTQGASGQTPQLFHSQTLTTAPLPGTTPLYPSPMTPMTPITPATPASESSGIVP
 QLQNIIVSTVNLGCKLDLKTIALRARNAEYNPKRFAAVIMRIREPRTTALIFSSGKMVCTGAKSYEPFLFP
 GLIYRMIKPRIVLLIFVSGKVLLTGAKVRAEIEAFENIYPIILKGRKTT

TRTRPLE - GFP Tag - V

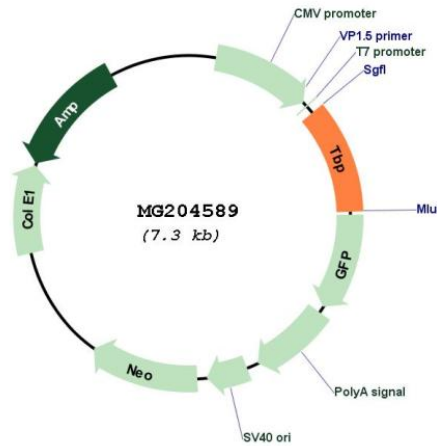
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_013684

ORF Size: 780 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_013684.2 , NP_038712.2
RefSeq Size:	1669 bp
RefSeq ORF:	951 bp
Locus ID:	21374
UniProt ID:	P29037
Cytogenetics:	17 8.95 cM
Gene Summary:	General transcription factor that functions at the core of the DNA-binding multiprotein factor TFIID. Binding of TFIID to the TATA box is the initial transcriptional step of the pre-initiation complex (PIC), playing a role in the activation of eukaryotic genes transcribed by RNA polymerase II. Component of a BRF2-containing transcription factor complex that regulates transcription mediated by RNA polymerase III. Component of the transcription factor SL1/TIF-IB complex, which is involved in the assembly of the PIC (pre-initiation complex) during RNA polymerase I-dependent transcription. The rate of PIC formation probably is primarily dependent on the rate of association of SL1 with the rDNA promoter. SL1 is involved in stabilization of nucleolar transcription factor 1/UBTF on rDNA.[UniProtKB/Swiss-Prot Function]