

Product datasheet for **MC224074**

Mtr (NM_001081128) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mtr (NM_001081128) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mtr
Synonyms: AI894170; D830038K18Rik; MS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224074 representing NM_001081128
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGAAAACCTGCAGGATGAGATTGAAGCCATTCTCGGAAGAGGATCATGGTGTAGACGGTGGGA
TGGGGACCATGATCCAGCGGTACAACTAAGTGAAGAACATTTCCAAGGTCAAGAGTTTAAAGATCACAG
CAGGCCACTGAAAGGCAACAATGACATCTTAAGTATAACTCAGCCTGATATTATTTACCAGATTCATAAG
GAATACTTGCTGGCTGGAGCAGATATCATCGAAACAAACTTTTACGAGTACTAGTATCGCCCAGGCTG
ACTATGGCCTTGAACACTTGGCCTACCGGATGAACAAGTCTCTGCAGATGTGGCCAGAAAAGCCGCTGA
GGAGATAACTCTGCAGACAGGAGTCAAGAGGTTTGTGGCTGGAGCTCTGGGTCCGACTAATAAGACACTT
TCTGTCTCCCCATCTGTGGAAAGGCCAGATTATAGGAACATCACATTTGATGAGCTTGTGACGCATACC
AGGAGCAGGCCAAGGGACTGCTGGATGGCAGGGTCGACATCTTACTCATTGAAACAATTTTTGATACAGC
TAATGCCAAAGCAGCCTTGTTTGCATCCAGAACCTCTTGAAGAGAATTATGCTCCTCCTCGGCATC
TTATTTCTGGGACCATTGTTGATAAAAAGTGAAGGACTCTTCTGGGCAGACGGGAGAGGCTTTTGTCA
CCAGCGTGTCTCATTGACCCCTGTGCATTGGATTAATTTGTTCTCTGGGTGCAGTGAATGAGGCC
TTTCATTGAAACAATTGGAAAATGTACAACAGCCTATGTCTCTGTTACCCAATGCAGGCTTCCCAAC
ACTTTTGGCGACTATGATGAAACACCATCCACGATGGCCACGCACCTGAAGGACTTTGCTGTGGATGGCT
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AAAGTGAAGCCAAGAGTCCCCCTGCTAGTGTTTTGAAGGACATATGTTACTGTCTGGTCTAGAGCCC
TTCAGGATTGGACCATACCAACTTTGTTAACATTGGAGAGCGTGAATGTGGCAGGATCCAGGAAAT
TTGCTAAACTCATGTCAGGAAACTATGAAGAAGCCCTGAGCATTGCCAAAGCACAGGTGAAATGGG
AGCTCAGGTGCTCGATATCAACATGGACGACGGCATGCTGGATGGTCCCAGTGAATGACCAGATTTTGC
AACTCCATTGCTTCTGAGCCTGACATTGCAAGGTGCCCTGTGCATTGACTCTTCTAACTTTGCCGTGA
TTGAAGCTGGGTTGAAGTGTGCAAGGGAAGTGCATAGTCAACAGCATCAGCCTCAAGGAGGGGAGGG
GGACTTCTGGAGAAGGCCCGGAAGATTAGAAGTTTGGAGCTGCTGTGGTGGTTATGGCTTTTGTAGAG
GAAGGACAAGCAACAGAAACAGATGTTAAAGTCAATGTGTGCCACAGAGCTTACCATCTACTTGTGGACA



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AAGTGGGCTTCAATCCAATGACATCATCTTTGACCCCAACATCCTTACCATTGGTACTGGAATGGAGGA
ACATAACTTGTATGCTATCAATTTATCCATGCAACAAGAGTCATTAAGGAAACCTTACCAGGAGTCAGA
ATAAGTGGAGGTCTTCCAACCTATCCTTCTCCTCCGAGGGATGGAAGCCATTCGAGAAGCAATGCATG
GTGTGTTCTTTATCACGCGATCAAGTTTGGTATGGACATGGGGATAGTCAATGCCGGCAACCTCCCTGT
GTATGATGCTATCCACAAGGACCTTCTCAGCTCTGTGAAGACCTCATCTGGAACAAAGACTCTGAGGCT
ACTGAGAAACTCTTCCGATATGCCAGACTCATGGCACAGGAGGGAAGAAAGTCAATCCAGACAGATGAGT
GGAGGAATGGCTCCATTGAAGAGCGCTGGAGTATGCTCTTGTGAAGGGCATTGAAAAGCACATTTGTTGA
AGATACTGAAGAAGCCAGGTTAAACGGGGAAAAATACCCTCGGCCTCTGAATATAATTGAAGGGCCCTA
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CAGCCCGTGCATGAAGAAGGCTGTTGGCCACCTTATCCCTTTCATGGAAAAAGAAAGAGAAGAAGCCAG
ATTGATTAATGGTTCGGTTGAAGAAGAGGACCCTTACCAAGGCACCATTGTGCTGGCCACTGTTAAAGGG
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TAGGAGTCATGACTCCCTGTGATAAGATACTTCAAGCTGCTCTGGACCACAAAGCAGATATAATTGGCTT
GTCAGGACTCATCACTCCATCCTTGGATGAGATGATTTTTGTTGCCAAGGAAATGGAGAGTTGGCTATA
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ACAGCGCCCTGTGATCCACGTCTAGATGCATCCAAGAGTGTGGTGGTGTGTTCTCAGCTGTTAGATGA
AAATCTGAGAGATGACTACTTTGAAGAAATACTGGAAGAGTATGAAGATATTAGACAGGACCACTATGAG
TCTCTCAAAGAGAGAAAAACGTACCCCTAAGTCAAGCCAGAAAACACGGTTTTCCACATTGATTGGCTCT
CTGAACCTCATCCAGTGAAGCCACGTTTATTGGGACCCAGGTCTTTGAGGACTACAACCTGCAAAAAGCT
GGTGGACTACATTGACTGGAAGCCTTTCTTTGACGTCTGGCAGCTCCGGGGCAAGTACCCGAACCGAGGA
TTTCCCAAGATATTTAATGACAAAGCAGTAGGTGAAGAAGCCAGAAAGGTATAACAATGATGCTCAGAATA
TGCTGAACATACTGATTAGTCAAAGAAACTGCAGGCCAGGGGTGGTTGGATTCTGGCCAGCACAGAG
TGTCAGGATGACATCCACCTGTATGCAGAGGGGTGGTGGCCAGGCCGCTGAGCCCATAGCCACCTTC
TATGGACTGAGGCAGCAGGCTGAGAAGGACTCTTCTAGTACAGACCCCTACCACTGCCTCTCAGACTTCA
TTGCTCCTTTGCATTCTGGTGTCTGTGACTACTTGGGTCTGTTTGTGCTGTTGCCTGCTTTGGGGTTGAAGA
GCTGAGTAAGACCTATGAGGATGATGGCGATGACTACAGCAGCATCATGGTGAAGGCGCTGGGCGACAGG
CTGGCAGAGGCCCTTTCAGAGGAGCTCCATGAGAGAGTTCGCGGAGAAGTGTGGGCTACTCTAGGAGTG
AGCAGTTGGGCGTCCCAGACTTGCAGACTCCGGTATGAGGGCATCCGGCCAGCTCCTGGTTACCCAG
CCAGCCTGACCATACTGAGAAGCTTACCATGTGGAGACTGGCCAGCATCGAGCAGGCCACAGGCATCAGG
CTGACAGAATCCTTGGCAATGGCACCCGCTTCAAGATCAGACTGAGGATTATGCTTTGAGGAAGAATGCCAGT
GGCCGAGGTGGAGAAATGGCTTGGTCCCATTCTGGGCTATGACACAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001081128

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_001081128.3](#), [NP_001074597.1](#)

RefSeq Size: 4487 bp

RefSeq ORF: 3762 bp

Locus ID: 238505

UniProt ID: [A6H5Y3](#)

Cytogenetics: 13 4.52 cM

Gene Summary: Catalyzes the transfer of a methyl group from methyl-cobalamin to homocysteine, yielding enzyme-bound cob(I)alamin and methionine. Subsequently, remethylates the cofactor using methyltetrahydrofolate (By similarity).[UniProtKB/Swiss-Prot Function]