

## Product datasheet for **SC123646**

### MT3 (BC013081) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MT3 (BC013081) Human Untagged Clone
Tag:	Tag Free
Symbol:	MT3
Synonyms:	GIF; GIFB; GRIF; metallothionein 3; metallothionein 3 (growth inhibitory factor (neurotrophic))
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC013081 edited TGCTTGGAGAAGCCCGTTCCACCGCTCCAGCTGCTGCTCTCCTCGACATGGACCCTGAGA CCTGCCCTGCCCTTCTGGTGGCTCCTGCACCTGCGCGGACTCCTGCAAGTGCGAGGGAT GCAAATGCACCTCCTGCAAGAAGAGCTGCTGCTCCTGCTGCCCTGCGGAGTGTGAGAAGT GTGCCAAGGACTGTGTGTGCAAAGGCGGAGAGGACAGCTGAGGCAGAAGCAGAGAAGTGCA GCTGCTGCCAGTGAGAAGGCACCCCTCCGTGTGGAGCACGTGGAGATAGTGCCAGGTGGC TCAGTGCCACCTATGCCTGTGGTGAAGTGTGGCTGGTGTCCCCTTCCCCTGCTGACCTTG GAGGAATGACAATAAATCCCATGAACAGCAAAAAAAAAAAAAAAAAA
5' Read Nucleotide Sequence:	>OriGene 5' read for BC013081 unedited AGGGCGGCAAAAACCTTCCCGGATATCGTCGACCCACGCGTCCGTGCTTGGAGAAGCCC GTTCCACCGCTCCAGCTGCTGCTCTCCTCGAATGGACCCAGACCTGCCCTGCCCTTC TGGTGGCTCCTGCACCTGCGCGGACTCCTGCAAGTGCGAGGGATGCAAATGCACCTCCTG CAAGAATATTTGCTGCTCCTGCTGCCCTGCGGAGTGTGAGAAGTGTGCCAAGGACTGTGT GTGCAAAGGCGGAGAGGCAGCTGAGGCAGAAGCAGAGAAGTGCAGCTGCTGCCAGTGAGA AGGCACCCCTCCGTGTGGAGCACGTGGAGATAGTGCCAGGTGGCTCAGTGCCACCTATGC CTGTGGTGAAGTGTGGCTGGTGTCCCCTTCCCCTGCTGACCTTGGAGGAATGACAATAAA TCCCATGAACAGCANNANAAA GGGCGGCCGCGGTATAGCTGTTTCTTGAACAGATCCCGGTGGCATCCCTGTGACCCCT CCCCAGTGCCCTCCTGGCCCTGGAAGTTGCCACTCCAGTGCCCAACAGCCTTGTCTAA TAAATTAAGTTGCATCATTTTGTCTGACTAGGTGCCTTCTATAATATTATGGGGTGA GGGGGTGGTAATGGANCAAGGGCAAGTTGGGAAGACAACCTGTAAGGCCTGCGGGGT CTATGGGAACCAAGCTGGAGTGCAGGGGCACAATCTTGGCTTACTGCAATCTCCCGTCT CTGGTTCAAGCATTCTCCTGCCTCAACCCTCCGAGTTGTGGGGATTCCAGGCATGGCT GAACAAGCTCAACTAATTTTGGTTTCTTTGGAAAAACGGGGTTTTACCATATTGGCCAG CGGGCCCCCAA
Restriction Sites:	Please inquire



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<b>ACCN:</b>	BC013081
<b>Insert Size:</b>	400 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="#">BC013081.1</a> , <a href="#">AAH13081.1</a>
<b>RefSeq Size:</b>	404 bp
<b>Locus ID:</b>	4504
<b>Cytogenetics:</b>	16q13
<b>Gene Summary:</b>	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. This gene family member displays tissue-specific expression, and contains a threonine insert near its N-terminus and a glutamate-rich hexapeptide insert near its C-terminus relative to the proteins encoded by other gene family members. It plays an important role in zinc and copper homeostasis, and is induced under hypoxic conditions. The encoded protein is a growth inhibitory factor, and reduced levels of the protein are observed in the brains of individuals with some metal-linked neurodegenerative disorders such as Alzheimer's disease. [provided by RefSeq, Sep 2017]