

Product datasheet for **MG205312**

Mthfd2 (NM_008638) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd2 (NM_008638) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mthfd2
Synonyms:	AW558851; NMDMC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205312 representing NM_008638 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCAGTTTCCTTGTGTCTGCGTTGGCTGTGCGGTTGTTGCGCCCCACGCACGGCTGCCACCCCC
GCCTACAGCCCTTCCACCTGGCGGCAGTGCGAAATGAAGCCGTTGTCATTTCTGGAAGGAAACTGGCCCA
GCAGATCAAGCAAGAAGTACAGCAGGAGGTGGAAGAGTGGGTGGCCTCAGGCAATAAGCGCCACACCTC
AGTGTCATTCTGGTTGGTGACAATCCCGCCAGTCACTCCTATGTTCTCAACAAAACCAGGCAGCAGCTG
AAGTGGGAATCAACAGTGAGACAATTGTGAAACCAGCCTCAGTTTCAGAGGAAGAGCTGCTGAATTCAT
CAGGAAGCTGAACAACGATGAGAACGTAGATGGCCTCCTTGTTTCAGCTGCCACTCCAGAGCACATTGAT
GAGAGGAAGGTCTGCAATGCCGTTTCTCCTGACAAGGATGTTGATGGCTTTCATGTCATTAACGTGGGGC
GAATGTGCTTGGACCAGTACTCTATGCTGCCAGCAACCCCATGGGGCGTGTGGGAGATAATTAAGCGAAC
AGGCATTTCAACCTTAGGGAAGAATGTGGTAGTGGCTGGCAGGTCAAAAAACGTTGGAATGCCGATTGCA
ATGTTGCTGCACACAGATGGAGCTCACGAACGGCCCGGGGTGATGCCACAGTACAATATCTCATCGAT
ACACTCCCAAAGAGCAGCTGAAGAAGCACACGATCCTTGACAGCATTGTAATATCTGCCGCTGGCATTCC
AAATCTGATCACAGCTGACATGATCAAGGAAGGAGCAGCGGTATCGATGTGGGAATAAACAGAGTTCAA
GATCCTGTCACTGCAAAGCCCAAATTGGTTGGAGATGTGGATTTTGAAGGAGTCAAGAAGAAAGCTGGTT
ATATCACTCCCGTCCCTGGTGGTGGTCCCATGACCGTGCCATGCTCATGAAGAACACCATTATTGC
CGCAAAGAAAGTGCTAAGACCAGAGGAGCTGGAAGTGTCAAGTCCAAACAGCGCGGAGTCGCCACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205312 representing NM_008638
 Red=Cloning site Green=Tags(s)

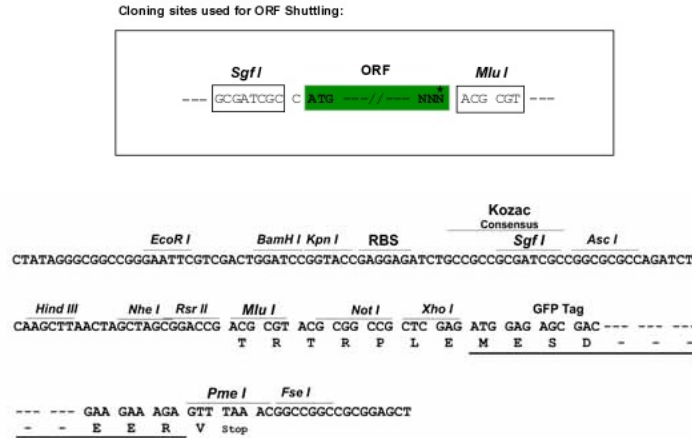
MASVSLLSALAVRLLRPTHGCHPRLQPFHLAAVRNEAVVISGRKLAQQIKQEVQQEVEEWVASGNKRPHL
 SVILVGDNPASHSYVLNKTAAAEEVGINSETIVKPAVSVEEELLSIRKLNNDENVDDLVLPLPEHID
 ERKVCNAVSPDKDVGDFHVINVGRMCLDQYSMLPATPWGWWEIIKRTGIPTLGKNVVVAGRSKNVGMPIA
 MLLHTDGAHERPGGDATVTIISHRYTPKEQLKKHTILADIVIISAAGIPNLITADMIKEGAAVIDVGINRVQ
 DPVTAKPKLVGDVDFEGVKKKAGYITPVPGGVGPMTVAMLMKNTIIAAKKVLRPEELEVFKSKQRGVATN

TRTRPLE - GFP Tag - V

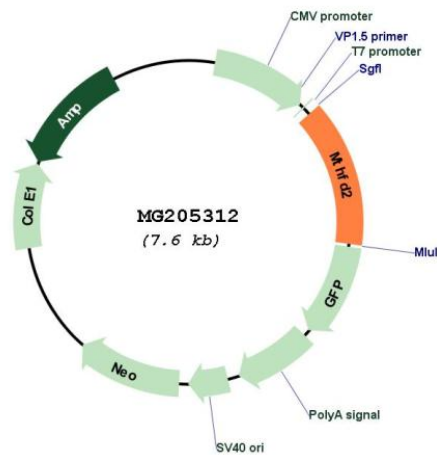
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008638

ORF Size: 1050 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_008638.1 , NP_032664.1
RefSeq Size:	2069 bp
RefSeq ORF:	1053 bp
Locus ID:	17768
UniProt ID:	P18155
Cytogenetics:	6 35.94 cM
Gene Summary:	Although its dehydrogenase activity is NAD-specific, it can also utilize NADP at a reduced efficiency.[UniProtKB/Swiss-Prot Function]