

Product datasheet for **RN208413**

Tbx6 (NM_001108920) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Tbx6 (NM_001108920) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Tbx6
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN208413 representing NM_001108920
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCATCCACGAGAGTTATACCCCTCTCTGGGGACTGGTACCGTCTGGGACACCCCGAGCCTGGGG
 CAGACTCAACCTCCACCTGCCCTGACAGAGGGCTACCGTACCCTGATTTGGATACTTCTAAACTGGA
 TTGCTTCTCTCTGGGATTGAGGCAGCTCCCCACTCTGGCTGCACCCCTCCTTTGCCCTTCTCCCA
 TCTGCTCTGGGCCTGAGACAGCACCGCCACCCAGAGGCCCTCACTCGCTTCTGGGTCAGCCTGA
 GCTTGGAGAACCAGGAAGTGTGGAAGGAATTCAGCGCTGTGGAACAGAGATGATCATCACCAAGGCTGG
 CAGGCGTATGTTCCCTGCTTGCAGAGTATCAGTCACAGGCTGGACCCGAGGCCCGGTACTTGTTCCTT
 CTGGATGTGGTTCAGTGGATGGGGCCGATACCGCTGGCAGGGCCAGCACTGGGAGCCAGTGGCAAGG
 CTGAGCCCGCTACCCGACCGTGTCTACATTACCCCTGATTCTCCTGCCACTGGTGCCACTGGATGCG
 GCAGCCCGTATCCTTCCACCGTGTAAAGCTCACCAACAGCAGCTGGACCCCATGGCCACCTGATCTTG
 CATTCCATGCACAAGTACCAGCCTCGCATTACCTGGTGGAGCCACCCAACTCTGCAGCCAACACTGGG
 GGGGTGTGGCCTCCTTCCGATTTCTGAGACCACATTCATCTCAGTGACAGCCTACCAGAACCCTAGGAT
 CACACAGCTGAAGATCGCAGCCAATCCCTTTGCCAAAGGTTTCCGAGAAAATGGCAGAAAAGTGAAGAGG
 GAGCGGGATGCCCGTGTGAAGAGGAAAATCCGGGGCCAGAGCCAGTGGCCACAGAGGCCTGTGGGAGTG
 GGGATACACCAGGGGGTCCCTGTGACTCCACCCTGGGTGGGGATATTCGAGATTCAGATCCAGAGCCGGC
 TCCTACCCCCAGGAAGCTGCTTCTGCCTCAGCTCCTCCATGTGGGGGCCAGTGTGAGGCCTACCTC
 CTGACCCTGCAGCTTTTTCATGGGGCCCCAGTCATCTACCAGCCAGGACCCCGAGCTTCCCTGAGGCTC
 CAGACCCTGGGCGCCAGCCCCCTACTCAGCTGCATTCTGGAGCTACAGCCTGGACCGGGGAGCTCTGC
 TTATCAAACGACCCCATCTGTAACACCCCTTTGCCCTCACTTTATTCAAGGGGCCCTTCCCTCTACCA
 TACCCAGGACCTGGAGGATATCTGGACATGGGATCCAAGCAAATGTACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001108920
Insert Size:	1311 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:	<ol style="list-style-type: none">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:	<u>NM_001108920.1</u> , <u>NP_001102390.1</u>
RefSeq Size:	1726 bp
RefSeq ORF:	1311 bp
Locus ID:	365371
UniProt ID:	<u>D3ZJK7</u>
Cytogenetics:	1q36
Gene Summary:	T-box transcription factor that plays an essential role in the determination of the fate of axial stem cells: neural vs mesodermal. Acts in part by down-regulating, a specific enhancer (N1) of SOX2, to inhibit neural development. Seems to also play an essential role in left/right axis determination and acts through effects on Notch signaling around the node as well as through an effect on the morphology and motility of the nodal cilia (By similarity). [UniProtKB/Swiss-Prot Function]