

Product datasheet for **MC200495**

Mthfd1 (NM_138745) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd1 (NM_138745) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mthfd1
Synonyms:	DC; Dcs; E430024A07Rik; Mthfd
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC008523 sequence for NM_138745
 TCCCTGAGCACGTGGGTTGTGCTGTCTTCGCGCGCGGAGCGACTGGAACCTGATTTTTGCTGGTGTTC
 CCGTGGGTGGCAGACTAGCAAAGGCCATGGCACCAGCGGGAATCCTGAACGGGAAACTGGTTTCTGCGCA
 AATCAGGGATCGACTGAAGAACCAGGTAACCTGGATGCAGGAGCAGGTACCTGGCTTACCCTGGCCTG
 GCGATCCTGCAGGTTGGCGACAGAGATGATTCTAATCTTTATATAAATGTGAAGCTGAAGGCTGCTGAGG
 AGATTGGGATCAAAGCCACTCACATTAATTACCAAGAACATCCACAGAGTCCGAGGTATAAAAATATGT
 CATCTCCCTGAATGAGGATGCCTCTGTGCACGGATTCATAGTGCAGCTGCCTTTAGATTACAGAGAATTC
 ATTAACACTGAGGCAGTCATCAATGCCATTGCACCCGAGAAGGATGTGGATGGGTTGACGAGCGTCAGTG
 CTGGGAAGCTCGCCAGAGGTGATCTAAATGACTGCTTCATCCCATGCACACCCAAGGGATGCTTGGAACT
 CATCAAAGAGGCAGGGGTGCAGATTGCCGGAAGGCACGCGGTGGTGGTGGTTCGAAGTAAGATAGTTGGT
 GCACCCATGCATGACCTCCTTCTGTGGAACAATGCCACGGTGACCACCTGCCACTCCAAGACTGCCAATC
 TGGACAAGGAGGTAATAAAGGAGACATTCTGGTGGTGGCCACAGGCCAGCCTGAGATGGTGAAGGGGGA
 GTGGATCAAGCCTGGGGCTGTGGTCATAGACTGTGGGATCAATTATGTTCCAGATGATACAAAACCAAT
 GGAAGGAAAGTCGTGGGTGATGTGGCTACGATGAGGCCAAGGAGAGGGGAGCTTTATCACGCCTGTCC
 CTGGTGGCGTGGGGCCATGACCGTGGCAATGCTGATGCAGAGCAGAGTACAGAGCGCACAGCGCTTCT
 ACAGAAATTTAAGCCAGGGAAAGTGGACAATTACAGTATAACAAGCTGAACCTCAAGACTCCTGTCCCAAGT
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 CCGAAGAGGTGGAGTTGTACGGGAAACGAAGGCTAAAGTCTTGCTGTCAGCATTAGATCGCCTGAAGTA
 TCAGCCAGATGGGAAATATGTGCTGGTACTGGAATTACTCCAACACCGCTGGGAGAAGGGAAAGTACC
 ACCACGATCGGGCTGGTGCAGGCCCTCGGCGCCACCTGCGACAGAACGCTTTTGGCGTGTGTGGACAGC
 CTTGCGAGGGCCCCACCTTTGGGATAAAAGGTGGCGTGCAGGAGGCGGCTATCCCAGGTCATTCCAAT
 GGAAGAGTTTAACTCCACCTCACTGGTGACATCCACGCCATCACTGCTGCTAACAACCTCGTGGTGGT
 GCCATTGATGCTCGGATATTTTCATGAGCTGACCCAGACAGACAAGGCTCTCTTTAATCGTGGTACTTT
 CAGTAAACGGAATAAGAAAATTCTGACATCCAATCCGAGGTTACGGAGGCTAGGCATTGAGAAGAC
 TGACCCACCACGCTGACAGATGACGAGATAAACAGATTTGCAAGACTGGATATTGACCCAGAAACCATA
 ACATGGCAGAGAGTGTGGACACCAACGATAGATTCTGAGGAAGATCACAATTGGACAGTCTCCAACAG
 AGAAAAGGCCACACACGCACGGCCAGTTTGATATCTCTGTGGCCAGTGAGATCATGGCAGTCTGGCCCT
 CACGAGCTCTCTGGAAGACATGAGAGAGAGACTGGGCAGAATGGTGGTGGCGTCCAGTAAGAAAGGGGAG
 CCTATCAGTTGCGAAGACCTGGGCGTGAAGTGGGACGCTGACGGTGGTGTGAAGGATGCAATCAAGCCCA
 ACCTCATGCAGACCTTAGAGGGCAGCCAGTGTGTCCATGCCGGCCCTTCGCCAACATTGCACACGG
 GAATTCCTCCATCATTGCAGACCGGATTGCACTCAAGCTGGTAGGCCCTGAGGGCTTCGTAGTGACGGAA
 GCTGGATTTCGGAGCAGACATAGGAATGGAAAAGTTCTTCAACATCAAGTGCCGGTATTCTGGTCTCCAGC
 CACACGTGGTGGTCTGGTTGCCACTGTGAGGGCCCTAAGATGCACGGGGGTGGCCCCACGGTACCCGC
 TGGACTACCTCTTCCAAAGGCTTACACAGAAGAGGACCTGGACCTGGTTGAAAAGGGCTTCAGTAACTTG
 AGGAAACAAATCGAAAATGCTAGAAATGTTTGGAGTCCCTGTGCTGCTGGCTGTGAACGTGTTCAAGACAG
 ATACAGATGCTGAGCTGGACCTGTGACCCGCTCTCCAGAGAACACGGGGCTTTTGATGCTGTCAAGTG
 CACCCACTGGGCAGAAGGGGGCCAGGGGGCTTGGCCCTGGCTCAGGCTGTCCAGAGAGCGTCACAGGCC
 CCCAGCAGCTTCCAGCTCCTCTATGACCTCAAGCTCTCAATTGAGGATAAAATCAGGATTATTGCACAGA
 GGATCTACGGGGCCGATGACATCGAATTGCTCCCGGAAGCACAGAACAAGCAGAAATTTACACAAAGCA
 GGGCTTTGGGAATCTACCCATCTGCATGGCCAAAACACACTTGTCTTGTCTCACAAACCCAGAGCAAAAA
 GGGGTGCCTACTGTTTCTGTTTCTGCCATCCGGGACATCCGTGCCAGCGTTGGGGCAGGTTTCTGTATC
 CTTTAGTAGGAACGATGAGCACAATGCCTGGACTCCCTACGAGGCCCTGTTTTTATGATATTGATTTGGA
 TCCTGAAACGGAACAAGTGAATGGATTGTTTTAAGCAGATCTTCCATCTCCAAGAGGCCACTCTGTCCGG
 CCAGTGTCTGTTACGGCCACTGAAGAAGTGTGCAGAAGTCTTGGAAAGTCTGTCCCGCCCTGAAGAGCT
 TCAGAAATAGTGGGAGTTTCCCTAAAGCCTTTTCATAGCCTTAATTCACGTGATATAAATTAACATAAA
 TCATGTCTATTTACATAGTGAAGGTCCAGAATAAATGAAATAATTTTGTAAAAA AAAAAAAAAA AAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_138745

Insert Size: 2808 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:	<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:	BC008523 , AAH08523
RefSeq Size:	3159 bp
RefSeq ORF:	2808 bp
Locus ID:	108156
UniProt ID:	Q922D8
Cytogenetics:	12 C3
Gene Summary:	This gene encodes a trifunctional cytoplasmic enzyme. The encoded protein functions as a methylenetetrahydrofolate dehydrogenase, a methenyltetrahydrofolate cyclohydrolase, and a formyltetrahydrofolate synthase. The encoded enzyme functions in de novo synthesis of purines and thymidylate and in regeneration of methionine from homocysteine. [provided by RefSeq, Oct 2009]