

Product datasheet for **MG223402**

Gtf2a1 (NM_175335) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2a1 (NM_175335) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gtf2a1
Synonyms:	6330549H03Rik; AA536742; AA959775; AW060250; Tfii1; TfiiAa/b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223402 representing NM_175335 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACTCGGCAAACACAAACACCGTGCCTAAATTGTATAGATCTGTGATTGAAGATGTTATTAATG
ACGTACGAGACATTTTTCTGGATGACGGAGTGGATGAACAAGTCTGATGGAACAAAACTTTGTGGGA
GAATAAATAATGCAGTCTAGGGCAGTAGATGGATTTTCATTGAGAAGAACAGCAGCTTTTGTGCAAGTT
CAGCAGCAGCATCAACCCAGCAGCAGCAGCATCACACCACCACCAGCAGCAGCAAGCGCAACCTC
AGCAAACGGTACCTCAGCAAGCACAGACCCAGCAGGTCCCTCATTCTGCATCCCAGCAAGCTACAGCACC
ACAAGTTATTGTTCTGATTCTAAGTTGCTACAACATATGAATGCATCAAGTATTACGAGTGTCTGCT
ACAGCTGTACTCTGGCACTGCCTGCAGGAGTACTCCGGTTCAACAGCTACTAACAATTCAGGCCAGC
TGCTTCAGGTGGTCAAGCAGCAATGGTGCAGTATATCTTGCAGCCTCAGCAGTCAAGTTGTTCTACA
ACAACAAGTTATACCACAAATGCAGCCTGGTGGAGTCCAAGTCTCTGTTATCCAGCAGGTCTTAGCCCCA
CTTCTGGAGGGATTTACCACAGACAGGCGTCATCATCCAGCCACAGCAAACTTTATTTACAGGAAATA
AGACTCAGGTCAATCCTACAACAGTGGCAGCACCCGCCCCGGCACAAGCGCCGATGCCTGCAGCCGGACA
GCAGCAGCCACAGGCCAGCCTGCCAACAGCAAGCTCCGTTGGTGTGCAAGTTGATGGAACAGGGGAT
ACATCTTCTGAGGAAGATGAAGATGAAGAAGAAGACTATGATGATGAGGAAGAGATAAAGAGAAAG
ATGGAGCTGAAGATGGGCAGGTGGAAGAAGAGCCGCTCAACAGCGAGGATGACGTGATGTCGAGGAAGG
GCAGGAACTCTTTGACACTGAGAATGTTGTCTGCTGCCAGTATGATAAGATACACAGAAGTAAAAATAAA
TGGAAATTTTCATCTCAAGGATGGCATTATGAATCTTAACGGAAGAGATTATATTTTTCCAAAGCCATTG
GAGATGCAGAGTGG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223402 representing NM_175335
 Red=Cloning site Green=Tags(s)

MANSANTNTVPKLYRSVIEDVINDVRDIFLDDGVDEQVLMELKTLWENKLMQSRVVDGFHSEEQQLLQV
 QQQHQPQQQHHHHHHQHQAQPQQTVPQQAQTQQVLIPASQQATAPQVI VPD SKLLQHMNASSITSA
 TAATLALPAGVTPVQQLLTNSGQLLQVRAANGAQYILQPQSVVLQQQVIPQMOPGGVQAPVIQQVLAP
 LPGGISPQTGVIIQPQQILFTGNKTQVIPTTVAAPAPAQAPMPAAGQQPQAQPAQQQAPLVLQVDGTGD
 TSSEDEDEEEDYDDDEEEDKEKDGAE DGQVEEEPLNSEDDVSVEEGQELFDTENVVVCQYDKIHR SKNK
 WKFHLKDGIMN LNGRDYIFSKAIGDAEW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175335

ORF Size: 1017 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_175335.3](#), [NP_780544.1](#)

RefSeq Size: 5691 bp

RefSeq ORF: 1020 bp

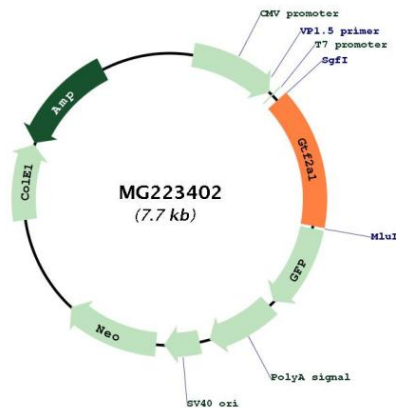
Locus ID: 83602

UniProt ID: [Q99PM3](#)

Cytogenetics: 12

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 MG223402