

Product datasheet for **MC221298**

Folh1 (NM_016770) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Folh1 (NM_016770) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Folh1
Synonyms:	GCP2; mopsm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221298 representing NM_016770
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGAACGCACTGCAGGACAGAGACTCCGCGGAGGTCCTGGGACACCGCCAGCGCTGGCTCCGTGTTG
 GGACACTGGTGCCTTTAACCGAACCTTCCTCATTGGCTTCCTCTTTGGGTGGTTTATAAACCTTC
 CAATGAAGCTACTGGTAATGTTCCATTCTGGCATGAAGAAGGAGTTTTTGCATGAATTGAAGGCTGAG
 AACATCAAAAAATTTTTATACAATTTACACGACACCACACTTGGCAGGAACACAAAAAATTTTGGAGC
 TTGCAAAGCAAATTCATGACCAGTGAAAGAATTTGGCCTGGATTTGGTTGAGTTATCCATTACGATGT
 CTTGCTGTCTATCCAAATAAACTCATCTAATACTATATCTCAATAATTAATGAAGATGGAATGAGATT
 TTCAAAACATCATTATCTGAACAGCCACCCAGGATATGAGAATATATCAGATGTAGTGCCACCATAACA
 GTGCCCTCTCCACAAGGGACACCAGAGGGTATCTAGTGTATGTCAACTATGCACGAAGTGAAGACTT
 CTTTAAACTGGAACGGGAATGAAGATCAGTTGTTCTGGGAAGATTGTGATTGCCAGATATGGGAAAGTG
 TTCAGAGGAAATATGTTAAAAATGCTCAACTGGCAGGGGCAAAAGGAATGATTCTGACTCAGACCCTG
 CTGACTACTTTGTTCTCGCGGTGAAGTCTATCCAGATGGCTGGAACCTCCCTGGAGGTGGTGTCCAACG
 TGGAAATGTCTTAAATCTTAATGGTGCAGGTGACCCGCTCACACCAGGTTACCCAGCAAATGAACATGCT
 TATAGGCATGAGTTGACAAACGCTGTTGGCCTTCCAAGTATTCCTGTCCATCCTATTGGATATGATGATG
 CACAGAACTCTTAGAACACATGGGTGGTCCAGCACCCCTGACAGTAGCTGGAAGGGAGGATAAAAAGT
 GCCTTACAACGTGGGACCTGGCTTTGCTGGAACTTTTCAACACAAAAGGTCAAGATGCATATTCCTCT
 TACACTAAAGTGACAAGAATCTAATGTCATTGGCACCTCAAAGGAGCTCTGGAACGACAGATATG
 TTATTCTTGGAGGTCACCGAGATGCTTGGGTATTTGGTGGCATTGACCCTCAGAGTGGAGCAGCTGTTGT
 TCATGAAATTGTGCGGAGCTTTGGAACCTGAAGAAGAAAGGACGGAGGCCTAGAAGGACAATTTGTTT
 GCAAGCTGGGATGCAGAAGAATTTGGCCTTCTTGGTTCTACTGAGTGGGACAGGAAATTCAAGACTCC
 TACAAGAGCGAGGTGTGGCTTATTAATGCTGATTCTCCATAGAAGGAAATTACACTCTAAGAGTTGA
 TTGCACACCCTGATGTACAGCTTAGTGTACAACCTAACAAAAGAGCTGCAAAGCCAGATGAAGGTTTT
 GAAGGAAAATCTTTATGACAGCTGAAAGAAAAGAGTCTTCCCTGAGTTTATTGGAATGCCAGAA
 TTAGCAAGCTGGGTCTGGCAATGATTTTGAAGTGTCTTCCAAAGACTTGAATTTGCTTCAGGCAGAGC
 CCGATATACTAAAAATTTGAAAATAACAAAGTCAGCAGCTATCCTCTCTATCACAGTGTCTATGAAACA
 TATGAGCTGGTAGTAAAATTTTATGACCAACATTTAAATACCACCTCACTGTGGCCAGGTTGAGGAG
 CGATGGTATTTGAACTTGCCAATCTATAGTGCTCCCTTTGACTGCCAAAGTTATGCTGTAGCTCTGAA
 GAAGTATGCTGACACTATCTACAATATTTCAATGAAACATCCACAAGAAATGAAGGCTTACATGATATCA
 TTTGATTCACTGTTTTCTGCAGTCAATAATTTTACAGATGTTGCATCTAAGTTCAATCAGAGACTGCAAG
 AGTTAGACAAAAGCAACCCCATATTACTGAGAATTATGAATGACCAGCTGATGTATCTGGAACGTGCATT
 CATTGATCCTTTAGGCTTACCAGGAAGGCTTTCTACAGGCATATCATCTATGCTCCAAGCAGCCACAAC
 AAGTATGCAGGAGAATCATTCCCTGGGATTTATGATGCCCTTTTGGATATAAGTAGCAAAGTCAATGCTT
 CTAAGGCTGGAACGAAGTGAAGAGACAGATTTCTATTGCAACCTTTACAGTGAAGCTGCAGCAGAGAC
 TCTGAGGGAAGTAGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2270_b08.zip

Restriction Sites: SgfI-MluI

ACCN: NM_016770

Insert Size: 2259 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_016770.3](#), [NP_058050.3](#)

RefSeq Size: 3047 bp

RefSeq ORF: 2259 bp

Locus ID: 53320

UniProt ID: [O35409](#)

Cytogenetics: 7 D3

Gene Summary: Has both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activity. Has a preference for tri-alpha-glutamate peptides (By similarity). In the intestine, required for the uptake of folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N-aceylaspartyglutamate (NAAG), thereby releasing glutamate.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).