

Product datasheet for **RG228845**

MTHFSD (NM_001159380) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MTHFSD (NM_001159380) 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: >RG228845 representing NM_001159380
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGAGGGCAGTAGGTGTCTCCAAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCAC
AAAATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACCTTAAGGGTCTTATCTGGCTTG
CCAAAACATCAAAGACCTAGACGTTTTTCCAGAACACAGGAAGTTAAAGTGGACCCTGATAAACCACTG
GAAGGCGTTCGGCTGCTGGTGCAGAGCAAAAAACATTGTTGGTCCAACACCACGACTGAGAACGG
GATTGTTAATAAGATCACACCACCCCTGGGGCACTAAAGACATCTTGAGAAAATGTCCACCTCTCA
GGGTGTGAGGAACTACAGTGTCCCATAGGCTTGGACTCCAGAGTCCTCGTGGATTTAGTTGTGGTGGGA
TCCGTCGCGCTTTCTGAAAAAGGCTGGAGAATCGGGAAGGGAGAAGGCTACGCCGATCTGGAATATGCCA
TGATGGTATCCATGGGCGCCGTGAGCAAGGAGACGCCGGTGGTACCATCGTCCACGACTGCCAGGTCGT
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ATCGCCACAGGCTGCAAGCGCCAAAGCCAATGGGAATCACCTGGTCAAGATCAGCCTGGAGATGATGG
AGAAAATCCCCATACTGAGGAGCCTCCGCGCCGAGAGCAGCAGGCTGGGAAGGATGTCACCTCCAGGG
TGAGCACCAGCACCTCCGGAACCAGGCTGCCAGCAGACAGTCCCCTGAGTGTGGCAGGAGGCCCCCG
GACACACCCGGACCAGAAACCAATTCATGGAGGCAGCCCTGGTCCCCACCAGGGGAGGGTGCCCGC
TTGCAGCCGATGTTACGTTGGGAACCTCCCCGGGACGCCCGTGTGAGTGACCTGAAGAGAGCCCTGCG
GAACTCGGCTCCGTGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCGCAGAGCCTTCTCCATTACCCG
GACTCTGCCGAGCCAGCAGGCCGTCTCTGCTTGCAGGGCCTGCGCCTGGGCACCGACACCCTGAGGG
TGGCGCTGGCCAGGCAGCAGAGGGACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228845 representing NM_001159380
Red=Cloning site Green=Tags(s)

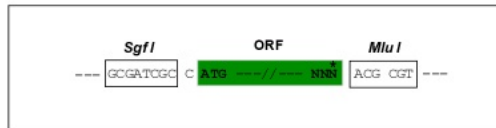
MEPRAVGVSKQDIREQIWGYMESQNLADFPRPVHHRIPNFKGSYLACQNIKDLDFVARTQEVKVDPKPL
 EGVRLLVLSKKTLLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVRNYSVPIGLDSRVLVDLVVVG
 SVAVSEKWRIGKGEYADLEYAMMVSMGAVSKETPVVTVVHDCQVVDIPEELVEEHITVDYILTPTRV
 IATGCKRPKPMGIWFKISLEMMEKIPILRSLRAREQQAGKDVTLQGEHQHLEPEGCQQT VPL SVGRRRP
 DTPGPETNSMEAAPGSPPEGAPLAADVYVGNLPRDARVSDLKRALRELGSVPLRLTWQGPRRRAFLHYP
 DSAAAQAVSCLQGLRLGTDTLRVALARQQRDK

TRTRPLE - GFP Tag - V

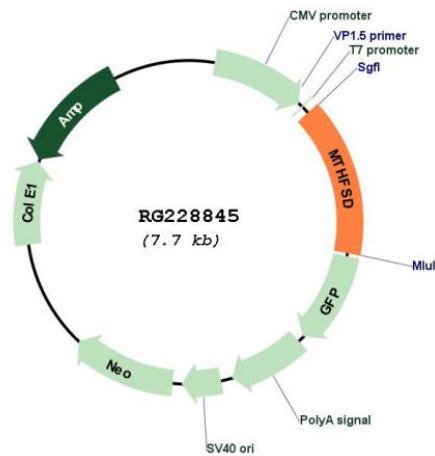
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<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_001159380.1 , NP_001152852.1
RefSeq Size:	3002 bp
RefSeq ORF:	1092 bp
Locus ID:	64779
Cytogenetics:	16q24.1