

## Product datasheet for RC211312

### MTHFSD (NM\_022764) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTHFSD (NM_022764) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MTHFSD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211312 representing NM_022764 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCGAGGGCAGGTGTCTCCAAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCACAAA  
ATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACCTTAAGGGTCTTATCTGGCTTGCCA  
AAACATCAAAGACCTAGACGTTTTTCCAGAACACAGGAAGTTAAAGTGGACCCTGATAAACCCTGGAA  
GGCGTTCCGGCTGCTGGTGTGCAGAGCAAAAAACATTGTTGGTTCCAACACCACGACTGAGAACGGGAT  
TGTTAATAAGATCACACCACCCCTGGGGCACTAAAGACATCTTGAGAAAATGTCCACCTCTCAGGG  
TGTGAGGAACACAGTGTCCCATAGGCTTGGACTCCAGAGTCCCTCGTGATTTAGTTGTGGTGGGATCC  
GTCGCCGTTTCTGAAAAAGGCTGGAGAATCGGGAAGGAGAAGGCTACGCCGATCTGGAATATGCCATGA  
TGGTATCCATGGGCGCCGTGAGCAAGGAGACGCCGGTGGTACCATCGTCCACGACTGCCAGGTCGTGGA  
CATCCCTGAAGAGCTTGTGAGGAGCAGCAGATCACTGTGGACTACATCCTCACTCCAACCAGAGTCATC  
GCCACAGGCTGCAAGCGCCCAAAGCCAATGGGAATCACCTGGTTCAAGATCAGCCTGGAGATGATGGAGA  
AAATCCCATACTGAGGAGCCTCCGCGCCCGAGAGCAGCAGGCTGGGAAGGATGTCACCTCCAGGGTGA  
GCACCAGCACCTCCGGAACCAGGCTGCCAGCAGACAGTCCCCGTGAGTGTGGCAGGAGGCCCGGGAC  
ACACCCGACCAGAAACCAATTCATGGAGGCAGCCCTGGCTCCCCACCAGGGGAGGGTGCCCCGCTTG  
CAGCCGATGTTTACGTTGGGAACCTCCCGGGGACGCCCGTGTGAGTGACCTGAAGAGAGCCTGCCGGGA  
ACTCGGCTCCGTGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCCAGAGCCTTCTCCATTACCCGGAC  
TCTGCCGAGCCAGCAGGCCGTCTCTGCTTGCAGGGCCTGCGCCTGGGCACCGACACCCTGAGGGTGG  
CGTGGCCAGGCAGCAGAGGGACAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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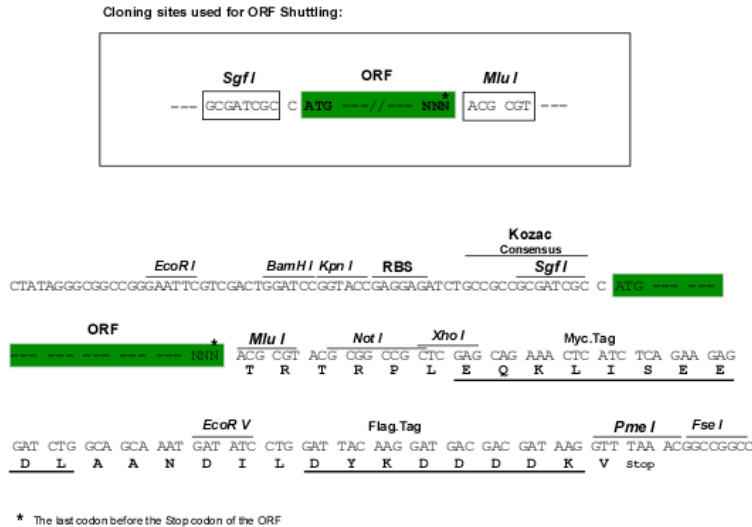
**Protein Sequence:** >RC211312 representing NM\_022764  
Red=Cloning site Green=Tags(s)

MEPRAGVSKQDIREQIWGYMESQNLADFP RPVHHRIPNFKG SYLACQNIKDLDFARTQEVKVDPKPLE  
 GVRLLVLQSKKTLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVNRYSVPIGLDSRVLVDL VVVGS  
 VAVSEKGWRIGKGEYADLEYAMMVSMGAVSKETPVVTIVHDCQVVDIPEELVEEHDI TVDYILTPTRVI  
 ATGCKRPKPMGITWFKISLEMMEKIPILRSLRAREQQAGKDVTLQGEHQHLP EPGCQQT VPLSVGRRPPD  
 TPGPETNSMEAAPGSPPEGAPLAADVYVGNLPGDARVSDLKRALRELGSVPLRLTWQ GPRRRRAFLHYPD  
 SAAAQAVSCLQGLRLGTDTLRVALARQQRDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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:**
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\\_022764.3](#)

**RefSeq Size:** 3059 bp

**RefSeq ORF:** 1149 bp

**Locus ID:** 64779

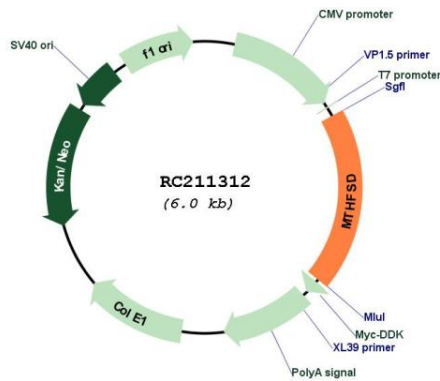
**UniProt ID:** [Q2M296](#)

**Cytogenetics:** 16q24.1

**Domains:** 5-FTHF\_cyc-lig

**MW:** 42.1 kDa

**Product images:**



Circular map for RC211312