

## Product datasheet for **MG227369**

### **Tbx5 (NM\_011537) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tbx5 (NM_011537) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbx5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG227369 representing NM\_011537  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGATACAGATGAGGGCTTTGGCCTGGCGCGCAGCCTCTGGAGCCTGATTCCAAAGACAGGTCTT  
 GCGATTGAAACCTGAGAGTGTCTGGGGCTCCAGCAAGTCTCCATCATCCCCGAGGCTGCCTTCAC  
 CCAGCAGGGCATGGAAGGAATCAAGGTGTTTCTCATGAACGTGAACTGTGGCTGAAGTCCACGAAGTG  
 GGCACAGAGATGATCATACCAAGGCAGGGAGGAGAATGTTTCTAGTTACAAAGTGAAGGTGACTGGCC  
 TTAATCCAAAACGAAGTATATTCTTCTCATGGATATTGTTCCCGCAGACGACCACAGATATAAATTTGC  
 TGATAACAAATGGTCCGTAAGTGGCAAAGCAGAGCCTGCCATGCCGGGGCGCCTTACGTGCACCCGGAC  
 TCCCCAGCAACCGGAGCCCACTGGATGCGACAATTGTCTCTCCAGAAGCTCAAACCTACCAACAACC  
 ACCTGGACCCGTTTGGACACATTATCCTGAACCTCATGCACAAAACCAGCCCGATTACACATCGTGAA  
 AGCAGACGAAAAAATGGGTTTCGGTTCAAAGAACACTGCGTTTTGCACCCACGTCTTCCCGGAGACAGCT  
 TTTATCGCTGTGACTTCGTACCAGAATCACAAGATCACACAGCTGAAAATTGAGAACAACCCCTTCGCCA  
 AAGGCTTTCGGGGCAGTGATGACCTGGAGTTACACAGGATGTCTCGGATGCAAAGTAAAGAGTATCCTGT  
 GGTTCCAGGAGCACAGTGAGGCACAAAGTACCTCCAACCACAGCCCTTCAGCAGCGAGACCCGAGCT  
 CTCTCCACCTCATCCAATTTAGGGTCCCAGTACCAGTGTGAGAATGGTGTCTCTGGCCCTCCAGGACC  
 TTCTGCCCCACCTAACCATACCCACTGGCCAGGAGCACAGCCAAATTTACACTGTACCAAGAGGAA  
 AGATGAGGAATGTTCCAGCACGGAGCACCCCTATAAGAAGCCGTACATGGAGACATCCCCAGCGAGGAA  
 GACACCTTCTATCGCTCGGGCTACCCAGCAGCAGGGCCTGAGTACCTTTACAGGACAGAGTCGGCCC  
 AGCGGCAGGCCTGCATGTATGCCAGCTCCGCTCCCCCAGCGAGCCCGTGCCTAGCCTGGAGGACATCAG  
 CTGTAACACATGGCCAGCATGCCCTCCTATAGCAGCTGTACCGTACCACCGTGCAGCCATGGACCGT  
 CTTCCCTACCAGCACTTCTCCGCTATTTCACCTCGGGGCCCTGGTCCCTCGGTTGGCTGGCATGGCCA  
 ACCATGGTTCTCCCAGCTCGGCGAAGGGATGTTTCCAGCACCAGACCTCAGTGGCCCATCAGCCTGTGGT  
 CAGGCAGTGGGGCCTCAGACTGGCCTTCACTCTCCGGCGGCCCTCCAGCCCCAGAGTTTCTCTACTACT  
 CACGGCGTGGCCAGGACCCTGTCCCCCATCAGTACTCGGTACACGGCGTGGCATGGTCCAGAGT  
 GGAGTGAGAATAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG227369 representing NM\_011537  
 Red=Cloning site Green=Tags(s)

MADTDEGFLARTPLEPDSKDRSCDSKPESALGAPSKSPSSPQAAFTQQGMEGIKVFHERELWLKFHEV  
 GTEMIITKAGRRMFPSYKVKVTGLNPKTKYILLMDIVPADDHRYKFADNKWSVTGKAEPAMPGRLYVHPD  
 SPATGAHWMRQLVSFQKLKLTNNHLDPFGHIILNSMHKYQPRLHIVKADENNGFGSKNTAFCTHVPETA  
 FIAVTSYQNHKITQLKIENPFKGFGRSDDLELHRMSRMQSKEYPVVPRSTVRHKVTSNHSPFSSETRA  
 LSTSSNLGSQYQCENGVSGPSQDLLPPNPYPLAQEHSQIYHCTKRKDEECSSTEHPYKPKPYMETSPSEE  
 DTFYRSGYPQQGLSTSYRTESAQRQACMYASSAPPSEPVPSPLEDISCNTWPSMPSYSSCTVTTVQPMDR  
 LPYQHFSAHFTSGPLVPRLAGMANHGSPQLGEGMFQHQTSVAHQPVVRQCGPQTGLQSPGGLQPPEFLYT  
 HGVPRTLSPHQYHSVHGVGMVPEWSENS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_011537

**ORF Size:** 1554 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\\_011537.3](#), [NP\\_035667.1](#)

**RefSeq Size:** 3941 bp

**RefSeq ORF:** 1557 bp

**Locus ID:** 21388

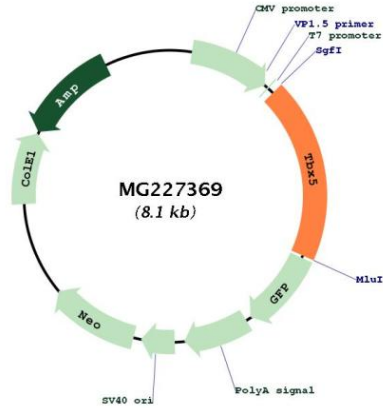
**UniProt ID:** [P70326](#)

**Cytogenetics:** 5 60.42 cM

**Gene Summary:**

DNA-binding protein that regulates the transcription of several genes and is involved in heart development and limb pattern formation. Binds to the core DNA motif of NPPA promoter. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG227369