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Product datasheet for RR208413

Tbx6 (NM_001108920) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbx6 (NM_001108920) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbx6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208413 representing NM_001108920 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTACCATCCACGAGAGTTATACCCCTCTCTGGGGACTGGCTACCGTCTGGGACACCCCCAGCCTGGGG CAGACTCAACCTTCCCACCTGCCCTGACAGAGGGCTACCGCTACCCTGATTTGGATACTTCTAAACTGGA TTGCTTCCTCTCTGGGATTGAGGCAGCTCCCCACACTCTGGCTGCACCCCCTCCTTTGCCCCTTCTCCCA TCTGCTCTGGGCCCTGAGACAGCACCGCCACCCCCAGAGGCCCTTCACTCGCTTCCTGGGGTCAGCCTGA GCTTGGAGAACCAGGAACTGTGGAAGGAATTCAGCGCTGTGGGAACAGAGATGATCATCACCAAGGCTGG CAGGCGTATGTTCCCTGCTTGCCGAGTATCAGTCACAGGCCTGGACCCGGAGGCCCGGTACTTGTTCCTT CTGGATGTGGTTCCAGTGGATGGGGCCCGATACCGCTGGCAGGGCCAGCACTGGGAGCCCAGTGGCAAGG CTGAGCCCCGCCTACCCGACCGTGTCTACATTCACCCTGATTCTCCTGCCACTGGTGCCCACTGGATGCG GCAGCCCGTATCCTTCCACCGTGTTAAGCTCACCAACAGCACGCTGGACCCCCATGGCCACCTGATCTTG CATTCCATGCACAAGTACCAGCCTCGCATTCACCTGGTGAGAGCCACCCAACTCTGCAGCCAACACTGGG GGGGTGTGGCCTCCTTCCGATTTCCTGAGACCACATTCATCTCAGTGACAGCCTACCAGAACCCTAGGAT CACACAGCTGAAGATCGCAGCCAATCCCTTTGCCAAAGGTTTCCGAGAAAATGGCAGAAACTGTAAGAGG GAGCGGGATGCCCGTGTGAAGAGGAAACTCCGGGGCCCAGAGCCAGTGGCCACAGAGGCCTGTGGGAGTG GGGATACACCAGGGGGTCCCTGTGACTCCACCCTGGGTGGGGATATTCGAGATTCAGATCCAGAGCCGGC TCCTACCCCCCAGGAAGCTGCTTCTGCCTCAGCTCCTCCATGTGGGGGCCCCAGTGCTGAGGCCTACCTC CTGCACCCTGCAGCTTTTCATGGGGCCCCCAGTCATCTACCAGCCAGGACCCCCAGCTTCCCTGAGGCTC CAGACCCTGGGCGCCCAGCCCCCTACTCAGCTGCATTCCTGGAGCTACAGCCTGGACCGGGGAGCTCTGC TTATCAAACGACCCCATCTGTAACACCCTTTGCCCCTCACTTTATTCAAGGGGCCCCCTTCCCTCTACCA TACCCAGGACCTGGAGGATATCTGGACATGGGATCCAAGCAAATGTAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

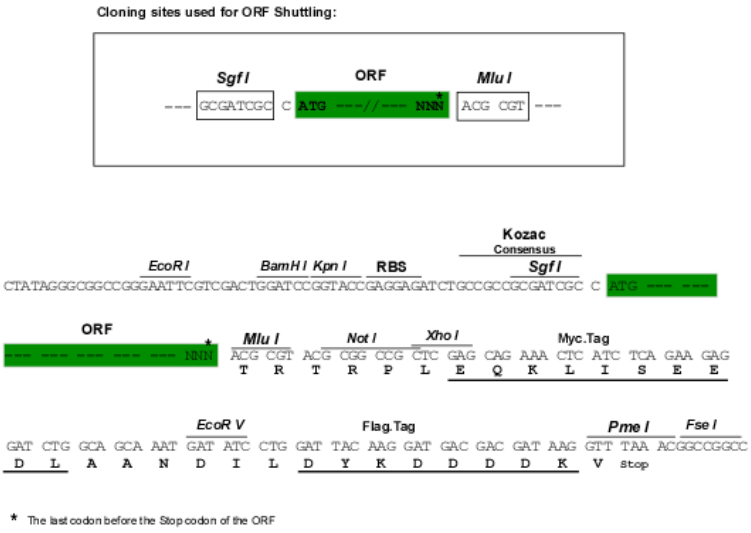
>RR208413 representing NM_001108920
Red=Cloning site Green=Tags(s)

MYHPRELYPSLGTGYRLGHPQPGADSTFPPALTEGYRYPDLDTSKLDCFLSGIEAAPHTLAAPPPLPLLP
SALGPETAPPPPEALHSLPGVSLSLENQELWKEFSAVGTEMIITKAGRRMFPACRVSVTGLDPEARYLFL
LDVVPVDGARYRWQGQHWEPSGKAEPRLPDRVYIHPDSPATGAHWMRQPVSFHRVKLTNSTLDPHGHLIL
HSMHKYQPRIHLVRATQLCSQHWGGVASFRFPETTFISVTAYQNPRITQLKIAANPFAKGFRENGRNCKR
ERDARVKRKLRGPEPVATEACGSGDTPGGPCDSTLGGDIRDSDPEPAPTPQEAASASAPPCGGPSAEAYL
LHPAAFHGAPSHLPARTPSFPEAPDPGRPAPYSAAFLELQPGPGSSAYQTTPSVTPFAPHFIQGAPFPLP
YPGPGGYLDMGSKQMY

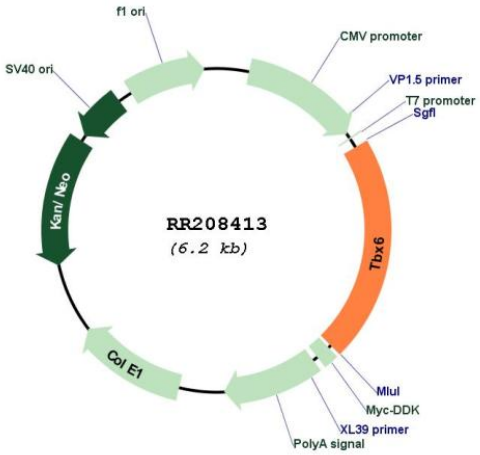
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001108920
ORF Size:	1308 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_001108920.1, NP_001102390.1
RefSeq Size:	1726 bp
RefSeq ORF:	1311 bp
Locus ID:	365371
UniProt ID:	D3ZJK7
Cytogenetics:	1q36
MW:	47.2 kDa
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]