

Product datasheet for **MG204535**

Gtf2b (NM_145546) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2b (NM_145546) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gtf2b
Synonyms:	MGC6859
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204535 representing NM_145546 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGACCAGCCGTTTGGATGCTCTCCCAAGAGTCACATGTCCGAATCATCCAGATGCAATTTAG
TTGAAGACTACAGAGCTGGCGATATGATCTGTCCGAATGTGGCCTAGTTGTAGGGGACCGATTATTGA
TGTGGGATCTGAATGGAGAACTTTCAGCAATGACAAAGCAACAAAAGACCCATCTAGAGTTGGAGACTCT
CAGAATCCTCTTCTGAGTATGGAGATTTGTCCACCATGATTGGCAAGGGTACAGGAGCTGCAAGTTTTG
ATGAGTTTGGCAATTCTAAGTATCAGAACCGGAGAACAATGAGTAGCTCTGATCGAGCAATGATGAACGC
ATTC AAGGAAATCAGACCATGGCGGACAGAATCAACCTCCCTCGCAATATAGTTGATCGAACAAATAAT
TTATTC AAGCAAGTGTATGAGCAGAAGAGCCTGAAGGGCAGAGCTAATGACGCGATAGCCTCTGCTTGTG
TGTACATCGCCTGTAGACAAGAAGGCGTCCCAGGACATTTAAAGAAATATGTGCTGTGTCTCGAATCTC
TAAGAAAGAAATTGGCCGCTGTTTTAACTGATTTTGAAGCTCTGGAACCAGCGTGGATCTGATCACA
ACTGGGACTTCATGTCCAGTTCTGCTCAACCTTTGCCTCCCAAGCAAGTGCAGATGGCAGCTACAC
ACATAGCCCGAAGGCAGTGGAGCTGGACTTGGTTCCTGGCAGGAGCCCGATCTCTGTGGCGGCAGCAGC
TATTTACATGGCTTCCAGGCTTCAGCTGAGAAGCGAACACAGAAAGAAATCGGGGATATTGCTGGTGTT
GCTGATGTTACAATCCGACAGTCTACAGACTGATCTACCCTCGGGCTCCGGATCTTTCCCTTCAGACT
TCAAGTTTGACACCCAGTGGACAAATTACCCAGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204535 representing NM_145546
Red=Cloning site Green=Tags(s)

MASTRRLDALPRVTCPNHPDAILVEDYRAGDMICPECGLVVGDRVIDVGSEWRTF SNDKATKDPSRVGDS
 QNPLLSDGDLSTMI GKGTGAASFDEF GNSKYQNRRTMSSSDRAMNAFKEITTMADRINLPRNIVDR TNN
 LFKQVYEQKSLKGRANDAIASACLYIACRQEGVPRTFKEICAVSRISKKEIGRCFKLILKALET SVDLIT
 TGD FMSR FCSNLCLPKQVQMAATHIARKAVELDLV PGRSPISVAAAAIYMASQASAEKRTQKEIGDIAGV
 ADVTIRQSYRLIYPRAPDLFPSDFKFDTPVDKLPQL

TRTRPLE - GFP Tag - V

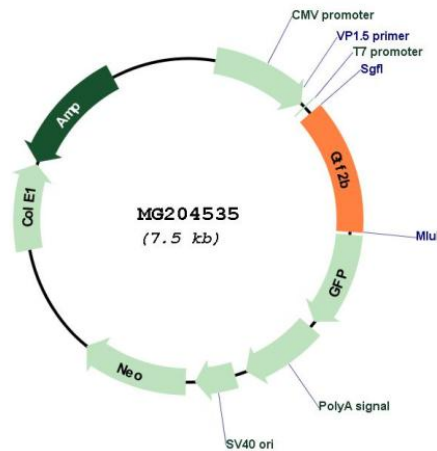
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_145546

ORF Size: 948 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_145546.1 , NP_663521.1
RefSeq Size:	1267 bp
RefSeq ORF:	951 bp
Locus ID:	229906
UniProt ID:	P62915
Cytogenetics:	3 H1
Gene Summary:	General transcription factor that plays a role in transcription initiation by RNA polymerase II (Pol II). Involved in the pre-initiation complex (PIC) formation and Pol II recruitment at promoter DNA. Together with the TATA box-bound TBP forms the core initiation complex and provides a bridge between TBP and the Pol II-TFIIF complex. Released from the PIC early following the onset of transcription during the initiation and elongation transition and reassociates with TBP during the next transcription cycle. Associates with chromatin to core promoter-specific regions. Binds to two distinct DNA core promoter consensus sequence elements in a TBP-independent manner; these IIB-recognition elements (BREs) are localized immediately upstream (BREu), 5'-[GC][GC][GA]CGCC-3', and downstream (BREd), 5'-[GA]T[TGA][TG][GT][TG][TG]-3', of the TATA box element. Modulates transcription start site selection. Exhibits also autoacetyltransferase activity that contributes to the activated transcription.[UniProtKB/Swiss-Prot Function]