

## Product datasheet for **RR209354**

### **Mthfd2 (NM\_001109398) Rat Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd2 (NM_001109398) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mthfd2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209354 representing NM_001109398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTTCTGTTTCTTGTCTGCGCTGGCAGTGGCGTTGTTGCGCCCCACGCACGGCTGCCACTCCC  
TACAGTCCTTCCACCTGGCGGCAGTACGAAATGAAGCCGTGGTCATTTCTGGAAGGAAGCTGGCCAGCA  
GATTAAGCAAGAAGTACGGCAGGAGGTGGAAGAGTGGTGGCCTCGGGCAACAAGCGCCACACCTCAGT  
GTCATTCTGGTTGGCGACAATCCTGCCAGTCACTCCTATGTTCTCAACAAAACCAGGGCAGCAGCTGAAG  
TGGGAATCAACAGTGAGACAATTGTGAAACCAGCCTCAGTGTGAGGAAGAGCTGTTGAATTCAATCAG  
GACATTGAATGACGATGAGAATGTAGATGGCCTCCTTGTTCAGCTGCCACTCCCAGAGCACATTGACGAG  
AGAAAGATCTGCAATGCTGTTTCTCCTGACAAGGATGTTGATGGCTTTCATGTCATCAACGTTGGGCGCA  
TGTGTTTGGACCAGTATTCCATGCTGCCAGCAACTCCATGGGGCGTGGGAGATACTCAAGCGAACAGG  
CATTCCAACCTTAGGGAAGAATGTGGTAGTGGCTGGCAGGTCCAAAACGTTGGGATGCCAATTGCAATG  
CTGCTGCACACGGATGGGGCACACGAGCGCCTGGGGTGTGCCACAGTCACAATATCTCATCGGCACA  
CTCCCAAAGAACAGCTGAAGAAGCACACGATCCTTGGCGACATTGTGATATCTGCTGCTGGCATTCCAAA  
CCTCATCACAGCTGACATGATCAAGGAAGGAGCAACAGTCATCGACGTGGGGATAAACAGAGTTCAGAT  
CCTGTCACCGCAAAGCCCAAGTTGGTTGGAGATGTGGATTTTGAAGGAGTCAAGAAGAAAGCTGGTTACA  
TCACTCCTGTCCCTGGGGTGTGGTCCCATGACAGTGGCCATGCTCATGAAGAACCATTATTGCTGC  
AAGAAAGTGCTCAGGCCAGAGGAGCTGGAAGTGTGAAGTCCACACAGCGCGGAGTTGCCACCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209354 representing NM\_001109398  
 Red=Cloning site Green=Tags(s)

MVSVSLSALAVRLLRPTHGHSRLQSFHLAAVRNEAVVISGRKLAQQIKQEVQRQVEEWEVWASGNKRPHLS  
 VILVGDNPASHSYVLNKTRAAAEEVGINSETIVKSPASVSEEELLSIRTLNDDENVDLLVQLPLPEHIDE  
 RKICNAVSPDKDVGDFHVINVGRMCLDQYSMLPATPWGVWEILKRTGIPTLGKNVVVAGRSKNVGMPIAM  
 LLHTDGAHERPGGDATVTISRHTPKQLKHTILADIVISAAGIPNLITADMIKEGATVIDVGINRVQD  
 PVTAKPKLVGDVDFEGVKKKAGYITPVPGGVGPMTVAMLMKNTIIAAKKVLRPEEVLKSTQRGVATN

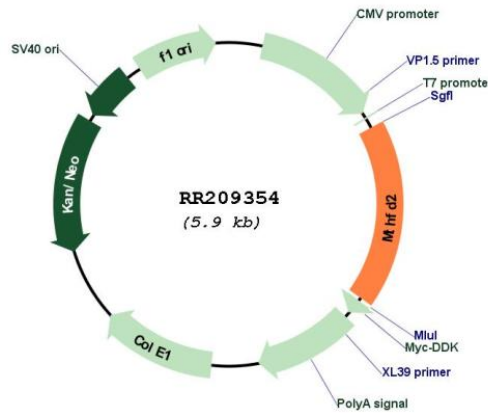
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001109398

<b>ORF Size:</b>	1047 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_001109398.1</a> , <a href="#">NP_001102868.1</a>
<b>RefSeq Size:</b>	2061 bp
<b>RefSeq ORF:</b>	1050 bp
<b>Locus ID:</b>	680308
<b>Cytogenetics:</b>	4q34
<b>MW:</b>	37.7 kDa