

Product datasheet for **RN203085**

Mtr (NM_030864) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtr (NM_030864) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mtr
Synonyms:	methioninesynthase
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN203085 representing NM_030864 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGAAAACCTGCAGGATGAGATTGAAGCCATTCTCGGAAGAGGATTATGGTGCTAGATGGCGGGA
TGGGGACCATGATCCAGCGGTACAACTAAGCGAAGAAAATTTCCAAGGTCAAGAGTTTAAAGACCACAG
CAGGCCACTGAAAGGCAACAATGACATCTTGAGTATAACTCAGCCTGATGTTATTTACCAGATTCATAAG
GAATACTTGCTGGCTGGAGCAGACATCATTGAAACAAACTTTTACGAGCACTAGTATCGCCAGGCTG
ACTATGGCCTCGAACCTTGGCCTACCGGATGAACAAATGCTCCGCAGACGTGGCCAGAAAAGCCCGCA
GGAGATAACTCTGCAGACAGGAGTCAAGAGTTTGTGGCTGGATCTCTGGGTCCGACTAACAAAGACTT
TCAGTTTTCCCATCTGTGAAAGGCCAGATTACAGGAACATCACATTTGATGAGCTTGTGAAGCATACC
AGGAGCAGGCCAAGGGACTGCTGGATGGTGGGTTGACATCTTACTCATTGAGACGATTTTTGATACAGC
CAATGCCAAAGCAGCCTTGTTTGCCTCCAGAACTCTTGAAGAGAATTATGCTTCTCCAGGCCATC
CCAGCGTGTCTCATTAGACCCCTGTGCATTGGATTAATTTGTGCTCTGGGTGCAGTGAATGAGGCC
TTTCATTGAAACAATTGAAAATGTACAACAGCTTATGTCTCTGTTACCCAATGCAGGCTTCCCAAT
ACCTTTGGTGATTATGATGAAACACCAGCCATGATGGCCATGCACCTGAAGGACTTTGCCGTGGACGGCT
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AGCTCAGGTGCTGGATATCAACATGGATGACGGCATGCTGGATGGTCCCAGTGCATGACCAATTTTGC
AACTTCATTGCTTCGGAGCCTGACATTGCAAGGTGCCCTGTGCATTGACTCTTCCAATTTTGTGTGA
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GGACTTCTGGAGAAGGCCAGGAAGATTAGAAGTTTGGAGCTGCTGTGGTGGTTATGGCTTTTGTGAG
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AAGTGGGCTTCAATCCAATGATATCATCTTTGACCCCAACATCCTTACCATTGGAAGTGAATGGAAGA
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 ATAAGTGGAGGTCTCTCCAACCTATCCTTCGCCTTCGAGGGATGGACGCCATTGAGAAGCAATGCACG
 GTGTTTTCTTTATCATGCAATCAAGTTCGGTATGGACATGGGGATAGTCAATGCCGGCAGTCTCCCCGT
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 GGAGGAATGGCTCGATTGAAGAGCGCTGGAGTATGCTCTTGTGAAGGGCATTGAAAAGCACATTTGTTGA
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 GGTGCTTAATGGTTCGGTTGAAGAAGAGGACCCTTACCAAGGCACCATTGTGCTGGCCACTGTTAAAGGT
 GATGTGCATGACATTGGCAAGAACATTGTTGGTGTGGTGTGGGCTGTAATAATTCAGAGTTATTGATT
 TAGGAGTCATGACTCCCTGTGATAAGATACTTCAAGCTGCTCTGGACCACAAAGCAGATATAATTGGCTT
 GTCAGGACTTATCAGCCATCCTTGGATGAAATGATTTTTGTTGCCAAGGAAATGGAGAGTTGGCTATA
 AAGATTCCATTGTTGATAGGAGGAGCAACCACTTCAAGAACCACACAGCAGTAAAATAGCACCACGGT
 ACAGTGGCCTGTAAATCCATGTTCTAGATGCATCCAAGAGTGTGGTGGTGTGTTCTCAGCTGTTAGATGA
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 TCTCTCAAAGAGAGAAAACTTACCCCTAAGTCAAGCCAGAAAACACAGTTTCCACATTGATTGGCTGT
 CTGAACCTCACCCAGTGAAGCCACGTTTATTGGGACCCAGGTCTTTGAAGACTACAACCTGCAAAAAGCT
 GGTGGACTACATTGACTGGAAGCCTTTCTTTGATGTCTGGCAGCTCCGCGGCAAGTACCCGAACCGAGGA
 TTTCCCAAGATATTCAATGACAAAGCAGTAGGTGAAGAAGCCAGAAAGGTATATGAGGATGCTCAGAACA
 TGCTGAGCATACTGATCAGTCGAAAGAACTCCGGGCCAGGGGTGGTTGGATTCTGGCCAGCACAGAG
 CGTCCAAGATGACATCCACCTGTATGCAGAGGGGCGGTGCCCCAGGCCCGGAGCCATAGCCACCTTC
 TATGGACTGAGGCAGCAGGCTGAGAAGGACTCCTCCAGTACAGACCCCTACCACTGCCTCTCAGACTTCG
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 GCTGAGTAAGGCCTATGAGGATGATGGCGATGACTACAGCAGCATCATGGTGAAGGCCCTGGGGACAGG
 CTGGCGGAGGCCCTTTCAGAGGAGCTCCACGAGAGAGTGCAGCAGAGAACTCTGGGCTTACTGTGGGAGTG
 AGCAGTTGGGTGTACAGACTTGCGAAACTCCGCTATGAGGGCATCCGCGCAGCTCCTGGTTACCCACAG
 CCAGCCTGACCATACCGAGAAGCTACCATGTGGAGGCTGGCCAACATCGAGCAGGCCACAGGCATCAGG
 TTGACAGAATCCTTGGCAATGGCACCTGCTTCAGCAGTGTGGGTCTCTACTTCTCCAATGTAAGTCCA
 AATATTTTGTGTGGGAAAATTTCAAAGATCAGATTGAGGATTATGCCTTGAGGAAGAACATGTCAGT
 GGCCGAGGTGAAAAATGGCTTGCCCCATTCTGGGATATGATACAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_030864

Insert Size:

3762 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_030864.1](#), [NP_110491.1](#)

RefSeq Size: 4498 bp

RefSeq ORF: 3762 bp

Locus ID: 81522

UniProt ID: [Q9Z2Q4](#)

Cytogenetics: 17q12.1

Gene Summary: catalyzes the cobalamin-dependent conversion of 5-methyltetrahydrofolate and L-homocysteine to tetrahydrofolate and L-methionine [RGD, Feb 2006]