

Product datasheet for **SC116123**

MTHFS (NM_006441) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTHFS (NM_006441) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTHFS
Synonyms:	HsT19268; NEDMEHM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006441, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCGGCAGCGGTGAGCAGCGCCAAGCGGAGCCTGCGGGGAGAGCTGAAGCAGCGTCTGCGGGCGA
TGAGTGCCGAGGAGCGGCTACGCCAGTCCCGCTACTGAGCCAGAAGGTGATTGCCACAGTGAGTATCA
AAAGTCCAAAAGAATTTCCATCTTTCTGAGCATGCAAGATGAAATTGAGACAGAAGAGATCATCAAGGAC
ATTTTCCAACGAGGCAAATCTGCTTCATCCCTCGGTACCGGTTCCAGAGCAATCACATGGATATGGTGA
GAATAGAATCACCAGAGGAAATTTCTTTACTTCCAAAACATCCTGGAATATCCCTCAGCCTGGTGAGGG
TGATGTTCCGGGAGGAGGCCTTGCCACAGGGGACTTGATCTCATCTTCATGCCAGGCCTTGGGTTTGAC
AAACATGGCAACCGACTGGGGAGGGGCAAGGGCTACTATGATGCCTATCTGAAGCGCTGTTGCAGCATC
AGGAAGTGAAGCCCTACACCCTGGCGTTGGCTTTCAAAGAACAGATTTGCCTCCAGTCCAGTGAATGA
AAACGACATGAAGGTAGATGAAGTCCTTACGAAGACTCGTCAACAGCTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006441 unedited GTAACGTTCAAATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGCAGCG GTGAGCAGCGCCAAGCGGAGCCTGCGGGGAGAGCTGAAGCAGCGTCTGCGGGCGATGAGT GCCGAGGAGCGGCTACGCCAGTCCCAGTACTGAGCCAGAAGGTGCGAGGCCGCCCGTAG CGGAAGCCGCGGGCAGACAGACCTCCGAAGGCCTGGCGGCCAGCGATTGCTGATCTGTGC ATGGTGATTGCCACAGTGAGTATCAAAAGTCCAAAAGAATTTCCATCTTTCTGAGCATG CAAGATGAAATTGAGACAGAAGAGATCATCAAGGACATTTTCCAACGAGGCAAAAATCTGC TTCATCCCTCGGTACCGTTCCAGAGCAATCACATGGATATGGTGAGAATAGAATCACCA GAGGAAATTTCTTACTTCCAAAACATCCTGGAATATCCCTCAGCCTGGTGAGGGTGAT GTTCGGGAGGAGGCCTTGTCCACAGGGGACTTGATCTCATCTTCATGCCAGGCCTTGGG TTTGACAAACATGGCAACCGACTGGGGAGGGCAAGGGCTACTATGATGCCTATCTGAAG CGCTGTTTGCAGCATCAGGAAGTGAAGCCCTACACCTGGCGTTGGCTTTCAAAGAACAG ATTTGCCTCCAGTCCCAGTGAATGAAAACGACATGAAGGTAGATGAAGTCCTTTACGAA GACTCGTCAACAGCTTAAATCTGGATTACTACAGCCAAAATAATCAGTGTTTTATATGAGA GTAAAGCANAGTATGTGTATTTTTCCCTTGTCAAAAATAGTTGAAATTGTTTCATAATG TGAATACAGACTGCATTTTAAAATTGTTATTATGAAAATACTTATATAAAACCATCTTTN
Restriction Sites:	NotI-NotI
ACCN:	NM_006441
Insert Size:	970 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_006441.1 , NP_006432.1
RefSeq Size:	857 bp
RefSeq ORF:	612 bp
Locus ID:	10588
UniProt ID:	P49914
Cytogenetics:	15q25.1
Domains:	5-FTHF_cyc-lig
Protein Pathways:	Metabolic pathways, One carbon pool by folate

Gene Summary:

The protein encoded by this gene is an enzyme that catalyzes the conversion of 5-formyltetrahydrofolate to 5,10-methenyltetrahydrofolate, a precursor of reduced folates involved in 1-carbon metabolism. An increased activity of the encoded protein can result in an increased folate turnover rate and folate depletion. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

Transcript Variant: This variant (1) encodes the longer isoform (a). 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.