

## Product datasheet for **RG208756**

### MTA2 (NM\_004739) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTA2 (NM_004739) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTA2
Synonyms:	MTA1L1; PID
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG208756 representing NM\_004739  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGCCAACATGTACCGGGTGGGAGATTACGTCTATTTTGAGAACTTCCAGCAATCCTTACCTGG  
TTAGACGGATTGAGGAGCTCAACAAGACTGCAAAATGGAAATGTGGAGGCAAGGTTGTCTGCTTTTCCG  
GCGCAGGGACATTTCTAGTAGCCTCAACAGCCTGGCTGATAGTAATGCCAGGGAGTTGAAGAGGAATCA  
AAGCAGCCAGGGGTGTCTGAGCAGCAGCCATCAACTGAAGCACCAGGAACTTTTTCTTCTCGGCAAT  
TTGAATCATTACCAGCCACCCACATACGGGGAAATGCAGTGTGACCCTTTGAATGAGACAGATATCTT  
GAGCCAGTACCTGAAAAGGAGGACTGCTTTTTTACTCACTGGTGTGGACCCGTCAGAAAGACTT  
CTCGCTGATCAGGGCAGATTAGAGTTGGTTGCAAAATACCAAGCTGAGATCCCAGATCGCCTAGTAGAGG  
GAGAATCTGATAATCGGAACCAGCAGAAGATGGAGATGAAGGTCTGGGACCCAGACAACCCCTCTCACAGA  
CCGGCAGATCGACCAGTTTCTTGTGGTGGCCCGAGCTGTGGGAACCTTTGCAAGAGCCCTAGATTGTAGC  
AGCTCCATTTCGGCAGCCAAGCTTGCACATGAGTGCAGCTGCTGCCTCCCGAGATATCACTCTGTTTCAGG  
CCATGGATACCTTGCAAAGGAACGGCTACGACCTGGCTAAGGCCATGTCGACCCTGGTACCCAGGGAGG  
CCCGGTGCTGTGTGGGATGAGATGGAGGAATGGTCAAGCTCAGAGGCCATGCTATTTGAGGAGGCCCTA  
GAGAAGTATGGGAAGGACTTCAATGATATTCGCCAGGATTTTCTACCCTGGAAGTCACTTCCAGCATAG  
TCCAGTTTTATTACATGTGAAAACACAGACCCGATATTTACAGCAGAAAAGGTTGAAAGCTGTGAAGC  
AGACAGCAAACGAAACAGGTCTACATTCACCTACACTAAGCCAAACCTAACAGATCATTTCTGTG  
GGTTCAAACCTGGCATGAATGGGGCTGGATTTGAGAAGGGCCTGACTTGTGAGAGTTGCCACACCACAC  
AGTCTGCTCAGTGGTATGCCTGGGGCCACCTAACATGCAGTGGCCCTCTGTGCTTCTGTTGGATCTA  
CTGGAAGAAGTATGGGGACTGAAGACCCCAACTCAGCTTGAGGGGGCCACTCGGGGCACCAGGAGCCA  
CACTCAAGGGGTCAATTTATCCAGACCTGAAGCTCAAAGTCTCTCTCCTTACACAACCAGGCCAACAGGG  
CCAAGCTACTGGCTAAGAACAGACAAACTTCTGCTTCCAGACCACAAAGCTGACCCGCTTGTCCAGACG  
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ATCAAAGCAGAGTGTCCATTGACTTCTAAGGCCGCCAAGACTCCATTGAAGATTACCCTCTGGTGC  
GGCTGCCCTGGCAACTATCGTCAAAGATCTGGTGGCCAGGCACCCCTGAAACCAAAAACACCTCGGGG  
TACCAAGACCCGATCAACAGAAACCAGCTGTCCAGAACCGGGGACTGGGGGCATTATGGTGAACGG  
GCCTATGAGACTATGGCAGGGGCAGGGTTCCTTTCTCTGCCAATGGAAGGCCTCTGGCTTCAGGGATTC  
GTTCAAGCTCACAGCCAGCAGCCAAGCGTCAGAAACTAAACCCAGCTGATGCCCCCAATCCTGTGGTGT  
TGTGGCCACAAAGGATACCAGGGCCCTACGGAAGGCTCTGACCCATCTGGAAATGCGGCGAGCTGCTCGC  
CGACCCAACTTGGCCCTGAAGGTGAAGCCAACGCTGATTGCAGTGGGGCCCTGTCCCTACCTGCAC  
CCTCACATCCTGCCAGCACCAATGAGCCTATTGTCCTGGAGGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG208756 representing NM\_004739  
Red=Cloning site Green=Tags(s)

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MAANMYRVGDYVYFENSSSNPYLVRRIEELNKTANGNVEAKVVCLFRRRDISSSLNSLADSNAREFEEES
KQPGVSEQQRHQLKHRELFSLRQFESLPATHIRGKCSVTLLNETDILSQYLEKEDCFFYSLVFDPVQKTL
LADQGEIRVGCKYQAEIPDRLVEGESDNRNQKMEMKVWDPDNPLTDRQIDQFLVVARAVGTFARALDCS
SSIRQPSLHMSAAAAARDITLFFHAMDTLQRNGYDLAKAMSTLVPQGGPVLCRDEMEEWSASEAMLFEAL
EKYGKDFNDIRQDFLPWKSLSASIVQFYMWKTTDRYIQQKRLKAAEADSKLKQVYIPTYTKPNPNIISV
GSKPGMNGAGFQKGLTCECHTTQSAQWYAWGPPNMQCRLCASCWYWKYGGGLKPTQLLEGATRGTTPE
HSRGHLRPEAQSLSPYTTSANRAKLLAKNRQTFLLQTTKLTARRMCRDLLQPRRAARRPYAPINANA
IKAECISIRLPKAAKTPLKIHPLVRLPLATIVKDLVAQAPLKPKTPRGTKTPINRNQLSQNRGLGGIMVKR
AYETMAGAVPFSANGRPLASGIRSSSQPAKRQKLNAPADPNPVFVATKDTRALRKALTHLEMRAAR
RPNLPLKVKPTLIAVRPPVPLPAPSHPASTNEPIVLED
    
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004739

**ORF Size:** 2004 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\\_004739.4](#)

**RefSeq Size:** 3060 bp

**RefSeq ORF:** 2007 bp

**Locus ID:** 9219

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

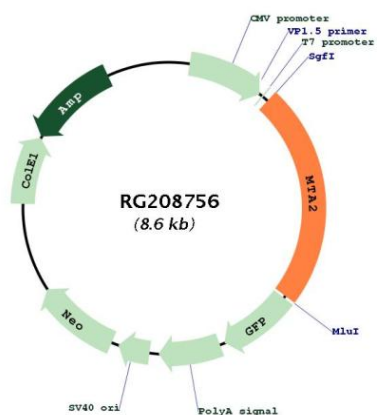
**Cytogenetics:** 11q12.3

**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]

Product images:



Circular map for RG208756