

Product datasheet for **SC322547**

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: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322547
AGACCGAACCCGAGGGCGCCAGGGCGCCGAGGGCGGGACTGGACTCGGCTTGGGCGTGA
GATGGCGCGCGCAGCGGTGAGCAGCGCCAAGCGTAGCCTGCGGGGAGAGCTGAAGCAGCG
TCTGCGGGCGATGAGTGCCGAGGAGCGGCTACGCCAGTCCCGCGTACTGAGCCAGAAGGT
GATTGCCACAGTGAGTATCAAAAGTCCAAAAGAATTTCCATCTTTCTGAGCATGCAAGA
TGAAATTGAGACAGAAGAGATCATCAAGGACATTTTCCAACGAGGCAAAATCTGTTCAT
CCCTCGGTACCGTTCCAGAGCAATCACATGGATATGGTGAGAATAGAATCACCAGAGGA
AATTTCTTTACTTCCAAAACATCCTGGAATATCCCTCAGCCTGGTGAGGGTGATGTTCC
GGAGGAGGCCTTGCCACAGGGGACTTGATCTCATCTTCATGCCAGGCCTTGGGTTTGA
CAAACATGGCAACCGACTGGGGAGGGCAAGGGCTACTATGATGCCTATCTGAAGCGCTG
TTTGCAGCATCAGGAAGTGAAGCCCTACACCCTGGCGTTGGCTTTCAAAGAACAGATTTG
CCTCCAGGTCCCAGTGAATGAAAACGACATGAAGGTAGATGAAGTCCTTTACGAAGACTC
GTCAACAGCTTAAATCTGGATTACTACAGCCAAATAATCAGTGTTTTATGAGAGTAAA
GCAAAGTATGTGTATTTTCCCTTGCAAAAATTAGTTGAAATTGTTTATTAAATGTGAAT
ACAGACTGCATTTTAAAATTGTAATTATGAAATACCTTATATAAAACCATCTTTAAAAAC
CAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006441

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).



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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:	<u>NM_006441.1</u> , <u>NP_006432.1</u>
RefSeq Size:	857 bp
RefSeq ORF:	612 bp
Locus ID:	10588
UniProt ID:	<u>P49914</u>
Cytogenetics:	15q25.1
Domains:	5-FTHF_cyc-lig
Protein Pathways:	Metabolic pathways, One carbon pool by folate
Gene Summary:	<p>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]</p> <p>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.</p>