

Product datasheet for **RR205420**

Tbx5 (NM_001009964) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR205420 representing NM_001009964
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGACGCAGATGAGGGCTTCGGCCTGGCGCGACGCCTCTGGAGCCTGATTCCAAAGACAGGTCTC
 GCGATTGAAACAGAGAGTGCCTGGGGCTCCAGCAAGTCTCCATCCTACCGCAGGCCGCCTCAC
 CCAGCAGGGCATGGAAGGAATCAAGGTGTTTCTCACGAAAGAGAACTGTGGCTGAAGTCCACGAAGT
 GGCACAGAAATGATCATACCAAGGCAGGGAGGCAGATGTTTCTAGCTACAAAGTGAAGGTGACTGGCC
 TTAATCCCAAGACGAAGTACATCCTTCTCATGGATATTGTACCCGACAGCACCACAGATATAAATTTGC
 TGATAACAAATGGTCCGTAAGTAAAGCCGAGCCTGCTATGCCGGTTCGCTTTATGTACATCCGGAC
 TCCCCAGCAACCGAGCGCACTGGATGCGACAATTGTCTCCTCCAGAACTCAAGCTCACCAACAACC
 ACCTGGACCCATTTCGGACACATTATCCTGAAGTCCATGCACAAAACCAGCCCGATTACACATCGTGAA
 AGCAGACGAAAAAATGGGTTTGGTTCAAAGAATACTGCGTTTTGTACCCAGCTTTCCGGAGACGGCT
 TTTATCGCTGTGACTTCGTACCAGAATCACAAGATCACACAGCTGAAAATTGAGAAACAACCCCTTCGCCA
 AAGGCTTTCGGGGCAGTACGACCTGGAGTTACACAGGATGTCTCGGATGCGAAGTAAAGAGTATCCTGT
 GGTTCACAGGAGCACCCTGAGGCACAAAGTGGCCAACCACAGCCCTTCAGCAGCGAGACCCGAGCTCTC
 TCCACTTCGTCTAACTTAGGGTCCCAGTACCAGTGTGAGAATGGTGTCTCCGGCCCTCCAGGACCTTC
 TGCCCCACCTAACCCATACCCACTGGCCAGGAGCACAGCCAAATTTACCACTGTACCAAGAGGAAAGA
 TGAAGAATGTTCCAGCACCGAGCACCCCTATAAGAAGCCGTACATGGAGACCTCCCCAGCGAGGAGGAC
 ACCTTCTACCGCTCCGGTACCCAGCAGCAGGGCCTGAGTACCTCGTACAGGACAGATCAGCCAGCAG
 GGCAGGCTGCATGTATGCCAGCTCCGCTCCACCAGCAGCCCGTGCCTAGCCTGGAGGACATCAGCTG
 TAACACATGGCCAGCATGCCTTCTATAGCAGCTGTACAGTTACCACTGTGCAGCCATGGACCGTCTC
 CCTACCAGCACTTCTCTGCTCATTTCACCTCGGGGCCCTGGTCCCTCGGCTAGCTGGCATGGCAACC
 ATGGTTCTCCCCAGCTTGGTGAAGGGATGTTCCAGCACCAGACCTCAGTGACCCATCAGCCTGTGGT
 GCAATGCGGGCCTCAGACTGGCCTTCAGTCTCCAGGCAGCCTCCAGCCCTGAGTTCCTCTACACTCAC
 GGCGTGCCAGGACCTGTCTCCCACCAGTACTCGGTACACGGCGTCGGCATGGTCCAGAGTGGA
 GCGAGAATAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205420 representing NM_001009964
 Red=Cloning site Green=Tags(s)

MADADEGFGLARTPLEPDSKDRSCDSKPESALGAPSKSPSSPQAAFTQQGMEGIKVFHERELWLKFHEV
 GTEMIITKAGRQMFPSYKVKVTGLNPKTKYILLMDIVPADDHRYKFADNKWSVTGKAEPAMPGRLYVHPD
 SPATGAHWMRQLVSFQKLKLTNNHLDPFGHIILNSMHKYQPRLHIVKADENNGFGSKNTAFCTHVFPETA
 FIAVTSYQNHKITQLKIENPFKGFGRGDDLELHRMSRMSKEYPVVPRSTVRHKVANHSPFSSETRAL
 STSSNLGSQYQCENGVSQDILLPPNPYPLAQEHSQIYHCTKRKDEECSTEHPYKPYMETSPEED
 TFYRSGYPQQQLSTSYRTEAQRQACMYASSAPPSEPVSLEDISCNTPWSPMPSYSCTVTTVQPMDR
 PYQHFSAHFTSGPLVPRLAGMANHGSPQLGEGMFQHTSVTHQPVVRQCGPQTGLQSPGSLQPPEFLYTH
 GVPRTLSPHQYHSVHGVGMVPEWSENS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001009964

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.

RefSeq: [NM_001009964.1](#), [NP_001009964.1](#)

RefSeq Size: 1593 bp

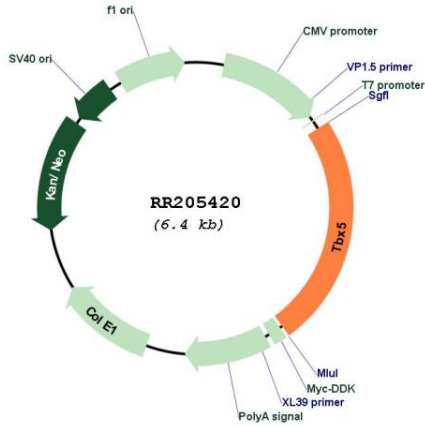
RefSeq ORF: 1554 bp

Locus ID: 304514

UniProt ID: [Q5I2P1](#)

Cytogenetics: 12q16
MW: 57.7 kDa
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]

Product images:



Circular map for RR205420