

Product datasheet for **MG226797**

Tbx2 (NM_009324) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tbx2 (NM_009324) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Tbx2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MG226797 representing NM_009324
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGAGCCGGCGCTGGCAGCCAGCCCATGGCTTACCACCCGTTCCACGCGCCACGGCCCGCGACT
 TCCCCATGTCGCTTCTTGGCGGACGCGAGCCCTCCTTCTCCGCGCTAGCGCTGCCGCCGGCGC
 GCTAGGCAAGCCTCTGCCGACCCGGCCCTGGCGGGGGCGGCGCGCGCAGCAGCGCGCGCGCGGCG
 GCCGAGCGGGGCTGCACGTCTCGGCACTCGGCCCGCACCCGCCCGCGCATCTGCGCTCGTCAAGA
 GCCTGGAACCCGAGGACGAGGTGGAGGACGACCCCAAGGTGACGCTGGAGGCCAAGGAGCTGTGGGACCA
 GTTCCACAAGCTGGGCACCGAGATGGTCATCACCAAGTCCGGGAGGCGGATGTTCCCCCCTTCAAGGTG
 CGAGTCAGCGGCTGGACAAGAAAGCCAAATACATCCTGCTAATGGACATCGTGGCTGCCGATGACTGCC
 GCTATAAGTTTCAAACTCCCGTGGATGGTGGCAGGCAAGCCGACCCCGAGATGCCTAAACGCATGTA
 CATCCACCCGACAGTCCGGCCACAGGGGAACAGTGGATGGCCAAGCCTGTGGCCTTCCACAACCTGAAG
 CTGACCAACAACATTTCTGACAAGCATGGCTTTACCATCCTGAACTCCATGCACAAGTACCGACCCGAT
 TCCACATCGTGGCAGCCAATGACATCTTGAAGCTCCCATACAGCACCTTCCGCACCTATGTCTTCCAGA
 GACCGACTTATCGCTGTCACTGCCTACCAGAATGACAAGATTACACAGCTGAAGATCGACAACAACCCC
 TTTGCCAAGGGCTTCCGGGACACTGGGAACGGCCGTCCGGGAGAAAAGGAAGCAGCTAACGCTGCCACTC
 TCCGTTTGTATGAGGAGCACTGTAAAGCCGAGCGTGATGGCGTGAATCCGATGCCTCGTCTGCCACCC
 TCCGCTGCGCGAGAACCACCGCCCTCCCCAGCGCAGCGCCAGCCCTCTGCGCCTACACCGGGCCCGA
 GCCGAGGAGAAGCCGGGCGCAGCCGACAGCGATCCTGAGCCGAGCGGACGGGGGAGGAGCGCTCCGCG
 CGCCCCGGGCGCAGCCCTTCCGGGACGCGCAGCCCGCTCGTTGACCGAACCAGCCTCCCGGGA
 GCGGCGCAGCCCGGAGAGGTGCAGCAAGGAACCGACGGAGGGCGGTGGGGACGGCCCGTTTAGCCTGCGG
 AGCCTGGAGAAGGAGCGTCCCGAGGCCGAGGAAGGACGAGGGGCGCAAGGACGTGGGTGAGGGCAAGG
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 CTGACCCAGGACAATTCGCCATGGGCCCGGAGCCTTCTCCGCCATGGGCATGGGTGATCTGCTAGCCT
 CGGTGGCAGGCGGAGTGGCAGTAGCGGAGGCGCCGTCGCGGAACCGCGCGGGGCTGGACGAGGCGG
 GCTAGGTCGCGCAGCCAGCGCAGCAAGCACCGCGGCTCCCTTCCGTTCCACCTCTCCAGCATATGCTG
 GCATCTCAGGGAATCCCAATGCCACTTTCGGAGGCTCTTCCCTACCCGTACACTTACATGGCAGCAG
 CGGCCCGCGCGCTCCGCTTACCCGCCACCAGCGCTGCAGCTGCCGCCCGCAGCCGCTGGTTCATT
 ATCACGGAGCCATTTCTGGGCAGTGCCTGGCCCGTCTGCGCTTCAAGTCTTACCAGATCCCTGTCAAC
 ATCCACCTAGCACTAGCCTCCTTACCACCGGGCTGGCGGCGGAGGGCTCCAAGGGCGGAAATAGCCGTG
 AGCCAGTCCGCTGCCTGAGCTGGCTCTCCGAAAAGTGGGGGGCCATCCCGCGGGGCCCTATCGCCAG
 CGGCTCAGCCAAAGAGGCGGCCAGTGAAGTGCAGAGCATCCAGAGACTGGTGAAGTGGGCTAGAGAGCCAG
 CGAGCCCTCTCCCCGGCCGGGAGTCGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226797 representing NM_009324
Red=Cloning site Green=Tags(s)

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MREPALAASAMAYHPFHAPRPADFPMSAFLLAAQPSFFPALALPPGALGKPLPDPGLAGAAAAAAAAAAAA
AEAGLHVSALGPHPPAAHLRSLKSLPEDEVEDDPKVTLEAKELWDQFHLKGTEMVITKSGRRMFPFKV
RVSGLDKKAKYILLMDIVAADDCRYKFHNSRWMVAGKADPEMPKRMYPHPDSPAATGEQWMAKPVAFHKLK
LTNNISDKHGFTILNSMHKYQPRFHIVRANDILKLPYSTFRTYVFPETDFIAVTAYQNDKITQLKIDNPN
FAKGFRTDGNRREKRKQLTLPRLRYEEHCKPERDGAESDASSCDPPPAREPPSPSAAPSPLRLHRAR
AEEKPGAADSDPEPERTGEERSAAPLGRSPSRDASPARL TEPERSRERRSPERCSKEPTEGGDGPFSLR
SLEKERPEARRKDEGRKDVGEGKEPSLAPLVVQTDASPLGAGHLPGLAFSSHLHGQOFFGPLGAGQPLF
LHPGQFAMGPGAFSAMGMGHLASVAGSGSGGAGPGTAAGLDAGGLGPAASAATAAPFPFHL SQHML
ASQGIPMPTFGGLFPYPYTYMAAAAAAASALPATSAAAAAAGSLSRSPFLG SARPLRFSPYQIPVT
IPPSTSLTTGLAAEGSKGNSREPSLPELALRKVGGPSRGALSPSGSAKEAASELQSIQRLVSGLESQ
RALSPGRESPK
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009324

ORF Size: 2133 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_009324.2](#), [NP_033350.2](#)

RefSeq Size: 3562 bp

RefSeq ORF: 2136 bp

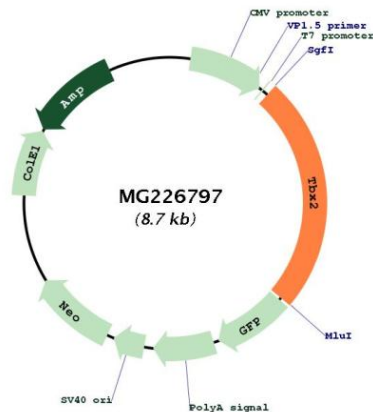
Locus ID: 21385

UniProt ID: [Q60707](#)

Cytogenetics: 11 51.34 cM

Gene Summary: Involved in the transcriptional regulation of genes required for mesoderm differentiation. Probably plays a role in limb pattern formation. Acts as a negative regulator of PML function in cellular senescence. May be required for cardiac atrioventricular canal formation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226797