

Product datasheet for **MR222567**

Tbx19 (NM_032005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbx19 (NM_032005) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbx19
Synonyms:	AU019250; D1Ertd754; D1Ertd754e; Tp; Tpit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222567 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGAAGTGGCCACACAGAAGGCTGGCGAAGGCACTGTGTCTCGCCTGCTTAACGTGGTGGAAAGTG
 AGCTCCAGGCAGGAGGGAGAAGGGAGACCTACAGAGAAGCAACTTCAGATCATCTGGAGGATGCTCC
 CCTCTGGCAGAGATTCAAGGAAGTCACTAATGAAATGATCGTGACCAAGAAGCGGACAGCGGATGTTCCCT
 GTCCTGAAGATTAGTGTACAGGGCTGGACCCCAATGCTATGTAATCTCTCTACTGGACTTCGTCGGGA
 CCGACAGTCAACGCTGGAAGTACGTCAATGGTGAATGGTCCCCGCAGGCAAGCCAGAGGCTCTAGCCA
 CAGCTGTGTCTACATTCACCCGACTCCCCCAACTTCGGGGCTCACTGGATGAAAGCTCCCATCTCCTTC
 AGCAAAGTGAAGCTGACCAACAAGCTCAATGGAGGTGGCAGATAATGCTGAATTCTCTGCATAAATATG
 AACCTCAGTTTCATATAGTCCGTGTTGGAGGCGCCATCGAATGGTCATGAAGTCTCATTCCCTGAAAC
 TCAGTTTCATCGTGTGACTGCCTATCAGAATGAGGAGATAACAGCTCTCAAATCAAGTACAACCCCTTC
 GCCAAGGCCTTCTTGATGCCAAGGAGAGAAACCCTCAAGGATGTTCCAGAGGCCATCTCTGAGAGCC
 AGCATGTGACCTACTCTCACTTGGGAGGCTGGATCCTTTCCAATCCGGATGGTGTGTGCACAGCAGCAAA
 CAGCAATTACAGTATGCTACGCCTTTGCCTCTGCCTGCTCCCCACACACACCATGGCTGTGAGCACTAC
 GCTGGCCTCCGAGGTCATCGGCAGGCTCCCTACCTTCTGCCTACATGCATAGAAACCATCTCCCTCAG
 TGAATTTGATAGAAAGCTCAAGCAACAATCTGCAAGTTTTCTCGGGACCTGACAGCTGGACTTCCTTATC
 CTCCACACCCCATGCCAGCATCTGTCTGTACCCACAGCAATGGCCCAATCAACCCAGGGCCAGCCCC
 TATCCGTGCTGTGGACCATAGCAATGGAGGTGGGGCCCGTGGCATCAGGCTCAGAGGTGCACGCCA
 GCACCTCAGGAACAATTCTCCTTGGGAACCTGCTGCACTTACCTTCTCTTTGCTCCCACCCCAAGC
 GACCACTTCAGCTGGTGTGGAGGCTTGGGTGAACCTTCACTAACCAGCATTGCTGTGTCCACCTGGACA
 GCCGTGGCCTCACACCCCTCCAGGCTGGGTGGCCAGGTGGAGCTGGGCGCCATTCTCCTTTCAT
 TGGATAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222567 protein sequence
 Red=Cloning site Green=Tags(s)

MSELATQKAGEGTVSRLLNVESELQAGREKGDPTKQLQIILEDAPLWQRFKEVTNEMIVTKNGRRMFP
 VLKISVTGLDPNAMYSLLLDVVRTDSHRWKYVNGEWPAGKPEVSSHSCVYIHPDSPNFGAHWMKAPISF
 SKVKLTNKLNGGGQIMLNSLHKYEPQVHIVRVGGAHRMVMNCSFPETQFIAVTAYQNEEITALKIKYNPF
 AKAFLDKERNHLKDVPEAISESQHVITYSHLGGWILSNPDGVCTAANSNYQYATPLPLPAPHTHHGCEHY
 AGLRGHRQAPYPSAYMHRNHSPSVNLISSNNLQVFSGPDSWTSLSSTPHASILSVPHSNGPINPGPSP
 YPCLWTISNGGGPVASGSEVHASTSGTILLGNPAVTPSPSLLPTQATTSAGVEVLGEPSTLSIAVSTWT
 AVASHPLPGWGGPGGAGRHSSSLDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_032005

ORF Size: 1341 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_032005.4](#), [NP_114394.1](#)

RefSeq Size: 2662 bp

RefSeq ORF: 1341 bp

Locus ID: 83993

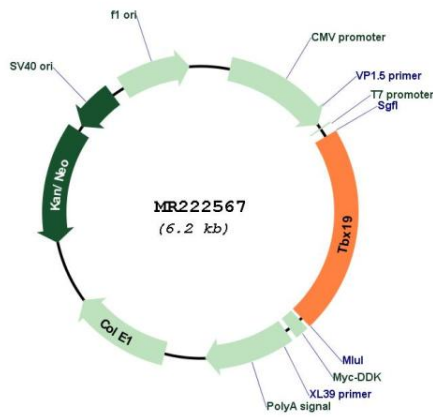
UniProt ID: [Q99ME7](#)

Cytogenetics: 1 72.47 cM

MW: 48 kDa

Gene Summary: This gene encodes a member of a family of transcription factors containing a characteristic T-box DNA-binding domain. The encoded protein promotes expression of the pro-opiomelanocortin (POMC) gene, which is important for the differentiation of cells in the pituitary gland. [provided by RefSeq, Mar 2013]

Product images:



Circular map for MR222567