

## Product datasheet for MR223406

### Gtf2a1 (NM\_031391) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2a1 (NM_031391) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtf2a1
Synonyms:	6330549H03Rik; AA536742; AA959775; AW060250; Tfii1; TfiiAa/b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223406 representing NM_031391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAACTCGGCAAACACAAACACCGTGCCTAAATTGTATAGATCTGTGATTGAAGATGTTATTAATG  
ACGTACGAGACATTTTTCTGGATGACGGAGTGGATGAACAAGTCTGATGGAACAAAACTTTGTGGGA  
GAATAAATAATGCAGTCTAGGGCAGTAGATGGATTTTCATTGAGAAGAACAGCAGCTTTTGTGCAAGTT  
CAGCAGCAGCATCAACCCAGCAGCAGCAGCATCACCACCACCACCAGCACCAGCAAGCGCAACCTC  
AGCAAACGGTACCTCAGCAAGCACAGACCCAGCAGGTCCCTCATTCTGCATCCCAGCAAGCTACAGCACC  
ACAAGTTATTGTTCTGATTCTAAGTTGCTACAACATATGAATGCATCAAGTATTACGAGTGTCTGCT  
ACAGCTGTACCTTGGCACTGCCTGCAGGAGTGACTCCGGTTCAACAGCTACTAACAATTCAGGCCAGC  
TGCTTCAGGTGGTCAGAGCAGCCAATGGTGCCAGTATATCTTGCAGCCTCAGCAGTCAGTTGTTCTACA  
ACAACAAGTTATACCACAAATGCAGCCTGGTGGAGTCCAAGTCTCTGTTATCCAGCAGGTCTTAGCCCCA  
CTTCTGGAGGGATTTACCACAGACAGGCGTCATCATCCAGCCACAGCAAACTTTATTTACAGGAAATA  
AGACTCAGGTCAATCCTACAACAGTGGCAGCACCCGCCCCGGCACAAGCGCCGATGCCTGCAGCCGGACA  
GCAGCAGCCACAGGCCAGCCTGCCAACAGCAAGCTCCGTTGGTGTGCAAGTTGATGGAACAGGGGAT  
ACATCTTCTGAGGAAGATGAAGATGAAGAAGAAGACTATGATGATGAGGAAGAGATAAAGAGAAAG  
ATGGAGCTGAAGATGGGCAGGTGGAAGAAGAGCCGCTCAACAGCGAGGATGACGTGACGAGGAAAGG  
GCAGGAACTCTTTGACACTGAGAATGTTGTCTGCTGCCAGTATGATAAGATACACAGAAGTAAAAATAAA  
TGGAAATTTTCATCTCAAGGATGGCATTATGAATCTTAACGGAAGAGATTATATTTTTCCAAAGCCATTG  
GAGATGCAGAGTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR223406 representing NM\_031391  
Red=Cloning site Green=Tags(s)

MANSANTNTVPKLYRSVIEDVINDVRDIFLDDGVDEQVLMELKTLWENKLMQSRAVDGFHSEEQQLLQV  
 QQQHQPQQQHHHHHHQHQAQPQQTPVQQAQTQQVLIPASQQATAPQVI VPD SKLLQHMNASSITSAAA  
 TAATLALPAGVTPVQQLLTNSGQLLQVRAANGAQYILQPQQSVLVQQQVIPQMPPGGVQAPVIQQVLAP  
 LPGGISPQTGVIIQPQQILFTGNKTQVIPTTVAAPAPAQAPMPAAGQQQPQAQPAQQQAPLVLQVDGTGD  
 TSSEDEDEEEDYDDDEEEDKEKDKGAEDGQVEEEPLNSEDDVSDEEGQELFDTENVVVCQYDKIHRSKNK  
 WKFHLKDGIMNLRDYLIFSKAIGDAEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9080\\_b06.zip](https://cdn.origene.com/chromatograms/mm9080_b06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_031391

**ORF Size:** 1134 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:**

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\\_031391.2](#), [NP\\_113568.2](#)

**RefSeq Size:** 5704 bp

**RefSeq ORF:** 1137 bp

**Locus ID:** 83602

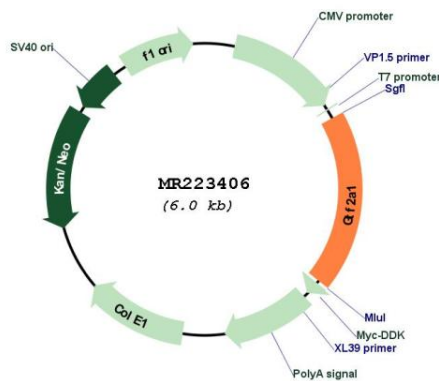
**UniProt ID:** [Q99PM3](#)

**Cytogenetics:** 12

**MW:** 41.6 kDa

**Gene Summary:** TFIIA is a component of the transcription machinery of RNA polymerase II and plays an important role in transcriptional activation. TFIIA in a complex with TBP mediates transcriptional activity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR223406