

## Product datasheet for **SC105966**

### MTHFD1L (BC008629) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | MTHFD1L (BC008629) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | MTHFD1L   |
| Synonyms:                 | dj292B18.2; DKFZp586G1517; FLJ21145; formyltetrahydrofolate synthetase domain containing 1; FTHFSDC1; methylenetetrahydrofolate dehydro; mitochondrial C1-tetrahydrofolate synthase; mitochondrial C1-tetrahydrofolate synthetase; MTC1THFS; OTTHUMP00000017418 |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for BC008629, the custom clone sequence may differ by one or more nucleotides  |

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ATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGGCCA
GTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTTTGACAGTTTTGATGAA
AGATGCAATAAAACCAACCTGATGCAGACCCTGGAAGGGACACCTGTGTCGTGCATGCGGGCCCTTTT
GCTAACATTGCTCACGGCAACTTTCAGTGTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAAG
GATTTGTAGTGACCGAAGCTGGCTTTGGTGTGACATCGGAATGGAGAAATCTTCAACATCAAGTGCCG
AGCTTCCGGCTTGGTGCCCAACGTGGTTGTGTTAGTGGCAACGGTGCGAGCTCTGAAGATGCATGGAGGC
GGGCCAAGTGTAACGGCTGGTGTTCCTCTTAAGAAAGAATATACAGAGGAGAATCCAGCTGGTGGCAG
ACGGCTGCTGTAACCTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCT
GAATGTCTTCAAGACCGACCCCGCTGAGATTGACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCC
TTTGATGCAGTCCCCTGCTATCACTGGTCGGTTGGTGGAAAAGGATCGGTGGACTTGGCTCGGGCTGTGA
GAGAGGCTGCGAGTAAAAGAAGCCGATTCCAGTTCCTGTATGATGTTCCAGTTCCAATTGTGGACAAGAT
AAGGACCATTGCTCAGGCTGTCTATGGAGCCAAAGATATTGAACTCTCTCCTGAGGCACAAGCCAAAATA
GATCGTTACACTCAACAGGGTTTTGAAAATTTGCCATCTGCATGGCAAAGACCCACCTTCTCTATCTC
ACCAACCTGACAAAAAAGGTGTGCCAAGGACTTCATCTTACCTATCAGTGACGTCGGGGCCAGCATAGG
CGCTGGGTTTCATTTACCTTTGGTTCGGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCCTGCTTT
TATGACATAGATCTTGATACCGAAACAGAACAAGTTAAAGGCTTGTCTAA

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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for BC008629 unedited</p> <p>NATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGCGAGCACACTGACAGAAAGGAAGTGAGTAAATTTGCCCGTCTCGACATCGACCCATCTACCATCACGTGGCAGAGAGTATTGGATACAAATGACCGATTCTACGAAAAATAACCATCGGGCAGGGAAACA CAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGACATCGCAGTGGCCAGCGAGATCATGG CGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGG TGGCCAGTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTTGGGGGTGACAGGTGCTT TGACAGTTTTGATGAAAGATGCAATAAAAACCAAACCTGATGCAGACCCTGGAAGGGACAC CTGTGTTTCGTGCATGCGGGCCCTTTTGCTAACATTGCTCACGGCAACTCTTCAGTGTGG CTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAAGGATTTGTAGTGACCGAAGCTGGCT TTGGTGTGACATCGAATGGAGAAATCTTCAACATCAAGTGCCGAGCTTCCGGCTTGG TGCCCAACGTGGTTGTGTAGTGGCAACGGTGCAGCTCTGAAGATGCATGGANGCGGGC CAAGTGTAAACGGCTGGGTGTCCTCTTAAGAAAGAATATACAGAGGAGAACATNCAGCTGG TGGCAGACGGCTGCTGTAACTCCAGAAGCAAATTCAGATCACTCAGCTCTTTGGGGTTC CNGTTGTGGGTGCTCTTGATGTCTTCAGACCGACACCCGCGCTGAAATGACTGGTGTGTG AGCTTGCAAAGCGCTGGTGCTTTGATGCAGTCCCTGCTTCACTGGTCCGTGGGTGAAAG GGATCGTGAACCTGGCTTGGCTGTANAAAGCTCCANTAAANAACCGATTGAGTCTCTGATGA AGTCAGGTTTCATTGGGGACAAAAGACATGGTCAGCTGTT</p> |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for BC008629 unedited</p> <p>NGGTTTAACTATGAACCCGCGGCCGCAANCTANGATCGAGTTTTTTTTTTTTTTTTTTTTT TGTTTTCTAGATCCTGTTTATTTTCAGTTCAAAAACAAAGTAGAAAACCTTGAGAGTGGA AAATGTACCTTTTAGTTCACACTCTTAATCCCTTAGTCCCATAAAAATAAACATTCTAA AGTGTAAGCAGTAGAAATAATGGAACTCCACAGAAACAGAAATAAATTAGTTTCTTTCA GTCTTGCTGGAGTCTTTTGCCGAACACCATACTCCACTGTGAACAGAAATTCATCTTGA ACGAAGAAGAAATCTTTGGCCTATTTACCATGTCTCCAGCATTGCATAACAGACATTTT TCAAATTCAGTTTCTTCCAACCTGCAGCAAAAAGGCAAAGAGTAGTCTGTTTCAGGAGT CTGCATCGGGTCTGTGAGAGCCTTGCCACTTAGAACAAGCCTTTAACTTGTCTGTTT CGGTATCAAGATCTATGTCATAAAAGCAGGGCCGGTGGGCAGTCTGGCATGGTGTCTCA TCGTTCCGACCAAGGGTAAATGAACCCAGCGCCTATGCTGGCCCGGACGTCAGTATAG GTAAGATGAAGTCCCTTGGCACACCTTTTTTGTGAGTTGGTGTAGATAGAAAAGGTGGG GTCTTTGCCATGCAGATGGGCAAATTTCCAAAACCTGTTGAGTGAACGATCTATTTTG GCTTGTGCCTCAGGAGAAGTTCAATATCTTTGGCTCCATAGACAGCCTGAGCAATGGTCC TTATCTTGTCCCAATTTGGAACCTGAACATCATACAAGGACTGGAATCGGGCTTCTTTTA CTCGCAGCCTCTCACAGCCCAGGCAAGTTCACCGATTCTTTTCCACAACGGGACAGT GATAGCAGGGGAC</p>  |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | BC008629  |
| <b>Insert Size:</b>                 | 1850 bp   |
| <b>OTI Disclaimer:</b>              | 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).  |
| <b>Components:</b>                  | 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.

**RefSeq:** [BC008629.1](#), [AAH08629.1](#)

**RefSeq Size:** 1759 bp

**RefSeq ORF:** 1101 bp

**Locus ID:** 25902

**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]