

Product datasheet for **MR210353**

Mthfd1l (BC030437) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd1l (BC030437) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide
Sequence:**

>MR210353 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAATGAGCTGCCCTGGGCAACACCTCAGCTTCCAGACAAGCTTCGAGAGGCAGACATTGTGGTCT
 TAGGCTCACCTAAGCCAGAAGAGATTCCTGCTGGTGGATTCCATCAGGAACCACCATTCTCAATTGCTT
 CCATGACTTCTTGTGAGGAAGCTGAGCGGAGGTTCTCCTGGGGTCCCGTGACAAAACCTATTGCAGAA
 GAGAGCGTGAGTCTCCTTGTGCGGCTCTGCGCATTGAGAACATGGTGGAGCAGCGCAGGAGGTGGCTCA
 GAGAGCAGCAACATCGAAGATGGCGACTGCACTGCTTAAAAGTGCAGCCTCTCTCACCTGTGCCAGTGA
 TATTGAGATTTCTCGAGGACAGACTCCAAAAGCTGTGGATGCTCCTTGCCAAGGAGATAGGATTGCTTGA
 GATGAAATTGAAATCTATGGCAAGAGCAAAGCCAAAGTCCAATTGTCCCTGCTGGAGAGGTTAAAGGATC
 AAACAGATGGAATAACGCTTGGTTGCTGGGATCACGCCACCCGCTCGGAGAAGGGAAGAGTACAGT
 CACCATCGGACTAGTGCAGGCGCTGACCGCTCACCTGAAAAGTCAACTCCTTCGCCTGTCTGAGGCAGCCT
 TCTCAGGGACCCACTTTTGGAGTGAAAAGGAGGAGCTGCAGGAGGTGGATATGCTCAGGTCATCCCATGG
 AGGAGTTCAACCTTACCTGACTGGGGACATCCATGCCATCACTGCCGCTAATAACTTGCTGGCCGAGC
 CATCGACACGAGAATTTTACATGAGAGCACTCAAACAGACAAGGCTCTCTACAATCGACTGGTTCCTTA
 GTGAATGGTGTGACAGAAATTTTACAGAAATCAACTTTCTCGGCTGAAGAAAAGTGGGGATACATAAGACTG
 ATCCAAGCACACTGACCGAGGAGGAAGTGGGAAGTTCGCCCCCTCAACATTGACCCCGCAACCATCAC
 GTGGCAGAGAGTATTGGACACGAACGACCGATTCTGAGAAAAATAACCATTGGACAGGGAAGTACAGAG
 AAAGGATATCCCGGCAGGCACAGTTTGACATTGCAGTGGCCAGCGAGATCATGGCCGTGCTGGCCTTGA
 CTGATAGCCTCACAGACATGAAAGAGCGGCTAGGAAGAATGGTGGTGGCCAGTGACAAAGACGGGCAGCC
 TGTGACAGCTGAGGACTTGGGGGTGACCGCGCTCTGACAGTTTTGATGAAAGACGCCATCAAGCCAAAT
 CTGATGCAGACCTTGAAGGAACACCTGTGTTGTGCATGCTGGTCCCTTTGCCAACATCGCTCACGGCA
 ACTCATCAGTATTAGCTGATAAAATCGCGCTGAAATTGGTGGCGAAGAAGGTTTGTGGTACTGAAGC
 TGGCTTTGGGGCTGATATTGGGATGGAGAAATCTTCAATATCAAATGCCGAGCTTCTGGCCTGGTGCCC
 AACGTTGCTGCTGGTAGCCACCGTTCGAGCTCTGAAGATGCATGGAGGCGGGCCGAGTGAACCTGCTG
 GGGTTCCTCTCAAGAAAGAATATACAGAGGAGAACATTGAGTGGTAGCTGATGGCTGCTGCAACCTACA
 GAAGCAAATTCAGATCGCTCAGCTTTCGGGGTCCGGTGGTGGTGGCCACTGAATGTCTTCAAGACGGAC
 ACCCGTGCAGAGATTGACTTGGTGTGTGAGCTCGCTAAACGGGCCGGTGCCTTTGATGCGGTCCCCTGCT
 ATCACTGGTCCGCTGGAGGAAAGGATCTGTGGACTTGGCCCGGGCTGTGAGAGAAGCTGCGAATAAAAG
 AAGCCGCTTCCAGTTCCTGTATGATGTTGAGCTTCCCATCGTGGAAAAGATAAGAGTCATTGCCAGACT
 GTCTATGGAGCCAAGGACATTGAGCTGTCTCCTGAGGCGCAGTCCAAAATCGATCGCTATACGCAACAGG
 GTTTTGGAAATTTGCCATTTGCATGGCGAAGACCCACCTCTCTCTCTCATGAACCTGACAAAAGGG
 AGTGCCGAGGGATTTCACTCTGCCATCAGTGTGTCCGGCCAGCATCGGGGCTGGGTTTCAATTTATCCT
 TTGGTGGGAACGATGAGCACAATGCCAGGACTGCCACCCGACCTGCTTTTATGATATAGACCTTGACA
 CAGAAACGGAGCAAGTTAAAGGCTTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210353 protein sequence
 Red=Cloning site Green=Tags(s)

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MTMSCPWATPQLPDKLREADIVVLGSPKPEEIPAAWIPSGTTILNCFHDFLSGKLSGGSPGVPVDKLI AE
ESVSLLAALRIQNMVSSGRRWLREQQHRRLHCLKLQPLSPVPSDIEISRQTPKAVDVLAKEIGLLA
DEIEIYGKSKAKVQLSLLERLKDQTDGKYVLVAGITPTPLGEGKSTVTIGLVQALTAHLKVN SFACLRQP
SQGPTFGVKGAAGGGYAQVIPMEEFNLHLTGDIIHAI TAANNLAAAIDTRILHESQTDKALYNRLVPL
VNGVREFSEIQLSRLKGLGIHKTD PSTL TEEVRKFARLNIDPATITWQRLDTNDRFLRKITIGQGSTE
KGYSRQAQFDIAVASEIMAVLAL TDSL TDMKERLGRMVVASDKDGQPVT AEDLGVGTGALTVLMKDAIKPN
LMQTLEGTPVFVHAGPFANIAHGNSSVLADKIALKLVGEEGFVVEAGFGADIGMEKFFNIKCRASGLVP
NVVVLVATVRALKMHGGGPSVTAGVPLKKEYTEENIQLVADGCCNLQKQIQIAQLFGVPPVVALNVFKTD
TRAEIDLVELAKRAGAFDAVPCYHWSAGGKGSVDLARAVREAANKRSRFQFLYDVQLPIVEKIRVIAQT
VYGAKDIELSPEAQSKIDRYTQQFGNLPICMAKTHLSLSHEPDKKGVPRDFTLPI SDVRASIGAGFIYP
LVGTMSTMPGLPTRPCFYDIDLDTETE QVKGLF
  
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC030437

ORF Size: 2199 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [BC030437](#), [AAH30437](#)

RefSeq Size: 3061 bp

RefSeq ORF: 2201 bp

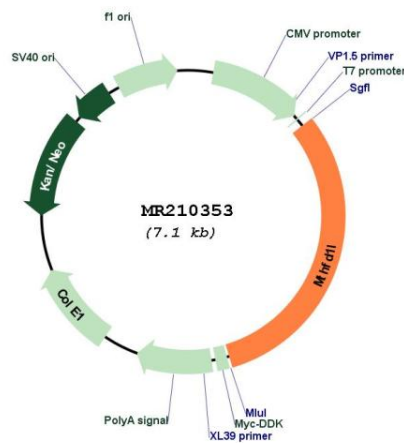
Locus ID: 270685

Cytogenetics: 10 A1

MW: 79.5 kDa

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]

Product images:



Circular map for MR210353