

## Product datasheet for **SC203448**

### MTHFD1 (NM\_005956) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	MTHFD1 (NM_005956) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	MTHFD1
Synonyms:	CIMAH; MTHFC; MTHFD
ACCN:	NM_005956
Insert Size:	301 bp
Insert Sequence:	>SC203448 3'UTR clone of NM_005956 The sequence shown below is from the reference sequence of NM_005956. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site  GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GAAACAGAACAGGTGAATGGATTATTCTAACAGATCACCATCCATCTTCAAGAAGCTACTTTGAAAGT CTGGCCAGTGTCTATTCAGGCCCACTGGGAGTTAGGAAGTATAAGTAAGCCAAGAGAAGTCAGCCCCTG CCGAGAAGATCTGAAACTAATAGTAGGAGTTTCCCAGAAGTCATTTTCAGCCTTAATTCTCATCATGT ATAAATTAACATAAATCATGCATGTCTGTTTACTTTAGTGACGTTCCACAGAATAAAAGGAAACAAGTT TGCCATCTTGGTGTGCAATATGAA ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u><a href="#">NM_005956.4</a></u>



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**Summary:**

This gene encodes a protein that possesses three distinct enzymatic activities, 5,10-methylenetetrahydrofolate dehydrogenase, 5,10-methenyltetrahydrofolate cyclohydrolase and 10-formyltetrahydrofolate synthetase. Each of these activities catalyzes one of three sequential reactions in the interconversion of 1-carbon derivatives of tetrahydrofolate, which are substrates for methionine, thymidylate, and de novo purine syntheses. The trifunctional enzymatic activities are conferred by two major domains, an aminoterminal portion containing the dehydrogenase and cyclohydrolase activities and a larger synthetase domain. [provided by RefSeq, Jul 2008]

**Locus ID:** 4522

**MW:** 11.3