

Product datasheet for **SC125990**

Metallothionein (MT2A) (BC007034) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Metallothionein (MT2A) (BC007034) Human Untagged Clone
Tag: Tag Free
Symbol: Metallothionein
Synonyms: metallothionein 2A; MT2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for BC007034 edited
 AGGACCACGCCTCCTCCAAGTCCCAGCGAACCCGCGTGCAACCTGTCCCGACTCTAGCCG
 CCTTTTCAGCTCGCCATGGATCCCAACTGCTCCTGCGCCGCCGGTGACTCCTGCACCTGC
 GCCGGCTCCTGCAAATGCAAAGAGTGCAAATGCACCTCCTGCAAGAAAAGCTGCTGCTCC
 TGCTGCCCTGTGGGCTGTGCCAAGTGTGCCAGGGCTGCATCTGCAAAGGGGCGTCGGAC
 AAGTGCAGCTGCTGCGCCTGATGCTGGGACAGCCCGCTCCCAGATGTAAAGAACGCGAC
 TTCCACAAACCTGGATTTTTTATGTACAACCCTGACCGTGACCGTTTGCTATATTCCTTT
 TTCTATGAAATAATGTGAATGATAATAAAACAGCTTTGACTTGAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC007034 unedited
 GGTGAGGATTTGTATACGACTCCACTATAGGCGCGCGGAATTCGCCATTACGGCCGAG
 GACCACGCCTCCTCCAAGTCCCAGGGAACCCGCGTGCAACCTGTCCCGACTCTAGCCGCC
 TCTTCAGCTCGCCATGGATCCCAACTGCTCCTGCGCCGCCGGTGACTCCTGCACCTGCGC
 CGGCTCCTGCAAATGCAAAGAGTGCAAATGCACCTCCTGCAAGAAAAGCTGCTGCTCCTG
 CTGCCCTGTGGGCTGTGCCAAGTGTGCCAGGGCTGCATCTGCAAAGGGGCGTCGGACAA
 GTGCAGCTGCTGCGCCTGATGCTGGGACAGCCCGCTCCCAGATGTAAAGAACGCGACTT
 CCACAAACCTGGATTTTTTATGTACAACCCTGACCGTGACCGTTTGCTATATTCCTTTTT
 CTATGAAATAATGTGAATGATAATAAAACAGCTTTGACTTGAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAACATGTGCGCCGCCCTCGGCCCTCGACTCTAGA
 TTGCGGCCCGGTCATAGCTGTTTCTGAAACAGATCCCGGGTGGGATCCCTGTGACCCCT
 CCCCAGTGCCCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGGCCTAA
 TAAATAAAGTTGCATATTTTGTCTGACTAGGTGTCCTTCTATATTTATGGGGTGGG
 GGGGTGGGTATGGGACCAGGGGCAANTNGGAAAACCACCTTAGGGGCTGCGGGTCT
 ATGGGGAACCAACTGGGAGGGCATGGACATCTTGGTCACTGGAATCTCCGCCTCTGGG
 TCAGGCATTTTCGGCGTCACCTCCGGTGGTGGGGATCCCGGCTGCTTGACCGGCTAA
 CTATTTTGGGTTTTTGGGAAAAGCGGGTTACCA



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Restriction Sites:	Please inquire
ACCN:	BC007034
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:	<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>BC007034.1</u> , <u>AAH07034.1</u>
RefSeq Size:	451 bp
Locus ID:	4502
Cytogenetics:	16q13
Gene Summary:	<p>This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions, altering the intracellular concentration of heavy metals in the cell. These proteins act as anti-oxidants, protect against hydroxyl free radicals, are important in homeostatic control of metal in the cell, and play a role in detoxification of heavy metals. The encoded protein interacts with the protein encoded by the homeobox containing 1 gene in some cell types, controlling intracellular zinc levels, affecting apoptotic and autophagy pathways. Some polymorphisms in this gene are associated with an increased risk of cancer. [provided by RefSeq, Sep 2017]</p>