

Product datasheet for **RR215152**

Tbx2 (NM_001107033) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Tbx2 (NM_001107033) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Tbx2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR215152 representing NM_001107033
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCATCACCAAGTCCGGGAGGCGGATGTTCCCCCCTTCAAGGTGCGAGTCAGCGGCCTGGACAAGA
 AGGCCAAGTACATCCTGCTGATGGACATTGTGGCTGCCGATGACTGCCGATATAAGTTTCCAACTCGAG
 ATGGATGGTGGCAGGCAAAGCCGACCCCGAGATGCCTAAACGCATGTACATCCACCCGGACAGTCCGGCC
 ACGGGGAGCAGTGGATGGCCAAGCCCGTGGCCTTCCACAACTGAAGCTAACCAACAACATTTCTGACA
 AGCATGGCTTACCATCCTGAACCTCCATGCACAAGTACCAGCCGCTTCCACATCGTGGGAGCCAAACGA
 CATCTTGAAGCTCCCATACAGTACCTTTTCGCACCTATGTCTTCCAGAGACTGACTTCATCGCTGTCACT
 GCCTACCAGAATGACAAGATTACACAACCTGAAGATCGACAACAACCCCTTTGCCAAGGGCTTCCGGGACA
 CCGGGAACGGCCGTCGGGAGAAAAGGAAGCAGCTAACGCTGCCACTCTCCGTTTGTATGAGGAGCACTG
 TAAACCGGAGCGTGACGGCGCTGAATCCGATGCCTCGTCTGCGACCTCCGCCTGCGCGGAACCCCG
 CCCTCCCCCAGCGCAGCGCCAGCCCTCTACGCTGCACCGGGCCGAGCCGAGGAGAAGCCGTGCGCAG
 CCGACAGCGACCCTGAGCCGGAGCGGTGGGGCAGGAGCGCGCCGAGCGCCCTGGGCCGAGCTCTTC
 GCGGGACGCCAGCCCGCTCGCTGACCGAACCCGAACGCTCCCGGAGCGGCGCAGCCCGAGAGGGGC
 AGCAAGGAACCGACGGAGGGCGGTGGGGACGGCCATTTAGTCTGCGGAGCTGGAGAAGGAGCGCGCGG
 AGGCCCGGAGGAAGGATGAGGGGCGCAAGGACGTGGGCGAAGGCAAGGACGAGCCCTCTCCCCGGCCGG
 GAGTCTCCAAGTGAAGGACCGCTTGGCTGCTGCGCTGCCACACGAGCCTGTCGGGCTGGGCTCTCTGCC
 TCGGCTGTTTGGGACGTGTACAGCACAGAATGGGTATTTATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215152 representing NM_001107033
Red=Cloning site Green=Tags(s)

MVITKSGRRMFPPFKVRVSGLDKKAKYILLMDIVAADDCRYKFHNSRWMVAGKADPEMPKRMYPDSPA
 TGEQWMAKPVAFHKLKLTNNISDKHGFTILNSMHKYQPRFHIVRANDILKLPYSTFRTYVPETDFIAVT
 AYQNDKITQLKIDNPNFAKGFRTDGNRREKRKQLTLPRLRYEEHCKPERDGAESDASSCDPPPAREPP
 PPSAAPSPLRLHRARAEKPCAADSDPEPERSGEERAAAPLGRSSRDASPARL TEPERSRERRSPERG
 SKEPTEGGDGPFLRSLEKERAARRKDEGRKDVGEGKDEPSPAGSLPSEGPLGCCAATRACRAGLSA
 SAVWDVYSTEWFVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001107033

ORF Size: 1092 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_001107033.1](#), [NP_001100503.1](#)

RefSeq Size: 1234 bp

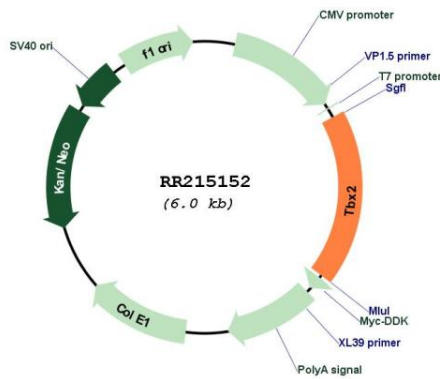
RefSeq ORF: 1095 bp

Locus ID: 303398

Cytogenetics: 10q26

MW: 40.7 kDa

Product images:



Circular map for RR215152