

Product datasheet for MR205312

Mthfd2 (NM_008638) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd2 (NM_008638) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mthfd2
Synonyms:	AW558851; NMDMC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205312 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTTCAGTTTCCTTGTGTCTGCGTTGGCTGTGCGGTTGTTGCGCCCCACGCACGGCTGCCACCCCC
GCCTACAGCCCTCCACCTGGCGGCAGTGCGAAATGAAGCCGTTGTCATTTCTGGAAGGAAACTGGCCCA
GCAGATCAAGCAAGAAGTACAGCAGGAGGTGGAAGAGTGGGTGGCCTCAGGCAATAAGCGCCACACCTC
AGTGTCATTCTGGTTGGTGACAATCCC GCCAGTCACTCCTATGTTCTCAACAAAACCAGGCAGCAGCTG
AAGTGGGAATCAACAGTGAGACAATTGTGAAACCAGCCTCAGTTTCAGAGGAAGAGCTGCTGAATTCAT
CAGGAAGCTGAACAACGATGAGAACGTAGATGGCCTCCTTGTTTCAGCTGCCACTCCAGAGCACATTGAT
GAGAGGAAGGTCTGCAATGCCGTTTCTCCTGACAAGGATGTTGATGGCTTTCATGTCATTAACGTGGGGC
GAATGTGCTTGGACCAGTACTCTATGCTGCCAGCAACCCCATGGGGCGTGTGGGAGATAATTAAGCGAAC
AGGCATTTCAACCTTAGGGAAGAATGTGGTAGTGGCTGGCAGGTCAAAAAACGTTGGAATGCCGATTGCA
ATGTTGCTGCACACAGATGGAGCTCACGAACGGCCGGGGGTGATGCCACAGTACAATATCTCATCGAT
ACACTCCCAAAGAGCAGCTGAAGAAGCACACGATCCTTGACAGCATTGTAATATCTGCCGCTGGCATTCC
AAATCTGATCACAGCTGACATGATCAAGGAAGGAGCAGCGGTATCGATGTGGGAATAAACAGAGTTCAA
GATCCTGTCACTGCAAAGCCCAAATTGGTTGGAGATGTGGATTTTGAAGGAGTCAAGAAGAAAGCTGGTT
ATATCACTCCCGTCCCTGGTGGTGGTCCCATGACCGTGCCATGCTCATGAAGAACACCATTATTGC
CGCAAAGAAAGTGCTAAGACCAGAGGAGCTGGAAGTGTCAAGTCCAAACAGCGGGAGTCGCCACCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205312 protein sequence
Red=Cloning site Green=Tags(s)

MASVSLLSALAVRLLRPTHGCHPRLQPFHLAAVRNEAVVISGRKLAQQIKQEVQQEVEEWVASGNKRPHL
 SVILVGDNPASHSYVLNKTAAAEEVGINSETIVKPAVSVEEELLSIRKLNNDENVDDLQVLPPEHID
 ERKVCNAVSPDKDVGDFHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIA
 MLLHTDGAHERPGGDATVTISHRYTPKEQLKKHTILADIVI SAAGIPNLITADMIKEGAVIDVGINRVQ
 DPVTAKPKLVGDVDFEGVKKKAGYITPVGVPMTVAMLMKNTIIAAKKVLRPEELEVFKSKQRGVATN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_008638

ORF Size: 1053 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_008638.1](#), [NM_008638.2](#), [NP_032664.1](#)

RefSeq Size: 2070 bp

RefSeq ORF: 1053 bp

Locus ID: 17768

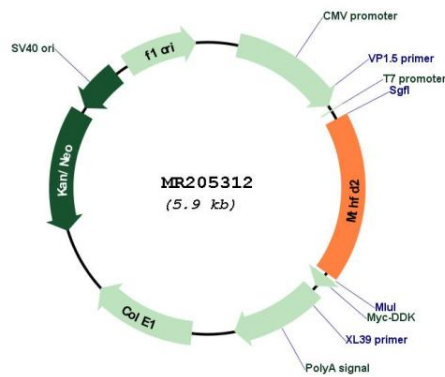
UniProt ID: [P18155](#)

Cytogenetics: 6 35.94 cM

MW: 37.9 kDa

Gene Summary: Although its dehydrogenase activity is NAD-specific, it can also utilize NADP at a reduced efficiency.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205312