

Product datasheet for **RN206318**

Mtrr (NM_001039003) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtrr (NM_001039003) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mtrr
Synonyms:	MSR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN206318 representing NM_001039003
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAGGTTTTTGTACTGTATGCTACACAGCGAGGGCAGGCAAAGGCCATAGCTGAAGAAATAAGT
AGCAGGCTCTGTACACGGGTTTTCCGCAGATCTCACTGCGTCAGTGAGTCAGAAAAGAGCTCTCTAAG
TATTCCTGCTGTGCCCAAGATATTTGGAGGTCTATCTTCAGGAGTCTCTTGGCCAGGATGAAAACCAA
GCATCTGTGCCACCATCAGTCGATCCAATTTTCAAGTCCAATTTCAAAGCTGTTGAGCTGACTACAA
ACGATGCCATAAAGACCACTCTGCTGTTGGAATTGGACATCTCAAAGTAGAGTTTTCCCATCAACCTGG
AGATTCCTTCAATGTGATCTGTCCAAACAGTGGTCTGAAGTAGAAGACTTGCTGCAAAGGCTGCAGCTG
GCTGACAAACAAGCACACCGGGTCATCCTGAAAATTAAGATGGACACCAAGAAGAAAGGAGCTTCTCTGC
CCCAGCATGTGCCTGAGGGGAGTCTCTCCAGTTCATCTTACCTGGTGTCTTGAATACGAGCAGTTCC
TAAAAAGGCTTTTTGAGGGCCCTTTCGATTACACCAGCGATGCCACTGAAAAGCGGAGGCTTCAGGAG
CTCTGCAGTAAGCAGGGAGCAGCTGATTACAACCGCTTCATCCGAGATGCCAGTGTCTGCCTGCTAGACC
TCCTGCTTACCTTCCCATCCTGCCAGCCTCCGCTCAACCTCCTGCTGGAGCACCTTCTAAACTCCAGCC
TCGACCATACTCGTGCAGCAAGCTCCAGCTTACTCCATCCAGACAAGCTTCACTTTGTGTTAACATCGTA
GAGCTTCCGTCGAACACCACTGCAGCCTCACTGCGGAAGGGAGTGTGCACAGGCTGGCTAGCCACATTGG
TTGCTCCATTTCTCAGCCAAACACAGAAGTTTTGACTGCAGACCATAGTGATGCTCTGGCTCCTGAGAT
ACTTATCTCTCCTCGGCAACAAATTCCTTCCACTTACCAGATGACCTGTCCGCCCCATCATAATGGTG
GGTCCAGGAAGTGGTAGCCCCCTTTGTTGGCTTCTGCAGCACAGAGAAAACTCCAAGAACAACACC
CAGACGGAAACTTTGGAGCAATGTGGCTGTTTTTGGCTGCAGACATAAGGACAGAGACTATTTGTTTCAG
GGAGGAGCTCAGGCATTTCTCAAGACTGGGTCTTGACTCACCTGAAGGTCTCATTCTCAAGAGATGCT
GGCCTGAGGAAGAGGAGGAGGCCCCAGCAAAGTATGTGCAAGACAACCTCCAGCATCACAGCCAGCAGG
TGGCCAGGACCCTCCTTCAGGAGAAATGGCTACATTTACGTGTGTGGAGACGCCAAGAATATGGTAAGGA
TGTACACGACGCCCTTGTAGAAATCATAAGCAAAGAAGCTGGAGTTGACAAACTAGAAGCAATGAAGACA
CTGGCAACCTTAAAGCAAGAAAAGCGGTATCTGCAGGATATCTGGTCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001039003

Insert Size: 1521 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001039003.1](#), [NP_001034092.1](#)

RefSeq Size: 2387 bp

RefSeq ORF: 1521 bp

Locus ID: 290947

UniProt ID: [Q498R1](#)

Cytogenetics: 1p11

Gene Summary: Involved in the reductive regeneration of cob(I)alamin (vitamin B12) cofactor required for the maintenance of methionine synthase in a functional state. Necessary for utilization of methylgroups from the folate cycle, thereby affecting transgenerational epigenetic inheritance. Folate pathway donates methyl groups necessary for cellular methylation and affects different pathways such as DNA methylation, possibly explaining the transgenerational epigenetic inheritance effects.[UniProtKB/Swiss-Prot Function]