

Product datasheet for MR220211

Mthfs (NM_026829) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mthfs (NM_026829) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mthfs
Synonyms: 1110034I12Rik; 2310020H23Rik; AI119695
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR220211 representing NM_026829
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGTACGGTAAACAGTGCCAAGCGGGGCTGCGGGCCGAGCTGAAGCAGCGCTTGAGGGCCT
TGAGCGCGGAGGAACGGCTGCGCCAGTCTCTCCTCCTCACGCAGAAGGTGATTGCCACAATCAGTATCA
GAATTCAAAAGAATTTCCATCTTTCTAAGCATGCAAGATGAAGTTGAGACGGAAGTAATCATCAAGGAC
ATTTTCAAACAAGGCAAATCTGCTTCATCCCTCGGTACCAATCCAGAGCAATCACATGGACATGGTGA
GGTTAACGTCATCTGAAGAAATTGCTTTACTTCCAAGACATCTTGAATATTCATCAGCCTGGTGAGGG
AGATGTTCCGGGAGGAGGCCTTATCCACTGGTGGACTTGACCTCATCTTCCTTCTGGCCTCGGGTTTGAC
AAAGATGGCAACCGGCTGGGGCGGGTAAGGGTACTATGACACCTACCTGAAGCGCTGTGTACAGCATC
AGGAAGTGAAGCCCTACCCATGGCTTTGGCTTTAAAGAGCAGATCTGTCCCAGATCCCAGTGGATGA
GCATGACATGAAGGTAGATGAAGTCCTTTATGAAGATCCCCAGCATCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220211 representing NM_026829
Red=Cloning site Green=Tags(s)

MAAVTVNSAKRGLRAELKQRLRALSAEERLRQSLLLTQKVIAHNQYQNSKRISIFLSMQDEVETEVIKID
IFKQGKICFIPRYQFQSNHMDMVRLTSSEEIALLPKTSWNIHQPEGDVREELSTGGLDLIFLPLGLGFD
KDNRLGRGKGYDYTLKRCVQHVEKPYTMALAFKEQICPQIPVDEHDMKVDEVLYEDSPAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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_026829.2](#), [NP_081105.1](#)

RefSeq Size: 768 bp

RefSeq ORF: 612 bp

Locus ID: 107885

UniProt ID: [Q9D110](#)

Cytogenetics: 9 E3.1

MW: 23.7 kDa

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]