

Product datasheet for **RG228864**

MTHFSD (NM_001159379) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: MTHFSD (NM_001159379) 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: >RG228864 representing NM_001159379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCGAGGGCAGTAGGTGTCTCCAAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCAC
 AAAATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACCTTAAGGGCGCTTCTCATGCTGC
 CGAGCAACTCCCACGCTTGCAGGCGTTCAAACCGCCAGGACCATTAAAGTAAATCCTGATGCCCCAG
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 GATTGTTAATAAGATCACACCACCCCTGGGGCAACTAAAGACATCTTGAGAAAATGTCCACCTCTCA
 GGGTGTGAGGAACTACAGTGTCCCATAGGCTTGGACTCCAGAGTCCTCGTGGATTTAGTTGTGGTGGGA
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 GGACATCCCTGAAGAGCTTGTGAGGAGCAGACATCACTGTGGACTACATCCTCACTCCAACCAGAGTC
 ATCGCCACAGGCTGCAAGCGCCAAAGCCAATGGGAATCACCTGGTTCAAGATCAGCCTGGAGATGATGG
 AGAAAATCCCCATACTGAGGAGCCTCTGCACCCGAGAGCAGCAGGCTGGGAAGGATGTCACCTCCAGGG
 TGAGCACCAGCACCTTCCGGAACCAGGCTGCCAGCAGACAGTCCCCTGAGTGTGGCAGGAGGCCCCCG
 GACACACCCGGACCAGAAACCAATTCATGGAGGCAGCCCTGGCTCCCCACCAGGGGAGGGTGCCCGC
 TTGCAGCCGATGTTTACGTTGGGAACCTCCCCGGGACGCCCGTGTGAGTGACCTGAAGAGAGCCCTGCG
 GAACTCGGCTCCGTGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCGCAGAGCCTTCTCCATTACCCG
 GACTCTGCCGAGCCAGCAGGCCGTCTCTGCTTGCAGGGCCTGCGCCTGGGCACCGACACCCTGAGGG
 TGGCGCTGGCCAGGCAGCAGAGGGACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228864 representing NM_001159379
Red=Cloning site Green=Tags(s)

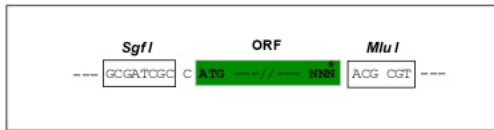
MEPRAVGVSKQDIREQIWGYMESQNLADFPRPVHHRIPNFKGASHAAEQLPRLQAFKTARTIKVNPDAQ
 KSARFFVLESKKTLLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVRNYSVPIGLDSRVLVDLVVVG
 SVAVSEKWRIGKGEYADLEYAMMVSMGAVSKETPVVTIVHDCQVVDIPEELVEEHITVDYIILTPTRV
 IATGCKRPKPMGIWFKISLEMMEKIPILRSLCTREQQAGKDVTLQGEHQHLPPEGCQQT VPLSVGRRPP
 DTPGPETNSMEAAPGSPPEGAPLAADVYVGNLPRDARVSDLKRALRELGSVPLRLTWQGPRRRAFLHYP
 DSAAAQAVSCLQGLRLGTDTLRVALARQQRDK

TRTRPLE - GFP Tag - V

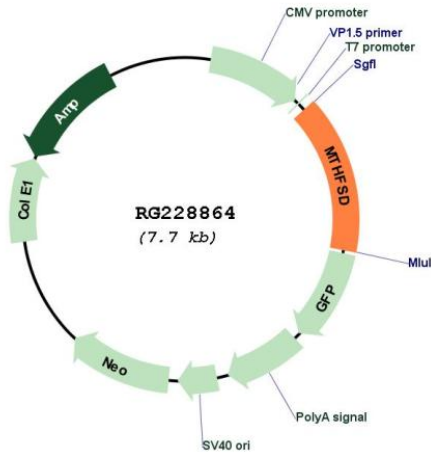
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001159379

ORF Size:	1146 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_001159379.1 , NP_001152851.1
RefSeq Size:	3035 bp
RefSeq ORF:	1149 bp
Locus ID:	64779
Cytogenetics:	16q24.1