

## Product datasheet for **SC331482**

### MTA1 (NM\_001203258) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MTA1 (NM\_001203258) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MTA1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331482 representing NM\_001203258.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGGCCGCCAACATGTACAGGGTCGGAGACTACGTCTACTTTGAGAACTCCTCCAGCAACCCATACCTG
ATCCGGAGAAATCGAGGAGCTCAACAAGACGGCCAAATGGGAACGTGGAGGCCAAAGTGGTGTGCTTCTAC
CGGAGGCGGGACATCTCCAGCACCCCTCATCGCCCTGGCCGACAAGCACGCAACCCGTGTCAGTCTGCTAT
AAGGCCGACCGGGGGCGGACAACGGCGAGGAAGGGGAAATAGAAGAGGAAATGGAGAATCCGGAATG
GTGGACCTGCCCGAGAACTAAAGCACCCAGCTGCGGCATCGGGAGCTGTTCTCTCCCGGACGTGGAG
TCTCTGCCCGCCACGCACATCAGGGGCAAGTGCAGCGTCACCCCTGCTCAACGAGACCCGAGTCGCTCAAG
TCCTACCTGGAGCGGGAGGATTTCTTCTTATTCTCTAGTCTACGACCCACAGCAGAAGACCCTGCTG
GCAGATAAAGGAGAGATTTCGAGTAGGAAACCGGTACCAGGCAGACATCACCGACTTGTTAAAAGAAGGC
GAGGAGGATGGCCGAGACCAGTCCAGGTTGGAGACCCAGGTGTGGGAGGCGCACAACCCACTCACAGAC
AAGCAGATCGACCAGTTCCTGGTGGTGGCCGCTCTGTGGGCACCTTCGCACGGGCCCTGGACTGCAGC
AGCTCCGTCGACAGCCAGCCTGCACATGAGCGCCGAGCTGCCTCCCGAGACATCACCCCTGTTCCAC
GCCATGGATACTCTCCACAAGAATCTACGACATCTCCAAGGCCATCTCGGCGTGGTCCCGCAGGGC
GGCCCGTGTCTGCAGGACGAGATGGAGGAGTGGTCTGCATCAGAGGCCAACCTTTTCGAGGAAGCC
CTGAAAAATATGGGAAGGATTTACGGACATTCAGCAAGATTTCTCCCGTGAAGTCGCTGACCAGC
ATCATTGAGTACTACTACATGTGGAAGACCACCGACAGATACGTGCAGCAGAAACGCTTGAAGCAGCT
GAAGCTGAGAGCAAGTTAAAGCAAGTTTATATCCCAACTATAACAAGCCAAATCCGAACCAAAATCAGC
GTCAACAACGTCAAGGCCGTTGGTGAACGGCACGGGGCGCCGGGCCAGAGCCCTGGGGCTGGCCGG
GCCTGCGAGAGCTGTTACATGTCGTCTCTGCGCATCTTGTGGACATATTGGAAGAAATATGGTGGCTT
GAAAATGCCAACCCGTTAGATGGAGAGAGGCCAGGACCAACCCGAGTAA
```

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001203258

**Insert Size:** 1293 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).



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<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>	<u><a href="#">NM_001203258.1</a></u>
<b>RefSeq Size:</b>	2809 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	9112
<b>UniProt ID:</b>	<u><a href="#">Q13330</a></u>
<b>Cytogenetics:</b>	14q32.33
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	49 kDa
<b>Gene Summary:</b>	<p>This gene encodes a protein that was identified in a screen for genes expressed in metastatic cells, specifically, mammary adenocarcinoma cell lines. Expression of this gene has been correlated with the metastatic potential of at least two types of carcinomas although it is also expressed in many normal tissues. The role it plays in metastasis is unclear. It was initially thought to be the 70kD component of a nucleosome remodeling deacetylase complex, NuRD, but it is more likely that this component is a different but very similar protein. These two proteins are so closely related, though, that they share the same types of domains. These domains include two DNA binding domains, a dimerization domain, and a domain commonly found in proteins that methylate DNA. The profile and activity of this gene product suggest that it is involved in regulating transcription and that this may be accomplished by chromatin remodeling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (2) uses an alternate splice junction at the 5' end of a coding exon compared to variant 1, that causes a frameshift. The resulting isoform (MTA1s) has a shorter and distinct C-terminus compared to isoform MTA1.</p>