OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC220143

Mthfr (NM_010840) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfr (NM_010840) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mthfr
Synonyms:	AI323986
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>MC220143 representing NM_010840
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGAACGAGGCCAGAGGAAGTGGCAGTCCCAACCCGCGATCTGAGGGCAGCAGCAGTGGCAGCGAGA
GTTCCAAGGACAGTTCAAGATGTTCCACCCCCAGCCTGGACCCAGAGCGGCACGAGAGACTCCGGGAGAA
GATGAGGCGCAGAATGGACTCTGGTGACAAGTGGTTCTCCCTGGAGTTCTTCCCCCCTCGAACTGCTGAG
GGAGCTGTTAACCTCATCTCCAGGTTTGACCGGATGGCAGCAGGGGGCCCCCTCTTCGTAGATGTTACCT
GGCACCCAGCTGGAGACCCTGGCTCAGACAAGGAGACCTCCTCCATGATGATCGCCAGCACAGCAGTAAA
CTACTGCGGCTTGGAAACCATCCTGCATATGACCTGCTGCCAGCAGCGCCCGGAGGAGATCACAGGCCAT
CTGCACAGAGCCAAGCAGCTGGGCCTGAAGAACATAATGGCGCTGAGGGGAGACCCTGTAGGTGACCACT
GGGAAGCAGAGGAAGGAGGCTTCAGCTATGCCACAGACCTGGTGAAGCACATCCGGACCGAGTTTGCTGA
CTATTTTGACATCTGTGTGGCAGGTTACCCCAGAGGCCACCCCGATGCAGAGAGCTTCGAGGATGACCTG
AAGCATTTGAAGGAGAAGGTATCTGCAGGCGCCGACTTCATTATCACTCAGCTCTTCTTTGAGGCCAGCA
CCTTCTTCAGCTTTGTGAAGGCCTGCACAGAGATAGGCATCTCTTGCCCTATCCTGCCTGGGATCTTCCC
TATTCAGGGCTACACTTCCCTTCGGCAGCTTGTAAAACTGTCCAAGCTGGAGGTGCCACAGAAGATCAAG
GATGTAATTGAGCCCATCAAAGACAACGATGCTGCCATCCGCAACTACGGCATTGAGCTGGCTGTAAGCC
TGTGCCGGGAGCTGCTGGACAGTGGCTTGGTGCCAGGCCTCCACTTCTATACCCTCAACCGCGAGGTGGC
CACCATGGAGGTGCTAAAGCAACTGGGCATGTGGACCGAGGACCCCAGGCGTCCCTTGCCCTGGGCTCTC
AGTGCGCATCCCAAGCGCCGGGAGGAAGATGTCCGTCCCATCTTCTGGGCCTCCAGACCAAAGAGCTACA
TCTACCGCACACAGGACTGGGATGAGTTTCCTAACGGCCGCTGGGGTAATTCTTCCTCACCAGCCTTTGG
GGAGCTGAAAGACTACTACCTCTTCTACCTGAAAAGCAAGTCCCCCAGGGAGGAGCTGCTGAAGATGTGG
GGCGAGGAGCTCACCAGCGAAGAGAGTGTCTTTGAAGTCTTTGAACACTACCTCTCTGGAGAGCCGAATC
GCCATGGCTACAGAGTAACCTGCCTGCCCTGGAACGATGAACCCCTGGCAGCGGAAACCAGCCTGATGAA
GGAAGAGCTGCTCCGCGTGAACAGGCTGGGCATCCTCACCATCAACTCTCAGCCCAACATCAACGCAAAA
CCATCCTCAGACCCTGTTGTGGGCTGGGGCCCCAGTGGGGGTTATGTCTTCCAGAAGGCCTACCTCGAAT
TCTTCACCTCCCGTGAAACTGTGGAGGCGCTTCTGCAGGTGCTGAAGACATACGAGCTGCGGGTCAACTA
CCACATCGTGGACGTGAAGGGAGAGAACATCACTAATGCCCCTGAGCTGCAGCCCAATGCCGTGACGTGG
GGCATCTTCCCGGGTCGAGAGATCATCCAGCCTACTGTGGTGGACCCCATCAGCTTCATGTTCTGGAAGG
ATGAGGCCTTTGCCCTGTGGATCGAGCAGTGGGGCAAGCTATACGAGGAGGAGTCGCCATCCCGCATGAT
CATCCAATACATCCATGACAACTATTTCCTGGTCAACCTGGTGGACAACGAGTTCCCGCTGGACAGCTGC
CTGTGGCAGGTGGTGGAGGACACGTTTGAGCTGCTCAACAGGCATCCCACGGAGAGAGAGACACAGGCTC
CATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010840

Insert Size: 1965 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_010840.3, NP_034970.2
RefSeq Size:	6008 bp
RefSeq ORF:	1965 bp
Locus ID:	17769
UniProt ID:	Q9WU20
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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream translational start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a.