

Product datasheet for **RG211312**

MTHFSD (NM_022764) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: MTHFSD (NM_022764) 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: >RG211312 representing NM_022764
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCGAGGGCAGTAGGTGTCTCCAAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCAC
 AAAATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACCTTAAGGGGTCTTATCTGGCTTG
 CCAAAACATCAAAGACCTAGACGTTTTTCCAGAACACAGGAAGTTAAAGTGGACCCTGATAAACCACTG
 GAAGGCGTTCGGCTGCTGGTGCAGAGCAAAAAACATTGTTGGTCCAACACCACGACTGAGAACGG
 GATTGTTAATAAGATCACACCACCCCTGGGGCAACTAAAGACATCTTGAGAAAATGTCCACCTCTCA
 GGGTGTGAGGAACTACAGTGTCCCATAGGCTTGGACTCCAGAGTCCTCGTGGATTTAGTTGTGGTGGGA
 TCCGTCGCCGTTTCTGAAAAAGGCTGGAGAATCGGGAAGGGAGAAGGCTACGCCGATCTGGAATATGCCA
 TGATGGTATCCATGGCGCCGTCAGCAAGGAGACGCCGGTGGTACCATCGTCCACGACTGCCAGGTCGT
 GGACATCCCTGAAGAGCTTGTGAGGAGCAGACATCACTGTGGACTACATCCTCACTCCAACCAGAGTC
 ATCGCCACAGGCTGCAAGCGCCAAAGCCAATGGGAATCACCTGGTCAAGATCAGCCTGGAGATGATGG
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 TGAGCACCAGCACCTCCGGAACCAGGCTGCCAGCAGACAGTCCCCTGAGTGTGGCAGGAGGCCCCCG
 GACACACCCGGACCAGAAACCAATTCATGGAGGCAGCCCTGGTCCCCACCAGGGGAGGGTGCCCGC
 TTGCAGCCGATGTTACGTTGGGAACCTCCCCGGGACGCCGCTGTGAGTGACCTGAAGAGACCCCTGCG
 GAACTCGGCTCCGTGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCGCAGAGCCTTCTCCATTACCCG
 GACTCTGCCGAGCCAGCAGGCCGTCTCTGCTTGCAGGGCCTGCGCCTGGGCACCGACACCCTGAGGG
 TGGCGCTGGCCAGGCAGCAGAGGGACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211312 representing NM_022764
Red=Cloning site Green=Tags(s)

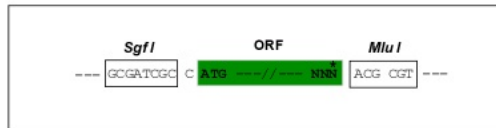
MEPRAVGVSKQDIREQIWGYMESQNLADFPRPVHHRIPNFKGSYLACQNIKDLDFVARTQEVKVDPKPL
 EGVRLLVLSKKTLLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVRNYSVPIGLDSRVLVDLVVVG
 SVAVSEKWRIGKGEYADLEYAMMVSMGAVSKETPVVTIVHDCQVVDIPEELVEEHITVDYIILTPTRV
 IATGCKRPKPMGIWFKISLEMMEKIPILRSLRAREQQAGKDVTLQGEHQHLEPEPGCQQTVPLSVGRRPP
 DTPGPETNSMEAAPGSPPEGAPLAADVYVGNLPRDARVSDLKRALRELGSVPLRLTWQGPRRRAFLHYP
 DSAAAQQAVSCLQGLRLGTDTLRVALARQQRDK

TRTRPLE - GFP Tag - V

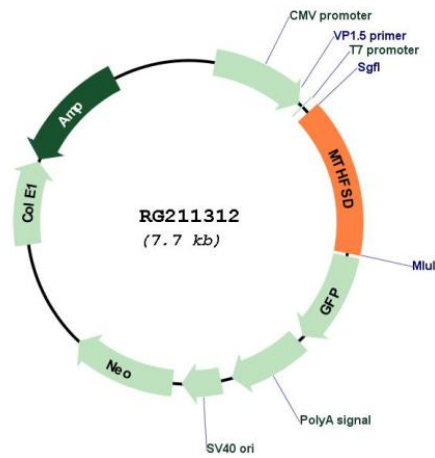
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_022764

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_022764.2 , NP_073601.2
RefSeq Size:	3059 bp
RefSeq ORF:	1149 bp
Locus ID:	64779
UniProt ID:	Q2M296
Cytogenetics:	16q24.1
Domains:	5-FTHF_cyc-lig