

Product datasheet for **RN212063**

Mthfd1 (NM_022508) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd1 (NM_022508) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mthfd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN212063 representing NM_022508
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCACCAGCGGAATCCTGAACGGGAAAGTGGTCTCCGCGCAATCAGGAATCGACTGAAGACCCAGG
 TTACTCAGATGCAGGAGCAGGTACCTGGCTTACCCTGGCTTGCAATCCTGCAGGTTGGCGACAGAGA
 TGATTCCAATCTTTATATAAATGTGAAGCTGAAGGCTGCTCAAGAGATCGGGATCAAAGCCACTCACATT
 AAATTACCAAGAACTTCCACAGAGTCGGAGGTGTTAAAAACGTCATCTCCCTGAATGAGGATGCCACTG
 TGCACGGATTCATAGTACAGCTGCCTTTAGACTCCGAGAATTCATTAACACAGAGGCAGTCATCAATGC
 CATTGCCCTGAGAAGGATGTGGACGGTTGACGAGCATCAATGCCGGGAAGCTTGCCAGAGGTGATCTA
 AAGGACTGCTTCATTCCGTGCACACCCAAAGGATGCTTGAAGTCAATCAAAGAGACAGGAGTGCAGATTG
 CAGGAAGGCACGCCGTGGTGGTGGCGGAAGTAAATAGTTGGTGCACCCATGCACGACCTGCTTCTGTG
 GAACAATGCCACGGTACCACCTGCCACTCCAAGACTGCCGATCTGGACAAGGAGTAAATAAAGGAGAC
 ATTCTGGTGGTTGCAACAGGACAGCCTGAGATGGTGAAGGGGAGTGGATCAAGCCTGGAGCTGTGGTCA
 TAGACTGTGGGATCAATTATGTTCCAGATGATACAAAACCAAATGGAAGGAAAGTTGTGGGTGACGTAGC
 ATATGACGAGGCCAAGGAGAAGGCGAGCTTTATCACGCCTGTCCCGGTGGCGTGGGGCCATGACCGTG
 GCAATGCTGATGCAGAGCACAGTACAGAGCGCACAGCGCTTCTGAAGAAATTAAGCCAGGGAAGTGGAA
 CAATTCAGTATAACAAGCTGAACCTCAAGACGCCTGTACCAAGTGACATTGCTATATCACGATCTTGCAA
 ACCAAGCTCATCGGTAACCTGGCCGAGAAATGGGCTACTCACTGAGGAGGTGGAATGTATGGAGAA
 ACAAGGCCAAGGTCTTACTGTCAGCACTAGATCGCTGAAGCATCAGCCAGATGGGAAATACGTTGTGG
 TGACTGGAATTACTCCAACACCCCTGGGAGAAGGGAAGACACAACCAATCGGGCTTGTGCAAGCCCT
 TGGCGCCACCTGCATCAGAATGTTTTGCGTGTGTGCGACAGCCTTCTCAGGGCCACCTTTGGGATA
 AAAGGTGGCGCTGCAGGAGGCGGCTATCCAGGTCATTCTATGGAAGAGTTAATCTCCACCTCACTG
 GTGACATCCACGCCATCACTGCCGCTAATAACCTTGTGGCTGCTGCTATTGACGCTCGGATATTTATGA
 GCTGACCCAGACAGACAAGGCTCTCTTAAATCGTCTGGTACCCTCAGTAAATGGAGTAAGAAAGTTCTCT
 GACATCCAAATCCGAGGTTACGGAGGCTAGGCATTGAGAAGACTGACCCCGCTGCGCTGACAGATGATG
 AGATAACAGATTTGCAAGACTAGATATTGATCCAGAAACCATAACATGGCAGAGAGTGTGGATACTAA
 CGATAGATTCCTGAGGAAGTACCAATTGGACAGGCTCCAACCGAGAAAGGCCACACACGCACGGCCAG
 TTTGATATCTCTGTGCCAGTGAATCATGGCAGTCTGGCCCTCACTAGTTCTCTGGAAGACATGAGAG
 CAAGGCTGGGCAAAATGGTGGTAGCGTCCAGTAAGAAAGGGGAGCCTATCAGCTGTGAAGACCTGGGCGT
 GAGCGGGGCGCTGACGGTGTCTGAAGGATGCGATCAAGCCAAATCTCATGCAGACCTTAGAGGGCACG
 CCGGATTTGTCCATGCTGGGCCTTTTGCCAACATTGCACATGGGAATCCTCCATCATTGCAGACCCGGA
 TTGCACTCAAGCTGGTTGGCCCTGAGGGCTTTGTAGTGACAGAAGCAGGATTCGGAGCAGACATAGGAAT
 GGAAAAGTTCTTCAACATCAAGTGCCGGTATTCTGGTCTCCAGCCTCATGTGGTGGTTCTTGTGGCACT
 GTCAGGGCTCTTAAGATGCACGGGGTGGCCCCACGGTACCCTGGACTGCCTCTTCCAAGGCTTACA
 CAGAAGAGGACCTGGACCTGGTGGAAAAGGGCTTCAGTAACTTGAGGAAACAGATAGAAAATGCTAGAAT
 GTTTGGAGTGCCTGTGTTGGCCATGAATGCATTCAAGACAGATACAGATACTGAGCTGGACCTCATC
 GGCCGCCTCTCCAGAGAGCATGGGGCTTTCGATGCTGTCAAGTGACCCACTGGGACAGAAAGGGGGCCAGG
 GAGCCTTAGCCCTGGCTCAGGCTGTCCAGAGAGCTTACAGGCCCCAGCAGCTTCCAGCTCCTCTATGA
 CCTCAAGCTCTCAGTTGAAGATAAAAATCAGGATTATTGCACAGAAGATCTACGGGGCCGATGACATCGAA
 TTGCTCCCTGAAGCACAAAACAAAGCAGAAATCTACACAAAGCAGGGCTTTGGGAATCTACCCATCTGCA
 TGGCCAAAACACACTTGTCTTTATCTACAACCCAGAGCAAAAAGGGGTGCCTACTGGCTTCTGTTCTGCC
 CATCCGGGACATCCGGGCCAGCGTTGGGGCTGGTTTCTGTACCTTTAGTAGGAACGATGAGCACAATG
 CCTGGACTCCCTACTCGACCCTGTTTTATGATATCGATTTGGACCCTGAAACTGAACAAGTGAATGGAT
 TGTTTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN:	NM_022508
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:	NM_022508.1 , NP_071953.1
RefSeq Size:	3332 bp
RefSeq ORF:	2808 bp
Locus ID:	64300
UniProt ID:	P27653
Cytogenetics:	6q24
Gene Summary:	a trifunctional enzyme combining a 10-formyl-H4folate synthetase, a 5,10-methenyl-H4folate cyclohydrolase, and a 5,10-methylene-H4folate dehydrogenase [RGD, Feb 2006]