

## Product datasheet for **RC228845**

### MTHFSD (NM\_001159380) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: MTHFSD (NM\_001159380) Human Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: MTHFSD  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >RC228845 representing NM\_001159380  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATCACAAAATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACTTTAAGGGTCTT  
ATCTGGCTTGCCAAAACATCAAAGACCTAGACGTTTTTGCAGAACACAGGAAGTTAAAGTGACCCCTGA  
TAAACCACTGGAAGGCGTTCCGGCTGCTGGTGTGCAGAGCAAAAAACATTGTTGGTTCCAACACCACGA  
CTGAGAACGGGATTGTTAATAAGATCACACCACCCCTGGGGCACTAAAGACATCTTGAGAAAATGTG  
CCACCTCTCAGGGTGTGAGGAACACAGTGTCCCATAGGCTTGGACTCCAGAGTCCCTCGTGGATTTAGT  
TGTGGTGGGATCCGTCGCGTTTTCTGAAAAAGGCTGGAGAATCGGGAAGGAGAAGGCTACGCCGATCTG  
GAATATGCCATGATGGTATCCATGGGCGCCGTAGCAAGGAGACGCCGGTGGTACCATCGTCCACGACT  
GCCAGGTCGTGGACATCCCTGAAGAGCTTGTGAGGAGCACGACATCACTGTGGACTACATCCTCACTCC  
AACCAGAGTCATCGCCACAGGCTGCAAGCGCCCAAAGCCAATGGGAATCACCTGGTTCAAGATCAGCCTG  
GAGATGATGGAGAAAATCCCATACTGAGGAGCCTCCGCGCCGAGAGCAGCAGGCTGGGAAGGATGTCA  
CCCTCCAGGGTGAGCACCAGCACCTTCCGGAACCAGGCTGCCAGCAGACAGTGCCCTGAGTGTGGCAG  
GAGGCCCGGACACCCCGACCAGAAACCAATTCATGGAGGACGCCCTGGCTCCCAACCAGGGGAG  
GGTGCCCGCTTGACGCCGATGTTTACGTTGGAACTCCCGGGGACGCCCGTGTGAGTGACCTGAAGA  
GAGCCCTGCGGGAACCTCGCTCCGTGCCCTGCGGCTACCTGGCAGGGCCCGCGGCGCAGAGCCTTCT  
CCATTACCCGACTCTGCCGAGCCAGCAGGCCGTCTCCTGCTTGCAGGGCCTGCGCCTGGGCACCCGAC  
ACCTGAGGGTGGCGCTGGCCAGGCAGCAGAGGGACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



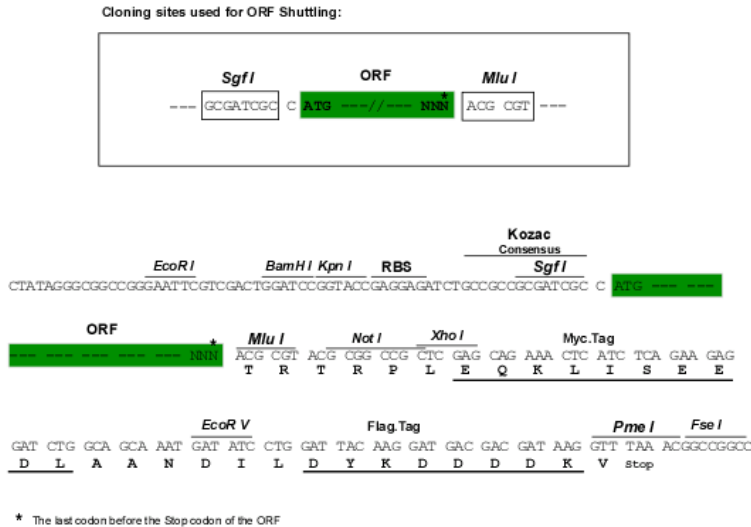
**Protein Sequence:** >RC228845 representing NM\_001159380  
Red=Cloning site Green=Tags(s)

MESQNLADFPRPVHHRIPNFKGSYLACQNIKDLDFVARTQEVKVDPKPLEGVRLVLVLSKKTLLVPTPR  
 LRTGLFNKITPPPGATKDILRKCATSQGVNYSVPIGLDSRVLVDL VVVGSVAVSEKGWRIKKGEGYADL  
 EYAMMVSMGAVSKETPVVTIVHDCQVVDIPEELVEEHDITVDYILTPTRVIATGCKRPMGITWFKISL  
 EMMEKIPILRSLRAREQQAGKDVTLQGEHQHLEPPGCGQQTVPVLSVGRPPDTPGPEPNSMEAAPGSPPGE  
 GAPLAADVYVGNLPGDARVSDLKRALRELGSVPLRLTWQGP RRRAFLHYPD SAAAQAVSCLQGLRLGTD  
 TLRVALARQQRDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001159380

**ORF Size:** 1089 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\\_001159380.2](#)

**RefSeq Size:** 3002 bp

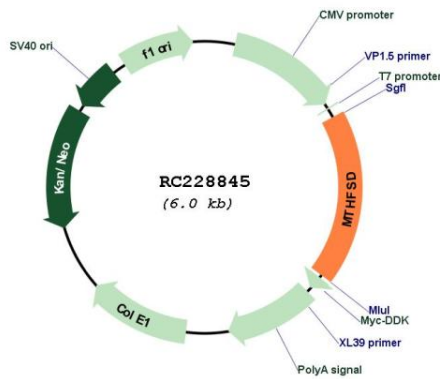
**RefSeq ORF:** 1092 bp

**Locus ID:** 64779

**Cytogenetics:** 16q24.1

**MW:** 40.3 kDa

**Product images:**



Circular map for RC228845