

Product datasheet for **MC222930**

Mthfd1l (NM_001170785) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd1l (NM_001170785) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mthfd1l
Synonyms:	2410004L15Rik; AI647056; Fthfsdc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222930 representing NM_001170785

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGCGTCCGCCTCCCTCTCCTGCTTCGCCAGCTCGGCCGCCAGCAGCTGCCCTCGGGCCCGCGTGTG
 GCCTCCGTGAGCTGTGTGCTCAGGCAGCAGAAGCAGCAGCAGCGAGGTGGTGACCCCGAGGGTTACG
 CGGGCGCGCGCTGCAGGATGGCCAAACCTTCAGCAGCCATGGCCAGGCAATCCGGAAGCCCCGGGATG
 GACTCCATCGTCAGAGACGTCATTACAAATTCAGGAAGTGTGAGCTTGTGCAAGAAAAGAACCTG
 CCTTTAAGCCAGTCTTGTGTTATTACAGCCGGTGATGACAATTTGATGAAGGATATGAACCAGAAATTT
 GGCCAAGGAGGTGGTCTGGACATCACTCACATCTGCTTGCTCCAGACAGCGGAGAGGATGAGATCATA
 GATGAAATCCTGAAGATTAATGAAGACCCAGAGTGCATGGCCTTACCCTTCAGATCTCTGAAGATTCAT
 TGAGCAACAAAGTTCTCAATGCTTTGAAACCAGAAAAAGATGTGGACGGGGTGACCGACATCAATCTGGG
 GAAGCTCGTACGAGGTGACGCTCCGGAGTGTTCCTTTACCCTTGCCAAAGCTGCTGTAGAATTTGTT
 GAAAAGTCAGGGATCACTTTGGATGGAAGAAGGTCTTGGTCGTAGGGGCGCACGGGCCCTGGAAGCTG
 CCCTGCAGTGGCTTTCCAGAGAAAAGGATCTATGACAATGAGCTGCCCTTGGGCAACACCTCAGCTTCC
 AGACAAGCTTCGAGAGGCAGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAGAGATTCTGCTGTGTGG
 ATTCCATCAGGAACCACTTCTCAATTGCTTCCATGACTTCTTGTGAGGAAAGCTGAGCGGAGGTTCTC
 CTGGGGTCCCCGTGGACAACTCATTGCAGAAGAGAGCGTGAGTCTCCTTGTGCGGCTCTGCGCATTCA
 GAACATGGTGAGCAGCGGCAGGAGGTGGCTCAGAGAGCAGCAACATCGAAGATGGCGACTGCACTGCTTG
 AAATGCAAGCCTCTCACCTGTGCCAGTGATATTGAGATTTCTCGAGGACAGACTCCAAAGCTGTGG
 ATGTCTTGGCAAGGAGATAGGATTGCTTGAGATGAAATGAAATCTATGGCAAGAGCAAGGCCAAAGT
 CCAATTGCTCCCTGCTGGAGAGGTTAAAGGATCAACAGATGGAATAACGTCTTGGTTGCTGGGATCACG
 CCCACCCCGCTCGGAGAAGGGAAGAGTACAGTACCATCGGACTAGTGCAGGCGCTGACCCTCACCTGA
 AAGTCACTCCTTCGCTGTCTGAGGCAGCCTTCTCAGGGACCCACTTTTGGAGTGAAAGGAGGAGCTGC
 AGGAGGTGGATATGCTCAGGTACCCCCATGGAGGAGTTCAACCTTCACCTGACTGGGGACATCCATGCC
 ATCACTGCCGCTAATAACTTGTGGCCGACCCATCGACACGAGAATTTTACATGAGAGCACTCAACACAG
 ACAAGGCTCTCTACAATCGACTGGTTCCTTAGTGAATGGTGTGAGAGAATTTTCAAGAAATCAACTTTC
 TCGGCTGAAGAACTGGGATACATAAGACTGATCCAAGCAGACTGACCGAGGAGGAAGTGAGGAAGTTC
 GCCCGCTCAACATTGACCCGCAACCATCACGTGGCAGAGAGTATTGGACACGAACGACCGATTCTGA
 GAAAAATAACCATTTGACAGGGAAGTACAGAGAAAGGATATTCCCGGCAGGCACAGTTTGACATTGCAGT
 GGCCAGCGAGATCATGGCCGTGCTGGCCTTGACTGATAGCCTCACAGACATGAAAGAGCGGCTAGGAAGA
 ATGGTGGTGGCCAGTGACAAAGACGGGAGCCTGTGACAGCTGAGGACTTGGGGGTGACCGGCGCTCTGA
 CAGTTTGTGATGAAAGACGCCATCAAGCCAAATCTGATGCAGACCTTGAAGGAACACCTGTGTTGTGCA
 CGCTGGTCCCTTTGCCAATCGCTCACGGCACTCATCAGTATTAGCTGATAAAATCGCGCTGAAATTG
 GTCGGCGAAGAAGGGTTTGTGGTGAAGCTGGCTTTGGGGCTGATATTGGGATGGAGAAATTTCTTCA
 ATATCAAAATGCCGAGCTTCTGGCCTGGTGCCCAACGTTGTCGTGCTGGTAGCCACCGTTCGAGCTCTGAA
 GATGCATGGAGGCGGGCCGAGTGAAGTCTGGGGTTCCTCTCAAGAAAGAATATACAGAGGAGAACATT
 CAGCTGGTAGCTGATGGCTGCTGAACCTACAGAAGCAATTCAGATCGCTCAGCTCTTCGGGGTGCCGG
 TGGTGGTGGCACTGAATGTCTTCAAGACGACACCCGTGCAGAGATTGACTTGGTGTGTGAGCTCGCTAA
 ACGGGCCGGTGCCTTTGATGCGGTCCCCTGCTATCACTGGTGGCTGGAGGGAAGGATCTGTGGACTTG
 GCCCGGGCTGTGAGAGAAGCTGCGAATAAAGAAAGCCGCTTCAGTTCTGTATGATGTTGAGCTTCCCA
 TCGTGGAAAGATAAGAGTCATTGCCAGACTGTCTATGGAGCCAAGGACATTGAGCTGTCTCTGAGGC
 GCAGTCCAAAATCGATCGCTATACGCAACAGGGTTTTGAAATTTGCCATTTGCATGGCGAAGACCCAC
 CTCTCTCTCTCATGAACCTGACAAAAGGGAGTGCCGAGGGATTTCACTCTGCCCATCAGTGATGTCC
 GGGCCAGCATCGGGGCTGGGTTCATTTATCCTTTGGTGGGAACGATGAGCACAATGCCAGGACTGCCAC
 CCGACCCTGCTTTTATGATATAGACCTTGACACAGAAACGGAGCAAGTTAAAGGCTGTTC**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001170785
Insert Size:	2934 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:	<u>NM_001170785.1, NP_001164256.1</u>
RefSeq Size:	3743 bp
RefSeq ORF:	2934 bp
Locus ID:	270685
UniProt ID:	<u>Q3V3R1</u>
Cytogenetics:	10 A1
Gene Summary:	May provide the missing metabolic reaction required to link the mitochondria and the cytoplasm in the mammalian model of one-carbon folate metabolism in embryonic an transformed cells complementing thus the enzymatic activities of MTHFD2.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.