

Product datasheet for **MG209958**

Mtf1 (NM_008636) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtf1 (NM_008636) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mtf1
Synonyms:	MTF-1; Thyls
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG209958 representing NM_008636
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGAACACAGTCCAGACGACAATATCATCTTCTTTAAGGGAGAGGAGGATGACCTAACCCCGCATG
 ACAAGATGCTCAGTTTTGTGGATGACAACGGACTGGTGCCTTCCTCATCTGGAACGTTTATGATAGGAC
 CACTGTTCTCATAGAACAGGACCCTGGCACTTTGGAGGATGATGAAGACGATGGACAGTGTGGAGAACC
 TTGCCTTTTCTGGTGAAGGTGAAGAGGGCTTCTTAATAGATCAGGAAGCAATGTCCAGGGTTACGTAC
 AACACATTATCTCACCAGATCAGATTCAATTTGACTATAAACCTGGTTCCACACCCATGCCAAGAAACAT
 TGAAGGTGCAACTCTTACTCTGCAGTCGGAATGTCCAGAAACGAAACGGAAAGAAGTAAAGCGGTACCG
 TGCACCTTTGAGGGATGCCCTCGCACCTACAGCACAGCAGGCAACCTGCGCACCCACCAGAAGACTCACC
 GAGGAGAGTACACCTTCGTCTGTAAATCAGGAGGGCTGTGGCAAGGCCCTTCTCACCTCTACAGCCTCAG
 GATCCATGTGCGAGTGCACACAAAGGAGAAGCCATTTGAGTGTGACGTGCAGGGCTGTGAGAAGGCGTTC
 AACACACTGTACAGGTTGAAAGCACATCAGAGGCTTCACACAGGAAAACGTTTAACTGTGAATCTCAAG
 GCTGCAGCAAATACTTACCACACTCAGTGACCTGCGGAAGCACATTCGGACCCATACAGGAGAAAAGCC
 ATTTTCATGTGATCACGACGGCTGTGGGAAAGCGTTTGCAGCGAGCCACCACCTTAAAACACTCACGTCGG
 ACGCACACTGGTAAAAGACCTTCTTCTGCCAGCAACGGCTGTGAGAAGACGTTCCAGCACTCAGTACA
 GTCTCAAAGTCACATGAAAGGTGATGATAACAAAGGCACTGCATACAGTGCCTCCACAGCACAATGG
 ATCAGAGGATACAAATCACTCACTTTATCTGAGTGAGCTGGGCCTTCTGTCCACAGATTCTGAATGCAA
 GAAAATTCAGTTCGACACAGGACCAGGACCTCAGCACAATTTACCAGCAATCATCTTTGAATCAATGT
 TCCAGAATTCGACGACCTGGGATTGAGGACGACCCTCTGCAGACAGCTGCCTTGATTGACAGTTTTAA
 TGGTGATGCAGAGTCCGTCATTGATGTCCACCGCCTGCAGGAAATTCGGCGTCTTTATCTCTTCCACTC
 GACTGCAGTCTGGCATCTCCGAGCCACCCAGCCTCTGCTACCAGCAACAGCTCCGTCCTCCTCCAC
 CTGCTCCCTCCCTAGGACCTGGTCCCAGCCAGCTGCATTTGGCAGCCCCCTGCTCTTTACAACCTCC
 AGAAGTGCCTGTTCCCCACAGCACACAGTTTGTGCTAATCATCAAGAGTTTCTTCCGACCCCCAGGCG
 CCACCCAGACCATCGTACCAGGACTTTCTGTTGTTGCTGGGGCTCCTGCATCAGCAGCAACAGTGGCGT
 CAGCCGTGGCAGCACCAGCCCCACCACAAAGTACTACTGAGCCCTGCCTGCTATGGTCCAGACTCTGCC
 CCTGGGTGCCAACTCTGCCTAACTAATAATCCCACCATAACCATCACCCCAACTCTAACACGGCAATC
 CTGCAGTCCAGCCTAGTCATGGGAGAACAGAATTACAGTGGATATTGAACGGTGCCACCAGTTCACCAC
 AAAACCAAGAACAATTCAGCAAGCATCGAAAGTGGAGCAGGTGACTTCGCCACCCTGTACCAGTGGC
 CAGTGGCAGGGAGCTCTGTTACAGAGATTGGCCTCAGTGTTCCTGTGATCATCATCAAACAAGAGGAG
 GCCTGTGAGTGTGAGTGCAGTGCAGGACTCTGCGAAGGAGCGGGCGGCCGGGAGAAAAGGATGTT
 CTCCCCACCCCTCCAGAGCCGAACCCACAGCCTCTGATGGGCCAGCCTGCAGCTGCCACCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209958 representing NM_008636
 Red=Cloning site Green=Tags(s)

MGEHSPDDNIIFFKGEEDDLTPHDKMLRFVDDNGLVPSSSGTVYDRRTTVLIEQDPGTLEDDDDGQCGEP
 LPFLVEGEEGFLIDQEAMSOQYVQHIISPDQIHLTINPGSTMPRNI EGATLTLQSECPETKRKEVKRYQ
 CTFEGCPRTYSTAGNLRTHQKTHRGEYTFVCNQEGCGKAF L TSYSLRIHVRVHTKEKPFECADVQCEKAF
 NTLYRLKAHQRLHTGKTFNCESQGC SKYFTT LSDLRKHIRTHTGEKPFRCDDHDGCGKAF AASHHLKTHVR
 THTGERPFFCPSNGCEKTFSTQYSLKSHMKGHDNKG TAYSALPQHNGSEDTNHSLYLSELGLLSTDSELQ
 ENSSSTQDQDLSTISP A IIFESMFQNSDDPGIQDDPLQTAALIDSFNGDAESVIDVPPPAGNSASLSLPL
 VLQSGISEPPQPLL PATAPSAPPAPSLGPGSQPAAF GSPALLQPPEVVPVHSTQFAANHQEFLPHPQA
 PPQTIVPGLSVVAGAPASAATVASAVAAPAPPQSTTEPLPAMVQTLPLGANSVL TNNPTITITPTPNTAI
 LQSSLVMGEQNLQWILNGATSSPQNQEIQQASKVEQVYFATAVPVASGTGSSVQQIGLSVPVIIKQEE
 ACQCQCACRDSA KERAAGRRKGCSSPPPEPNPQPPDGPSLQLPP

TRTRPLE - GFP Tag - V

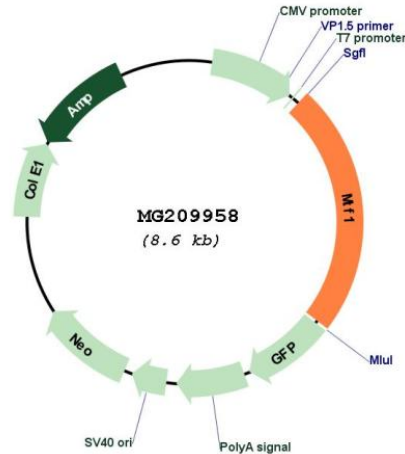
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_008636

ORF Size: 2025 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_008636.2](#), [NP_032662.2](#)

RefSeq Size: 5461 bp
RefSeq ORF: 2028 bp
Locus ID: 17764
UniProt ID: [Q07243](#)
Cytogenetics: 4 57.91 cM
Gene Summary: Activates the metallothionein I promoter. Binds to the metal responsive element (MRE).
[UniProtKB/Swiss-Prot Function]