

## Product datasheet for **MG203666**

### Tef (BC017689) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tef (BC017689) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tef
Synonyms:	2310028D20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203666 representing BC017689 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACATGCCTGAGGTCCCTCAAGTCCCTGCTGGAGCATTCTTTGCCTTGGTCAGAGAAGAAGGCAGATA  
AGGAAAAGGGGAAGGAAAAGCTGGAGGAAGACGAGTCAGCAGCAGCCAGTACCATGGCCGTCTCTGCCTC  
CCTCATGCCACCCATCTGGGACAAGACCATCCCCTACGATGGCGAGTCTTCCACCTCGAGTACATGGAC  
CTGGATGAGTTCCTGCTGGAGAACGGCATCCCTGCCAGCCCCACCCACCTGGCACAGAACCTGCTGCTGC  
CTGTGGCAGAGCTTGAAGGAAAGGAGTCTGCCAGCTCTTCCACGGCATCGCCACCATCTTCTCTACTGC  
CATCTTTCAGCCCTCGGAAACCGTGTCCAGCACAGAATCGTCCTTGGAAAAGGAGAGGGAGACCCCAAGT  
CCCATCGACCCAGCTGTGTGGAGTGCATGTGAACCTCAACCCTGACCTGCCGACCTGGTCTCTCTA  
GTGTACCAGGGGGGAGCTCTTCAACCCTCGGAAGCACAGGTTTGCAGAGGAGGACCTGAAGCCCCAGCC  
CATGATCAAAAAGCCAAGAAAGTCTTTGTCCCTGATGAACAGAAGGATGAAAAGTATTGGACAAGACGT  
AAGAAGAACAATGTGGCAGCTAAACGCTCCCGGATGCCAGGCGCCTGAAGGAGAACCAGATCACCATCC  
GGGCAGCCTTCTGGAGAAGGAGAACACAGCCCTGCCGACGGAGTTGCCGAGCTTCGAAGGAGGTGGG  
CAAGTGAAGACCATCGTGTCCAAGTACGAGACCAAGTACGGCCCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203666 representing BC017689  
 Red=Cloning site Green=Tags(s)

MDMPEVLKSLLEHSLPWSEKKADKEKGEKLEEDESAASSTMAVSASLMPPIWDKTIPTYDGESFHLEYMD  
 LDEFLLLENGIPASPTHLAQNLLLPVALEGGESASSTASPPSSSTAIFQPSETVSTESSLEKERETPS  
 PIDPSCVEVDVNFNPDADLVLSVYPGGELFNPRKHRFAEEDLKPQPMIKKAKKVFVPDEQKDEKYWTRR  
 KKNVAAKRSRDARRLKENQITIRAAFLKENTALRTEVAELRKEVKGCKTIVSKYETKYGPL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC017689

**ORF Size:** 819 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:** [BC017689](#), [AAH17689](#)

**RefSeq Size:** 4018 bp

**RefSeq ORF:** 821 bp

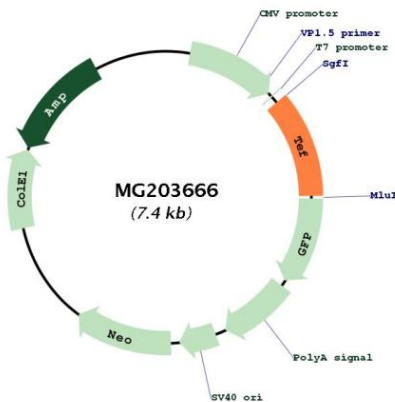
**Locus ID:** 21685

**Cytogenetics:** 15 38.25 cM

**MW:** 30.6 kDa

**Gene Summary:** Transcription factor that binds to and transactivates the TSHB promoter. Binds to a minimal DNA-binding sequence 5'-[TC][AG][AG]TTA[TC][AG]-3' (By similarity). Also activates the telokin promoter in smooth muscle-specific and calcium-dependent manner.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG203666