

## Product datasheet for **MC220572**

### **Mthfr (NM\_001161798) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mthfr (NM_001161798) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mthfr
Synonyms:	A1323986
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220572 representing NM\_001161798  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACCATCAAAAAGCCAAGGTCCTCCAGCTGGGCACTGTTATCCATCCCTGGGGATGTGGCCCTCAG  
 AGGCTGGCTGCGTGAGGCTTCTGTGCCACCCTCTATCAGCAGGAATCCAGCCATGGTGAACGAGGCCAG  
 AGGAAGTGGCAGTCCCAACCCGCGATCTGAGGGCAGCAGCAGTGGCAGCGAGAGTTCCAAGGACAGTTCA  
 AGATGTTCCACCCAGCCTGGACCCAGAGCGGCACGAGAGACTCCGGGAGAAGATGAGGCGCAGAATGG  
 ACTCTGGTGACAAGTGGTCTCCCTGGAGTTCTCCCCCTCGAACTGCTGAGGGAGCTGTTAACCTCAT  
 CTCCAGGTTTGACCGGATGGCAGCAGGGGGCCCTCTTCGTAGATGTTACCTGGCACCCAGCTGGAGAC  
 CCTGGCTCAGACAAGGAGACCTCTCCATGATGATCGCCAGCACAGCAGTAACTACTGCGGCTTGAA  
 CCATCCTGCATATGACCTGCTGCCAGCAGCGCCGGAGGAGATCACAGGCCATCTGCACAGACCCAAGCA  
 GCTGGGCTGAAGAACATAATGGCGCTGAGGGGAGACCCTGTAGGTGACCACTGGGAAGCAGAGGAAGGA  
 GGCTTCAGCTATGCCACAGACCTGGTGAAGCACATCCGGACCGAGTTTGTGACTATTTTGACATCTGTG  
 TGGCAGGTTACCCAGAGGCCACCCGATGCAGAGAGCTTCGAGGATGACCTGAAGCATTGGAAGGAGAA  
 GGTATCTGCAGGCGCCGACTTCAATCACTCAGCTCTTCTTTGAGGCCAGCACCTTCTTCAGCTTTGTG  
 AAGGCCTGCACAGAGATAGGCATCTCTTGCCTATCCTGCCTGGGATCTTCCCTATTCAGGGCTACACTT  
 CCCTTCGGCAGCTTGTAAAAGTGTCAAAGCTGGAGGTGCCACAGAAGATCAAGGATGTAATTGAGCCAT  
 CAAAGACAACGATGCTGCCATCCGCAACTACGGCATTGAGCTGGCTGTAAGCCTGTGCCGGGAGCTGCTG  
 GACAGTGGCTTGGTGCCAGGCCCTCACTTCTATACCTCAACCGCAGGTTGGCCACCATGGAGGTGCTAA  
 AGCAACTGGGCATGTGGACCGAGGACCCAGGCGTCCCTTGCCCTGGGCTCTCAGTGCATCCCAAGCG  
 CCGGGAGGAAGATGTCGGTCCCCTCTTCTGGGCTCCAGACCAAAGAGCTACATCTACCGCACACAGGAC  
 TGGGATGAGTTTCTAACGGCCGCTGGGGTAATTCTTCTCACCAGCCTTTGGGGAGCTGAAAGACTACT  
 ACCTCTTCTACCTGAAAAGCAAGTCCCCAGGGAGGAGCTGCTGAAGATGTGGGGCAGGAGCTCACAG  
 CGAAGAGAGTGTCTTTGAAGTCTTTGAACACTACCTCTCTGGAGAGCCGAATCGCCATGGCTACAGAGTA  
 ACCTGCCTGCCCTGGAACGATGAACCCCTGGCAGCGGAAACCAGCCTGATGAAGGAAGAGCTGCTCCGCG  
 TGAACAGGCTGGGCATCCTCACCATCAACTCTCAGCCCAACATCAACGAAAACCATCCTCAGACCCTGT  
 TGTGGGCTGGGGCCAGTGGGGTTATGTCTTCCAGAAGGCCTACCTCGAATTCTCACCTCCCCTGAA  
 ACTGTGGAGGCGCTTCTGCAGGTGCTGAAGACATACGAGCTGCGGGTCACTACCACATCGTGGACGTGA  
 AGGGAGAGAACATCACTAATGCCCTGAGCTGCAGCCCAATGCCGTGACGTGGGGCATCTTCCCGGGTCCG  
 AGAGATCATCCAGCCTACTGTGGTGGACCCATCAGCTTCATGTTCTGGAAGGATGAGGCCCTTTGCCCTG  
 TGGATCGAGCAGTGGGGCAAGCTATACGAGGAGGAGTCCGCATCCCGCATGATCATCCAATACATCCATG  
 ACAACTATTTCTGGTCAACCTGGTGGACAACGAGTTCCTCGTGGACAGCTGCCTGTGGCAGGTGGTGG  
 GGACACGTTTGGAGCTGCTCAACAGGCATCCCACGGAGAGAGACACAGGCTCCA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001161798
- Insert Size:** 2088 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM\_001161798.1, NP\_001155270.1

**RefSeq Size:** 6085 bp

**RefSeq ORF:** 2088 bp

**Locus ID:** 17769

**Cytogenetics:** 4 78.67 cM

**Gene Summary:** Catalyzes the conversion of 5,10-methylenetetrahydrofolate to 5-methyltetrahydrofolate, a co-substrate for homocysteine remethylation to methionine.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).