

Product datasheet for **MG217757**

Mthfr (NM_001161798) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfr (NM_001161798) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mthfr
Synonyms:	A1323986
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG217757 representing NM_001161798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACCATCAAAAAGCCAAGGTCCTCCAGCTGGGCACTGTTATCCATCCCTGGGGATGTGGCCCTCAG
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 AGGAAGTGGCAGTCCCAACCCGCGATCTGAGGGCAGCAGCAGTGGCAGCGAGAGTTCCAAGGACAGTTCA
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 ACTCTGGTGACAAGTGGTTCTCCCTGGAGTTCTCCCCCTCGAACTGCTGAGGGAGCTGTTAACCTCAT
 CTCAGGTTTGACCGGATGGCAGCAGGGGGCCCCCTTTCGTAGATGTTACCTGGCACCCAGCTGGAGAC
 CCTGGCTCAGACAAGGAGACCTCTCCATGATGATCGCCAGCACAGCAGTAACTACTGCGGCTTGAA
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 GCTGGGCTGAAGAACATAATGGCGCTGAGGGGAGACCCTGTAGGTGACCACTGGGAAGCAGAGGAAGGA
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 ACAACTATTTCTGGTCAACCTGGTGGACAACGAGTTCCTCGCTGGACAGCTGCCTGTGGCAGGTGGTGA
 GGACACGTTTGAGCTGCTCAACAGGCATCCCACGGAGAGAGACACAGGCTCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217757 representing NM_001161798
 Red=Cloning site Green=Tags(s)

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MNHQKAKVLPAGHCYPSLGMWASEAGCVRLSVPPSISRNPAMVNEARGSGSPNPRSEGSSSGSESSKDSS
RCSTPSLDPERHERLREKMRRRMDSGDKWFSLEFFPRTAEGAVNLISRFDRMAAGGPLFVDVTWHPAGD
PGSDKETSSMMIASTAVNYCGLETILHMTCCQQRPEEITGHLHRAKQLGLKNIMALRGDPVGDHWEAEEG
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KACTEIGISCPILPGIFPIQGYTSLRQLVKLSKLEVPQKIKDVIPIKDNDAAIRNYGIELAVSLCRELL
DSGLVPLGLHFYTLNREVATMEVLKQLGMWTEPRRPLPWALSAHPKRREEDVRPIFWASRPKSYIYRTQD
WDFEPNGRWGNSSPAFGELKDYYLFYLSKSPREELLKMWGEELTSEESVFEVFEHYLSGEPNRHGYRV
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TVEALLQVLKTYELRVNYHIVDKGENITNAPELQPNVWTGIFPGREIIQPTVVDPISFMFWKDEAFAL
WIEQWGLKYEESPSRMIQYIHDNYFLVNLVDNEFPLDSCLVQVVEDTFELLNRHPTERETQAP
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001161798

ORF Size: 2085 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001161798.1](#), [NP_001155270.1](#)

RefSeq Size: 6085 bp

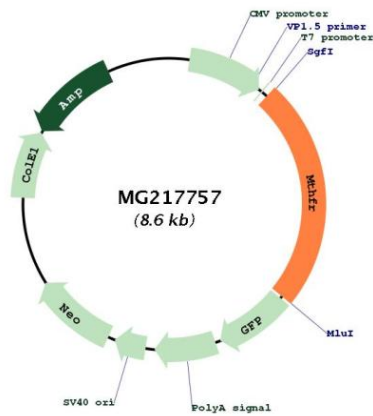
RefSeq ORF: 2088 bp

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]

Product images:



Circular map for MG217757