

## Product datasheet for **SC116393**

### MT1X (NM\_005952) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MT1X (NM_005952) Human Untagged Clone
Tag:	Tag Free
Symbol:	MT1X
Synonyms:	MT-1I; MT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005952 edited ATGGACCCCAACTGCTCCTGCTCGCCTGTTGGCTCCTGTGCCTGTGCCGGCTCCTGCAAA TGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGCTGCTCCTGCTGCCCTGTGGGC TGTGCCAAGTGTGCCAGGGCTGCATCTGCAAAGGGACGTCAGACAAGTGCAGCTGCTGT GCCTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005952 unedited TGCTTCTCCTTGCCTCGAAATGGACCCCAACTGCTCCTGCTCGCCTGTTGGCTCCTGTGC CTGTGCCGGCTCCTGCAAATGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGCTGCTG CTCCTGCTGCCCTGTGGCTGTGCCAAGTGTGCCAGGGCTGCATCTGCAAAGGGACGTC AGACAAGTGCAGCTGCTGTGCCTGATGCCAGGACAGCTGTGCTCTCAGATGTAATAGAG CAACCTATATAAACCTGGATTTTTTTTTTTTTTTTTTTTTTTGTACAACCCTGACCCGTTTGC TACATCTTTTTTCTATGAAATATGTGAATGGCAATAAATTCATCTAGACTTNNNNAAAA AA AAAAAAAAAAAAAAAAAAAAAAAAAACCTCCCTTTAAATTGGGGCCGGGGTTTTATTTTTTTT TTAAAAAACCCGGGGGGGA



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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005952 unedited            NGCTTTGTTGGATATTGATTGGCCTTNCACANATTTNATAGNAAAAAAGNAGTAGCAAAC            GGGTCAGGCTTGTACAAAAAAAAAAAAAAAAAATCCAGGTTTATATAGGTTGCTCTAT            TTACATCTGAGAGCACAGCTGTCTGGCATCAGGCACAGCAGCTGCACTTGTCTGACGTC            CCTTTGCAGATGCAGCCCTGGGCACACTTGGCACAGCCACAGGGCAGCAGGAGCAGCAG            CTCTTCTTGCAGGAGGTGCATTTGCACTCTTTGCATTTGCAGGAGCCGGCACAGGCACAG            GAGCCAACAGGGCAGCAGGAGCAGTTGGGGTCCATTTGAGGCAAGGAGAAGCAGGAGTT            CCCGCTGGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGT            TCACTAAACGAGCTCTGCTTATATAGACCTCCCACCGTACACGCCTACCGCCATTGCG            TCAACGGGGCGGGTTATTACGACATTTTGGAAAGTCCCGTTGATTTTGGTGCCAAAAACA            AACTCCCATTGTGNNNNNGGGGTGGANACTTGGAAATCCCCGGGAGNNAACCAGGTTT            CACTGCCATTGGTGTCTGCCTACACCCNTTCCCATCGAGTAAAGTGTGGACCAACTCG            GAGACGCCCTGGCCCGCCTGAANNCCCTNCGGTTCTTGTTCGGGCTTTTAGGCCCGC            CGCCCCACCTCCACTCTTNAACTCCCCACCCTCCCNCTCCCCGTACCNNNNACCCTGT            CTCCCCGCCCGCCTTCAACNNCCACCTACCGCCACCCGTTNTCACCTNCTTGCTT            GTCTTTCCTNAAGCCCTGCTTCCNTNACTTCGAAACTTNNCCATCATGTGGGCCCAGA            TCCNCCTCTCCGCTACTCCCCCCACCCTNCCNCGTCTTCCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005952
<b>Insert Size:</b>	450 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005952.2</a> , <a href="#">NP_005943.1</a>
<b>RefSeq Size:</b>	454 bp

RefSeq ORF: 186 bp

Locus ID: 4501

UniProt ID: [P80297](#)

Cytogenetics: 16q13

**Gene Summary:** Metallothioneins have a high content of cysteine residues that bind various heavy metals; these proteins are transcriptionally regulated by both heavy metals and glucocorticoids. May be involved in FAM168A anti-apoptotic signaling (PubMed:23251525).[UniProtKB/Swiss-Prot Function]