

Product datasheet for **MG222567**

Tbx19 (NM_032005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbx19 (NM_032005) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbx19
Synonyms:	AU019250; D1Ertd754; D1Ertd754e; Tp; Tpit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222567 representing NM_032005
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTGAAGTGGCCACACAGAAGGCTGGCGAAGGCACTGTGTCTCGCCTGCTTAACGTGGTGGAAAGTG
 AGCTCCAGGCAGGAGGGAGAAGGGAGACCTACAGAGAAGCAACTTCAGATCATCCTGGAGGATGCTCC
 CCTCTGGCAGAGATTCAAGGAAGTCACTAATGAAATGATCGTGACCAAGAACGGCAGACGGATGTTCCCT
 GTCCTGAAGATTAGTGTACAGGGCTGGACCCCAATGCTATGTAATCTCTCTACTGGACTTCGTCGGGA
 CCGACAGTCAACGCTGGAAGTACGTCAATGGTGAATGGTCCCGCAGGCAAGCCAGAGGCTCTAGCCA
 CAGCTGTGTCTACATTCACCCGACTCCCCAACTTCGGGGCTCACTGGATGAAAGCTCCCATCTCCTTC
 AGCAAAGTGAAGCTGACCAACAAGCTCAATGGAGGTGGCAGATAATGCTGAATTCTCTGCATAAATATG
 AACCTCAGTTTCATATAGTCCGTGTTGGAGGCGCCATCGAATGGTCATGAAGTCTCCTTCCCTGAAAC
 TCAGTTTCATCGTGTGACTGCCTATCAGAATGAGGAGATAACAGCTCTCAAATCAAGTACAACCCCTTC
 GCCAAGGCCTTCTTGATGCCAAGGAGAGAAACCACTCAAGGATGTTCCAGAGGCCATCTCTGAGAGCC
 AGCATGTGACCTACTCTCACTTGGGAGGCTGGATCCTTTCCAATCCGGATGGTGTGTGCACAGCAGCAAA
 CAGCAATTACAGTATGCTACGCCTTTGCCTCTGCCTGCTCCCCACACACACCATGGCTGTGAGCACTAC
 GCTGGCCTCCGAGGTCATCGGCAGGCTCCCTACCTTCTGCCTACATGCATAGAAACCATTTCCCTCAG
 TGAATTTGATAGAAAGCTCAAGCAACAATCTGCAAGTTTTCTCGGGACCTGACAGCTGGACTTCCTTATC
 CTCCACACCCCATGCCAGCATCTGTCTGTACCCACAGCAATGGCCCAATCAACCCAGGGCCCAGCCCC
 TATCCGTGCCTGTGGACCATTAGCAATGGAGGTGGGGCCCCGTGGCATCAGGCTCAGAGGTGCACGCCA
 GCACCTCAGGAACAATTCTCCTTGGGAACCCCTGCTGTCACTTACCTTCTCTTTGCTCCCCACCCAAAGC
 GACCACCTCAGCTGGTGTGGAGGCTTGGGTGAACCTTACTAACCAGCATTGCTGTGTCCACCTGGACA
 GCCGTGGCCTCACACCCCTCCAGGCTGGGTGGCCAGGTGGAGCTGGGCGCCATTCTCCTTTCAT
 TGGATAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222567 representing NM_032005
 Red=Cloning site Green=Tags(s)

MSELATQKAGEGTVSRLLNVVESELQAGREKGDPTKQLQIILEDAPLWQRFKEVTNEMIVTKNGRRMFP
 VLKISVTGLDPNAMYSLLLDVVRTDSHRWKYVNGEWPAGKPEVSSHSCVYIHPDSPNFGAHWMKAPISF
 SKVKLTNKLNGGGQIMLNSLHKYEPQVHIVRVGGAHMVMNCSFPETQFIAVTAYQNEEITALKIKYNPF
 AKAFLDAKERNHLKDVEAISESQHVITYSHLGGWILSNPDGVCTAANSNYQYATPLPLPAPHTHHGCEHY
 AGLRGHRQAPYPSAYMHRNHSPVNLIESSSNQLQVFSGPDSWTSLSSTPHASILSVPHSNGPINPGPSP
 YPCLWTISNGGGPVASGSEVHASTSGTILLGNPAVTPSPSLLPTQATTSAGVEVLGEPSTLSIAVSTWT
 AVASHPLPGWGGPGGAGRHSSSLDS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032005

ORF Size: 1338 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

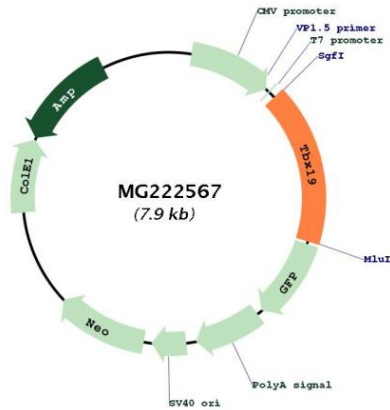
UniProt ID: [Q99ME7](#)

Cytogenetics: 1 72.47 cM

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 MG222567