

## Product datasheet for **SC300134**

### Folate Binding Protein (FOLR1) (NM\_000802) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Folate Binding Protein (FOLR1) (NM_000802) Human Untagged Clone                         |
| Tag:                      | Tag Free  |
| Symbol:                   | Folate Binding Protein  |
| Synonyms:                 | FBP; FOLR; FRalpha; NCFTD   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >SC300134 representing NM_000802.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTCAGCGGATGACAACACAGCTGCTGCTCCTTCTAGTGTGGGTGGCTGTAGTAGGGGAGGCTCAG
ACAAGGATTGCATGGGCCAGGACTGAGCTTCTCAATGTCTGCATGAACGCCAAGCACCACAAGGAAAAAG
CCAGGCCCCGAGGACAAGTTGCATGAGCAGTGTGACCCCTGGAGGAAGAATGCCTGCTGTTCTACCAAC
ACCAGCCAGGAAGCCCAT AAGGATGTTTCTACCTATATAGATTCAACTGGAACCACTGTGGAGAGATG
GCACCTGCCTGCAAACGGCATTTCATCCAGGACACCTGCCTCTACGAGTGTCCCCCACTTGGGGCCC
TGGATCCAGCAGGTGGATCAGAGCTGGCGCAAAGAGCGGGTACTGAACGTGCCCTGTGCAAAGAGGAC
TGTGAGCAATGGTGGGAAGATTGTGCACTCCTACACCTGCAAGAGCAACTGGCACAAGGCTGGAAC
TGGACTTCAGGGTTTAAACAAGTGCAGTGGGAGCTGCCTGCCAACCTTCCATTCTACTTCCCCACA
CCCCTGTTCTGTGCAATGAAATCTGGACTCACTCCTACAAGGTGAGCAACTACAGCCGAGGGAGTGGC
CGCTGCATCCAGATGTGGTTCGACCCAGCCAGGGCAACCCCAATGAGGAGGTGGCGAGGTTCTATGCT
GCAGCCATGAGTGGGCTGGGCCCTGGGCAGCCTGGCCTTCTGCTTAGCCTGGCCCTAATGCTGCTG
TGGCTGCTCAGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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|                    |           |
|--------------------|-----------|
| Restriction Sites: | Sgfl-MluI |
| ACCN:              | NM_000802 |
| Insert Size:       | 774 bp    |



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|                               |  |
|-------------------------------|--|
| <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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</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>                | <a href="#">NM_000802.3</a>  |
| <b>RefSeq Size:</b>           | 962 bp   |
| <b>RefSeq ORF:</b>            | 774 bp   |
| <b>Locus ID:</b>              | 2348   |
| <b>UniProt ID:</b>            | <a href="#">P15328</a>   |
| <b>Cytogenetics:</b>          | 11q13.4  |
| <b>Protein Families:</b>      | Druggable Genome, Secreted Protein, Transmembrane  |
| <b>MW:</b>                    | 29.8 kDa   |

**Gene Summary:**

The protein encoded by this gene is a member of the folate receptor family. Members of this gene family bind folic acid and its reduced derivatives, and transport 5-methyltetrahydrofolate into cells. This gene product is a secreted protein that either anchors to membranes via a glycosyl-phosphatidylinositol linkage or exists in a soluble form.

Mutations in this gene have been associated with neurodegeneration due to cerebral folate transport deficiency. Due to the presence of two promoters, multiple transcription start sites, and alternative splicing, multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 7. Variants 1, 2, 4 and 7 all encode the same protein.