

Product datasheet for MC208500

Folr1 (NM_008034) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Folr1 (NM_008034) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Folr1
Synonyms:	FBP1; Folbp-1; Folbp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208500 representing NM_008034 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCACCTGATGACTGTGCAGTTGTTGCTCCTGGTGATGTGGATGGCCGAATGTGCTCAGTCCAGAG
 CTACTCGGGCCAGGACTGAACCTCTCAATGTCTGCATGGATGCCAAACACCACAAAGAAAAACGGGCC
 TGAGGACAATTTACACGACCAGTGCAGCCCTGGAAGACGAATTCCTGCTGTTCCACGAACACAAGCCAG
 GAAGCACATAAGGACATTTCTACCTGTACCGTTCAACTGGAACCACTGCGGAATATGACATCGGAAT
 GCAAACGGCACTTTATCCAAGACACCTGCCTCTATGAGTGTTCCCGAACTTGGGACCCTGGATCCAGCA
 GGTGGACCAGAGCTGGCGCAAAGAGCGGATCCTTGATGTTCCCTGTGCAAAGAGGACTGTCAGCAGTGG
 TGGGAGGACTGCCAGAGCTCTTTTACCTGCAAGAGCAATTGGCACAAGGGATGGAAGTGGTCTCGGGC
 ATAACGAGTGCTCTGTGGGAGCCTCCTGCCATCCCTTCACCTTCTACTCCCCACATCTGCTGCTGTG
 TGAGGAAATCTGGAGTCACTCCTACAAGCTCAGCAACTACAGTCGAGGGAGCGGCCGCTGCATTAGATG
 TGGTTCGACCCAGCCAGGGCAACCCCAACGAGGAAGTGGCGAGGTTCTATGCCGAGGCCATGAGTGGAG
 CTGGGTTTCATGGGACCTGGCCACTCTTGTGCAGCCTGTCCTTAGTGCTGCTCTGGGTGATCAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_008034
Insert Size:	768 bp


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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC138795](#), [AA138796](#)

RefSeq Size: 1052 bp

RefSeq ORF: 768 bp

Locus ID: 14275

UniProt ID: [P35846](#)

Cytogenetics: 7 E2

Gene Summary: Binds to folate and reduced folic acid derivatives and mediates delivery of 5-methyltetrahydrofolate and folate analogs into the interior of cells. Has high affinity for folate and folic acid analogs at neutral pH. Exposure to slightly acidic pH after receptor endocytosis triggers a conformation change that strongly reduces its affinity for folates and mediates their release. Required for normal embryonic development and normal cell proliferation. Required for renal folate reabsorption.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) uses a different splice site in the 5' UTR, compared to variant 1. Variants 1, 2, 3, and 4 all encode the same protein.