

Product datasheet for **RN205420**

Tbx5 (NM_001009964) Rat Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Tbx5 (NM_001009964) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Tbx5 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >RN205420 representing NM_001009964
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACGCAGATGAGGGCTTCGGCCTGGCGCGCAGCCTCTGGAGCCTGATTCCAAAGACAGGTCCT
 GCGATTGCAAACAGAGAGTGCCTGGGGCTCCAGCAAGTCTCCATCCTCACCAGGCGCCCTCAC
 CCAGCAGGGCATGGAAGGAATCAAGGTGTTTCTTACGAAAGAGAAGTGTGGCTGAAGTCCACGAAGTG
 GGCACAGAAATGATCATACCAAGGCAGGGAGGCAGATGTTTCTAGCTACAAAGTGAAGGTGACTGGCC
 TTAATCCCAAGACGAAGTACATCCTTCTCATGGATATTGTACCCGACAGCAGCCAGATATAAATTTGC
 TGATAACAAATGGTCCGTAAGTAAAGCCGAGCCTGCTATGCCGGTTCGCTTTATGTACATCCGGAC
 TCCCCAGCAACCGAGCGCACTGGATGCGACAATTGTCTCCTCCAGAACTCAAGCTCACCAACAACC
 ACCTGGACCCATTTCGGACACATTATCCTGAAGTCCATGCACAAAACCAGCCCGATTACACATCGTGAA
 AGCAGACGAAAAAATGGGTTTGGTTCAAAGAATACTGCGTTTTGTACCCAGCTTTCCGGAGACGGCT
 TTTATCGCTGTGACTTCGTACCAGAATCACAAGATCACACAGCTGAAAATTGAGAAACAACCCCTTCGCCA
 AAGGCTTTTCGGGGCAGTACGACCTGGAGTTACACAGGATGTCTCGGATGCGAAGTAAAGAGTATCCTGT
 GGTTCACAGGAGCACCGTGGAGCACAAGTGGCCAACACAGCCCTTCAGCAGCGAGACCCGAGCTCTC
 TCCACTTCGTCTAACTTAGGGTCCAGTACCAGTGTGAGAATGGTGTCTCCGGCCCTCCAGGACCTTC
 TGCCCCACCTAACCCATACCCACTGGCCAGGAGCACAGCCAAATTTACCACTGTACCAAGAGGAAAGA
 TGAAGAATGTTCCAGCACCGAGCACCCCTATAAGAAGCCGTACATGGAGACCTCCCCAGCGAGGAGGAC
 ACCTTCTACCGCTCCGGTACCCAGCAGCAGGGCCTGAGTACCTCGTACAGGACAGATCAGCCAGC
 GGCAGGCTGCATGTATGCCAGCTCCGCTCCACCCAGCAGCCCGTGCCTAGCCTGGAGGACATCAGCTG
 TAACACATGGCCAGCATGCCTTCTATAGCAGCTGTACAGTTACCACTGTGCAGCCATGGACCGTCTC
 CCTACCAGCACTTCTCTGCTCATTTCACCTCGGGGCCCTGGTCCCTCGGCTAGCTGGCATGGCAACC
 ATGGTTCTCCCCAGCTTGGTGAAGGGATGTTCCAGCACCAGACCTCAGTGACCCATCAGCCTGTGGTCAG
 GCAATGCGGGCCTCAGACTGGCCTTCAGTCTCCAGGCAGCCTCCAGCCCTGAGTTCCTCTACACTCAC
 GGCGTGCCAGGACCCTGTCTCCCACCAGTACTCGGTACACGGCGTCGGCATGGTCCAGAGTGGA
 GCGAGAATAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1279_e02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001009964

Insert Size: 1554 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001009964.1](#), [NP_001009964.1](#)

RefSeq Size: 1593 bp

RefSeq ORF: 1554 bp

Locus ID: 304514

UniProt ID: [Q5I2P1](#)

Cytogenetics: 12q16

Gene Summary: DNA-binding protein that regulates the transcription of several genes and is involved in heart development and limb pattern formation. Binds to the core DNA motif of NPPA promoter. [UniProtKB/Swiss-Prot Function]