

Product datasheet for **RC217451**

TBX4 (NM_018488) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBX4 (NM_018488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBX4
Synonyms:	ICPPS; PAPPAS; SPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC217451 representing NM_018488
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCAGGATAAGGGCTGTCCGAGAGCGAGGAGGCCTTCGGGCCCGGGCCAGCGCTCGGAGAGG
 CCAGCGCAGCCAACGCCCCGAGCCCGCCTGGCAGCGCGGGCCCTCAGCGGAGCCGCGCTAGGCAGCCC
 CCCGGGACCCGGGGCCGACGTCGTGCGCCCGCGCCGCGGAGCAGACCATCGAGAACATCAAGGTGGG
 CTGCATGAGAAGGAGCTCTGGAAGAAGTCCACGAGGCGGGCACCAGAGATGATCATCACTAAGGCTGGCA
 GGAGGATGTTCCCGAGTACAAGGTAAAAGTACAGGCATGAACCCCAAGACCAAGTATATCCTGCTGAT
 TGACATTGTCCCTGCCGATGACCATCGTACAAGTTCTGTGACAACAAATGGATGGTGGCAGGGAAGGCT
 GAGCCAGCCATGCCAGGAAGGCTGTATGTCCACCCGGATTCTCCTGCCACAGGAGCCCACTGGATGCGGC
 AGCTGGTCTCCTCCAGAAGCTGAAGCTGACAAACAACCACTGGACCCCTTTGGCCATATCATCTCAA
 CTCTATGCACAAGTACCAGCCGCGGCTCCACATCGTTAAGGCTGATGAGAACAATGCTTTTCGGCTCCAAA
 AACACTGCTTTTGCACCCACGTGTTCCAGAGACCTCCTTCATCTCTGTGACCTCTACCAAGAATCACA
 AGATCACCCAGCTGAAAATTGAGAACAACCCCTTTTGC AAGGGATTCCGGGGCAGTGATGACAGTGACCT
 GCGTGTGGCCCGACTGCAGAGCAAAGAATACCCCGTGATTTCAAAGCATCATGAGGCAGAGGCTCATC
 TCCCCCAGCTCTCAGCCACACCGGACGTGGGCCCCCTGCTCGGCACCCACCAGGCACTCCAGCACTACC
 AGCAGGAGAACGGGGCACACTCACAGCTCGCGGAGCCGACGACCTGCCCTCAGCACCTTTCCACCCA
 GAGGGACTCAAGCCTCTTCTATCACTGCCTGAAAAGACGAGACGGTACCCGCCACCTGGACTTACCTTGC
 AAGCGATCCTATCTGGAAGCCCCCTCTTCGGTGGGGGAGGATCACTATTTCCGTTCCCCCCTCCCTACG
 ACCAGCAAATGCTGAGCCCTCCTACTGCAGTGAGGTGACCCCCAGAGAAGCATGTATGTACTCAGGTTT
 AGGGCCCGAGATTGCCGGGGTGTCTGGGTGGACGACCTGCCCCACCTCCGCTGAGCTGTAACATGTGG
 ACTTCAGTGTGCGCGTACACCAGCTATAGCGTGCAGACGATGGAGACTGTGCCGTACCAGCCCTTCCCCA
 CGCACTTACCAGCCACCACCATGATGCCGCGGCTGCCACCCTCTCCGCTCAGAGCTCCAGCCACCAGG
 AAATGCCCACTTTAGTGTCTACAATCAGCTCTCCAGTCTCAGGTCGAGAGCGGGGGCCAGCGCTCA
 TTCCCAAGAGAGCGCGGCTCCCCAAGGGTGTGAGAGGAAGCCACCTCGCCACATCTAAATGCTGCCA
 ATGAGTTTCTACTCTCAAACCTTCTCCTGTCCCGAGAATCTCCTTACAGTACCATTAGGAATGGG
 GACTGTGGAGAACTGGACTGACGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217451 representing NM_018488
 Red=Cloning site Green=Tags(s)

MLQDKLSESEEAFRAGPALGEASAANAPEPALAAPGLSGAALGSPPGADVVAAAAAEQTIENIKVG
 LHEKELWKKFHEAGTEMIITKAGRRMFPSYKVKVTGMNPKTKYILLIDIVPADDHRYKFCDNKWMVAGKA
 EPAMPGRLYVHPDSPATGAHWMRQLVSFQKLLTNNHLDPFGHIIILNSMHKYQPRLHIVKADENNAFGSK
 NTAFCETHVFPETSFISVTSYQNHKITQLKIENNPFAKGFGRSDDSLRVARLQSKEYPVIKSKSIMRQLI
 SPQLSATPDVGPLLGHQALQHYQHENGASQLAEPQDLPLSTFPTQRDSSLFYHCLKRRDGRHLDLPC
 KRSYLEAPSSVGEDHYFRSPPPYDQQLSPSYCSEVTPREACMYSGSGPEIAGVSGVDDLPPPLSCNMW
 TSVSPYTSYSVQTMETVPYQPFTHFTATTMPRLPTLSAQSSQPPGNAHF SVYNQLSQSQVVRERGPSAS
 FPRERGLPQGCERKPPSPHLNAANEFLYSQTFSLSRESSLQYHSGMGTVENWTDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8015_f07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018488

ORF Size: 1635 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

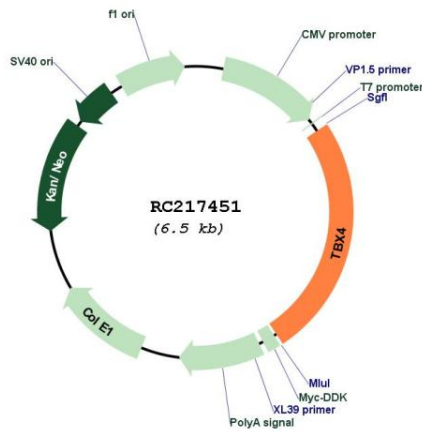
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_018488.3](#)

RefSeq Size: 2470 bp
 RefSeq ORF: 1638 bp
 Locus ID: 9496
 UniProt ID: [P57082](#)
 Cytogenetics: 17q23.2
 MW: 60 kDa

Gene Summary: This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene is the human homolog of mouse Tbx4, which is closely linked to Tbx2 on mouse chromosome 11. Similarly this gene, like TBX2, maps to human chromosome 17. Expression studies in mouse and chicken show that Tbx4 is expressed in developing hindlimb, but not in forelimb buds, suggesting a role for this gene in regulating limb development and specification of limb identity. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC217451