

Product datasheet for **SC116396**

MTF1 (NM_005955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTF1 (NM_005955) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTF1
Synonyms:	MTF-1; ZRF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116396 sequence for NM_005955 edited (data generated by NextGen Sequencing)

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ATGGGGGAACACAGTCCAGACAACAACATCATCTACTTTGAGGCAGAGGAAGATGAGCTG
ACCCCCGATGATAAAATGCTCAGGTTTGTGGATAAAAACGGACTGGTGCCTTCCTCATCT
GGAAGTGTATGATAGGACCACTGTTCTATTGAGCAGGACCCTGGCACTTTGGAGGAT
GAAGATGACGACGACAGTGCAGGAACTTGCCTTTTCTAGTAGGGGGTGAAGAGGGC
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GATCAGATTCAATTTGACAATAAACCTGGTTCCACACCCATGCCAAGAAATATTGAAGGT
GCAACCCTCACTCTGCACTCGGAATGTCCGAAAACAAAACGTAAAAGAAAGTAAAGCGGTAC
CAATGTACCTTTGAGGGCTGTCCCGCACCTACAGCACAGCAGGCAACCTGCGAACCCAC
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GTTCTGTGATCATCAAAACAAGAAGAGGCATGTCAGTGTGATGTCATGCCGGGAC
TCTGCAAAGGAGCGGGCATCCAGCAGGAGAAAAGGGCTGCTCCTCCCCACCCCTCCAGAG
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GCAGAGACTCCTTCAGACCCTCAGACAGAAACATTAAGTGCCATGGATGTGTCAGAGTTT
CTATCCCTCCAGAGCCTGGACACCCCGTCCAATCTGATTCCCATTTGAAGCACTACTGCAG
GGGAGGAGGAGATGGGCTCACCAGCAGCTTCTCCAAGTGA

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Clone variation with respect to NM_005955.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005955 unedited ATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGCTGGGGAGGGGAGAA GCTGCTGCTGCCGCCGTTGCCGGGAGCCGCGGAGACAAGTCATTACGTTTTTCATTTCTCA CAACTGGGCTGAGCACAACCTGAACCATGGGGGAACACAGTCCAGACAACAACATCATCTA CTTTGAGGCAGAGGAAGATGAGCTGACCCCGATGATAAAATGCTCAGGTTTGTGGATAA AAACGGACTGGTGCCTTCCTCATCTGGAAGTGTATGATAGGACCACTGTTCTTATTGA GCAGGACCTGGCACTTTGGAGGATGAAGATGACGACGGACAGTCCGGAGAACACTTGCC TTTTCTAGTAGGGGTGAAGAGGGCTTTACCTGATAGATCATGAAGCAATGTCCCAGGG TTATGTGCAGCACATTATCTCACCAGATCAGATTCATTTGACAATAAACCTGGTTCCAC ACCCATGCCAAGAAATATTGAAGGTGCAACCCTCACTCTGCAGTCGGAATGTCCGGAAAC AAAACGTAAGAAGTAAAGCGGTACCAATGTACCTTTGAGGGCTGTCCCGCACCTACAG CACAGCAGGCAACCTGCCAACCCACCAGAAGACTCACCGAGGAGAGTACACCTTTGTCTG TAATCAGGAGGGCTGTGGCAAAGCCTTCCTTACCTTTACAGCCTCANGATCCACGTGCG AGTGCACACGANAGAGAAGCCATTTGAGTGTGACGTGCAGGGCTGTTGAGAGGCATTCAA CACACTGTACAGGCTGAAAGCACATCAGAGGCTTACACAGGGAAAAACGTTACTGTGAA TCTGAAGGCTGCAGCAAATACTTACCACACTCAGTGATCTGTAGAAGCACATTGCGACCT CATAACAGGGGAAAAGCCATTTTCGTGCGATCACGATGGCTGTGGNAAAGCATTGTGACGA AGCCACACCTTAAAACCTCACGNTCGTACCN
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005955 unedited CGGCCGCAATCTAGAGTCGAGNNNTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGT TGGTTTTTTTTTTGGTTTTTTTTTTTTTTGGTTTTTTTCAAAAAATAATTCCTTAAAAGGA TGCTCCTGGGATGGGAATAAAAAAATACCTCTGAAAGGGGAGGATTTCAAACAGTAAAA TTCTTTATCCTTTAAAATTCTGACCCATGATGGGAGGCATTGGACCTCATGCCTCCTGGT CACCCGCTTTTTCCAAAAGGGAACACACATGGGCCCTTACTTGGAAAACTGGTGGTGA GGGCCATTTTCTTCTCCCTGGAGTAGTGCTTCAATGGGAATCAAATTGGACCGGGTGT CCAAGCTCTGGAGGGATAAAAACTCTGACACATCCCTGGCACTTAATGGTTCTGTCTGAA GGTCTGAAAGAATCTCTGCTTGTGCGCTTTTCTACAAGAGGAGGGCAAGGTAAGATG ATGACCCCGGAACAGGGGCTGAAGAAAAATCTGCGCTGGGAACGCAAGCTGGGCCCAT CAAGAACCTGGGGGCTCGGCTCTTGAGGGGGTGGGGAGGAACAACCTTTCTTCTGCTGG ATGCCCGCTCCTTTGAGAGTCCCGGCATGCACACTGACACTGACATGCCTCTTCTTGTT TGATGATGATCACAAGAACACTGAAGCCACATCTGCTGGACAGAACTCCCTGGGCTACTG GCTACTGGTACTGCAGNNGGAAAAACACCTTCTCAACTTTAGAAGCCTGCTGAAATTNGT NCTTGGGTTTGTGGAGAAGTGGTGGCACCATTTAATATCACTTGGAAAGTTCTGGTCTCCA TGACANNNGCTGACTGCAGATAACTTGTGGGAGTTGGGGTATTGTTATTGGGGGAATA TATAANTAGGCACGNAGTTGGCACCAGGGNCACAATCTGGACCATGGCCTGCAGGGCTCA TANAACCTTTGGNGNGGGGGCTTGGGCTGCCACCTGA
Restriction Sites:	NotI-NotI
ACCN:	NM_005955
Insert Size:	2980 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: [NM_005955.1](#), [NP_005946.1](#)

RefSeq Size: 3302 bp

RefSeq ORF: 2262 bp

Locus ID: 4520

UniProt ID: [Q14872](#)

Cytogenetics: 1p34.3

Domains: zf-C2H2

Protein Families: Transcription Factors

Gene Summary: This gene encodes a transcription factor that induces expression of metallothioneins and other genes involved in metal homeostasis in response to heavy metals such as cadmium, zinc, copper, and silver. The protein is a nucleocytoplasmic shuttling protein that accumulates in the nucleus upon heavy metal exposure and binds to promoters containing a metal-responsive element (MRE). [provided by RefSeq, Jul 2008]