

## Product datasheet for **SC117188**

### MTA2 (NM\_004739) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTA2 (NM_004739) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTA2
Synonyms:	MTA1L1; PID
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004739, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCAACATGTACCGGGTGGGAGATTACGTCTATTTTGAAGACTCTCCAGCAATCCTTACCTGG
TTAGACGGATTGAGGAGCTCAACAAGACTGCAAAATGGAAATGTGGAGGCAAAGGTTGTCTGTCTTTCCG
GCGCAGGGACATTTCTAGTAGCCTCAACAGCCTGGCTGATAGTAATGCCAGGGAGTTTGAAGAGGAATCA
AAGCAGCCAGGGGTGTCTGAGCAGCAGCGCCATCAACTGAAGCACGGGAACTTTTTCTTCTCGGCAAT
TTGAATCATTACCAGCCACCCACATACGGGGAAATGCAGTGTGACCCTCTTGAATGAGACAGATATCTT
GAGCCAGTACCTGAAAAGGAGGACTGCTTTTTTACTCACTGGTGTGTTGACCCGTGCAGAAGACACTT
CTCGCTGATCAGGGCAGATTAGAGTTGGTTGCAAAATACCAAGCTGAGATCCCAGATCGCCTAGTAGAGG
GAGAATCTGATAATCGGAACCAGCAGAAGATGGAGATGAAGGTCTGGGACCCAGACAACCCTCTCACAGA
CCGGCAGATCGACCAGTTTCTTGTGGTGGCCGAGCTGTGGGAACCTTTGCAAGAGCCCTAGATTGTAGC
AGCTCCATTGCGCAGCCAAGCTTGACATGAGTGCAGCTGCTGCCTCCCGAGATATCACTCTGTTTCAGC
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CCCGGTGCTGTGTCGGGATGAGATGGAGGAATGGTCAGCCTCAGAGGCCATGCTATTTGAGGAGGCCCTA
GAGAAGTATGGGAAGGACTTCAATGATATTCGCCAGGATTTTCTACCCTGGAAGTCACTTGCCAGCATAG
TCCAGTTTTATTACATGTGAAAACACAGACCGGTATATTCAGCAGAAAAGGTTGAAAGCTGCTGAAGC
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GGTTCAAACCTGGCATGAATGGGGCTGGATTTTCAAGAGGCCTGACTTGTGAGAGTTGCCACACCACAC
AGTCTGCTCAGTGGTATGCCTGGGGCCACCTAACATGCAGTGGCCCTCTGTGCTTCTGTTGGATCTA
CTGGAAGAAGTATGGGGACTGAAGACCCCAACTCAGCTTGAGGGGGCCACTCGGGGCACCACGGAGCCA
CACTCAAGGGGTCAATTTATCCAGACCTGAAGCTCAAAGTCTCTCTCCTTACACAACCAGCGCCAACAGGG
CCAAGTACTGGCTAAGAACAGACAAACTTTCTGCTTCAGACCACAAAGCTGACCCGTCTTGCCAGACG
CATGTGCAGGGACCTATTACAGCCAAGGAGGGCCGCCGACGGCCTTATGCTCCTATCAATGCCAATGCC
ATCAAAGCAGAGTGTCCATTGACTTCTAAGGCCGCCAAGACTCCATTGAAGATTACCCCTCTGGTGC
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TACCAAGACACCGATCAACAGAAACCAGCTGTCCAGAACCGGGGACTGGGGGCATTATGGTGAACGG
GCCTATGAGACTATGGCAGGGGCAGGGTTCTTTCTCTGCCAATGGAAGGCCTCTGGCTCAGGGATT
GTTCAAGCTCACAGCCAGCAGCCAAGCGTCAGAACTAAACCCAGCTGATGCCCCAATCCTGTGGTGT
TGTGGCCACAAAGGATACCAGGGCCCTACGGAAGGCTCTGACCCATCTGGAATGCGGCGAGCTGCTCGC
CGACCCAACTTGCCCTGAAGGTGAAGCCAACGCTGATTGCAGTGGGCCCCCTGTCCTCTACCTGCAC
CCTCACATCTGCCAGCACAATGAGCCTATTGTCTGGAGGACTGA
```

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004739 unedited  GGATTTGTATACGACNACTATAGGCGGCCGCGACTTCGGCATAGCGAACCCCTGAGGCGGG  CCCGGCAAGCCTTCCCTGCGGCCGCGAGCCCAACGACTAGTGGGACTCCGCGGGGGCG  GGGTAGCTGGAGCCTGGCTCTGGCCTGGCAGGAGCCGAGCTCGTTCCGGAAGAAGCCGA  GCGGACGGGGCCAGCCTCAGCGTCCCGGAGTGAGGCGATAGCTGCGGCGGCGACAGCG  CGGGCCGGGATGAACCGCGAGCGCTGATGACGCGAGGTGCCGGCTGCGCGGGCCCCAGT  GAGACTCCCTCGAAGCGGACGCCACCGTTCCGGGCTTTGCCTCGAGCCGAGCCCTGCC  CCGCGAGCCTCCCGGACCCCTTTGTGCGCCGGAGGCGGCGGCGGAACGCCATGGCGG  CCAACATGTACCGGTGGGAGATTACGTCTATTTTGAAGACTCTTCCAGCAATCCTTACC  TGGTTAGACGGATTGAGGAGCTCAACAAGACTGCAAAATGGAAATGTGGAGGCAAAGGTTG  TCTGTCTTTCCGGCGCATGGACATTTCTAGTAGCCTCAACAGCCTGGCTGATAGTAATG  CCAGGGAGTTTGAAGAGGAATCAAAGCAGCCAGAGGTGTCTGATCAGCAGCGCCATCAAC  TGAAGCACCGGAACTNTTTCTTCTCGGCATTTGAATCATTACCAGCCACCCACATACG  GGGAAATGCAGTGTGACCTCTTGATGAGACAGATATCTTGAGCCAGTACCTGGNAAAG  GGAGACTGCTNTTTACTCACTGGTGTGTTGACCCCGTGCAGAAAACACTTCTCGTGATC  AGGGGCGAGATANNAGTGGGTTGCAATACCCAGCTGAGATCCCAGATCGCCTAGTAGAGG  GAGATCTGATATTCGGACCCCATATATGAGATGATGTCTGGGACAGACACCTCTACAGA  CGGACAGCAGATTTNCTGTGGTGGCCGACTGTGGAACCTGCAGANCTNATGTT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004739 unedited  AGCACGTGGGGAAGGGGTACACAGGCATGCCACCCGGGATCTGTTCCAGGAAACAGCTAT  GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTAAAAAACGGACAA  AAGATCTTTATTTCTGAGAACTGGCGTACAAAAGCAGAGGGGGAGGGGAGGGAAGGAAA  GAGCGAGCGTGGCCTGGGGTTGATGCCAGCTTAGGGGCCTCAAATCCAATTAGGAAAGT  CCGGACACCGGACAGAAAGAGAAACCCCAATTAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA  AAGACATGGCAGTGCACGCCCCCTCCCAACCCAGGTACCACCACCTGTTATCTGTTTA  CTTTCCCTCCCATCCCTTTTCAAAAGGGAGGCAAACTTTTAAAAAATAAAAAAC  CCTCCCCCAAACTGTCCAAGACATCTGTGGTCTACCCCAAAACAGGCTAGGTTC  CCACATGGGCCAAGTTCCTGCAGTCTGTCTCCATCGCAAGCATGGAGGCATGAGACAA  GTCTCGAGGTGGTAAACACAGAGGGCGCCCAACCCCTCCAGGGACACACTCACTTGCT  CTTTCCCTTAATCACTCCTCACTCCCTTCGACACGAAAAGGGAAGGGAGGTTTTGGGTGC  CCTGGGCATCCACCCTCTACCTCTCAGCCACCTCCCTTCCCAAGGTGCTCAGTCCTC  CAGGACAATAGGCTCATTGGTGTGGCAGGATGTGAGGGTGCAGGTAAAGGGACAGGGGG  CCCGCCTGCAATCAGCGTTGGCTTCACCTTCGGGGCAAGTTGGTTCGCGAACCCCGC  CCCATTCCAATGGGTCAAACCCCTTCGTAGGGCCCCGGTACCTTTGGGA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004739
<b>Insert Size:</b>	3000 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).

**Reconstitution Method:**

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:** [NM\\_004739.2](#), [NP\\_004730.2](#)

**RefSeq Size:** 3060 bp

**RefSeq ORF:** 2007 bp

**Locus ID:** 9219

**UniProt ID:** [O94776](#)

**Cytogenetics:** 11q12.3

**Domains:** GATA, ELM2, myb\_DNA-binding, BAH

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** This gene encodes a protein that has been identified as a component of NuRD, a nucleosome remodeling deacetylase complex identified in the nucleus of human cells. It shows a very broad expression pattern and is strongly expressed in many tissues. It may represent one member of a small gene family that encode different but related proteins involved either directly or indirectly in transcriptional regulation. Their indirect effects on transcriptional regulation may include chromatin remodeling. It is closely related to another member of this family, a protein that has been correlated with the metastatic potential of certain carcinomas. These two proteins are so closely related 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. One of the proteins known to be a target protein for this gene product is p53. Deacetylation of p53 is correlated with a loss of growth inhibition in transformed cells supporting a connection between these gene family members and metastasis. [provided by RefSeq, May 2011]