

Product datasheet for **MG224937**

Tbx6 (NM_011538) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tbx6 (NM_011538) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tbx6
Synonyms: rv
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224937 representing NM_011538
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCATCCACGAGAGTTGTACCCCTCCCTGGGACTGGCTACCGTCTGGGACACCCAGCCTGGG
CAGACTCCACCTCCCACCTGCCCTGACAGAGGGTTACCGCTACCTGATTTGGATACTTCTAACTGGA
TTGCTTCTCTCTGGGATCGAGGCAGCTCCACACTCTGGCTGCAGCCGCTCCTTTGCCCTTCTCCA
TCTGCTCTGGGCCCGAGACAGCACCCGCCACCCAGAGGCCCTTCACTCGTTCCTGGGGTCAAGCTGA
GCTTGGAGAACCAGGAAGTGTGAAGGAATTCAGCGCTGTGGGACAGAGATGATCATCACCAAGGCTGG
CAGGCGCATGTTCCCTGCTTGGCGAGTATCAGTCACTGGCCTGGACCCAGAGGCCGCTACTTGTTCCT
CTGGATGTGGTCCAGTGGATGGGGCCGATACCGCTGGCAGGGCCAGCACTGGGAGCCAAGTGGCAAGG
CTGAACCCCGCTACCCGACCGTGTCTACATTCACCCCTGACTCTCCTGCCACTGGTGCCACTGGATGCG
GCAGCCCGTATCCTTCCATCGTGTAAAGCTCACCAACAGCACACTGGACCCCATGGCCACTGATCTTG
CACTCGATGCACAAGTACCAGCTCGCATCCACCTGGTGGAGGCCACCCAACTATGCAGCCAACACTGGG
GGGGTGTGGCTCCTTCCGATTTCTGAGACCACATTCATCTCTGTGACAGCCTACCAGAACCCTAGGAT
CACACAGCTGAAGATCGCAGCCAATCCCTTTGCCAAAGGTTTCCGAGAAAATGGCAGAACTGTAAGAGG
GAGCGGGATGCCCGTGTGAAGAGGAAACTTCGGGGCCAGAGCCAGTGGCCACAGAGGCCCTGGGAGT
GGGATACACCAGGGGGTCCCTGTGACTCCACCCTGGGTGGGACATTCCGGACTCAGATCCAGAGCAGGC
CCCAACCCCCAGGAAGCTGCTTCTGCCTCAGCTCCTCCATGTGGGGGCCCAAGTCTGAGGCTACCTT
CTACACCTGCCGCTTTTCATGGCGCCCCAGTCACTACCAGCCAGGACCCCACTTCGCTGAGGCTC
CAGACCTGGGCGCCAGCCCCACTCAGCTGCATTTCTGGACCTACAGCCTGGACCAGGGGGCTCTGC
CTATCAGGCAGCTCCATCTGTACCATCCTTTGCCCACTTCATCCAAGGGGTCCCTTCCCTTACCG
TACCCAGGACCTGGAGTTATCTGGACATGGGATCCAAGCCAATGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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MYHPRELYPSLGTGYRLGHPQPGADSTFPPALTEGYRYPDLDTSKLDCFLSGIEAAPHTLAAAAPLPLLP
 SALGPETAPPPPEALHSLPGVLSLENQELWKEFSAVGTEMIITKAGRRMFACRVSVTGLDPEARYLFL
 LDVVPVDGARYRWQGQHWEPESGKAEPRLPDRVYIHPDSPATGAHWMRQPVSFHRVKLTNSTLDPHGHLIL
 HSMHKYQPRIHLVRATQLCSQHWGGVASFRRFPETTFISVTAYQNPRITQLKIAANPFKAGFRENGRNCKR
 ERDARVKKRLRGPEPVATEACGSGDTPGGPCDSTLGGDIRSDPEQAPTQEAASASAPCGGPSAEAYL
 LHPAAFHGAPSHLPARTPSFAEAPDPGRPAPYSAFLDLQPGPGGSAYQAAPSVPSFAPHFIQGGPFPLP
 YPGGGYLDMGSKPMY

TRTRPLE - GFP Tag - V

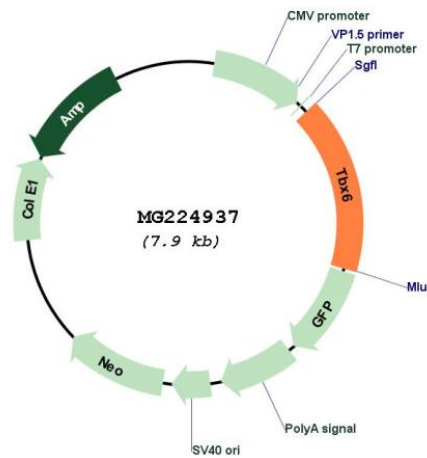
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_011538

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:	<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:	NM_011538.2 , NP_035668.2
RefSeq Size:	1731 bp
RefSeq ORF:	1311 bp
Locus ID:	21389
UniProt ID:	P70327
Cytogenetics:	7 69.25 cM
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 play also 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.[UniProtKB/Swiss-Prot Function]