

Product datasheet for **RG228865**

MTHFSD (NM_001159377) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: MTHFSD (NM_001159377) 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: >RG228865 representing NM_001159377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCGAGGGCAGTAGGTGTCTCCAAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCAC
 AAAATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACCTTAAGGGTCTTATCTGGCTTG
 CCAAAACATCAAAGACCTAGACGTTTTTGGCAGAACACAGGAAGTTAAAGTGGACCCTGATAAACCACTG
 GAAGGCGTTCGGCTGCTGGTGTGCAGAGCAAAAAACATTGTTGGTCCAACACCACGACTGAGAACGG
 GATTGTTAATAAGATCACACCACCCCTGGGGCACTAAAGACATCTTGAGAAAATGTCCACCTCTCA
 GGGTGTGAGGAACTACAGTGTCCCATAGGCTTGGACTCCAGAGTCCCTCGTGGATTTAGTTGTGGTGGGA
 TCCGTCGCGCTTTCTGAAAAAGGCTGGAGAATCGGGAAGGGAGAAGGCTACGCCGATCTGGAATATGCCA
 TGATGGTATCCATGGGCGCCGTGAGCAAGGAGACGCCGGTGGTACCATCGTCCACGACTGCCAGGTCGT
 GGACATCCCTGAAGAGCTTGTGAGGAGCAGACATCACTGTGGACTACATCCTCACTCCAACCAGAGTC
 ATCGCCACAGGCTGCAAGCGCCAAAGCCAATGGGAATCACCTGGTTCAGATCAGCCTGGAGATGATGG
 AGAAAATCCCATACTGAGGAGCCTCCGCGCCGAGAGCAGCAGGCTGGGAAGGATGTCACCTCCAGGG
 TGAGCACCAGCACCTTCGGAACCAGGCTGCCAGCAGACAGTCCCCTGAGTGTGGCAGGAGGCCCCCG
 GACACACCCGGACCAGAAACCAATTCATGGAGGCAGCCCTGGCTCCCCACCAGGGGAGGGTGCCCGC
 TTGCAGCCGATGTTACGTTGGGAACCTCCCCGGGACGCCCGTGTGAGTGACCTGAAGAGACCCCTGCG
 GAACTCGGCTCCGTGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCGCAGAGCCTTCTCCATTACCCG
 GACTCTGCCGAGCCAGCAGGCCGTCTCTGCTTGCAGGGCCTGCGCCTGGGCACCGACACCCTGAGGG
 TGGCGCTGGCCAGGCAGCAGAGGGACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228865 representing NM_001159377
Red=Cloning site Green=Tags(s)

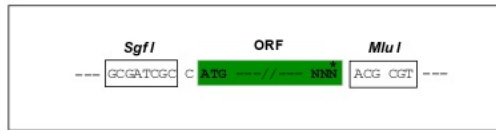
MEPRAVGVSKQDIREQIWGYMESQNLADFPRPVHHRIPNFKGSYLACQNIKDLDFVARTQEYKVDPKPL
 EGVRLLVLSKKTLLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVRNYSVPIGLDSRVLVDLVVVG
 SVAVSEKWRIGKGEYADLEYAMMVSMGAVSKETPVVTIVHDCQVVDIPEELVEEHITVDYIILTPTRV
 IATGCKRPKPMGITWFKISLEMMEKIPILRSLRAREQQAGKDVTLQGEHQHLEPEGCQQTIVPLSVGRPP
 DTPGPETNSMEAAPGSPPGEGAPLAADVYVGNLPRDARVSDLKRALRELGSVPLRLTWQGPERRAFLLHYP
 DSAAAQAVSCLQGLRLGTDTLRVALARQQRDK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001159377

ORF Size: 1149 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_001159377.1](#), [NP_001152849.1](#)

RefSeq Size: 3038 bp

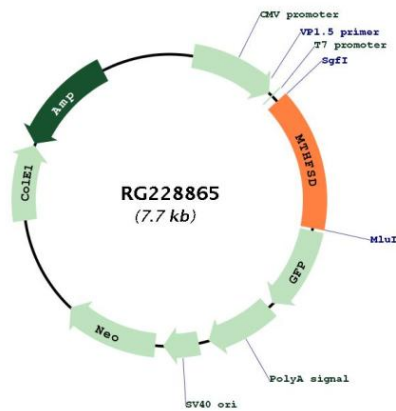
RefSeq ORF: 1152 bp

Locus ID: 64779

UniProt ID: [Q2M296](#)

Cytogenetics: 16q24.1

Product images:



Circular map for RG228865