

Product datasheet for **RG228866**

MTHFSD (NM_001159378) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTHFSD (NM_001159378) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTHFSD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228866 representing NM_001159378 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGAGGGCAGGTGTCTCCAAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCACAAA
ATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACCTTAAGGGCGCTTCTCATGCTGCCGA
GCAACTCCCACGCTTGCAGGCGTTCAAACGGCCAGGACCATTAAAGTAAATCCTGATGCCCCCAGAAA
AGTGCTCGCTTCTTCGTCCTTGAAAGCAAAAAACATTGTTGGTTCCAACACCACGACTGAGAACGGGAT
TGTTTAATAAGATCACACCACCCCTGGGGCACTAAAGACATCTTGAGAAAATGTCCACCTCTCAGGG
TGTGAGGAACTACAGTGTCCCCATAGGCTTGGACTCCAGAGTCCTCGTGGATTTAGTTGTGGTGGGATCC
GTCGCCGTTTCTGAAAAAGGCTGGAGAATCGGGAAGGGAGAAGGCTACGCCGATCTGGAATATGCCATGA
TGGTATCCATGGGCGCCGTGAGCAAGGAGACGCCGGTGGTACCATCGTCCACGACTGCCAGGTCGTGGA
CATCCCTGAAGAGCTTGTGAGGAGCAGCAGATCACTGTGGACTACATCCTCACTCCAACCAGAGTCATC
GCCACAGGCTGCAAGCGCCCAAAGCCAATGGGAATCACCTGGTTCAAGATCAGCCTGGAGATGATGGAGA
AAATCCCATACTGAGGAGCCTCCGCGCCGAGAGCAGCAGGCTGGGAAGGATGTCACCTCCAGGGTGA
GCACCAGCACCTCCGGAACCAGGCTGCCAGCAGACAGTCCCCCTGAGTGTGGCAGGAGGCCCCCGGAC
ACACCCGACCAGAAACCAATTCATGGAGGCAGCCCCTGGCTCCCCACCAGGGGAGGGTGCCCCGCTTG
CAGCCGATGTTTACGTTGGGAACCTCCCCCGGGACGCCCGTGTGAGTGACCTGAAGAGAGCCTGCGGGA
ACTCGGCTCCGTGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCCAGAGCCTTCTCCATTACCCGGAC
TCTGCCGAGCCAGCAGGCCGTCTCTGCTTGCAGGGCCTGCGCCTGGGCACCGACACCCTGAGGGTGG
CGTGGCCAGGCAGCAGAGGGACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228866 representing NM_001159378
Red=Cloning site Green=Tags(s)

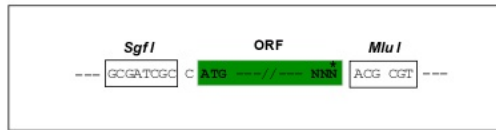
```
MEPRAGVSKQDIREQIWGYMESQNLADFP RPVHHRIPNFKGASHAAEQLPRLQAFK TARTIKVNPDPQK
SARFFVLESKKTLLVPTPRLRTGLFNKI TPPP GATKDILRKCATSQGV RNYSVPIGLDSRVLVDL VVVGS
VAVSEKGWRIGKGEYADLEYAMMVSMGAVSKETPVVTI VHDCQVVDIPEELVEEHDI TVDYILTPTRVI
ATGCKRPKPMGITWFKISLEMMEKIPILRSLRAREQQAGKDVT LQGEHQHLP EPGCQQT VPLSVGRRPPD
TPGPETNSMEAAPGSPPEGAPLAADVYVGNLPRDARVSD LKRALRELGSVPLRL TWQGPRRRRAFLHYPD
SAAAQAVSCLQGLRLGTDTLRVALARQQRDK
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001159378

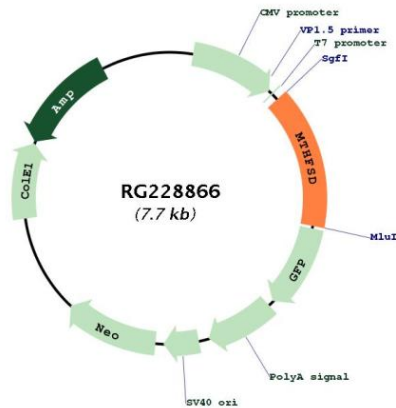
ORF Size: 1149 bp

OTI Disclaimer: 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.

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_001159378.1](#), [NP_001152850.1](#)
- RefSeq Size:** 3038 bp
- RefSeq ORF:** 1152 bp
- Locus ID:** 64779
- UniProt ID:** [Q2M296](#)
- Cytogenetics:** 16q24.1

Product images:



Circular map for RG228866