

## Product datasheet for **MR225123**

### **Tbx18 (NM\_023814) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tbx18 (NM_023814) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbx18
Synonyms:	2810012F10Rik; 2810404D13Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225123 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGAAGCGGAGGGGCTCACCGTGCAGCATGCTAAGCCTCAAGGCGCACGCCTTCTCTGTGGAGG  
 CACTGATCGGCGCCGAGAAGCAGCAACAGCTTCAAAGAAGCGGAGAAAGCTGGCCACGGAAGAGCGGC  
 GGGGGCGGTGGAAGACGCAGGCTGCAGCCGTAGCGGAGGCGCGGGGAGTACGGTCTCGGAGGCCGAC  
 GAAGAAGCGGCTGCCCGCCGCCGAGCCGGGGCGCGTCCGGGCCAGCGCGGAGCTGCGCGGACGCGG  
 AGCGGAGCTGTGGCTCCCGCGGAGCGCGGGCAGCTGTGAGGATGGCTTCTGACGGGCGCTCCCGTT  
 GGCATCCCGGGAGGCTCCCGAAAGGGTCTCCCGTACCTGGCTTGGCACGACCGGGGACCCCGTCCCG  
 GCGCCGACGGCCCGAGAGTAGATCTGCAAGGAGCGGAGCTCTGGAAGCGCTTTCACGAAATAGGCACCG  
 AGATGATCATACCAAAGCCGGCAGGCGCATGTTCCAGCAATGCGGGTGAAGATCTCCGGATTAGACCC  
 TCACCAGCAATATTACATTGCCATGGATATTGTGCCGGTGGACAACAAGAGATACAGGTATGTTTACCAT  
 AGCTCTAAGTGGATGGTGGCAGGAAATGCTGATTCGCCGGTGCCACCCAGAGTATACATTATCCAGACT  
 CACCGGCCTCTGGGGAGACTTGGATGAGACAAGTCATCAGCTTCGACAAGCTGAAACTTACCAACAATGA  
 GCTGGATGACCAAGGCCATATCATTCTTATTCTATGCACAAATACCAACCACGTGTGCATGTCATCCGT  
 AAAGATTGCGGAGATGATCTGTCCCCATCAAGCCTGTCCATCAGGAGAGGGAGTGAAGGCATTCTCT  
 TTCCAGAAACCGTCTTCACAACTGTCACTGCCTATCAGAATCAGCAGATTACTCGCCTTAAGATAGACAG  
 GAATCCATTTGCCAAAGTTTCCGAGACTCTGGGAGGAACAGAATGGGTTTGAAGCTCTGGTGGAGTCA  
 TACGCATTCTGGAGGCCATCACTACGGACTCTCACCTTGAAGATATCCCTGGAATCCCAAAGCAAGGCA  
 ACACAAGTTCTCAGCTCTGCTCAAGGCACTGGGAATGCTGTCCCTGCTACACATCCTCACCTGTTGTC  
 TGGATCCTCTTGCTCCTCTCCTGCCTTCCATCTGGGGCCGAACACCAGCCAGCTGTGTAGTCTGGCTCCA  
 GCTGACTATTCGGCCTGTGCCGTTTCCAGCCTTCCCTCAATCGATACAGCACATCCTTGGCAGAGACCT  
 ACAGCAGGCTTACCAACCAGAGCAGTGAAGCCTTTCGCCACCTAGGACTCCTTCTACGTGAGTGTGAG  
 CAGCAACCCGTCTGTGAACATGTCCATGGGCGGCACTGATGGGGACACCTTACGTGCCACAGACCAGC  
 CTGTCCATGCAGATTTAGGAATGTCCCTCAACTTCACTACATCATGCCATCGCCGTCCGGCAATGCCT  
 TTGCTGCTAACCCAGACCCACCAGAGTCTTACAACACCTCCGATTGCACAGTCCCTGTGCCTTGTATGG  
 ATATAACTTCTCCACATCCCCAAACTGGCTGCCAGTCTGAGAAAATTGTTTCTTCCAAAGGAAGTTTC  
 TTGGGGTCTCACCAAGTGGGACCATGACTGATCGTCAGATGTTGCCCTGTGGAAGGAGTGCACCTGC  
 TCAGCAGTGGGGCCAGCAGAGTTTCTTACTCCAGGACCTAGGAAGTTTAACTCTGCCATCTTCTCA  
 AGTGTCTGCACATATGGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

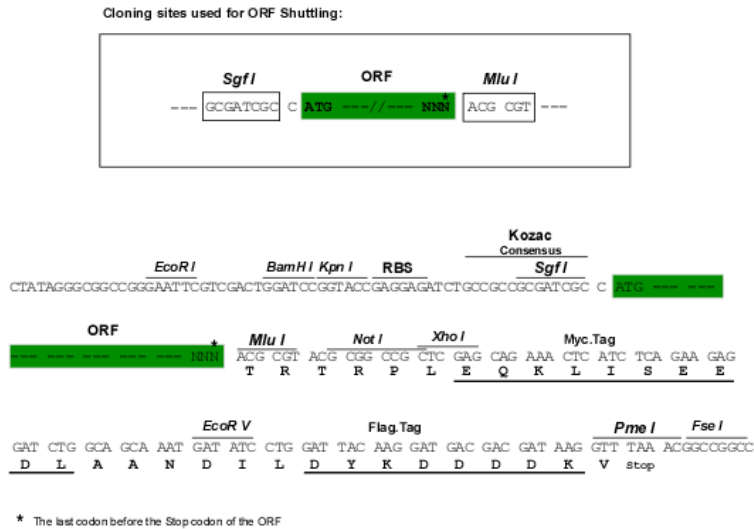
>MR225123 protein sequence  
 Red=Cloning site Green=Tags(s)

MAEKRRGSPCSMLSLKAHAFSVEALIGAEEKQQQLQKRRKLATEEAAGAVEDAGCSRSGGAGEYGCSEAD  
 EEAAAPPPAAGAASGPASCADAERSCGSRGAAGSCEDGFLQGASPLASPGGSPKGSVPGLARPGTLP  
 APQAPRVDLQGAELWRFHEIGTEMIITKAGRRMFPAMRVKISGLDPHQYYIAMDIVPVDNKRYRYVYH  
 SSKWVMVAGNADSPVPPRVYIHPDSPASGETWMRQVISFDKLLKLNELDDQGHIIILHSMHKYQPRVHVIR  
 KDCGDDLSPKIPVPSGEGVKAFSFPETVFTTAVYQNNQITRLKIDRNPFAGKFRDSGRNRMGLEALVES  
 YAFWRPSLRTLTFEDIPGIPKQGNNTSSSALLQGTGNAVPATHPHLLSGSSCSSPAFLGPNNTSQLCSLAP  
 ADYSACARSLALNRYSTSLAETYSRLTNQSSETFAPPRTPSYVSVSNPSVNMSMGTDGDTFSCPQTS  
 LSMQISGMSPQLQYIMPSPSGNAFAANQTHQSSYNTFRLHSPCALYGYNFSTSPKLAASPEKIVSSQGSF  
 LGSSPSGTMTRQMLPPVEGVHLLSSGGQQSFFDSRTLGSLLPSSQVSAHMV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_023814

ORF Size: 1842 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\\_023814.1](#), [NM\\_023814.2](#), [NM\\_023814.3](#), [NM\\_023814.4](#), [NP\\_076303.3](#)

RefSeq Size: 4679 bp

RefSeq ORF: 1842 bp

Locus ID: 76365

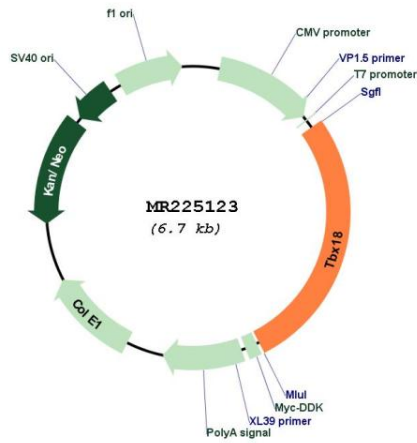
UniProt ID: [Q9EPZ6](#)

**Cytogenetics:** 9 47.06 cM

**MW:** 65.5 kDa

**Gene Summary:** Acts as transcriptional repressor involved in developmental processes of a variety of tissues and organs, including the heart, the coronary vessels, the ureter, and the vertebral column. Required for embryonic development of the sino atrial node (SAN) head area. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR225123