

Product datasheet for RR211237

Mthfd2l (NM_001107211) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mthfd2l (NM_001107211) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mthfd2l
Synonyms:	RGD1310879
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR211237 representing NM_001107211 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGACGCGGGCCCGTGGCTTGTGCTGCTCCGGGGCCGCTGGGCCGAGGGCCTGCGCGAGCCCCGG
GCGTAGCGGAGCGCGCTGGCGGGGCTTCGGGAGCAGCAGCCGAAGACACGAAGCCGTTATCATCTCAGG
AACTGAAATGGCCAAACAGATCCGGAGAGAACTACAGCAAGGTGTGGAATCGTGGCTTGTCTTGGGAAC
AGGAGGCCTCACCTCAGTATCATTTTAGTGGGAGATAACCCAGCAAGCCACACCTACGTCAGGAATAAGA
TCAGAGCCGCTTCTGCTGTAGGCATCTGCAGTGAGCTCATCGTGAAGCCCAAGAATGTTTCTCAGGAGGA
ACTTTTGGATATCACTGATCAACTGAACATGGACCCAAGAGTCAGTGGGATATTAGTTCAACTACCCCTT
CCAGACCACGTGGATGAGAGAACAATATGCAATGGGATCGCTCCCGAAAAAGACGTAGATGGGTTTCACA
TTATCAATATCGGAAGACTGTGCCTTGACCAGCATTTCGCTGATCCCCGCCACGGCCAGCGCCGTTTGGGA
AATCATCAAAAGAGCAGGCATTGAAACATTTGGGAAAAACGTGGTTGTGGCAGGACGATCCAAGAACGTG
GGCATGCCGATCGCCATGTTGCTGCACACGGACGGAGAGCAGCAGCGCCCCGGAGGCGATGCGACGGTGA
CCATAGCTCACAGACACACCCCCAGAGCAACTGAAGGCCATACTCAGCTGGCAGAGATTATCATAGT
GGCTGCAGGTATTCCTGGGCTGATTACTGCTGACATGGTCAGAGAAGGCCCAACAGTGATTGACGTGGGC
ATCAACTACGTACAAGATCCTGTGACAGGAAAGACCAAGTTAGTTGGAGATGTGGACTTTGAAGCTGTTA
AGAAGAAGGCCAGCTTTATCACTCCAGTCCCAGGAGGTGTGGACCCATGACTGTGGCCATGCTTCTGAA
GAACACACTTCTGGCTGCCAAGAATATCACCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211237 representing NM_001107211
Red=Cloning site Green=Tags(s)

MATRARGLSLLRGRGRGPAPGVAERAWRFGSSRRHEAVIISGTEMAKQIRRELQQGVESWLALGN
 RRPHLSSIILVGDNPASHTYVRNKIRAASAVGICSELIVKPKNVSQEELLDITDQLNMDPRVSGILVQLPL
 PDHVDERTICNGIAPEKVDVGFHIINIGRLCLDQHSLIPATASAVWEIIKRAGIETFKNVAVAGRSKNV
 GMPIAMLLHTDGEHERPGGDATVTIAHRHTPREQLKAHTQLAEIIIVAAGIPGLITADMVREGATVIDVG
 INYVQDPVTGKTKLVGDVDFEAVKKKASFITPVPGGVGPMTVAMLLKNTLLAAKNITY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001107211

ORF Size: 1014 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_001107211.1](#), [NP_001100681.1](#)

RefSeq Size: 2211 bp

RefSeq ORF: 1017 bp

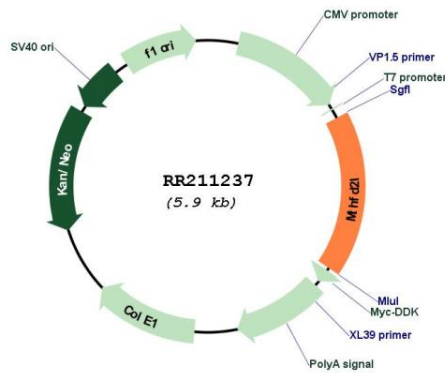
Locus ID: 305248

UniProt ID: [D3ZUA0](#)

Cytogenetics: 14p22

MW: 36.4 kDa

Product images:



Circular map for RR211237