

Product datasheet for **MR223306**

Mta3 (NM_001171053) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mta3 (NM_001171053) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mta3
Synonyms:	1110002J22Rik; mKIAA1266
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR223306 representing NM_001171053
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGCCAACATGTACCGGGTCGGAGACTACGTTTATTTGAGAATTCCTCCAGCAACCCGTACCTCA
 TCAGACGGATAGAGGAGCTCAACAAGACTGCAAGTGGCAATGTGGAAGCAAAAGTCGTCTGCTTTTACAG
 AAGACGGGACATCTCAACACGCTTATCATGCTCGCCGACAAGCATGCTAAAGAACTGAGGAGGAGTCG
 GAGACGCCAGTTGAGGCCGACTTGACGGAGAAGCAGAAGCACCAGCTGAAACACAGGGAGCTCTTTCTGT
 CGCGCCAGTACGAGTCACTGCCTGCGACACATACAGGGGGAAGTGCAGCGTGGCCCTGTGAATGAGAC
 AGAATCCGTGTTGTCATACCTTGACAAGGAGGATACCTTCTTCTACTCACTGGTATACGACCCTTCAGTG
 AAAACATTATTGGCTGACAAAGGTGAAATCAGAGTGGGCCAAAGTACCAAGCTGACATTCCAGACATGC
 TACCAGAAGGAGACTCAGATGAGAGGGAACAATCAAAATTGGAAGTTAAGTTTGGGACCCCAATAGCCC
 ACTTACGGATCGACAGATTGACCAGTTTTAGTTGTAGCCCGTGGCGTGGGAACATTTGCCCGAGCCCTG
 GACTGCAGCAGCTCCGTGAGGCAACCCAGCCTTACATGAGTGCAGCCGAGCCTCCCGAGACATCACT
 TGTTTCATGCCATGGACACACTGTACAGGCACGGCTATGACCTCAGCAGCGCCATCAGTGTGCTGGTGCC
 GCTCGGAGGGCCAGTCTCTGCAGGGACGAGATGGAGGAGTGGTGGCCCTCTGAAGCCTGCCTATTCCGAA
 GAAGCACTGGAAAAATACGGCAAAGATTTCAACGACATTCGTGAGGACTTTCTCCCGTGGAAATCCTTGA
 CTAGCATCATTGAATATTATTACATGTGGAAAACACTGACAGATACGTGCAGCAGAAGCGCCTAAAGGC
 CGCAGAAGCCGAGAGCAAACGAAAGTGTACATCCCGACTTACAACCAAAATCCAACCAAAATCTCC
 AGCAGCAACGGCAAGGCTGGCACTGTGAATGGAGCTGTGGGACCCAGTTTCAGCCCCGAGAGCCCTCC
 TAGGGCGAGCCTGCGAGAGCTGCTACGCCACACAGTCTCATCAGTGGTATTCTGGGGCCACCTAACAT
 GCAGTGTAGACTCTGCGCGACCTGTTGGCTGTATTGGAAAAAGTATGGAGGTCTGAAAAATGCCTACCCAG
 TCAGACGAAGAGAAGTCTCCAGCCGACTGCAGAGGACCCGCGCAAGAGCCACATGTCGCGCAGG
 CCTTGCAGGGCATGCCGGTCCGGAACACCGGAAGCCCAAGTCTGCAGTGAAGACCCGCCAAGCTTCTT
 CCTTCGTAACGTATTTCAAAAAATTGCTCGTCAAGTCTGCAAAAGCACCCCTGCGGCTGCGGCAGGCA
 GCGAGACGGCCGTTTGTGCTATTAATTATGCTGCCATTAGGGCAGAATGTAAGACGCTTTTCAATTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223306 representing NM_001171053
 Red=Cloning site Green=Tags(s)

MAANMYRVGDYVYFENSSSNPYL IRRIEELNKTASGNVEAKVVCFYRRRDISNTL IMLADKHAKETEEES
 ETPVEADLTEKQKHQLKHRELFLSRQYESLPATHIRGKCSVALLNETESVL SYLDKEDTFFYSLVYDPSV
 KTL LADKGEIRVGPKYQADIPDMLPEGDSDEREQSKLEVKVDPN SPL TDRQIDQFLVVARAVGTFARAL
 DCSSSVRQPSLHMSAAAA SRDITLFHAMDTLYRHGYDLSSAISVLVPLGGPVLCRDEMEEWSASEACLF E
 EALEKYGKDFNDIRQDFLPWKSLSIIEYYYYMWTDRYVQKRLKAAEAESKLKQVYIPTYKPNPNQIS
 SSNGKAGTVNGAVGTQFQPQSALLGRACE SCYATQSHQWYSWGPPNMQCRLCATCWLYWKYGGGLKMP TQ
 SDEEKSPSPTAEDPRARSHMSRQALQGM PVRNTGSPKSAVKTRQAFFLRTTYFTKIARQVCKSTLRLRQA
 ARRPFVAINYAAIRAECKTLFNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

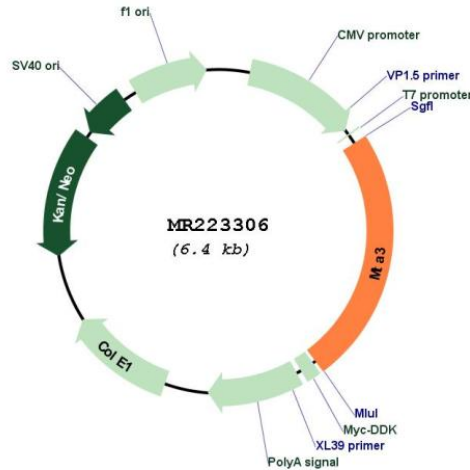
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001171053

ORF Size: 1539 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_001171053.1](#), [NP_001164524.1](#)

RefSeq Size: 1740 bp

RefSeq ORF: 1545 bp

Locus ID: 116871

Cytogenetics: 17 E4

MW: 58.9 kDa

Gene Summary: Plays a role in maintenance of the normal epithelial architecture through the repression of SNAI1 transcription in a histone deacetylase-dependent manner, and thus the regulation of E-cadherin levels. Contributes to transcriptional repression by BCL6 (By similarity).
[UniProtKB/Swiss-Prot Function]