OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC117199

MTA1 (NM_004689) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTA1 (NM_004689) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTA1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC117199 sequence for NM_004689 edited (data generated by NextGen Sequencing)

ATGGCCGCCAACATGTACAGGGTCGGAGACTACGTCTACTTTGAGAACTCCTCCAGCAAC
CCATACCTGATCCGGAGAATCGAGGAGCTCAACAAGACGGCCAATGGGAACGTGGAGGCC
AAAGTGGTGTGCTTCTACCGGAGGCGGGACATCTCCAGCACCCTCATCGCCCTGGCCGAC
AAGCACGCAACCCTGTCAGTCTGCTATAAGGCCGGACCGGGGGCGGACAACGGCGAGGAA
GGGGAAATAGAAGAGGAAATGGAGAATCCGGAAATGGTGGACCTGCCCGAGAAACTAAAG
CACCAGCTGCGGCATCGGGAGCTGTTCCTCTCCCGGCAGCTGGAGTCTCTGCCCGCCACG
CACATCAGGGGCAAGTGCAGCGTCACCCTGCTCAACGAGACCGAGTCGCTCAAGTCCTAC
CTGGAGCGGGAGGATTTCTTCTTCTATTCTCTAGTCTACGACCCACAGCAGAAGACCCTG
CTGGCAGATAAAGGAGAGATTCGAGTAGGAAACCGGTACCAGGCAGACATCACCGACTTG
TTAAAAGAAGGCGAGGAGGATGGCCGAGACCAGTCCAGGTTGGAGACCCAGGTGTGGGAG
GCGCACAACCCACTCACAGACAAGCAGATCGACCAGTTCCTGGTGGTGGCCCGCTCTGTG
GGCACCTTCGCACGGGCCCTGGACTGCAGCAGCTCCGTCCGACAGCCCAGCCTGCACATG
AGCGCCGCAGCTGCCTCCCGAGACATCACCCTGTTCCACGCCATGGATACTCTCCACAAG
AACATCTACGACATCTCCAAGGCCATCTCGGCGCTGGTGCCGCAGGGCGGGCCCGTGCTC
TGCAGGGACGAGATGGAGGAGTGGTCTGCATCAGAGGCCAACCTTTTCGAGGAAGCCCTG
GAAAAATATGGGAAGGATTTCACGGACATTCAGCAAGATTTTCTCCCGTGGAAGTCGCTG
ACCAGCATCATTGAGTACTACTACATGTGGAAGACCACCGACAGATACGTGCAGCAGAAA
CGCTTGAAAGCAGCTGAAGCTGAGAGCAAGTTAAAGCAAGTTTATATTCCCAACTATAAC
AAGCCAAATCCGAACCAAATCAGCGTCAACAACATCAAGGCCGGTGTGGTGAACGGCACG
GGGGCGCCGGGCCAGAGCCCTGGGGCTGGCCGGGCCTGCGAGAGCTGTTACACCACACAG
TCTTACCAGTGGTATTCTTGGGGTCCCCCTAACATGCAGTGTCGTCTCTGCGCATCTTGT
TGGACATATTGGAAGAAATATGGTGGCTTGAAAATGCCAACCCGGTTAGATGGAGAGAGG
CCAGGACCAAACCGCAGTAACATGAGTCCCCACGGCCTCCCAGCCCGGAGCAGCGGGAGC
CCCAAGTTTGCCATGAAGACCAGGCAGGCTTTCTATCTGCACACGACGAAGCTGACGCGG
ATCGCCCGGCGCCTGTGCCGTGAGATCCTGCGCCCGTGGCACGCTGCGCGGCACCCCTAC
CTGCCCATCAACAGCGCGGCCATCAAGGCCGAGTGCACGGCGCGGCTGCCCGAAGCCTCC
CAGAGCCCGCTGGTGCTGAAGCAGGCGGTACGCAAGCCGCTGGAAGCCGTGCTTCGGTAT
CTTGAGACCCACCCCCGCCCCCCCAAGCCTGACCCCGTGAAAAGCGTGTCCAGCGTGCTC
AGCAGCCTGACGCCCGCCAAGGTGGCCCCCGTCATCAACAACGGCTCCCCCACCATCCTG
GGCAAGCGCAGCTACGAGCAGCACAACGGGGTGGACGGCAACATGAAGAAGCGCCTCTTG
ATGCCCAGTAGGGGTCTGGCAAACCACGGACAGACCAGGCACATGGGACCAAGCCGGAAC
CTCCTGCTCAACGGGAAGTCCTACCCCACCAAAGTGCGCCTGATCCGGGGGGGCTCCCTG
CCCCCAGTCAAGCGGCGGCGGATGAACTGGATCGACGCCCCGGATGACGTGTTCTACATG
GCCACAGAGGAGACCAGGAAGATCCGCAAGCTGCTCTCATCCTCGGAAACCAAGCGTGCT
GCCCGCCGGCCCTACAAGCCCATCGCCCTGCGCCAGAGCCAGGCCCTGCCGCCGCGGCCA
CCGCCACCTGCGCCCGTCAACGACGAGCCCATCGTCATCGAGGACTAG

Clone variation with respect to NM_004689.3
1114 g=>a;1834 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004689 unedited
AGAGTCGCAATTTGTATACCACTCACTATAGGCGGCCGCGNAATTCGCACGAGGCGGCCC
TCCCGTCCCTGCGCGGCCTCGGCGGCCTCGGCGGCGGCGGCGGCGGCGGCGGCAGCA
GCGCGGCCCCTTTAAACGCCTGCGGCGCCCCCCGCCCCCGCCATCGCGCCTCCATTTTCC
CGGCCGCCCGCGCCGAGCGCCGCGCCCGCCCCGGGCCCCTCCGCCGCCGCCGGCCCGGAC
ATGGCCGCCAACATGTACAGGGTCGGAGACTACGTCTACTTTGAGAACTCCTCCAGCAAC
CCATACCTGATCCGGAGAATCGAGGAGCTCAACAAGACGGCCAATGGGAACGTGGAGGCC
AAAGTGGTGTGCTTCTACCGGAGGCGGGACATCTCCAGCACCCTCATCGCCCTGGCCGAC
AAGCACGCAACCCTGTCAGTCTGCTATAAGGCCGGACCGGGGGCGGACAACGGCGAGGAA
GGGGAAATAGAAGAGGAAATGGAGAATCCGGAAATGGTGGACCTGCCCGAGAAACTAAAG
CACCAGCTGCGGCATCGGGAGCTGTTCCTCTCCCGGCAGCTGGAGTCTCTGCCCGCCACG
CACATCAGGGGCAAGTGCAGCGTCACCCTGCTCAACGAGACCGAGTCGCTCAAGTCCTAC
CTGGAGCGGGAGGATTTCTTCTTCTATTCTCTAGTCTACGACCCACAGCAGAAGACCCTG
CTGGCAGATAAAGGAGAGATTCGAGTAGGAAACCGGTACCAGGCAGACATCACCGACTTG
TTAAAAGAAGGCGAGGAGGATGGCCGAGACCAGTCCAGGTTGGAGACCCAGGTGTGGGAG
GCGCACAACCCACTCACANGACAGCAGATCGACCAGTTCCTGGGTGGTGGCCCGCTCTGT
GGGCACCTTCGCACGGGCCCTGGACTGCAGCAGCTCCGTCCGACAGCCCAGCCTGCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004689 unedited
ACCGCGGCCGCATCTACATCGGTTTTTTTTTTTTTTTTTTGTTAATATGAAAATTACTTG
AAAAGACAAGGGCCAACCCCGCCAGGCAGCTCGGCCGGCCGCGGCCGCACGATCCTAACA
TTCCAGGTGTAAGTTACAGAGCTCAAGTTCATCTACAAAAAAAGTAATAAAAATAAAATT
TAAAATGGCACCTTCAACAGAACACAACAAAACCTTAGGGCCCGGCCTCCGGGCAAAAGG
CCCCGCAGCACAGGGGCACGGGGTGGCCCCTCATCTCCGCTCCAGCCAAAAAGTAAACAC
AAAGCTAAAAACGACAACTCCTCGGCATTCTCGGAATAAGTTAGCCGCGCTTCTTCCTCT
CCTCCCCCAGTGTCCGCCAAGGAGCGCGTTTCTCTGCAGGTGAGGGCGGCACGTGGGCGC
ACTACCAAACTGAGGGGCGGGCGGCGGGCTGGCTGGGAAGGGGCCCCGCGGGCGGGCCAG
GGGCGGGGGGCGGACGCAAGTGGGGGCGGACCCTAGTCCTCCATGACGATGCGCTCGTCC
CTGACGGCCGCATGTGGCGGCGGCCGCGGCGGCACGGTCTTGCTCTGGCCACCGCCATGG
GCTTGTCCGGCCGCCGGCAACTACGCTTTGCTCCCGAGACGACAGCACCTTGCGGATCTT
TCTTGGCCTCCCCCTGGGCCCTGACAACCAGCCACCCGGCCCGTTGATCATTTCACCGCC
TCCGTTTGACTGGCGCATGGACCCTCCTCGATCAAGCCAATTCGGCGGGTACGACTTCCC
GCTTACACGCAGTCACGGCTTGCCCCATGGCCCGCCCGCCCGCGTTTTCCCCCCCCCTAT
GGGTTTTACCAGCCCCTCTTTATGGTTCCCCCTCACCCGCCTTGCTCGCCCCACTCCCCT
TGCCAAAAGCGTGGCAAACCGTCCT

Restriction Sites: NotI-NotI

ACCN: NM_004689

Insert Size: 2320 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).

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:	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_004689.2, NP_004680.1
RefSeq Size:	2662 bp
RefSeq ORF:	2148 bp
Locus ID:	9112
UniProt ID:	Q13330
Cytogenetics:	14q32.33
Domains:	GATA, ELM2, myb_DNA-binding, BAH
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (MTA1).