

Product datasheet for MR222958

Folr1 (NM_008034) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Folr1 (NM_008034) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Folr1 |
| Synonyms: | FBP1; Folbp-1; Folbp1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR222958 representing NM_008034 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCTCACCTGATGACTGTGCAGTTGTTGCTCCTGGTGATGTGGATGGCCGAATGTGCTCAGTCCAGAGCTACTCGGGCCAGGACTGAACTTCTCAATGTCTGCATGGATGCCAAACACCACAAAGAAAACCGGGCCCTGAGGACAATTTACACGACCAGTGCAGCCCTGGAAGACGAATTCCTGCTGTTCCACGAACACAAGCCAGAAAGCACATAAGGACATTTCTACCTGTACCGTTCAACTGGAACCACTGCGGAATATGACATCGGAATGCAAACGGCACTTTATCCAAGACACCTGCCTCTATGAGTGTCCCGAATTTGGGACCCTGGATCCAGCAGGTGGACCAGAGCTGGCGCAAAGAGCGGATCCTTGATGTCCCTGTGCAAAGAGGACTGTGAGCAGTGGTGGGAGGACTGCCAGAGCTCTTTACCTGCAAGAGCAATTGGCACAAGGGATGGAATGGTCTCGGGCATAACGAGTGTCTGTGGGAGCCTCCTGCCATCCCTTCACCTTCTACTTCCCACATCTGCTGCTGTGTGAGGAAATCTGGAGTCACTCCTACAAGCTCAGCAACTACAGTCGAGGGAGCGGCCGCTGCATTCAGATGTGGTTCGACCCAGCCAGGGCAACCCCAACGAGGAAGTGGCGAGGTTCTATGCCGAGGCCATGAGTGGAGCTGGGTTTCATGGGACCTGGCCACTCTGTGCAGCCTGTCTTAGTGCTGCTCTGGGTGATCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222958 representing NM_008034
Red=Cloning site Green=Tags(s)

MAHLMTVQLLLL VMMAECAQSRATRARTELLNVCMDAKHHKEKPGPEDNLHDQCSPWKTNSCCSTNTSQ
 EAHKDISYL YRFNWNHCGTMTSECKRHF IQDTCLYECSNLPNGPWIQQVDQSWRKERILDVPLCKEDCQQW
 WEDCQSSF TCKSNWHKGNWSSGHNECPVGASCHPFTFYFPTSAALCEEIWSHSYKLSNYSRSGSRCIQM
 WFDPAQGNPNEEVARFYAEAMSGAGFHGTWPLLCSLSLVLLWVIS

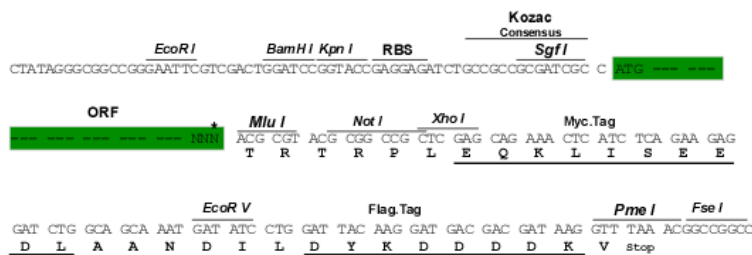
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008034

ORF Size: 765 bp

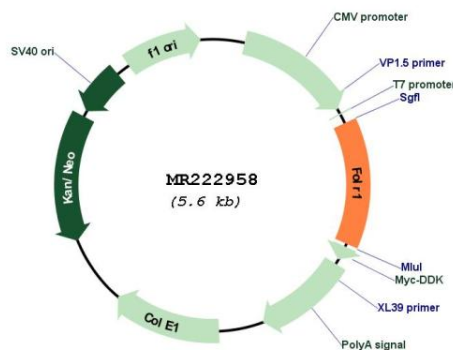
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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_008034.3](#)
- RefSeq Size:** 1303 bp
- RefSeq ORF:** 768 bp
- Locus ID:** 14275
- UniProt ID:** [P35846](#)
- Cytogenetics:** 7 E2
- MW:** 29.9 kDa
- 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]

Product images:



Circular map for MR222958