

Product datasheet for **SC318430**

MTHFD1L (NM_015440) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTHFD1L (NM_015440) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTHFD1L
Synonyms:	dj292B18.2; FTHFSDC1; MTC1THFS
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015440, the custom clone sequence may differ by one or more nucleotides

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ATGGGCACGCGTCTGCCGCTCGTCCTGCGCCAGCTCCGCCGCCGCCAGCCCCGGCC
CCTCCGCGCCGCTCCGTGTGCCCTGTGCGCTAGCAGCGGCGGGCGGAGGCGGGC
GGTGGCCGGGAGGGCTGCTTGGACAGCGGCGGCCAGGATGGCCAGGCCCGAGCAGC
TGCAGCCCCGGCGGCCGAACGCCCGCGGCGGGACTCCATCGTCAGAGAAGTCATTCA
AATTCAAAAGAAGTTCTAAGTTTATTGCAAGAAAAAACCTGCCCTTCAAGCCGGTCTT
GCAATTATCCAGGCAGGTGACGACAACCTTGATGCAGGAAATCAACCAGAATTTGGCTGAG
GAGGCTGGTCTGAACATCACTCACATTTGCCTCCCTCCAGATAGCAGTGAAGCCGAGATT
ATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCTTCCAGATC
TCTGAGAACTTGTAGCAACAAAGTCCTCAATGCCTTGAACCAGAAAAAGATGTGGAT
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TCACCTGTTGCCAAAGCTGTAATTGAACTTCTTAAAAATCAGGTGTCAACCTAGATGGA
AAGAAGATTTTGGTAGTGGGGCCCATGGGTCTTGGAAAGCTGCTTACAATGCCTGTT
CAGAGAAAAGGTCATGACAATGAGCATCCAGTGGAAAAACACGCCAGCTTCAAAGCAAG
CTTCACGAGGCTGACATTGTGGTCTAGGCTCACCTAAGCCAGAAGAGATTCCCCTACT
TGGATACAACCAGGAACACTGTTCTCAACTGCTCCCATGACTTCTGTGAGGAAAGTT
GGGTGTGGCTCTCCAAGAATACATTTTGGTGGACTCATTGAGGAAGATGATGTGATTCTC
TTGCTGCAGCTCTGCGAATTCAGAACATGGTCAGTAGTGAAGGAGATGGCTTCGTGAA
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ACCGCACACCTGAATGTCAACTCCTTGCCTGCTTGAAGCAGCCTTCCAAGGACCGACG
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TTCAACCTTCACTTGAAGACATCCAGCCATCACCGCTGCCAATAACTTGTGGCT
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AAAAAAGTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAAGGGAAGTGAAGTAA
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AGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGGCCAGTGACAAAAGCGGG
CAGCCTGTGACAGCAGATGATTTGGGGTGGACAGGTGCTTGGACAGTTTGTGAAAGAT
GCAATAAAACCAAACCTGATGCAGACCCGGAAGGACACCTGTGTTGTCATGCGGGC
CCTTTTGTAAACATTGCTCACGGCAACTTTCAGTGTGGCTGATAAAATGGCCGTGAAA
GTGTTGGTGAAGAAGGATTTGTAGTGACCGAAGCTGGCTTGGTGTGACATCGGAATG
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CCTCTTAAGAAAGAAATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAAC
CTCCAGAAGCAAATTCAGATCACTCAGCTCTTGGGGTCCCCTGTGGTGGCTCTGAAT
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GGTGCCTTTGATGCAGTCCCCTGCTATCACTGGTCCGTTGGTGGAAAAGGATCGGTGGAC
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GTTCAGGTTCCAATTGTGACAAGATAAAGACCATTGCTCAGGCTGTCTATGGAGCCAAA
GATATTGAACTCTCTCTGAGGCACAAGCCAAAATAGATCGTTACTCAACAGGTTTTT
GGAAATTTGCCATCTGCATGGCAAAGACCCACCTTTCTCTATCTACCAACCTGACAAA
AAAGGTGTGCAAGGACTTCATCTTACCTATCAGTGACGTCGGGCCAGCATAGGCGCT
GGGTTCAATTTACCCTTGGTTCGGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCC
TGCTTTTATGACATAGATCTTGATACCGAAACAGAAACAAGTTAAAGGCTTGTTC

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Restriction Sites:	Please inquire
ACCN:	NM_015440
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_015440.3 , NP_056255.2
RefSeq Size:	3613 bp
RefSeq ORF:	2937 bp
Locus ID:	25902
UniProt ID:	Q6UB35
Cytogenetics:	6q25.1
Domains:	FTHFS
Protein Pathways:	Glyoxylate and dicarboxylate metabolism, Metabolic pathways, One carbon pool by folate

Gene Summary:

The protein encoded by this gene is involved in the synthesis of tetrahydrofolate (THF) in the mitochondrion. THF is important in the de novo synthesis of purines and thymidylate and in the regeneration of methionine from homocysteine. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jun 2011]

Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is 1 aa shorter compared to isoform 1.