

## **Product datasheet for SC331854**

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## MTHFD1L (NM\_001242769) Human Untagged Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** MTHFD1L (NM\_001242769) Human Untagged Clone

Tag: Tag Free
Symbol: MTHFD1L

Synonyms: dJ292B18.2; FTHFSDC1; MTC1THFS

**Vector:** pCMV6-Entry (PS100001)

Fully Sequenced ORF: >SC331854 representing NM\_001242769.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

**Restriction Sites:** Sgfl-Rsrll

**ACCN:** NM 001242769

Insert Size: 828 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:** 

- 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.

**RefSeg:** NM 001242769.1

 RefSeq Size:
 1072 bp

 RefSeq ORF:
 828 bp

 Locus ID:
 25902

 UniProt ID:
 Q6UB35

 Cytogenetics:
 6q25.1

**Protein Pathways:** Glyoxylate and dicarboxylate metabolism, Metabolic pathways, One carbon pool by folate

MW: 29.8 kDa

**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 (4) differs in the 3' UTR and coding sequence and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (4) has a shorter and distinct C-terminus and lacks a single internal aa

compared to isoform 1. Isoform 4 is thought to lack THF synthase activity.