

Product datasheet for **MC212152**

Mthfs (NM_026829) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mthfs (NM_026829) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mthfs
Synonyms: 1110034I12Rik; 2310020H23Rik; AI119695
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212152 representing NM_026829
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGGCGTACGGTAAACAGTGCCAAGCGGGGCTGCGGGCCGAGCTGAAGCAGCGCTTGAGGGCCT
TGAGCGCGGAGGAACGGCTGCGCCAGTCTCTCCTCCTCACGCAGAAGGTGATTGCCACAATCAGTATCA
GAATTCAAAAGAATTTCCATCTTTCTAAGCATGCAAGATGAAGTTGAGACGGAAGTAATCATCAAGGAC
ATTTTCAAACAAGGCAAATCTGCTTCATCCCTCGGTACCAATTCAGAGCAATCACATGGACATGGTGA
GGTTAACGTCATCTGAAGAAATTGCTTTACTTCCAAGACATCTTGAATATTCATCAGCCTGGTGAGGG
AGATGTTCCGGGAGGAGGCCTTATCCACTGGTGGACTTGACCTCATCTTCCTTCTGGCCTCGGGTTTGAC
AAAGATGGCAACCGGCTGGGGCGGGTAAGGGTACTATGACACCTACCTGAAGCGCTGTGTACAGCATC
AGGAAGTGAAGCCCTACCCATGGCTTTGGCTTTAAAGAGCAGATCTGTCCCGAGATCCCGATGGATGA
GCATGACATGAAGGTAGATGAAGTCCTTATGAAGATTCCCCAGCATCC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_026829
Insert Size: 612 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).



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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:	<ol style="list-style-type: none">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:	<u>NM_026829.2</u> , <u>NP_081105.1</u>
RefSeq Size:	768 bp
RefSeq ORF:	612 bp
Locus ID:	107885
UniProt ID:	<u>Q9D110</u>
Cytogenetics:	9 E3.1
Gene Summary:	Contributes to tetrahydrofolate metabolism. Helps regulate carbon flow through the folate-dependent one-carbon metabolic network that supplies carbon for the biosynthesis of purines, thymidine and amino acids. Catalyzes the irreversible conversion of 5-formyltetrahydrofolate (5-CHO-H(4)PteGlu) to yield 5,10-methenyltetrahydrofolate (By similarity).[UniProtKB/Swiss-Prot Function]