

## Product datasheet for **MC226610**

### Folr1 (NM\_001252553) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Folr1 (NM\_001252553) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Folr1  
**Synonyms:** FBP1; Folbp-1; Folbp1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226610 representing NM\_001252553  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCTCACCTGATGACTGTGCAGTTGTTGCTCCTGGTGTGGATGGCCGAATGTGCTCAGTCCAGAG  
CTACTCGGGCCAGGACTGAACCTTCTCAATGTCTGCATGGATGCCAAACACCACAAAGAAAAACCGGGCCC  
TGAGGACAATTTACACGACCAGTGCAGCCCTGGAAGACGAATTCCTGCTGTTCCACGAACACAAGCCAG  
GAAGCACATAAGGACATTTCTACCTGTACCGGTTCAACTGGAACCACTGCGGAATATGACATCGGAAT  
GCAAACGGCACTTTATCCAAGACACCTGCCTCTATGAGTGTTCCCGAATTGGGACCCTGGATCCAGCA  
GGTGGACCAGAGCTGGCGCAAAGAGCGGATCCTTGATGTTCCCCTGTGCAAAGAGGACTGTCAGCAGTGG  
TGGGAGGACTGCCAGAGCTCTTTTACCTGCAAGAGCAATTGGCACAAGGGATGGAAGTGGTCTCGGGGC  
ATAACGAGTGTCTGTGGGAGCCTCCTGCCATCCCTTACCTTACTTCCCACATCTGCTGCTCTGTG  
TGAGGAAATCTGGAGTCACTCCTACAAGCTCAGCAACTACAGTCGAGGGAGCGGCCGCTGCATTAGATG  
TGGTTCGACCCAGCCAGGGCAACCCCAACGAGGAAGTGGCGAGGTTCTATGCCGAGGCCATGAGTGGAG  
CTGGGTTTCATGGGACCTGGCCACTCTTGTGCAGCCTGTCTTAGTGCTGCTCTGGGTGATCAGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001252553  
**Insert Size:** 768 bp



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|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.   |
| <b>Components:</b>            | 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).   |
| <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>                | <u><a href="#">NM_001252553.1</a></u> , <u><a href="#">NP_001239482.1</a></u>  |
| <b>RefSeq Size:</b>           | 1337 bp  |
| <b>RefSeq ORF:</b>            | 768 bp   |
| <b>Locus ID:</b>              | 14275  |
| <b>UniProt ID:</b>            | <u><a href="#">P35846</a></u>  |
| <b>Cytogenetics:</b>          | 7 E2   |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (3) uses two different splice sites in the 5' UTR, compared to variant 1. Variants 1, 2, 3, and 4 all encode the same protein.</p> |