

## Product datasheet for **MR222692**

### **Tbx4 (NM\_011536) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tbx4 (NM_011536) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbx4
Synonyms:	3930401C23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222692 representing NM\_011536  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCAGGATAAGGGCCTGTCCGAGAGCGAGGAGGCCTTCAGGGCCCCGGGCCAGCTCTCGGGGAGG  
 CCAGCAACTAGCACCACCAACGCCCCGAACCCGCGCTGGCCACGCCGGCCTTAGTGGAGCAGCGCT  
 CAGCAGCCACCAGGCCAGGGCGCCGACGTCGCGCCGCCGCGCTGCCGCCGGGAGCAGACCATCGAG  
 AACATCAAGGTGGGGCTGCATGAGAAGGAGCTGTGGAAGAAGTCCACGAGGCAGGCACGGAGATGATCA  
 TCACCAAGGCCGGCAGGAGGATGTTCCCCAGCTACAAGTAAAAGTACAGGCATGAACCCCAAGACCAA  
 GTACATACTTCTCATCGACATCGTCCCGCAGATGACCATCGCTACAAGTCTGTGACAACAAATGGATG  
 GTCGCAGGGAAGGCTGAGCCGGCCATGCCAGGAAGACTTATGTGCACCCGGATTCTCTGCCACCGGGG  
 CTCACTGGATGCGGCAGTTGGTCTTTCCAGAAGCTGAAGCTGACAAACAACCACCTGGACCCCTTTGG  
 CCATATCATCCTCAACTCCATGCATAAGTACCAGCCAAGGCTGCACATCGTTAAGGCCGACGAGAACAAT  
 GCTTTTGGCTCCAAAACACAGCCTTTTGCACCCACGTGTTCCAGAGACCTCCTTCATCTCTGTGACCT  
 CCTACCAGAACCACAAGATCACCCAGCTGAAAATTGAGAACAACCCTTTTGC AAGGGATTCCGGGGCAG  
 CGATGACAGTGACCTGCGTGTGGCCCGTTGCAGAGCAAGGAGTATCCCGTGATCTCAAAGCATCATG  
 AGGCAGAGGCTCGTTCCAGCCAACTCTCGGCTAAGCCAGATGTCAGCCCCCTGCACAGCGCACACCAGG  
 CCCTGCAGCACTACCAGTATGAGAATGGGGCCACATGCAGTTTGTCTGCTGCAGAGCCCCAGGACCTGCC  
 CCTCAACACCTTCCAACTCAGAGGGACTCCAGCCTCTTACCAGTGCCTGAAGCGTAGAGACAGTGCC  
 CGCCACCTGGACTTGCCTGCAAGCGATCCTACCTGAAACCCCTCTTCACTGAGGAGGACGATCACTATT  
 TCCGTTCTCCCCCTCCCTACGACCAGCAGATGCTGAGCCCTTCTTATTGCAGTGAGGTGACCCCAAGAG  
 AGCCTGTATGTACTCGAGTTCCGGGCCTGAGATCGCAGGGGTGTAGCCGTGGACGACCTGCCCCCAACC  
 CCACTGAGCTGTAACATGTGAGCTCGGTGTGCCATACACCAGCTACAGCGTTCAGACCATGGAGACTG  
 TGCCTTACCAGCCCTTCCCCGCACACTTACTGCCACCACAGTATGCTCGGCTGCCACCATCGCCGC  
 CCAGAGCGCCAGCCACCAGGAAATGCCCACTTACTGTGTACAATCAGCTATCCAGTCTCAGTCCGA  
 GAGCGGGGCCCTCTGCTTCCCTAGAGAGCGTGGCCTCCCTGGGATGTGTGAGAGGAAGCCACCT  
 CACCTCACCTGAACACTGCCAACGAGTTCCTCTACTCACAGAGCTTCTCCTTGACCCGGGAGTCATCCT  
 ACAGTATCATTAGGGATGGGGACTGTGGAGAAGTGGACCGATGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222692 representing NM\_011536  
 Red=Cloning site Green=Tags(s)

MLQDKGLSEEEAFRAPGPALGEASNTSTNAPEPALATPGLSGAALSSPPGQGADVAAAAAAAAEQTIE  
 NIKVGLHEKELWKKFHEAGTEMIITKAGRRMFPSYKVKVTGMNPKTKYILLIDIVPADDHRYKFCDNKWM  
 VAGKAEPAMPGRLYVHPDSPATGAHWMRQLVSFQKLLTNNHLDPFGHIILNSMHKYQPRLHIVKADENN  
 AFGSKNTAFCTHVFPETSFISVTSYQNHKITQLKIENNPFAKGFSGSDSLRVARLQSKEYPVISKSIM  
 RQRLVSSQLSAKPDVSPLHSAHQALQHYQYENGAHMQFAAEPQDLPLNTFPTQRDSSLFYHCLKRRDSA  
 RHLDLPCRSYLETPSSVGDHDFRSPPPYDQMLSPSYCSEVTPREACMYSSSGPEIAGVSAVDDLPPP  
 PLSCNMWTSVSPYTSYSVQTMETVPYQFPFAHFTATTVMPLPTIAAQSAPPNGAHSVYNQLSQSQVR  
 ERGPSASFPRERGLPGMCERKPPSPHLNTANEFLYSQSFSLTRESSLQYHSGMGTVENWTDG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_011536

**ORF Size:** 1656 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\\_011536.3](#)

**RefSeq Size:** 3011 bp

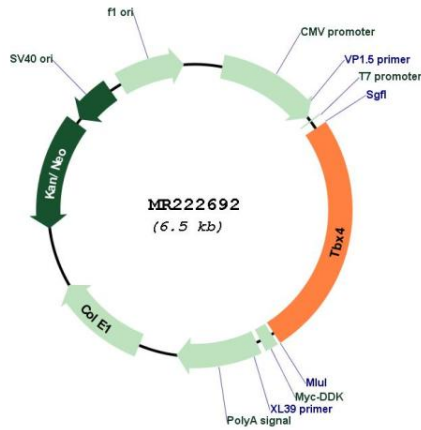
**RefSeq ORF:** 1659 bp

**Locus ID:** 21387

**UniProt ID:** [P70325](#)

**Cytogenetics:** 11 51.42 cM  
**MW:** 61.6 kDa  
**Gene Summary:** Involved in the transcriptional regulation of genes required for mesoderm differentiation. Probably plays a role in limb pattern formation.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222692