

Product datasheet for **RR207114**

Mta2 (NM_001100740) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mta2 (NM_001100740) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mta2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207114 representing NM_001100740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTAACATGTACCGGTAGGAGATTATGTCTATTTTGAAGACTCTCCAGCAATCCTTACCTGG
 TTAGACGATTGAGGAGCTCAATAAGACTGCAAACGGAAATGTGGAAGCAAAGTTGTCTGCCTTTCCG
 GCGAAGGGATATTTCTAGTAGCCTCAACAGCTTGGCGGACAGCAATGCTAGGGAGTTTGGAGGGAATCA
 AAACAGCCAGGGTCTCGGAGCAGCAGAGACATCAACTGAAGCACCGAGAGCTTTTTCTTCTCGGCAGT
 TTGAATCATTACCGGCCACCCACATAAGGGGGAAGTGCAGTGTGACTCTTTGAACGAGACGGATATCTT
 AAACCAATATCTGAAAAGGAGGACTGCTTTTTTACTCACTGGTGTTCGACCCTGTGCAGAAGACACTT
 CTGGCTGATCAAGGGGAGATCAGAGTTGGTTGCAAATCCAAGCTGAGATCCCAGATCGTTTGGCAGAGG
 GAGAATCGGATAATCGAAACCAACAGAAGATGGAGATGAAAGTCTGGGACCCAGACAACCTCTCACAGA
 CCGGCAGATCGATCAGTTTCTCGTGGTGGCCCGAGCCGTGGGAACCTTTGCCAGAGCCCTAGACTGCAGC
 AGCTCAATCCGGCAGCCAAGCTTGCACATGAGTGCAGCTGCTGCGTCCCGAGATATCACCTGTTCCATG
 CCATGGACACGTTGCAAAGGAATGGCTATGACTTGGCCAAGGCCATGTCAACCCTGGTGCACAGGGAGG
 TCCAGTGTCTGTGGGATGAGATGGAGGAATGGTCTGCTTCTGAAGCTATGCTGTTTGAAGAAGCTCTG
 GAGAAGTATGGGAAGGATTTCAATGACATCCGCCAGGACTTTCTACCCTGGAAGTCACTTGAAGCATAG
 TCCAGTTTTATTACATGTGAAAACACAGATCCGTATATTCAGCAGAAAAGACTGAAAGCTGTGAAGC
 AGACAGCAAATAAACAGGTCTACATCCCACCTATACTAAGCCAAACCTAACCAGATCATTTCTGTG
 GGTTCAAACCTGGCATGAATGGGGCTGGATCCAGAAAGGCCTGACTTGTGAGAGCTGCCACACCACAC
 AGTCTGCCAGTGGTATGCTTGGGGCCACCTAACATGCAGTGCCGACTTGTGCTTCTGTTGGATTTA
 CTGGAAGAAGTATGGGGGCTGAAGACACCGACCCAGCTTGAAGGGGCTGCTCGGGGCACCACAGGCCA
 CACTCAAGAGGTCAATTTATCCAGACCTGAAGCCAAAGTCTCTCCCCTATAACAACAGTCTAACCGGG
 CTAAGTTGCTGGCTAAGAACAGGCAAATTTCTTGTCCAGACCACAAAGCTGACTCGTCTTGTAGACG
 GATGTGCAGAGACCTGTTACAGCCAAGGAGGGCTGCCGAAGACCCTATGCCCCATCAATGCCAACGCC
 ATCAAGGCAGAGTGTCTATCCGACTTCTAAGGCTGCCAAGACACCGTTGAAGATTCACCCCTGGCGA
 GACTGCCCTTGGCAGCTATTGTCAAAGATCTGGTGGCTCAGGCACCTCTGAAACCAAAAACCTCGGGG
 CACCAAGACCAATCAACAGAAACCAGCTGACCCAGAATCGAGGCTGGGGGCATTATGGTGAACGT
 TCCTATGAGACTATGGCAGGGGCAGGGTTCCTTCTCTGCCAATGGAAGCCTCTGGCTTCAGGGATTC
 GTTCAAGCTCACAGCCAGCAGCCAAGCGTCAGAACTAAACCCTGCTGATGCTCCAATCCAGTGGTATT
 TGTGGCCACAAAGGATACCAGGGCTTAAAGGAAAGCTCTAACTACCTGGAAATGCGCCGAGCTGCTCGA
 AGGCCCAACTTACCCCTGAAGGTGAAGACAGCGCTGATGACAGTGGGCCCCAGTTCCTCTGCCGGCAT
 CTTACATCCTGTAGCACCAATGAGCCATTGTCCTGGAGGAT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207114 representing NM_001100740
 Red=Cloning site Green=Tags(s)

MAANMYRVGDYVYFENSSSNPYLVRRIEELNKTANGNVEAKVVCLFRRRDISSSLNSLADSNAREFEEES
 KQPGVSEQQRHQLKHRELFLSRQFESLPATHIRGKCSVTLLNETDILNQYLEKEDCFFYSLVFDPVQKTL
 LADQGEIRVGCKFQAEIPDRLAEGESDNRNQKMEMKVWDPDNPLTDRQIDQFLVVARAVGTFARALDCS
 SSIRQPSLHMSAAAAARDITLFHAMDTLQRNGYDLAKAMSTLVPQGGPVLCRDEMEEWSASEAMLFEAL
 EKYGKDFNDIRQDFLPWKSASIVQFYMWKTTDRYIQQKRLKAAEADSKLKQVYIPTYTKPNPNIISV
 GSKPGMNGAGFQKGLTCECHTTQSAQWYAWGPPNMQCRLCASCWYWKYGGGLKPTQLLEGAARGTTEP
 HSRGHLRPEAQSLSPYTTSANRAKLLAKNRQTFLLQTTKLTARRMCRDLLQPRRAARRPYAPINANA
 IKAECISIRLPKAAKTPLKIHPLARLPLAAIVKDLVAQAPLKPKTPRGTKPINRNQLTQNRGLGGIMVKR
 SYETMAGAVPFSANGRPLASGIRSSSQPAKRQKLNAPADPNPVFVATKDTRALRKALTHLEMRRAAR
 RPNLPLKVKTALMTVRPPVPLPASSHPASTNEPIVLED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001100740

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_001100740.1](#), [NP_001094210.1](#)

RefSeq Size: 3013 bp

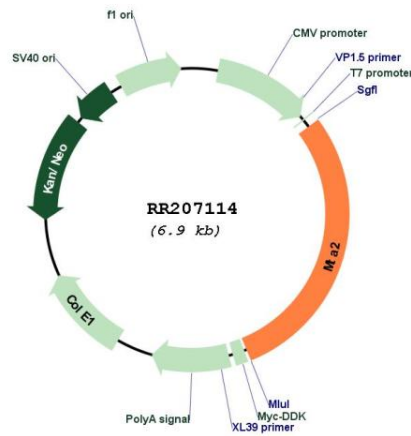
RefSeq ORF: 2007 bp

Locus ID: 361724

Cytogenetics: 1q43

MW: 75 kDa

Product images:



Circular map for RR207114