

Product datasheet for **MC219390**

Mtf2 (NM_013827) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtf2 (NM_013827) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mtf2
Synonyms:	9230112N11Rik; AA537621; C76717; M96; Pcl2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_013827, the custom clone sequence may differ by one or more nucleotides

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ATGAGAGACTCTACAGGAGCAGGTAATTCCTGGTCCACAAGCGGTCTCCTTTACGTGCGAAACCAAAAGA
CCTCAGCATCCTTGAACAAGCTGTCTTTACAGGATGGACATAAAGCCAAAAACCAGCATGTAATTTGA
AGAGGGTCAAGATGTCTTAGCTAGATGGTCAGATGGCTTGTTTTATCTTGGAACTATCAAAAAGATAAAC
ATATTGAAACAGAGCTGCTTCATCATATTTGAGGACAGTTCCAAATCCTGGGTTCTCTGGAAGGACATCC
AAACAGGAGCCACTGGGAGTGGGAAATGGTCTGTACAATATGTCAAGAAGAGTATTGAGAACTCCCAA
TGAAATGGTTATATGTGATAAGTGTGGTCAAGGATATCATCAGCTGTGTACACACCTCATATTGACTCG
AGTGTGATTGATTCAGATGAAAAGTGGCTTTGTGACAGTGCCTTTTGCACAACTACAAAAGGGGGTG
GTGCGCTTAAGAAAGGACCAATGCCAAAGCATTGCAAGTCATGAAGCAGACATTACCCTATAGTGTGGC
TGACCTTGAATGGGATGCAGGCCATAAAACCAATGTCCAGCAGTGTACTGCTATTGTGGAGGCCCTGGA
GACTGGTATTTAAAGATGCTGCAGTGTGCAAATGTAAGCAGTGGTTTCATGAAGCTTGTGTCCAATGCC
TTCAGAAGCCAATGCTGTTTGGAGATAGTTTTATACATTTATTTGCTCTGTCTGCAGTTCTGGACCAGA
ATACCTCAAACGTCTACCGTTACAGTGGGTAGATATAGCACACCTATGCCTTTACAACTAAGTGTATT
CACAAGAAGAAATACTTTGATTCTGAACTTGAGCTTATGACATACATTAATGAAAAGTGGGATAGATTGC
ACCCTGGAGAGCTGGCAGACACACCCAAATCTGAAAGATATGAGCATGTTCTGGAGGCATTAATGATTA
CAAGACCATGTTTATGTCTGGGAAAGAAATAAAGAAGAAGAAGCATTGTTTGGGTTGCGAATTCGTGTT
CCTCCTGTGCCACCAATGTGGCTTTCAAAGCAGAGAAAGAACAGGAAGCAATCCCATGAATTTAAAA
TAAAGGCAGAAAGGCATCCAAACCTACATCTGACTCAAGGGAAGTAAGCAATGGGATAGAAAAAAGG
AAAGAAAAATCTGTAGGTCGTCTCTGGCCCATATAACAAGAAAAATGATTCAAAAAGTGTGAGCTA
CCTTTGGATAAGGAATCAGTTTCAGAGAATCCTACGTTGGATTTACCTTGTCTATAGGGGAACTGAGG
GAATTGCACATTCATCCAATACCTCAGATGTGGACCTCACGGGTGCTTCCAGTGCACAAACGAACTACCTC
GGCTAGCATTTCCAGGCATTGTGGATTATCAGACTCTAGAAAAAGAACTCGCACAGGAAGATCATGGCCT
GCTGCAATACCACATTTGCGGAGAAGAAGAGGTGCGCTTCCACGAAGAGCACTCCAGACTCAGAAGTCA
AAGTTGTGAAAGATGATGAAGGCAAGAAGATTATCAGTTTGAAGAACTAACACAGAAATCTGAATAA
CTTAGCAGATCAGGAGTTGCAGCTCAATCACCTGAAAACTCCATCACTAGTATTTTGGTGCCGAGGT
AGAATAGCATGTGGCGAAAAATACAGAGTTTTGGCTCGTCGGGTGACGCTTGATGGGAAGGTGCAGTATC
TTGTGGAATGGGAAGGAGCGACTGCATCCTGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_013827

Insert Size: 1782 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC092237](#), [AAH92237](#)

RefSeq Size: 4099 bp

RefSeq ORF: 1782 bp

Locus ID: 17765

UniProt ID: [Q02395](#)

Cytogenetics: 5 F

Gene Summary: Polycomb group (PcG) that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex. Acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting the PRC2 complex, leading to enhance PRC2 H3K27me3 methylation activity. Regulates the transcriptional networks during embryonic stem cell self-renewal and differentiation. Promotes recruitment of the PRC2 complex to the inactive X chromosome in differentiating XX ES cells and PRC2 recruitment to target genes in undifferentiated ES cells. Required to repress Hox genes by enhancing H3K27me3 methylation of the PRC2 complex. In some conditions may act as an inhibitor of PRC2 activity: able to activate the CDKN2A gene and promote cellular senescence by suppressing the catalytic activity of the PRC2 complex locally. Binds to the metal-regulating-element (MRE) of MT1A gene promoter.
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) lacks an alternate exon in the 5' end compared to variant 7. The resulting isoform (1) has a shorter and distinct N-terminus compared to isoform 3.