

## Product datasheet for **MG216662**

### Tbx22 (NM\_181319) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Tbx22
Synonyms:	D230020M15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >MG216662 representing NM\_181319  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGACACAGAGATACCCACTGCTGCTTCTAGCCTACCAGGGATGGCTCTGAGCTCTCGCGGCACGCCT  
 TCTCCGTGGAGGCCTTAATGGGGAGACCCAGCAAAAAGAAAAGCTCAAGACCCAAGAGAGGAGATGCAGCC  
 TGAGCTGCAGGAGGAGCAGTTCGTGGAGGAAGGGGAGGAGATACTGAGGAGCCCTTCTAGGGACAGTCAA  
 CAGCCCAGAAAGCGACTCAAGGCAGAACTTTCAAAAAGCTGTTTTCTCTGCTCTGACGAGAGCAACAGCC  
 AGGAAAGTCTGCAAGAAGAAAGTGTATCCAAGTGGAGCTTCAGGGATCTGACCTATGGAAGAGATTCCA  
 CGACATTGGCACTGAGATGATCATTACCAAGCGGGCAGACGTATGTTTCTCTGTTGCGATCAAGGTG  
 AAAGGGATGGACCTGTGAAGCAGTACTATGTGATTTGGACGTGGTACCGGTGGATTCCAAACGCTATA  
 GGTATGTGTATCACAGCTCACAGTGGATGGTAGCTGAAATACTGACCATTCTGTGCATAACTCCCAGATT  
 CTATGTCCACCCGACTCCCTTGTCTGGAGAAAAGTGGATGCGTCAAATCATCTCTTTTGATCGAGTG  
 AAACCTACCAACAATGAGATGGATGACAAGGGCCATATCATTCTGCACTCCATGCATAAGTACAACCCCC  
 GTGTGCATGTGGTGAACAGGACAGCAGGATTGACCTGTCCCTGATTGAGTCTTTCTACGGAAGGCGT  
 TAAAACATTCTCTTTAAAGAAAGTGAATTCACACTGTGACAGCTTACAAAACAGCAGATTACAAA  
 CTGAAAATAGACAGGAATCCTTTTGCCAAAGGATTTAGAGATCCTGGGAGAAAAGGGGTGTCTTAGATG  
 GATTTTTAGAGACCTACCCATGGATGCCTTCTTCTCTATGGATTTTAAAACCTTTTGTACAGACACACA  
 AAGTGAAGCAGTGGCTCATCTCCAGTGCCTCTAGTGGAGGAGCTCCCTCTCCTTTGAACTCCTTACTT  
 TCTCCATCTTGTCTCCACCTATGGTTACATACTCCAAGCTCCTTTGGGATGACCTATCCAGATGCAT  
 ACCTGCACAGTGTCAACATACCCTTCTGTACAGAATTTGTCCAATAATAATTGGCGATCACAACTTTT  
 TGTTTTACCTACTCCTGAAAGGCTACCAAGTTTCATATTCCTCAGACCTTACCCCACTCATGATGGAA  
 GTCCCAGTGGTATCCTCCAGGGCATCATCAATCCAACAGTGGCTTACATGAAGACTGCAATGGGCAGT  
 GTCTACAAGCATCTCATTCTGCCAATCAAATGTATATGGATTACAGAATCCTGGAACATTTTCCATCC  
 AAACGCCATTGCCAAGAAGCAATCAGTTATCCTTTTCATCCTCCTAATGGCTGTTATAGGTACACCATC  
 TCCATGCCACCTAGACTGGAAAATGTTGCCAGTCACTCAGTGAATAAGTACCAGTCAGATTTCTTTTA  
 CTGAAGGTAGCTGTGATCATTCCATTGGTATCCAGCCATTAACCATTACCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG216662 representing NM\_181319  
 Red=Cloning site Green=Tags(s)

MDTEIPTAASSLPGMALSSRAHAFSVEALMGRPSKRKAQDPREEMQPELQEEQFVEEGEEILRSPSRDSQ  
 QPEKRLKAESSKTVFSCSDESNSQESLQEEVSIQVELQGSDLWKRFDHIGTEMIITKAGRRMFPSVRIKV  
 KGMDPVKQYVYVILDVVPVDSKRYRYVYHSSQWVAGNTHSCITPRFYVHPDSPCSGENWMRQIISFDRV  
 KLNNEMDDKGHIILQSMHKYNPRVHVVEQDSRIDLSLIESFPTEGVKTFSEKETEFTTAVYQNNQITK  
 LKIDRNPFKAGFRDPGRNRGVLDFLETPWMPFSFMDFKTFVDTQSGSSGSSPVTSSGGAPSLNLL  
 SPSCSPPMVYIPSSFGMTYPDAYLHSVNIPIFCYRICPTNNWRSQPFVLPPTPERLPSFIIPQTLPLMME  
 VPVVSSRGIINPNSGLHEDCNGQCLQASHSANQMLYGLQNPNGNIFHPNAIAQEAISYPFHPNGCYRTI  
 SMPPRLENVASHLSENGTSQISFTEGSCDHSWYPAINHLY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_181319

**ORF Size:** 1593 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\\_181319.5, NP\\_851836.2](#)

**RefSeq Size:** 5222 bp

<b>RefSeq ORF:</b>	1596 bp
<b>Locus ID:</b>	245572
<b>UniProt ID:</b>	<a href="#">Q8K402</a>
<b>Cytogenetics:</b>	X 47.59 cM
<b>Gene Summary:</b>	Probable transcriptional regulator involved in developmental processes. This is major determinant crucial to palatogenesis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG216662