

## Product datasheet for **MC222929**

### **Mthfd1l (NM\_001170786) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mthfd1l (NM_001170786) 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:** >MC222929 representing NM\_001170786  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGTCCGCCTCCCTCTCCTGCTTCGCCAGCTCGGCCGCAGCAGCTGCCCTCGGGCCCGCGTGTCC  
 GCCTCCGTGAGCTGTGTGCTCAGGCAGCAGAAGCAGCAGCAGCGGAGGTGGTGACCCCGAGGGTTACG  
 CGGGCGCGGCTGCAGGATGGCCAAACCTTCAGCAGCCATGGCCAGGCAATCCGGAAGCCCCGGGATG  
 GACTCCATCGTCAGAGACGTCATTACAAATTCAGGAAGTGTGAGCTTGTGCAAGAAAAGAACCTG  
 CCTTTAAGCCAGTCTTGTGTTATTACAGCCGGTGTGACAATTTGATGAAGGATATGAACCAGAAATTT  
 GGCCAAGGAGGCTGGTCTGGACATCACTCACATCTGCTTGCCTCCAGACAGCGGAGAGGATGAGATCATA  
 GATGAAATCCTGAAGATTAATGAAGACCCAGAGTGCATGGCCTTACCCTTCAGATCTCTGAAGATTCAT  
 TGAGCAACAAAGTTCTCAATGCTTTGAAACCAGAAAAGATGTGGACGGGGTACCAGACATCAATCTGGG  
 GAAGCTCGTACGAGGTGACGCTCCGGAGTGTTCCTTACCCTTGCCAAAGCTGCTGTAGAATTTGTT  
 GAAAAGTCAGGGATCACTTTGGATGGAAGAAGGTCTTGGTCGTAGGGGGCAGCGGCCCTGGAAGCTG  
 CCCTGCAGTGGCTTTCCAGAGAAAAGGATCTATGACAATGAGCTGCCCTGGGCAACACCTCAGCTTCC  
 AGACAAGCTTCGAGAGGCAGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAAGAGATTCCTGCTGTGG  
 ATTCCATCAGGAACCACCTTCTCAATTGCTTCCATGACTTCTTGTGAGGAAAGCTGAGCGGAGGTTCTC  
 CTGGGGTCCCCGTGGACAAACTCATTGCAGAAGAGAGCGTGTGACTCCTTGTGCGGCTCTGCGCATTCA  
 GAACATGGTGAGCAGCGGCAGGAGGTGGCTCAGAGAGCAGCAACATCGAAGATGGCGACTGCACTGCTTG  
 AAATCCAGCCCTCTCACCTGTGCCAGTGTATTTGAGATTTCTCGAGGACAGACTCCAAAAGCTGTGG  
 ATGTCCTTGCCAAGGAGATAGGATTTGCTTGCAGATGAAATGAAATCTATGGCAAGAGCAAAAGCCAAAT  
 CCAATTGTCCTGCTGGAGAGGTTAAAGGATCAAACAGATGGAATAACGTCCTTGGTTGCTGGGATCAGC  
 CCCACCCCGCTCGGAGAAGGGAAGGTACAGTCCATCGGACTAGTGCAGGCGCTGACCCTCACCTGA  
 AAGTCACTCCTTCGCTGTCTGAGGCAGCCTTCTCAGGGACCCACTTTTGGAGTGAAGGAGGAGCTGC  
 AGGAGGTGGATATGCTCAGGTACCCCCATGGAGGAGTTCAACCTTACCTGACTGGGGACATCCATGCC  
 ATCACTGCCGCTAATAACTTGTGGCCGACCCATCGACACGAGAATTTTACATGAGAGCACTCAAACAG  
 ACAAGGCTCTCTACAATCGACTGGTCCCTTAGTGAATGGTGTGAGAGAAATTTTCAAGAAATCAACTTTC  
 TCGGCTGAAGAACTGGGATACATAAGACTGATCCAAGCACACTGACCGAGGAGGAAAGTGAAGGAGTTC  
 GCCCGCTCAACATTGACCCCGCAACATCACGTGGCAGAGAGTATTGGACACGAACGACCGATTTCTGA  
 GAAAAATAACCATTTGACAGGGAAGTACAGAGAAAGGATATCCCGGCAGGCACAGTTTGCATTGCAAT  
 GGCCAGCGAGATCATGGCCGTGCTGGCCTTACTGATAGCCTCACAGACATGAAAGAGCGGCTAGGAAGA  
 ATGGTGGTGGCCAGTGACAAAGACGGGCAGCCTGTGACAGCTGAGGACTTGGGGGTGACCGGCGCTCTGA  
 CAGTTTGTGATGAAAGACGCCATCAAGCCAAATCTGATGCAGACCTTGAAGGAACACCTGTGTTGTGCA  
 CGCTGGTCCCTTTGCCAATCGCTCACGGCAACTCATCAGTATTAGCTGATAAAATCGCGCTGAAATTTG  
 GTCGGCGAAGAAGGTTTGTGGTACTGAAGCTGGCTTTGGGGCTGATATTGGGATGGAGAAATTTCTTCA  
 ATATCAAATGCCGAGCTTCTGGCCTGGTCCCAACGTTGTCGTGCTGGTAGCCACCGTTCGAGCTCTGAA  
 GATGCATGGAGGGCGGCGGAGTGAACCTGCTGGGTTCCCTCTCAAGAAAGAATATACAGAGGAGAACAT  
 CAGCTGGTAGCTGATGGCTGCTGCAACCTACAGAAGCAAATTCAGATCGCTCAGCTCTTCGGGGTGGCCG  
 TGGTGGTGGCACTGAATGTCTTCAAGACGGACACCCGTGCAGAGATTGACTTGGTGTGTGAGCTCGCTAA  
 ACGGGCCGGTGCCTTTGATGCGGTCCCCTGCTATCACTGGTGGCTGGAGGGAAGGATCTGTGGACTTG  
 GCCCGGCTGTGAGAGAAGCTGCGAATAAAGAAGCCGCTTCCAGTTCTGTATGATGTTTCACTTCCCA  
 TCGTGGAAAAGATAAGAGTATTGCCAGACTGTCTATGGAGCCAAGGACATTGAGCTGTCTCTGAGGC  
 GCAGTCCAAAATCGATCGCTATACGCAACAGGGTTTTGAAAATTTGCCATTTGCATGGCGAAGACCCAC  
 CTCTCTCTCTCATGAACCTGACAAAAGGGAGTGCCGAGGATTTCACTCTGCCATCAGTGTATGCC  
 GGGCCAGCATCGGGCTGGGTTCAATTTATCCTTTGGTGGGAACGATGAGCACAATGCCAGGACTGCCAC  
 CCGACCCTGCTTTATGATATAGACCTTGACACAGAAACGGAGCAAGTTAAAGGCTGTTC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001170786
<b>Insert Size:</b>	2934 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001170786.1</a></u> , <u><a href="#">NP_001164257.1</a></u>
<b>RefSeq Size:</b>	3623 bp
<b>RefSeq ORF:</b>	2934 bp
<b>Locus ID:</b>	270685
<b>UniProt ID:</b>	<u><a href="#">Q3V3R1</a></u>
<b>Cytogenetics:</b>	10 A1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR compared to variant 1. 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.</p>