

## Product datasheet for **MG223431**

### Tbata (NM\_001017407) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tbata (NM\_001017407) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tbata  
**Synonyms:** 1700021K02Rik; AI428928; S; Spatial; Titest  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223431 representing NM\_001017407  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

CTGTTTCTGGGAATGTATATAAGGGGAGTTTAGCACCTCGTAGGGATGAGGTGACTAGTCCAAAGGCAG  
 AGCCCCAGCCAGAGACGAAGCCGAGAACCTTCCAAGGAGCCACGGGGATGTTGGGCTCCAGAAAGAGAC  
 TGTGGTCCAGGCATTGTGGATTTCGAGCTGATCCATGAGGAGCTGAAGACCACAAAGCCCCAAACATCA  
 CAACCAACACCCAGTGCCTACCGCTTTGGACGCCTAAGCCACCATTCTTCTTCGAGGCACCACCCCC  
 AACCCACAGCGAGTGACTCATATCCAAGATATCGCTGGGAAGCCTGTCTGCGTGGTCAGGGACGAGTTCTC  
 TCTGTCCGGCTTGACTCAGCCCACATTCTATCCCGCTGTCTGATGGGGATGCCACCATCTCTGTCCCC  
 ATTGGGGATCCACAGTCCAATCGGAACCCAGCTTTCTACTTCTGACACCTGGAGGAAGAACTGAAGG  
 ACCTGGCTTCCCGAGTGACTGTCTTCACTAAGGAAATCCAGCCAAAGCCCGATGAGGTTGGTGTGCACA  
 AAGAATGGAGCCTAGAAAAAAAAGGCCTTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

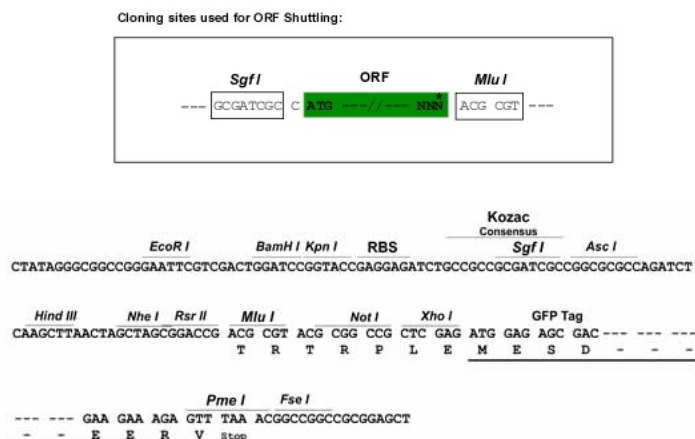
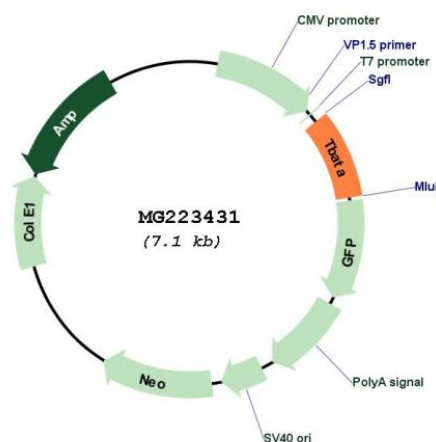
**Protein Sequence:** >MG223431 representing NM\_001017407  
 Red=Cloning site Green=Tags(s)

LFLGNVYKGS LAPRRDEVTS PKAEPQPETK PENLPRSHGDVGLQKETVVP GIVDFELIHEELKTTKPQTS  
 QPTPSAYRFGR LSHHSFFSRHHPQPQRVTHIQDIAGKPV CVRDEFSLSALTQPTFLSRCLMGMPTISVP  
 IGDPQSNRNPQLSTSDTWRK KLDLASRVTVFTKEIQPKPDEVGVAQRMEPRKKRPS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001017407

**ORF Size:** 591 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\\_001017407.1](#), [NP\\_001017407.1](#)

**RefSeq Size:** 932 bp

**RefSeq ORF:** 594 bp

**Locus ID:** 65971

**UniProt ID:** [Q7TSD4](#)

**Cytogenetics:** 10 B4

**Gene Summary:** This gene encodes a putative transcription factor that is highly expressed in thymic cortical stromal cells, and may be involved in T-cell development. Its expression is developmentally regulated in the testis, where it is restricted to the haploid round spermatids during spermatogenesis, and thus this gene may also have a role in the control of male germ cell development. Alternative splicing of this gene results in two sets of transcript variants: the variants containing 5 additional exons at the 3' end encode long isoforms that are highly expressed in the testis, while the variants lacking the 3' end exons encode short isoforms that are highly expressed in the thymus. Most of the transcripts encoding the short isoforms have been shown to initiate translation from non-AUG (CUG) start sites. [provided by RefSeq, Jul 2008]