

## Product datasheet for **RG234072**

### MTA1 (NM\_001203258) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: MTA1 (NM\_001203258) Human Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: MTA1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >RG234072 representing NM\_001203258  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGCCAACATGTACAGGGTCGGAGACTACGTCTACTTTGAGAACTCCTCCAGCAACCCATACCTGA  
 TCCGGAGAATCGAGGAGCTCAACAAGACGGCCAATGGGAACGTGGAGGCCAAAGTGGTGTCTTCTACCG  
 GAGGCGGGACATCTCCAGCACCCATCGCCCTGGCCGACAAGCAGCAACCCCTGTCAGTCTGCTATAAG  
 GCCGGACCGGGGGCGGACAACGGCGAGGAAGGGGAAATAGAAGAGGAAATGGAGAATCCGAAATGGTGG  
 ACCTGCCCGAGAAACTAAAGCACCAGCTCGGGCATCGGGAGCTGTCTCTCCCGCAGCTGGAGTCTCT  
 GCCCGCCACGCACATCAGGGGCAAGTGCAGCGTCACCCTGTCAACGAGACCGAGTCGCTCAAGTCTTAC  
 CTGGAGCGGGAGGATTTCTTCTTCTATTCTCTAGTCTACGACCCACAGCAGAAGACCCTGCTGGCAGATA  
 AAGGAGAGATTCGAGTAGGAAACCGGTACCAGGCAGACATCACCGACTTGTAAAAGAAGGCGAGGAGGA  
 TGGCCGAGACCAGTCCAGGTTGGAGACCCAGGTGTGGGAGGCGCACAAACCACTCACAGACAAGCAGATC  
 GACCAGTTCCTGGTGGTGGCCCGCTCTGTGGGCACCTTCGCACGGGCCCTGGACTGCAGCAGCTCCGTCC  
 GACAGCCAGCCTGCACATGAGCGCCGAGCTGCCTCCCGAGACATCACCTGTTCCACGCCATGGATAC  
 TCTCCACAAGAACATCTACGACATCTCCAAGCCATCTCGGCGTGGTGGCCGAGGGCGGGCCCGTGTCT  
 TGCAGGGACGAGATGGAGGAGTGGTCTGCATCAGAGGCCAACCTTTTCGAGGAAGCCCTGGAAAAATATG  
 GGAAGGATTTACGGACATTCAGCAAGATTTCTCCCGTGGAAAGTCGCTGACCAGCATATTGAGTACTA  
 CTACATGTGGAAGACCACCGACAGATACGTGCAGCAGAAACGCTTGAAGCAGCTGAAGCTGAGAGCAAG  
 TTAAGCAAGTTTATATCCCAACTATAACAAGCCAAATCCGAACCAAATCAGCGTCAACAACGTCAAGG  
 CCGGTGTGGTGAACGGCACGGGGGCGCCGGGCCAGAGCCCTGGGGCTGGCCGGGCTGCGAGAGCTGTTA  
 CATGTCGTCTCTGCGCATCTTGTGGACATATTGGAAGAAATATGGTGGCTTGAAATGCCAACCCGGTT  
 AGATGGAGAGAGGCCAGGACCAAACCGCAG

AC**CGCT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG234072 representing NM\_001203258  
Red=Cloning site Green=Tags(s)

MAANMYRVGDYVYFENSSSNPYLIRRIEELNKTANGNVEAKVVCFYRRRDISSTLIALADKHATLSVCYK  
 AGPGADNGEEGEIEEEMENPEMVDLPELKHQLRHRELFLSRQLESLPATHIRGKCSVTLLNETESLKS  
 LEREDFFFYSLVYDPQQKTLADKGEIRVGNRYQADITDLLKEGEEDGRDQSRLETQVWEAHNPLTDKQI  
 DQFLVVARSVGTFARALDCSSSVRQPSLHMSAAAASRDITLFHAMDTLHKNIYDISKAISALVPQGGPVL  
 CRDEMEEWSASEANLFEEALEKYGKDFTDIQDFLPWKSLTSEIEYYMVKTTDRYVQKRLKAAEAEK  
 LKQVYIPNYPNPNQISVNNVKAGVVNGTGAPGQSPGAGRACESCYMSSLRILLDILEEWWLENANPV  
 RWREARTKPQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001203258

**ORF Size:** 1290 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001203258.1](#), [NP\\_001190187.1](#)

**RefSeq Size:** 2809 bp

**RefSeq ORF:** 1293 bp

**Locus ID:** 9112

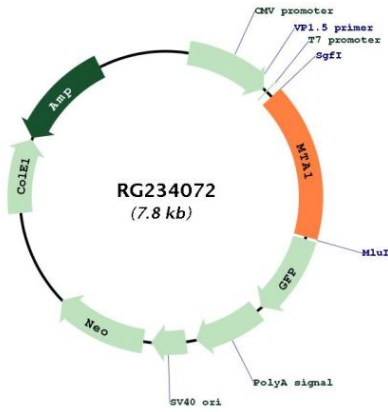
**UniProt ID:** [Q13330](#)

**Cytogenetics:** 14q32.33

**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]

Product images:



Circular map for RG234072