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# Product datasheet for MG223388

## Gtf3a (NM_025652) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Gtf3a (NM_025652) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Gtf3a |
| **Synonyms:** | 2010015D03Rik; 2610111I01Rik; 5330403M05Rik |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

**ORF Nucleotide Sequence:**

>MG223388 representing NM_025652
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

CTGGAGCCGCGGGTGTCAGTCGCGGAAGCGGTGTCGTCGCTGACCATCGCGGATGCGTTCGTCGGGGCCT
GTGAGGGCCCCGCGCCGCCGCGCCCCGCGCTGCCCAGCAGGTTCATCTGCTCCTTTCCCGACTGCAGCGC
CAGTTACAACAAAGCCTGGAAGCTAGACGCGCACCTATGCAAACACACGGGGGAGAGGCCATTTGTTTGC
GACTATGAGGGCTGTGGCAAGGCCTTCATCAGAGACTACCATCTGAGCCGGCATGTCCTGATTCACACCG
GGGAAAAGCCGTTTGTTTGTGCAGATGATGGCTGTAATCAGAAATTCAACACAAAATCAAACTTGAAGAA
ACACATTGAACGCAAACATGGAAACCCACAAAAACAGTATGTGTGCAGTTATGAGGGTTGCAAGAAGGCC
TTTAAGAAGCACCAGCAGCTGAGAACCCATCAGTGCCAGCACACCAGCGAGCCGCTCTTCAGGTGTACCC
ACGAGGGATGCGGGAAGCACTTTGCCTCGCCCAGCAGGCTGAAACGGCATGGGAAAGTTCACGAGGGCTA
CCTGTGTCAAAAGGGATGTTCTTTCATGGGAAAAACGTGGACAGAGCTCCTGAAACACATGAGAGAAGCC
CATAAAGAGGACATAACCTGCAATGTATGTCAGAGGATGTTCAAGCGCAGAGATTACCTTAAGCAGCACA
TGAAGACTCACGCCCCGGAAAGGGATGTGTACCGCTGTCCGCGGCAAGGCTGCGGAAGAACCTACACAAC
CGTGTTCAACCTGCAGAGCCACATTCTCTCCTTCCACGAGGAAAAGCGCCCATTTGTGTGTGAGCACGCT
GGCTGTGGCAAGACATTCGCAATGAAACAGAGTCTCATGAGGCACAGTGTCGTGCACGATCCCGACAAGA
AGAGGATGAAGCTCAAAGTAAGAGCCCCTCGGGAGAGACGCAGCTTGGCCTCTCGCCTCAGTGGGTACTT
CCCTCCTAAGAGGAAACAAGAGCCCGACTACTCCTTGCCTAACGCCAGCGCAGAGTCCAGCAGCAGCCCA
GAGGCCCAGCTGCCCCCGCCAGCCGCCTTACTCACTGTCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:**

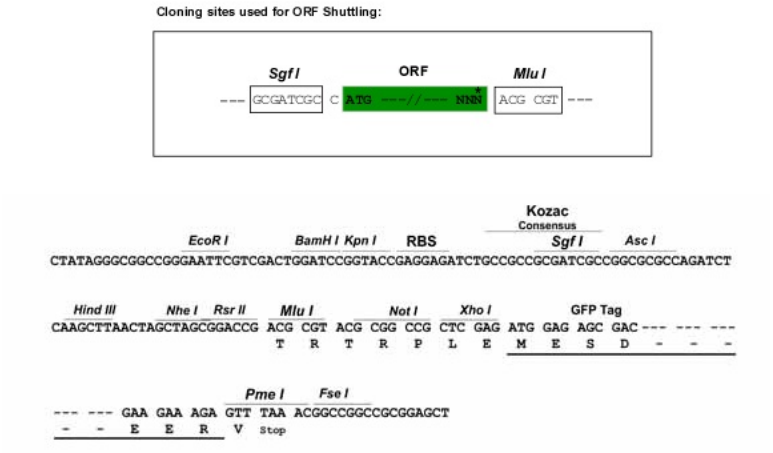
>MG223388 representing NM_025652
Red=Cloning site Green=Tags(s)

LEPRVSVAEAVSSLTIADAFVGACEGPAPPRPALPSRFICSFPDCSASYNKAWKLDAHLCKHTGERPFVC
DYEGCGKAFIRDYHLSRHVLIHTGEKPFVCADDGCNQKFNTKSNLKKHIERKHGNPQKQYVCSYEGCKKA
FKKHQQLRTHQCQHTSEPLFRCTHEGCGKHFASPSRLKRHGKVHEGYLCQKGCSFMGKTWTELLKHMREA
HKEDITCNVCQRMFKRRDYLKQHMKTHAPERDVYRCPRQGCGRTYTTVFNLQSHILSFHEEKRPFVCEHA
GCGKTFAMKQSLMRHSVVHDPDKKRMKLKVRAPRERRSLASRLSGYFPPKRKQEPDYSLPNASAESSSSP
EAQLPPPAALLTVC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_025652

**ORF Size:** 1092 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_025652.3, NP_079928.2

**RefSeq Size:** 1315 bp

**RefSeq ORF:** 1095 bp

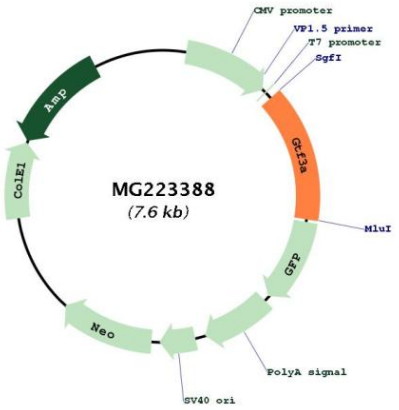
**Locus ID:** 66596

**UniProt ID:** Q8VHT7

**Cytogenetics:** 5 G3

**Gene Summary:** The product of this gene is a zinc finger protein with nine Cis[2]-His[2] zinc finger domains. It functions as an RNA polymerase III transcription factor to induce transcription of the 5S rRNA genes. The protein binds to a 50 bp internal promoter in the 5S genes called the internal control region (ICR), and nucleates formation of a stable preinitiation complex. This complex recruits the TFIIIC and TFIIIB transcription factors and RNA polymerase III to form the complete transcription complex. The protein is thought to be translated using a non-AUG translation initiation site in mammals based on sequence analysis, protein homology, and the size of the purified protein. [provided by RefSeq, Jul 2008]

## Product images:




Circular map for MG223388