

## Product datasheet for MR220164

### Mthfsd (NM\_001166482) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfsd (NM_001166482) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mthfsd
Synonyms:	AW049977; BC052066; C920004D05
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR220164 representing NM_001166482 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAGACCCAGGAGGGTGTCTCCAACAAGCATACTGTAACGGATTTGGGACTACATGGAATCCCATG  
ATATAGCTGACTTCCCCGACCCGTTTCATCACAGGATCCCCAACTCAAGGGTGTGCTCAGGCTGCGGG  
GCACCTCCACACCTGCAAGCTTCCATGTGGCCAGAACCATTAAAGTCAACCCGGACGCTCCTCAGAGA  
AACGCCCGCTTCCTGGTGTGGAGAGCAAAAAACACTGCTGGTCCCAACACCACGACTGCGAACAGGGC  
TGTTTAAACAAGATCACGCCACCCCTGGAGCCACCAAGACATTCTGAGGAAATGTGCCACCTCCAGGG  
TGTGCGGAATTTACAGCTCCAGTGGGCTTGGATTCCAGTGTCTTGTGGATCTAGTTGTGGTGGGATCT  
GTTGCTGTGTCTGAGAAAGGCTGGCGAATTGGGAAAGGGGAAGGCTATGCTGATCTTGAATACGCCATGA  
TGGTGTCAATGGGAGCCGTCACAAGGGGACACCGGTTGTCAATTGTCCACGACTGCCAGGTCGTAGA  
CATCCCCGAGGCTCTTGTGGAGGACCACGACCTCACAGTTGACTACATCCTCACTCCACCCAGGGTCATC  
ACTACAGGCTGTGCACGCCCAAAGCCAACGGGCATCATGTGGTCCAAGGTCAGCTGTGAGATGCTTACGA  
AAATCCCAGTGTCTAGGAACCTCCGGGAGAGAGAAACAGGCTGGGAAGGATGTCACTCTCCGGGACGA  
GCCTGGCAGCCAGCAGCCAGCTCCAGGCCCATCAGGAGACCCAGGATAGACCACAAACAGGTTCTCGA  
GGAGGGTCCCCTAGTCCCCTGCAGGGGGCGGACACCCAAGTACTGCTGCTGTGTGGGAAACCTGC  
CCTTCACTACTCGTGTGCGTGAGCTGAAGAGAGTCTCCAGGAGCTGGGGTGGTGGCCCTGAGGCTTAC  
CTGGCAGGGGCCACAGCACAGGGCAGTTCTACACTATACAGACTCAGCTGCTGCCAGCAGGCCGCTCT  
CTCCTACAGGGCCTACGCTCTGGGTGCCAACGCCTTGGGGTGTCACTGGGGCAGCAGAGGGATATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR220164 representing NM\_001166482  
 Red=Cloning site Green=Tags(s)

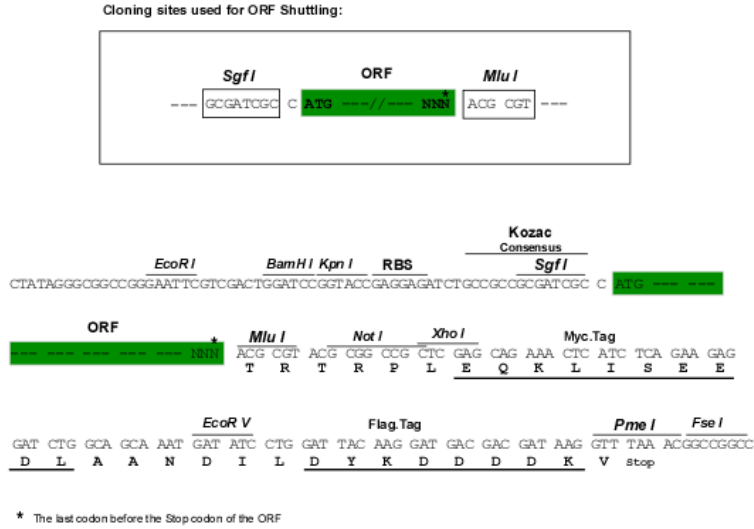
METQEGVSKQSIRERIWDYMESHDIADFPRPVHHRIPNFKGAAQAAGHLPHLQAFHVARTIKVNPDPQR  
 NARFLVLESKKTLLVPTPRLRTGLFNKI TPPP GATK DILRKCATSQGV RNF SVPVGLDSSV LVDL VVVGS  
 VAVSEK GWRIGK GEGYADLEYAMMVSMGAVHKGTPVVTIVHDCQVVDIPEALVEDHDLTVDYILTPTRVI  
 TTGCARP KPTGIMWSKVSCEMLTKIPVLRNLREREKQAGKDVTLRDEPGSQQPAPGPIRRPQDRPQTGSR  
 GGSRSPLQ GADTQLAATVCVGNLPFTTRVRELKRVLQELGVVPLRLTWQGPQHRAVLHYTDSAAAQQAAS  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

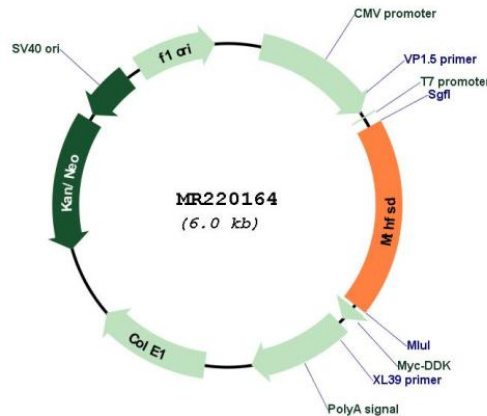
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001166482

<b>ORF Size:</b>	1116 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001166482.2</a>
<b>RefSeq Size:</b>	1568 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	234814
<b>UniProt ID:</b>	<a href="#">Q3URQ7</a>
<b>Cytogenetics:</b>	8 E1
<b>MW:</b>	41.2 kDa