

Product datasheet for **MG214400**

Mthfd2l (NM_026788) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mthfd2l (NM_026788) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Mthfd2l
Synonyms: 1110019K23Rik; C630010D07Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG214400 representing NM_026788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGACGCGGGCCCGGGCTTCTCGCTGCTCCGGGGCCGTCTGGGCCGAGGGCCTGTGCGAGCCCCGG
 GCGTCGCCGAGCGCGCTGGCGGGCTTCGGGAGCAGCGCCGGAGACACGAAGCCGTTATCATCTCAGG
 AACTAACATGGCCAAACAGATCCAGAAGGAGATACAGCAAGGAGTGAATCATGGATCGCTCTCGGGAAC
 AGGAGGCCCATCTGAGTATCATTTTAGTGGGAGATAACCCAGCAAGCCACACCTATGTCAGGAATAAGA
 TAAAAGCGGCTTCTGCTGTAGGTATCTGCAGTGAGCTCATATAAGCCCAAGAATGTTTCTCAGGAGGA
 ACTGTTGGACATCACTGATCAGCTGAACATGGATCCAAGAGTCAGCGGTATATTAGTTCAGTTCCTACTC
 CCAGACCATGTAGATGAGAGAACAATATGCAATGGAATTGCTCCAGAAAAGGACGTTGATGGATTTCA
 TTATCAATATTGGACGACTGTGCCTTGACCAGCATTCACTGATCCCTGCCACTGCCAGTGCCGTTTGGGA
 AATCATCAAAGAGCAGGAATCGAAACATTTGGGAAAAATGTGGTCGTGGCGGGAAGATCCAAGAACGTG
 GGCATGCCGATTGCCATGCTGCTGCACACGGACGGAGAGCAGAGCGTCTGGAGGTGATGCAACGGTGA
 CGATAGCGCACAGATACCCCCAGAGAACAACGAAGGCCACACTCACTAGCAGACATCATATAGT
 GGCTGCGGGTATCCCAGGTTGATTACAGCTGACATGGTCAGAGAAGGTGCGGCAGTAATTGATGTGGGT
 ATCAACTATATAAAGATCCTGTGACGGGAAAGACCAAGTTAGTTGGAGATGTGGACTTTGAAGCTGTTA
 AGAAGAAAAGCCAGCTTCACTCACTCCAGTCCCAGGAGGTGTGGACCCATGACCGTGCCATGCTTCTTAA
 GAACACACTTTTAGCTGCAAAGAATATCGCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG214400 representing NM_026788
 Red=Cloning site Green=Tags(s)

MATRARGFSLLRGRLLRGRGPVRAPGVAERAWRFGSSGRRHEAVIISGTNMAKQIQKEIQQGVESWIALGN
 RRPHLSEIILVGDNPASHTYVRNKIKAASAVGICSELIIPKPNVSEELLDITDQLNMDPRVSGILVQLPL
 PDHVDERTICNGIAPEKDVDFGHIINIGRLCLDQHSVIPATASAVWEIIRKAGIETFGKNVVVAGRSKNV
 GMPIAMLLHTDGEHERPGGDATVTIAHRYTPREQLKAHTQLADIIIVAAGIPRLITADMVREGAAVIDVG
 INYIQDPVTGKTKLVGDVDFEAVKKKASFITPVPGGVGPMTVAMLLKNTLLAAKNIAV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026788

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_026788.1](#), [NP_081064.1](#)

RefSeq Size: 2256 bp

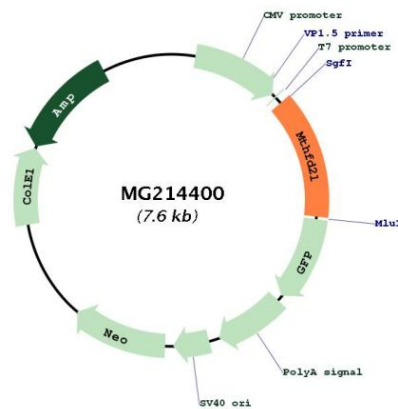
RefSeq ORF: 1017 bp

Locus ID: 665563

UniProt ID: [D3YZG8](#)

Cytogenetics: 5 E1

Product images:



Circular map for MG214400