

Product datasheet for **MC222931**

Mthfd1l (NM_172308) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd1l (NM_172308) 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:

>MC222931 representing NM_172308
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGTCCGCCTCCCTCTCCTGCTTCGCCAGCTCGGCCGCAGCAGCTGCCCTCGGGCCCGCGTGTCC
 GCCTCCGTGAGCTGTGTGCTCAGGCAGCAGAAGCAGCAGCAGCGGAGGTGGTGACCCCGAGGGTTACG
 CGGGCGCGGCTGCAGGATGGCCAAACCTTCAGCAGCCATGGCCAGGCAATCCGGAAGCCCCGGGATG
 GACTCCATCGTCAGAGACGTCATTACAAATCCAAAGGAAGTGTGAGCTTGTGCAAGAAAAGAACCTG
 CCTTTAAGCCAGTCTTGTGTTTATCAGGCCGGTGTGACAATTTGATGAAGGATATGAACCAGAAATTT
 GGCCAAGGAGGCTGGTCTGGACATCACTCACATCTGCTTGCCTCCAGACAGCGGAGAGGATGAGATCATA
 GATGAAATCCTGAAGATTAATGAAGACCCAGAGTGCATGGCCTTACCCTTCAGATCTCTGAAGATTCAT
 TGAGCAACAAAGTTCTCAATGCTTTGAAACCAGAAAAGATGTGGACGGGGTGACCGACATCAATCTGGG
 GAAGCTCGTACGAGGTGACGCTCCGGAGTGTTCCTTCCACCTTGCCAAAGCTGCTGTAGAATTGTT
 GAAAAGTCAGGGATCACTTTGGATGGAAGAAGGTCTTGGTCGTAGGGGGCAGCGGCCCTGGAAGCTG
 CCCTGCAGTGGCTTTCCAGAGAAAAGGATCTATGACAATGAGCTGCCCTGGGCAACACCTCAGCTTCC
 AGACAAGCTTCGAGAGGCAGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAAGAGATTCCTGCTGTGTGG
 ATTCCATCAGGAACCACCTTCTCAATTGCTTCCATGACTTCTTGTGAGGAAAGCTGAGCGGAGGTTCTC
 CTGGGGTCCCCGTGGACAAACTCATTGCAGAAGAGAGCGTGAGTCTCCTTGTGCGGCTCTGCGCATTCA
 GAACATGGTGAGCAGCGGCAGGAGGTGGCTCAGAGAGCAGCAACATCGAAGATGGCGACTGCACTGCTTG
 AAATCGACGCTCTCACCTGTGCCAGTGTATTTGAGATTTCTCGAGGACAGACTCCAAAAGCTGTGG
 ATGTCCTTGCCAAGGAGATAGGATTTGCTTGCAGATGAAATGAAATCTATGGCAAGAGCAAAAGCCAAAT
 CCAATTGTCCTGCTGGAGAGGTTAAAGGATCAAACAGATGAAAAATACGCTCTTGGTTGCTGGGATCAGC
 CCCACCCCGCTCGGAGAAGGGAAGGTACAGTCCATCGGACTAGTGCAGGCGCTGACCCTCACCTGA
 AAGTCACTCCTTCGCTGTCTGAGGCAGCCTTCTCAGGGACCCACTTTTGGAGTGAAGGAGGAGCTGC
 AGGAGGTGGATATGCTCAGGTACCCCCATGGAGGAGTTCAACCTTACCTGACTGGGGACATCCATGCC
 ATCACTGCCGCTAATAACTTGTGGCCGACCCATCGACACGAGAATTTTACATGAGAGCACTCAAACAG
 ACAAGGCTCTCTACAATCGACTGGTCCCTTAGTGAATGGTGTGACAGAAATTTTCAAGAAATCAACTTTC
 TCGGCTGAAGAACTGGGATACATAAGACTGATCCAAGCACACTGACCGAGGAGGAAGTGAAGGAGTTC
 GCCCGCTCAACATTGACCCCGCAACATCACGTGGCAGAGAGTATTGGACACGAACGACCGATTCTGA
 GAAAAATAACCATTTGACAGGGAAGTACAGAGAAAGGATATTCCCGCAGGCACAGTTTGCATTGCAAT
 GGCCAGCGAGATCATGGCCGTGCTGGCCTTACTGATAGCCTCACAGACATGAAAGAGCGGCTAGGAAGA
 ATGGTGGTGGCCAGTGACAAAGACGGGCAGCCTGTGACAGCTGAGGACTTGGGGGTGACCGGCGCTCTGA
 CAGTTTGTGATGAAAGACGCCATCAAGCCAAATCTGATGCAGACCTTGAAGGAACACCTGTGTTGTGCA
 CGCTGGTCCCTTTGCCAATCGCTCACGGCAACTCATCAGTATTAGCTGATAAAATCGCGCTGAAATTG
 GTCGGCGAAGAAGGTTTGTGGTACTGAAGCTGGCTTTGGGGCTGATATTGGGATGGAGAAATTTCTTCA
 ATATCAAATGCCGAGCTTCTGGCCTGGTCCCAACGTTGTCGTGCTGGTAGCCACCGTTCGAGCTCTGAA
 GATGCATGGAGGCGGGCCGAGTGAACCTGCTGGGTTTCTTCAAGAAAGAATATACAGAGGAGAACAT
 CAGCTGGTAGCTGATGGCTGCTGCAACCTACAGAAGCAAATTCAGATCGCTCAGCTCTTCGGGGTGGCCG
 TGGTGGTGGCACTGAATGTCTTCAAGACGGACACCCGTGCAGAGATTGACTTGGTGTGTGAGCTCGCTAA
 ACGGGCCGGTGCCTTTGATGCGGTCCCCTGCTATCACTGGTGGCTGGAGGGAAGGATCTGTGGACTTG
 GCCCGGGCTGTGAGAGAAGCTGCGAATAAAAGAAGCCGCTTCCAGTTCTGTATGATGTTTCACTTCCCA
 TCGTGGAAAAGATAAGAGTATTGCCAGACTGTCTATGGAGCCAAGGACATTGAGCTGTCTCTGAGGC
 GCAGTCCAAAATCGATCGCTATACGCAACAGGGTTTTGAAAATTTGCCATTTGCATGGCGAAGACCCAC
 CTCTCTCTCTCATGAACCTGACAAAAGGGAGTGCCGAGGATTTCACTCTGCCATCAGTGTATGCC
 GGGCCAGCATCGGGCTGGGTTCAATTTATCCTTTGGTGGGAACGATGAGCACAATGCCAGGACTGCCAC
 CCGACCCTGCTTTTATGATATAGACCTTGACACAGAAACGGAGCAAGTTAAAGGCTTGTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_172308
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:	<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_172308.4 , NP_758512.3
RefSeq Size:	3731 bp
RefSeq ORF:	2934 bp
Locus ID:	270685
UniProt ID:	Q3V3R1
Cytogenetics:	10 A1
Gene Summary:	<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 (2) 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>