

Product datasheet for **SC306998**

MT1E (NM_175617) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MT1E (NM_175617) Human Untagged Clone
Tag:	Tag Free
Symbol:	MT1E
Synonyms:	MT-1E; MT-IE; MT1; MTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306998 representing NM_175617. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCCCAACTGCTCTTGCGCCACTGGTGGCTCCTGCACGTGCGCCGGCTCCTGCAAGTGCAAAGAG
TGCAAATGCACCTCCTGCAAGAAGAGCTGCTGTTCTGCTGCCCGTGGGCTGTGCCAAGTGTGCCACG
GGCTGCGTCTGCAAAGGGGCATCGGAGAAGTGCAGCTGCTGTGCC TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_175617
Insert Size:	186 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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).



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Reconstitution Method:	<ol style="list-style-type: none">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:	<u>NM_175617.3</u>
RefSeq Size:	519 bp
RefSeq ORF:	186 bp
Locus ID:	4493
UniProt ID:	<u>P04732</u>
Cytogenetics:	16q13
Protein Families:	Druggable Genome
MW:	6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses alternate splice sites in the 3' coding region compared to variant 1, resulting in a frameshift. It encodes isoform 2, which is shorter and has a distinct C-terminus, compared to isoform 1.</p>