

Product datasheet for **MG206208**

Gtf2h2 (NM_022011) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gtf2h2 (NM_022011) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gtf2h2
Synonyms: 44kDa; BTF2 p44; BTF2-p44; Btf2p44; p44
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206208 representing NM_022011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGAAGAACCTGAGAGAACCAAGCGGTGGGAAGGAGGCTATGAGAGAACCTGGGAAATTCCTAAAG
 AAGATGAAACTGGATCACTTAAAGCTACAATAGAAGATATTCTCTTCAAGGCAAAGAGGAAAAGAGTGTT
 TGAGCACCATGGACAAGTCCGACTTGGAAATGATGCGCCACCTGTATGTGGTGGTGGATCGAGAACA
 ATGGAAGATCAGGATTTAAAGCCCAATAGACTGACTTGCACCTTTAAAGTTGCTGGAATACTTTGTAGAAG
 AATATTTTGTATCAAAACCTATCAGTCAGATTGGAATAATTGTAACCTAAGAGTAAAAGAGCTGAAAACT
 GACTGAACTCTCAGGAAACCCAAGGAAACATATAACATCTTTGAAGAAAGCTGTAGATATGACCTGCCAT
 GGAGAACCATCGCTCTATAATTCCTTAAGCATGGCTATGCAGACCCTAAAACACATGCCTGGACATACAA
 GTAGAGAAGTGCTCATCATCTTCAGTAGCCTCACACCTGTGATCCATCTAATATTTACGATCTCATCAA
 GACCCTGAAGACAGCTAAAATTAGAGTGCTGTTATTGGATTATCTGCGGAGGTTTCGAGTTTGTACTGTA
 CTTGCTCGTGAAGTGGTGGCACATACCATGTTATCTTAGATGAAACCCATTACAAGGAGTTGTTGGCAC
 ATCATGTGAGCCCCCTTCTGCCAGCTCAAGCTCCGAGTGCTCACTCATTTCGCATGGGATTCCTCAGCA
 TACCATTGCTTCTTTGTCTGATCAGGATGCAAAACCATCCTTCAGCATGGCGCATTGGATAACAACAGC
 ACTGAGCCAGGGCTTACACTGGGAGGCTACTTCTGCCACAGTGCCGAGCAAAGTACTGCGAGCTTCCTG
 TTGAATGTAAAATATGTGGTCTTACTTTGGTGTCTGCACCTCATTGGCAAGATCTTACCATCATTTATT
 TCTTTGGATGCTTTTCAAGAAATTTCCCTAGAGAATATAAAGGAGAAAGGTTTTGTTATGGATGTCAG
 GGGGAATTGAAAGACCAACATGTCTATGTTGCACAGTGTGCCAAAATGTTTTTGTGTGGACTGTGATG
 TCTTTGTCATGACTCTCTCCATTGTTGCTGCTGTATTTCATAAGATCCCAACTCCTTCAGGTATT

AC**CGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206208 representing NM_022011
 Red=Cloning site Green=Tags(s)

MDEEPERTKRWEGGYERTWEILKEDETGSLKATIEDILFKAKRKRVFEEHGGVRLGMMRHLYVVVDGSR
 MEDQDLKPNRLTCTLKLLLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTELSGNPRKHITSLKKA
 VDMTCHGEP
 SLYNLSMAMQTLKHMPGHTSREVLIIIFSSLTTCDPSNIYDLIKTLKTAKIRVSVIGLSAEV
 RVCTV
 LARETG
 GTYHVILDETHYKELLAAHV
 SPLPASSS
 SECSLIRM
 GFFPQHTIASLSDQDAKPSFSMAHLDNNS
 TEPGLTLGGYFCQCR
 AKYCELPVECKICGLTLVSAPHLARSYHHLFPLDAFQEISL
 EYKGERFCYGCQ
 GELKDQHVYVCTVCQNVFCVDCDVFVHDSLHCCPGCIHKIPTPSGI

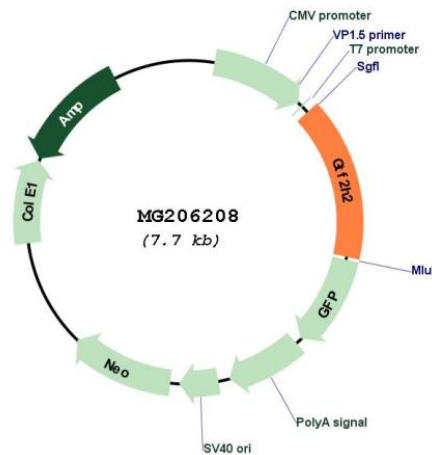
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022011

ORF Size:	1188 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_022011.3
RefSeq Size:	1684 bp
RefSeq ORF:	1191 bp
Locus ID:	23894
UniProt ID:	Q9JIB4
Cytogenetics:	13 53.21 cM
Gene Summary:	Component of the general transcription and DNA repair factor IIF (TFIIF) core complex, which is involved in general and transcription-coupled nucleotide excision repair (NER) of damaged DNA and, when complexed to CAK, in RNA transcription by RNA polymerase II. In NER, TFIIF acts by opening DNA around the lesion to allow the excision of the damaged oligonucleotide and its replacement by a new DNA fragment. In transcription, TFIIF has an essential role in transcription initiation. When the pre-initiation complex (PIC) has been established, TFIIF is required for promoter opening and promoter escape. Phosphorylation of the C-terminal tail (CTD) of the largest subunit of RNA polymerase II by the kinase module CAK controls the initiation of transcription. The N-terminus of GTF2H2 interacts with and regulates XPD whereas an intact C-terminus is required for a successful escape of RNAP II from the promoter.[UniProtKB/Swiss-Prot Function]