

Product datasheet for **RC228866**

MTHFSD (NM_001159378) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MTHFSD (NM_001159378) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MTHFSD
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC228866 representing NM_001159378
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGAGGGCAGTAGGTGTCTCCAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCAC
AAAATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACTTTAAGGGCGCTTCTCATGCTGC
CGAGCAACTCCCACGCTTGCAGGCGTTCAAACCGGCCAGGACATTAAAGTAAATCCTGATGCCCCCGAG
AAAAGTGCCTCGCTTCTTGTCTTCAAAGCAAAAAACATTGTTGGTTCCAACACCACGACTGAGAACGG
GATTGTTTAATAAGATCACACCACCCCTGGGGCAACTAAAGACATCTTGAGAAAATGTGCCACCTCTCA
GGGTGTGAGGAACTACAGTGTCCCATAGGCTTGGACTCCAGAGTCCTCGTGGATTTAGTTGTGGTGGGA
TCCGTCGCGCTTCTGAAAAAGGCTGGAGAATCGGGAAGGGAGAAGGCTACGCCGATCTGGAATATGCCA
TGATGGTATCCATGGGCGCCGTAGCAAGGAGACGCCGGTGGTCACCATCGTCCACGACTGCCAGGTCGT
GGACATCCCTGAAGAGCTTGTGAGGAGCAGACATCACTGTGGACTACATCCTCACTCCAACCAGATC
ATCGCCACAGGCTGCAAGCGCCAAAGCCAATGGGAATCACCTGGTTCAAGATCAGCCTGGAGATGATGG
AGAAAATCCCATACTGAGGAGCCTCCGCGCCGAGAGCAGCAGGCTGGGAAGGATGTCACCTCCAGGG
TGAGCACCAGCACCTCCGGAACCAGGCTGCCAGCAGACAGTGCCCTGAGTGTGGCAGGAGGCCCCCG
GACACACCCGGACCAGAAACCAATTCATGGAGGACGCCCTGGCTCCCAACAGGGGAGGGTGCCCCGC
TTGAGCCGATGTTTACGTTGGGAACCTCCCGGGGACGCCCGTGTGAGTGACCTGAAGAGAGCCCTGCG
GGAAGTCCGCTCCGTCGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCGCAGAGCCTTCTCCATTACCCG
GACTCTGCCGAGCCAGCAGGCCGTCTCCTGCTTGCAGGGCCTGCGCCTGGGCACCGACACCCTGAGGG
TGGCGCTGGCCAGGCAGCAGAGGGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC228866 representing NM_001159378
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MEPRAVGVSKQDIREQIWGYMESQNLADFPRPVHHRIPNFKGASHAAEQLPRLQAFKTARTIKVNPDAQ
 KSARFFVLESKKTLLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVRNYSVPIGLDSRVLVDLVVVG
 SVAVSEKGRWIRIGKEGYADLEYAMMVSMGAVSKETPVVTIVHDCQVVDIPEELVEEHDITVDYILTPTRV
 IATGCKRPMGIWFKISLEMMEKIPILRSLRAREQQAGKDVTLQGEHQHLEPEGCQQTVPLSVGRPPP
 DTPGPETNSMEAAPGSPGEGAPLAADVYVGNLPGDARVSDLKRALRELGSVPLRLTWQGP RRRAFLHYP
 DSAAAQAVSCLQGLRLGDTLRLVALARQQRDK

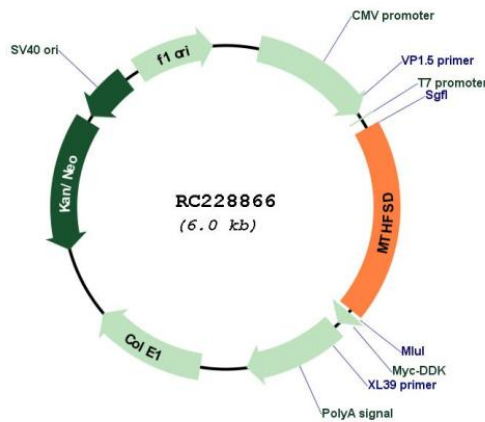
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001159378

ORF Size:	1149 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001159378.2
RefSeq Size:	3038 bp
RefSeq ORF:	1152 bp
Locus ID:	64779
UniProt ID:	Q2M296
Cytogenetics:	16q24.1
MW:	42.1 kDa