

## Product datasheet for **MG222945**

### **Tgfb1 (NM\_009369) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tgfb1 (NM_009369) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tgfb1
Synonyms:	68kDa; AI181842; AI747162; Beta-ig; big-h3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG222945 representing NM\_009369  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCTCCTCATGCGACTGCTGACCCTCGTCTGGCACTGTCTGTGGGCCCGCTGGGACCCTTGACAG  
 GTCCCGCCAAGTACCCTACCAGCTGGTGTGACGATAGCCGGCTCCGGGGTCGCCAGCAGCGCCCAA  
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 AGAAAAGTTGCCAGCAGCTCTCCGCTCTCAAATCTGTATGAGACCATGGGAGTTGTGGGATCGACCAC  
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 CGGCATGACCCTCACCTCCATGTACCAGAATCCAACATCCAGATCCATCACTATCCCAATGGGATTGTA  
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 AGGTCAATTTCCACCATCACCAACAACATCCAGCAGATCATTGAAATCGAGGACACCTTTGAGACACTTCG  
 GGCCGCGTGGCTGCATCAGGACTCAATACCGTGTGGAGGGCGACGGCCAGTTCACGCTCTTGGCCCA  
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 GGAGACCTGGGGGACCACTGGAGGTGGCTGCAGTGGGGACAAGCTCACCATCAACGGGAAGGCT  
 GTCATCTCCAACAAGACATCCTGGCCACCAACGGTGTCAATTCATTTATTGATGAGCTGCTTATCCCAG  
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 GGCCCTGGTGGCGCTGAAGTCTCTCAAGGGGACAACTGGAAGTCAGCTCGAAAAACAATGTAGTGAG  
 TGCAATAAAGGAGCCTGTTGCCGAAACCGACATCATGGCCACAAACGGTGTGGTCTATGCCATCAACACT  
 GTTCTGCAGCCGCCAGCAACCGACCAAGAACGAGGAGATGAGCTGGCAGACTCTGCCCTTGAATCT  
 TCAAACAGGCGTCAGCGTATTCCAGGGCTGCCAGAGGTCTGTGCGACTTGCCCTGTCTATCAGCGGT  
 ACTGGAGAGGATGAAGCAT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

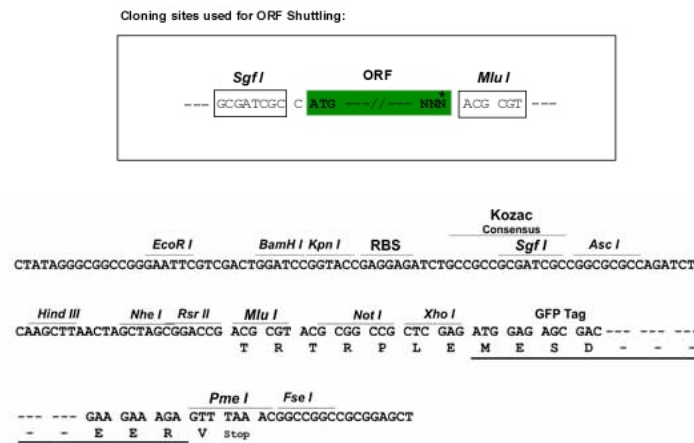
**Protein Sequence:** >MG222945 representing NM\_009369  
 Red=Cloning site Green=Tags(s)

```
MALLMRLTLALALSVGPAGTLAGPAKSPYQLVLQHSRLRGRQHGPNVCAVQKVIQGNKKYFTNCKQWYQ
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LFTMDRMLTPPMGTVMVDLKGDNRF SMLVAIQSAGLMEILNREGVYTVFAPTNEAFQAMPPEELNKLLA
NAKELTNILKYHIGDEILVSGGIGALVRLKSLQGDKLEVSNNVSVNKEPVAETDIMATNGVVYVAINT
VLQPPANRPQERGDLEADSALEIFKQASAYSRAAQRSVRLAPVYQRLLEMKH
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009369

**ORF Size:** 2049 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\\_009369.4](#), [NP\\_033395.1](#)

**RefSeq Size:** 2678 bp

**RefSeq ORF:** 2052 bp

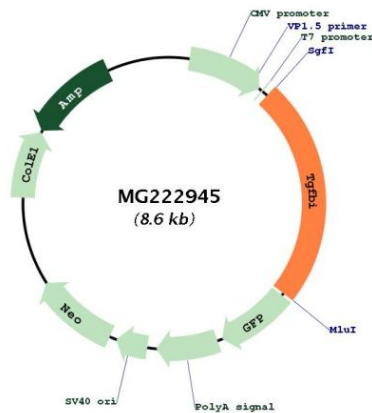
**Locus ID:** 21810

**UniProt ID:** [P82198](#)

**Cytogenetics:** 13 30.09 cM

**Gene Summary:** Plays a role in cell adhesion (PubMed:8024701). May play a role in cell-collagen interactions (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG222945