

Product datasheet for RC234072

MTA1 (NM_001203258) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTA1 (NM_001203258) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC234072 representing NM_001203258 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCCAACATGTACAGGGTCGGAGACTACGTCTACTTTGAGAACTCCTCCAGCAACCCATACCTGA
TCCGGAGAATCGAGGAGCTCAACAAGACGGCCAATGGGAACGTGGAGGCCAAAGTGGTGTCTTCTACCG
GAGGCGGGACATCTCCAGCACCTCATCGCCCTGGCCGACAAGCAGCAACCCCTGTCAGTCTGCTATAAG
GCCGGACCGGGGGCGGACAACGGCGAGGAAGGGGAAATAGAAGAGGAAATGGAGAATCCGGAAATGGTG
ACCTGCCCGAGAAACTAAAGCACCAGCTCGGGCATCGGGAGCTGTCTCTCCCGCAGCTGGAGTCTCT
GCCCGCACGCACATCAGGGGCAAGTGCAGCGTCAACCCTGCTCAACGAGACCGAGTCTCAAGTCTCTAC
CTGGAGCGGGAGGATTTCTTCTTCTATTCTCTAGTCTACGACCCACAGCAGAAGACCCTGCTGGCAGATA
AAGGAGAGATTCGAGTAGGAAACCGGTACCAGGCAGACATCACCGACTTGTAAAAGAAGGCGAGGAGGA
TGGCCGAGACCAGTCCAGGTTGGAGACCCAGGTGTGGGAGGCGCACAAACCACTCACAGACAAGCAGATC
GACCAGTTCCTGGTGGTGGCCCGCTCTGTGGGCACCTTCGCACGGGCCCTGGACTGCAGCAGCTCCGTCC
GACAGCCAGCCTGCACATGAGCGCCGAGCTGCCTCCCGAGACATCACCTGTTCCACGCCATGGATAC
TCTCCACAAGAACATCTACGACATCTCCAAGCCATCTCGGCGTGGTGGCCGAGGGCGGGCCCGTGTCTC
TGCAGGGACGAGATGGAGGAGTGGTCTGCATCAGAGGCCAACCTTTTCGAGGAAGCCCTGGAAAAATATG
GGAAGGATTTACGGACATTCAGCAAGATTTCTCCCGTGAAGTCGCTGACCAGCATCATTGAGTACTA
CTACATGTGGAAGACCACCGACAGATACGTGCAGCAGAAACGCTTGAAGCAGCTGAAGCTGAGAGCAAG
TAAAGCAAGTTTATATCCCAACTATAACAAGCCAAATCCGAACCAATCAGCGTCAACAACGTCAAGG
CCGGTGTGGTGAACGGCACGGGGCGCCGGGCCAGAGCCCTGGGGCTGGCCGGCCCTGCGAGAGCTGTTA
CATGTCGTCTCTGCGCATCTTGTGGACATATTGGAAGAAATATGGTGGCTTGAAATGCCAACCCGGTT
AGATGGAGAGAGGCCAGGACCAACCCGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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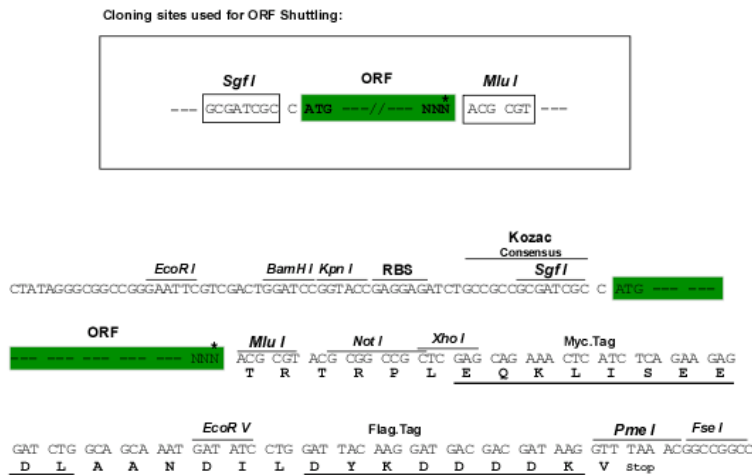
Protein Sequence: >RC234072 representing NM_001203258
Red=Cloning site Green=Tags(s)

MAANMYRVGDYVYFENSSSNPYLIRRIEELNKTANGNVEAKVVCFYRRRDISSTLIALADKHATLSVCYK
 AGPGADNGEEGIEEEMENPEMVDLPELKHQLRHRELF.SRQLESLPATHIRGKCSVTLNETESLKS
 LEREDFFFYSLVYDPQQKTLADKGEIRVGNRYQADITDLLKEGEEDGRDQSRLETQVWEAHNPLTDKQI
 DQFLVVARSVGTFARALDCSSSVRQPSLHMSAAAASRDITLFHAMDTLHKNIYDISKAISALVPQGGPVL
 CRDEMEEWSASEANLFEEALEKYGKDFTDIQDFLPWKSLT.SIIIEYYMVKTTDRYVQKRLKAAEAE
 SKLQVYIPNYPNPNQISVNNVKAGVVNGTGAPGQSPGAGRACESCYMSSLRILLDILEE.IWWLENANPV
 RWREARTKPQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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](#)

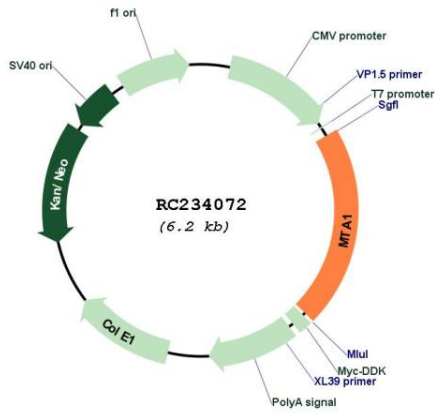
Cytogenetics: 14q32.33

Protein Families: Druggable Genome, Transcription Factors

MW: 49.5 kDa

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 RC234072