

Product datasheet for **RC233170**

MTHFD1L (NM_001242768) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTHFD1L (NM_001242768) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTHFD1L
Synonyms:	dj292B18.2; FTHFSDC1; MTC1THFS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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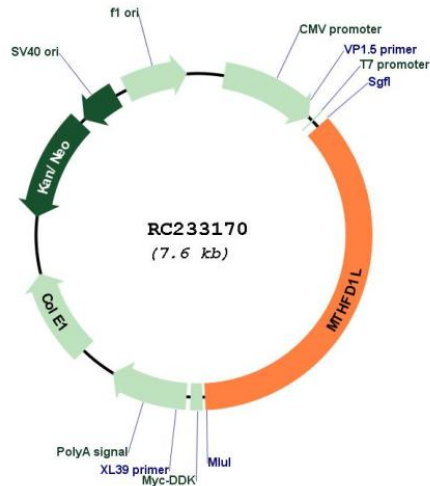
ORF Nucleotide Sequence:

>RC233170 representing NM_001242768
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAATCGCGCCGGGCGGACCCAGACGAGAAGTCAATCAGAATCAAAGAAGTTCTAAGTTTATTGC
 AAGAAAAAACCCCTGCCTTCAAGCCGGTCTTGAATTATCCAGGCAGGTGACGACAACCTTGATGCAGGA
 AATCAACCAGAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCTCCCTCCAGATAGCAGT
 GAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCCTCAGA
 TCTCTGAGAACTGTTTAGCAACAAAGTCTCAATGCCTTGAACCAGAAAAAGATGTGGATGGAGTAAC
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 GGCTTGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Plasmid Map:


ACCN: NM_001242768

ORF Size: 2739 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

RefSeq: [NM_001242768.1](#), [NP_001229697.1](#)

RefSeq Size: 3174 bp

RefSeq ORF: 2742 bp

Locus ID: 25902

UniProt ID: [Q6UB35](#)

Cytogenetics: 6q25.1

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

MW: 99.8 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]