

## Product datasheet for **MR218987**

### **Tbx22 (NM\_145224) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Tbx22 (NM_145224) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | Tbx22                                    |
| Synonyms:                 | D230020M15Rik                            |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**ORF Nucleotide Sequence:**

>MR218987 representing NM\_145224  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**

ATGGCTCTGAGCTCTCGCGCGCACGCCTTCTCCGTGGAGGCCTTAATGGGAGACCCAGCAAAAGAAAAG  
 CTCAAGACCCAAGAGAGGAGATGCAGCCTGAGCTGCAGGAGGAGCAGTTCTGTGGAGGAAGGGGAGGAGAT  
 ACTGAGGAGCCCTTCTAGGGACAGTCAACAGCCCGAAAAGCGACTCAAGGCAGAATCTTCAAAAAGTGT  
 TTCTCCTGCTCTGACGAGAGCAACAGCCAGGAAAGTCTGCAAGAAGAAAGTGTATCCAAGTGGAGCTTC  
 AGGGATCTGACCTATGGAAGAGATTCCACGACATTGGCACTGAGATGATCATTACCAAGGCGGCAGACG  
 TATGTTTCCTTCTGTTCCGATCAAGGTGAAAGGGATGGACCTGTGAAGCAGTACTATGTGATTTTGGAC  
 GTGGTACCGGTGGATTCCAAACGCTATAGGTATGTGTATCACAGCTCACAGTGGATGGTAGCTGGAATA  
 CTGACCATTCTGCATAACTCCAGATTCTATGTCCACCCGACTCCCTTGTCTGGAGAAAAGTGGAT  
 GCGTCAAATCATCTCTTTTGATCGAGTGAAACTCACCAACAATGAGATGGATGACAAGGGCCATATCATT  
 CTGCAGTCCATGCATAAGTACAACCCCGTGTGCATGTGGTGGAACAGGACAGCAGGATTGACCTGTCCC  
 TGATTGAGTCCTTCTACGGAAGGCGTAAAAACATTCTCCTTTAAAGAAAGTGAATTCCTACTGTGAC  
 AGCTTACCAAAACCAGCAGATTACCAAACTGAAAATAGACAGGAATCCTTTTGCCAAAGGATTTAGAGAT  
 CCTGGGAGAAATAGGGGTGTCTTAGATGGATTTTATAGAGACCTACCCATGGATGCCTTCTTCTCTATGG  
 ATTTTAAAGTCTTGTGTCACAGACACAAAAGTGAAGCAGTGGCTCATCTCCAGTGACCTCTAGTGGAGG  
 AGCTCCCTCTCCTTGAAGTCTTACTTCTCCATCTTGTCTCCACCTATGGTTTACATACCTCCAAGC  
 TCCTTTGGGATGACCTATCCAGATGCATACCTGCACAGTGTCAACATACCCTTCTGCTACAGAATTTGTC  
 CAACTAATAATTGGCGATCACAACCTTTTGTCTTACCTACTCTGAAAGGCTACCAAGTTTCATCATTCC  
 TCAGACCTTACCCCACTCATGATGGAAGTCCAGTGGTATCCTCCAGGGGCATCATCAATCCAAACAGT  
 GGCTTACATGAAGACTGCAATGGCAGTGTCTACAAGCATCTCATTCTGCCAATCAAATGTTATATGGAT  
 TACAGAATCCTGGAAACATTTTCCATCCAAACGCCATTGCCAAGAAGCAATCAGTTATCCTTTTTCATCC  
 TCCTAATGGCTGTTATAGGTACCATCTCCATGCCACCTAGACTGGAAAATGTTGCCAGTCACCTCAGT  
 GAAAATGGTACCAGTCAGATTTCTTTACTGAAGGTAGCTGTGATCATTCCCATTTGGTATCCAGCCATTA  
 ACCATTACCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218987 representing NM\_145224  
 Red=Cloning site Green=Tags(s)

MALSSRAHAFSVEALMGRPSKRKAQDPREEMQPELQEEQFVEEGEEILRSPSRDSQQPEKRLKAESSKTV  
 FSCSDENSQESLQEEVQVELQGSIDLWKRFDIGTEMIITKAGRRMFPSVRIKVKGMDPVKQYVYILD  
 VVPVDSKRYRYVYHSSQWMVAGNTDHSCITPRFYVHPDSPCSGENWMRQIISFDRVKLTNNEMDDKGHII  
 LQSMHKYNPRVHVVEQDSRIDLSLIESFPTGKTFVSKETFTVTAYQNNQITKLKIDRNPFAGGFRD  
 PGRNRGVLDFLETYPWMPFSMDFKTFVTDTSQSGSSGSPVTSGGAPSPNLSLSPSCSPPMVYIPPS  
 SFGMTYDAYLHSVNIPTCYRICPTNNWRSQPFVLPPTPERLPSFIIPQTLPLMMEVPVSSRGIINPNS  
 GLHEDCNGQCLQASHSANQMLYGLQNPNIHFPNAIAQEAISYPFHPPNGCYRTISMPPRENVASHLS  
 ENGTSQISFTEGSCDHSWYPAINHYL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_145224

**ORF Size:** 1551 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_145224.3](#), [NP\\_660259.1](#)

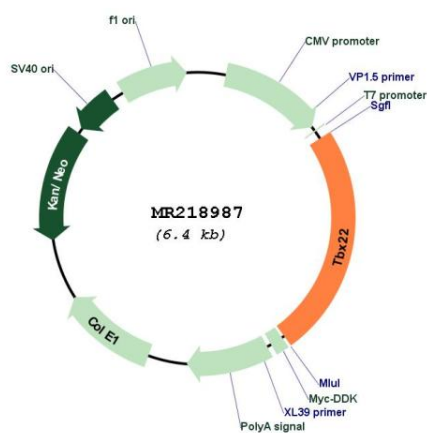
**RefSeq Size:** 5118 bp

**RefSeq ORF:** 1554 bp

**Locus ID:** 245572

**UniProt ID:** Q8K402  
**Cytogenetics:** X 47.59 cM  
**MW:** 58.9 kDa  
**Gene Summary:** Probable transcriptional regulator involved in developmental processes. This is major determinant crucial to palatogenesis.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR218987