

## Product datasheet for **MR216018**

### Folh1 (NM\_016770) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR216018 representing NM\_016770  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGAACGCACTGCAGGACAGAGACTCCGCGGAGGTCCTGGGACACCGCCAGCGCTGGCTCCGTGTTG  
 GGACACTGGTGCCTTTAACCAGAACCTTCCTCATTGGCTTCCTCTTTGGGTGGTTTATAAAACCTTC  
 CAATGAAGCTACTGGTAATGTTTCCATTCTGGCATGAAGAAGGAGTTTTTGCATGAATTGAAGGCTGAG  
 AACATCAAAAAATTTTTATACAATTTACACGACACCACTTGGCAGGAACACAAAAAATTTTGGAGC  
 TTGCAAAGCAAATTCATGACCAGTGAAAGAATTTGGCCTGGATTTGGTTGAGTTATCCATTACGATGT  
 CTTGCTGTCTATCCAAATAAACTCATCTAATACTATATCTCAATAATTAATGAAGATGGAATGAGATT  
 TTCAAACATCATTATCTGAACAGCCACCCAGGATATGAGAATATATCAGATGTAGTGCCACCATAACA  
 GTGCCCTCTCCACAAGGGACACCAGAGGGTATCTAGTGTATGTCAACTATGCACGAAGTGAAGACTT  
 CTTTAAACTGGAACGGGAAATGAAGATCAGTTGTTCTGGGAAGATTGTGATTGCCAGATATGGGAAAGTG  
 TTCAGAGGAAATATGGTTAAAAATGCTCAACTGGCAGGGGCAAAAGGAATGATTCTGACTCAGACCCTG  
 CTGACTACTTTGTTCTCGCGGTGAAGTCTATCCAGATGGCTGGAACCTCCCTGGAGGTGGTGTCCAACG  
 TGGAAATGTCTTAAATCTTAATGGTGCAGGTGACCCGCTCACACCAGTTACCCAGCAAATGAACATGCT  
 TATAGGCATGAGTTGACAAACGCTGTTGGCCTTCCAAGTATTCCTGTCCATCCTATTGGATATGATGATG  
 CACAGAACTCTTAGAACACATGGGTGGTCCAGCACCCCTGACAGTAGCTGGAAGGGAGGATTAAGT  
 GCCTTACAACGTGGGACCTGGCTTTGCTGGAACTTTTCAACACAAAAGGTCAAGATGCATATTCCTCT  
 TACACTAAAGTGACAAGAATCTATAATGTCATTGGCACCTCAAAGGAGCTCTGGAACGAGCAGATATG  
 TTATTCTTGGAGGTCACCGAGATGCTTGGGTATTTGGTGGCATTGACCCTCAGAGTGGAGCAGTGTGT  
 TCATGAAATTGTGCGGAGCTTTGGAACCTGAAGAAGAAAGGACGAGGCCTAGAAGGACAATTTGTTT  
 GCAAGCTGGGATGCAGAAGAATTTGGCCTTCTTGGTTCTACTGAGTGGGACAGGAAATTCAAGACTCC  
 TACAAGAGCGAGGTGTGGCTTATTAATGCTGATTCTCCATAGAAGGAAATTACACTCTAAGAGTTGA  
 TTGCACACCACTGATGTACAGCTTAGTGTACAACCTAACAAAAGAGCTGCAAAGCCAGATGAAGGTTTT  
 GAAGGAAAATCTTTATGACAGCTGGAAGAAAAGAGTCTTCCCTGAGTTCATTGGAATGCCAGAA  
 TTAGCAAGCTGGGTCTGGCAATGATTTTGAAGTGTCTTCAAAGACTTGAATTGCTTCAGGCAGAGC  
 CCGATATACTAAAAATTGAAAATAACAAAGTCAGCAGCTATCCTCTCTATCACAGTGTCTATGAAACA  
 TATGAGCTGGTAGTAAAATTTTATGACCAACATTTAAATACCACCTCACTGTGGCCAGGTTGAGGAG  
 CGATGGTATTTGAACTTGCCAATCTATAGTGCTCCCTTTGACTGCCAAAGTTATGCTGTAGCTCTGAA  
 GAAGTATGCTGACACTATCTACAATATTTCAATGAAACATCCACAAGAAATGAAGGCTTACATGATATCA  
 TTTGATTCACTGTTTTCTGCAGTCAATAATTTTACAGATGTTGCATCTAAGTTCAATCAGAGACTGCAAG  
 AGTTAGACAAAAGCAACCCCATATTACTGAGAATTATGAATGACCAGCTGATGTATCTGGAACGTGCATT  
 CATTGATCCTTTAGGCTTACCAGGAAGGCTTTCTACAGGCATATCATCTATGCTCCAAGCAGCCACAAC  
 AAGTATGCAGGAGAATCATTCCCTGGGATTTATGATGCCCTTTTGGATATAAGTAGCAAAGTCAATGCTT  
 CTAAGGCTGGAACGAAGTGAAGAGACAGATTTCTATTGCAACCTTTACAGTGAAGCTGCAGCAGAGAC  
 TCTGAGGGAAGTAGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216018 representing NM\_016770  
 Red=Cloning site Green=Tags(s)

MWNAIQDRDSEVLGHRQRWLRVGTLLVALTGTFLIGFLFGWFIKPSNEATGNVSHSGMKKEFLHELKAE  
 NIKKFLYNFTRTPHLAGTQNNFELAKQIHDQWKEFGLDLVELSHYDVLLSYPNKTHPNYISIIINEDGNEI  
 FKTSLSSEQPPPGYENISDVVPPYSAFSPQGTPEGDLVYVNYARTEDFFKLEREMKISCSGKVIARYGKV  
 FRGNMVKNAQLAGAKGMILYSDPADYFVPAVKSYPDGWNLPGGGVQRGNVNLNGAGDPLTPGYPANEHA  
 YRHELTAVGLPSIPVHPIGYDDAQKLEHMGGPAPPDSSWKGLKVPYNVGPGFAGNFSTQKVKMHIHS  
 YTKVTRIYNVIGTLKGALEPDRYVILGGHRDAWVFGGIDPQSGAAVVHEIVRSFGLTKKKGRRRPRRILF  
 ASWDAEEFGLLGSTEWAEEHSRLQERGVAYINADSSIEGNYTLRVDCTPLMYSLVYNLTKELQSPDEGF  
 EGKSLYDSWKEKSPSEFIGMPRI SKLGSNDFEVFFQRLGIASGRARYTKNWKTNKVSSYPLYHVSYYET  
 YELVVKFYDPTFKYHLTVAQVRGAMVFELANSIVL PFDQCQSYAVALKKYADTIYINISMKHPQEMKAYMIS  
 FDSLFSAVNNFTDVASKFNQRLQELDKSNPILLRIMNDQLMYLERAFIDPLGLPGRPFYRHIIYAPSSH  
 KYAGESFPGIYDALFDISSKNASKAWNEVKRQISIAATFTVQAAAETLREVA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9028\\_d02.zip](https://cdn.origene.com/chromatograms/mm9028_d02.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



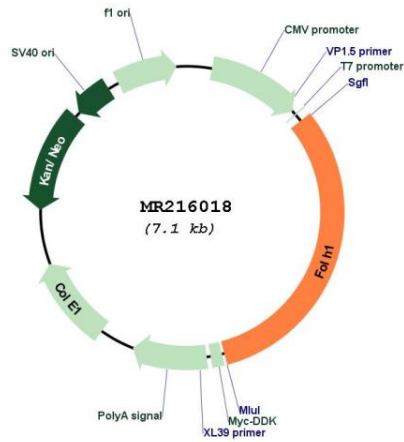
\* The last codon before the Stop codon of the ORF

ACCN: NM\_016770

ORF Size: 2256 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_016770.3</a>, <a href="#">NP_058050.3</a></p>
<b>RefSeq Size:</b>	<p>3047 bp</p>
<b>RefSeq ORF:</b>	<p>2259 bp</p>
<b>Locus ID:</b>	<p>53320</p>
<b>UniProt ID:</b>	<p><a href="#">O35409</a></p>
<b>Cytogenetics:</b>	<p>7 D3</p>
<b>MW:</b>	<p>85 kDa</p>
<b>Gene Summary:</b>	<p>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-aceylaspartylglutamate (NAAG), thereby releasing glutamate.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR216018