

Product datasheet for **RC228864**

MTHFSD (NM_001159379) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTHFSD (NM_001159379) 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:	>RC228864 representing NM_001159379 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGAGGGCAGGTGTCTCCAAACAGGACATACGTGAACAAATTTGGGGCTACATGGAATCACAAA
ATTTAGCTGACTTTCCCGACCTGTTTCATCACAGGATACCCAACCTTAAGGGCGCTTCTCATGCTGCCGA
GCAACTCCCACGCTTGCAGGCGTTCAAACCGCCAGGACCATTAAAGTAAATCCTGATGCCCCCAGAAA
AGTGCTCGCTTCTCGTCCTTGAAGCAAAAAACATTGTTGGTTCCAACACCACGACTGAGAACGGGAT
TGTTTAATAAGATCACACCACCCCTGGGGCAACTAAAGACATCTTGAGAAAATGTCCACCTCTCAGGG
TGTGAGGAACTACAGTGTCCCATAGGCTTGGACTCCAGAGTCCCTCGTGATTTAGTTGTGGTGGGATCC
GTCGCCGTTTCTGAAAAAGGCTGGAGAATCGGGAAGGGAGAAGGCTACGCCGATCTGGAATATGCCATGA
TGGTATCCATGGGCGCCGTGAGCAAGGAGACGCCGGTGGTACCATCGTCCACGACTGCCAGGTCGTGGA
CATCCCTGAAGAGCTTGTGAGGAGCACGACATCACTGTGGACTACATCCTCACTCCAACAGAGTCATC
GCCACAGGCTGCAAGCGCCCAAAGCCAATGGGAATCACCTGGTTCAAGATCAGCCTGGAGATGATGGAGA
AAATCCCATACTGAGGAGCCTCCGCGCCGAGAGCAGCAGGCTGGGAAGGATGTCACCTCCAGGGTGA
GCACCAGCACCTCCGGAACCAGGCTGCCAGCAGACAGTCCCCCTGAGTGTGGCAGGAGGCCCCCGGAC
ACACCCGACCAGAAACCAATTCATGGAGGCAGCCCCTGGCTCCCCACCAGGGGAGGGTGCCCCGCTTG
CAGCCGATGTTTACGTTGGGAACCTCCCGGGGACGCCCGTGTGAGTGACCTGAAGAGAGCCTGCCGGGA
ACTCGGCTCCGTGCCCTGCGGCTCACCTGGCAGGGCCCGCGGCCAGAGCCTTCTCCATTACCCGGAC
TCTGCCGACGCCAGCAGGCCGTCTCTGCTTGCAGGGCTGCGCCTGGGCACCGACACCCTGAGGGTGG
CGTGGCCAGGCAGCAGAGGGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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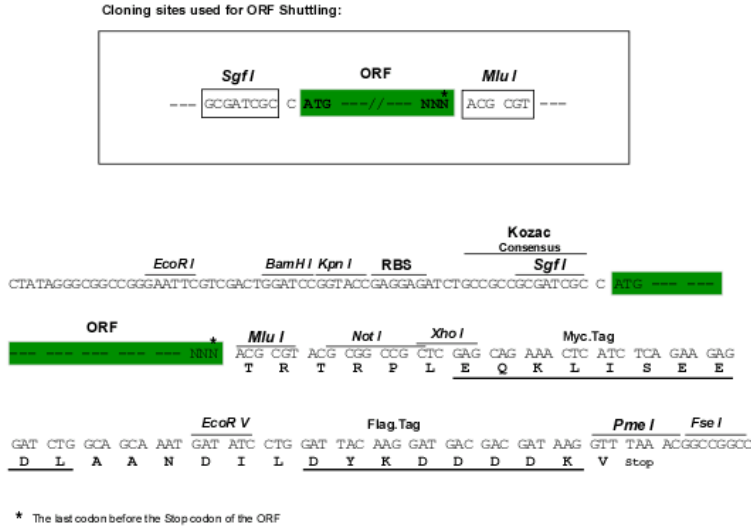
Protein Sequence: >RC228864 representing NM_001159379
Red=Cloning site Green=Tags(s)

MEPRAGVSKQDIREQIWGYMESQNLADFPRPVHHRIPNFKGASHAAEQLPRLQAFKARTIKVNPDPQK
 SARFFVLESKKTLLVPTPRLRTGLFNKITPPPGATKDILRKCATSQGVNYSVPIGLDSRVLVDL VVVGS
 VAVSEKGWIRIGKGEYADLEYAMMVSMGAVSKETPVVTIVHDCQVVDIPEELVEEHDIIVDYILTPTRVI
 ATGCKRPKPMGITWFKISLEMMEKIPILRSLRAREQQAGKDVTLQGEHQHLEPEGCQQTVPLSVGRRPPD
 TPGPETNSMEAAPGSPPEGAPLAADVYVGNLPGDARVSDLRALRELGSVPLRLTWQGP RRRAFLHYPD
 SAAAQAVSCLQGLRLGTDTLRVALARQQRDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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:**
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_001159379.2](#)

RefSeq Size: 3035 bp

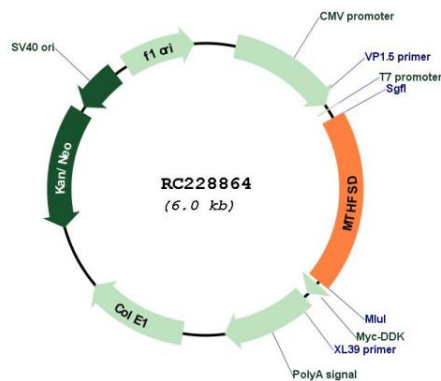
RefSeq ORF: 1149 bp

Locus ID: 64779

Cytogenetics: 16q24.1

MW: 42 kDa

Product images:



Circular map for RC228864