

## Product datasheet for SC116392

### MT1G (NM\_005950) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MT1G (NM_005950) Human Untagged Clone
Tag:	Tag Free
Symbol:	MT1G
Synonyms:	MT1; MT1K
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116392 sequence for NM_005950 edited (data generated by NextGen Sequencing) ATGGACCCCAACTGCTCCTGTGCCGCTGGTGTCTCCTGCACCTGCGCCAGCTCCTGCAAG TGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGCTGCTGCTCCTGCTGCCCTGTGGGC TGTGCCAAGTGTGCCAGGGCTGCATCTGCAAAGGGGCATCGGAGAAGTGCAGCTGCTGC GCCTGA

Clone variation with respect to NM\_005950.1  
138 a=>g

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005950 unedited GGTTGCGCAATATGTA CTACGATTCACTATAGGGCGGCCGCGCAATTCGCACGAGCTCT TCCCTTCTCGCTTGGAACTCTAGTCTCGCCTCGGGTTGCAATGGACCCCAACTGCTCCT GTGCCGCTGCAGGTGTCTCCTGCACCTGCGCCAGCTCCTGCAAGTCAAAGAGTGCAAAT GCACCTCCTGCAAGAAGAGCTGTGCTCCTGCTGCCCTGTGGGCTGTGCCAAGTGTGCC AGGGCTGCATCTGCAAAGGGGCATCGGAGAAGTGCAGCTGCTGCGCCTGATGTCCGGACA GCCCTGCTCCCAAGTACAAATAGAGTGACCCGTAATAATCCAGGATTTTTTGT TTTTGTCT ACAATCTTGACCCCTTTGCTACATTCCTTTTTTCTGTGAAATATGTGAATAATAATTA ACACTTAGACTTGAAAAACAAACCCACCTCTCAAACAAAACACCCACCCACCCCCCCC CCCCACAAACAAAACCTCACTTACATGCGGCCGCGGCATACCTGTTTCTGAACAGAC CCCGGGGGGCATCCCTTGGACCCCTCCCCAGGCCTTCTGCGCCTGGAAGTTGCCACT CCAGTGCCCCCACCCTTGGCCTAATAAAATTAACCTGCTATTTTGTCTGACAAGGGGC CCTTCTATAAACTAAGGGGTGGAGGGGGGTGTATGGACCACGGGCAAGTTGGA AAAA ACCCCGTAGGCCCCCGGGCTCTATTGGAACCCACCTGGAGGCCCGGGCCATTTTGGTT CATTGCACCCCGCCCTCGGGTAAGGGATCCTTGCTCCTACCCCCATCTTTGGATTCT CCTTCTGCCAGGCTATAAATTTGCTTCTCGCAAACGGTTTCCATTATGGCAGCGTG CCCCACCCCATACTCGGTTCCCC
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005950 unedited TTT TAGTGTNTAATATTATTAACATATTTNACAGNAAAAAAGGAAGTAGCAAAGGGGT CAAGATTGTAGCAAAAAACAAAAATCCTGGATTTTACGGGTCACCTATTTGTACTTGG GAGCAGGGCTGTCCCACATCAGGCGCAGCAGCTGCACTTCTCCGATGCCCTTTGCAGA TGCAGCCCTGGGCACACTTGGCACAGCCACAGGGCATCAGGAGCAGCAGCTCTTCTTGC AGGAGGGGCGGGTGCACCTTTTGCCTTGCAGGAGCTGGCGCAGGTGCNNGAGACACCTG CACCCGCACANGAGCCGTTGGGGCCCATGNAACCCACGCGACACTATAGTCCACAACC GGGATAGCAACACCACGTCCCCNTCTGCCGCCCTCCCTTATCCACCCGCGCTCCCCC TCATACGGTCCC GCCCCCCCGTGGTTCGAGGGGCCGCGCTCCCTCCCCACCCACC TATTCCCCACGGCCCGCCCGCCACCCGAGTCGCTTACATGGTCTGCGGTGACGCAG GGATCCCACGTCCCCCTCTCCCCCTCCCTATAGCCCGACCGCCATCGTGCACGACAG GTGCGTGTGAAAATTCCCACCTACCCGCGTCTGCTTGGTCTAATCCCTCCGCATG CCCCCCCCCTCAATCCCCTGATCTCTTACCCGCAAGCCCTCCCCCCTGCCATT TCCCTCTATACCCCTCTCCCGGTTCCGCGGCTCCCCCGCCCTCCCAACACCCC CTTCCCTCTCCATCCCCCCCCGTACCTCGTCTTTGCCCGCGCGCTCACAACCTC GGCCCCCGCGCTACATTAGTCCCACGCCGTACGATACTTCAAACCGCGACAGCAGC TGCCGA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005950
<b>Insert Size:</b>	5480 bp
<b>OTI Disclaimer:</b>	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).
<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_005950.1</a> , <a href="#">NP_005941.1</a>
<b>RefSeq Size:</b>	396 bp
<b>RefSeq ORF:</b>	186 bp
<b>Locus ID:</b>	4495
<b>UniProt ID:</b>	<a href="#">P13640</a>
<b>Cytogenetics:</b>	16q13
<b>Protein Families:</b>	Stem cell - Pluripotency

**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.  
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter isoform (1).