

## Product datasheet for **RG221050**

### Folate Binding Protein (FOLR1) (NM\_016724) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Folate Binding Protein (FOLR1) (NM_016724) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOLR1
Synonyms:	FBP; FOLR; FRalpha; NCFTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221050 representing NM_016724 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCAGCGGATGACAACACAGCTGCTCCTTCTAGTGTGGGTGGCTGTAGTAGGGGAGGCTCAGA  
CAAGGATTGCATGGGCCAGGACTGAGCTTCTCAATGTCTGCATGAACGCCAAGCACCACAAGAAAAAGCC  
AGGCCCGGAGGACAAGTTGCATGAGCAGTGTGACCCCTGGAGGAAGAATGCCTGCTGTTCTACCAACACC  
AGCCAGGAAGCCCATAAGGATGTTTCTACCTATATAGATTCAACTGGAACCACTGTGGAGAGATGGCAC  
CTGCCTGCAAACGGCATTTCATCCAGGACACCTGCCTCTACGAGTGCTCCCCAACTTGGGGCCCTGGAT  
CCAGCAGGTGGATCAGAGCTGGCGCAAAGAGCGGGTACTGAACGTGCCCTGTGCAAAGAGGACTGTGAG  
CAATGGTGGGAAGATTGTCGCACCTCTACACCTGCAAGAGCAACTGGCACAAGGGCTGGAACTGGACTT  
CAGGGTTTAAACAAGTGCAGTGGGAGCTGCCTGCCAACCTTTCCATTTCTACTTCCCCACACCCACTGT  
TCTGTGCAATGAAATCTGGACTCACTCCTACAAGGTCAGCAACTACAGCCGAGGGAGTGGCCGCTGCATC  
CAGATGTGGTTCGACCCAGCCAGGGCAACCCCAATGAGGAGGTGGCGAGGTTCTATGCTGCAGCCATGA  
GTGGGGCTGGGCCCTGGGCAGCCTGGCCTTTCTGCTTAGCCTGGCCCTAATGCTGCTGTGGCTGCTCAG  
C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221050 representing NM\_016724  
 Red=Cloning site Green=Tags(s)

MAQRMTTQLLLLLVWVAVVGEAQTRIAWARTELLNVCMNAKHHKEKPGPEDKLHEQCRPWRKNACCSTNT  
 SQEAHKDVSYL YRFNWNHCGEMAPACKRHF IQDTCLYECSPNLGPWIIQQVDQSWRKERVLNVPLCKEDCE  
 QWWEDCRTSYTCKSNWHKGWNWTSGFNKCAVGAACQPFHFYFPTVLCNEIWTSHYKVSNSYRSGSRGCI  
 QMWFDPAQGNPNEEVARFYAAAMSGAGPWAAWPFLLSLALMLLWLLS

TRTRPLE - GFP Tag - V

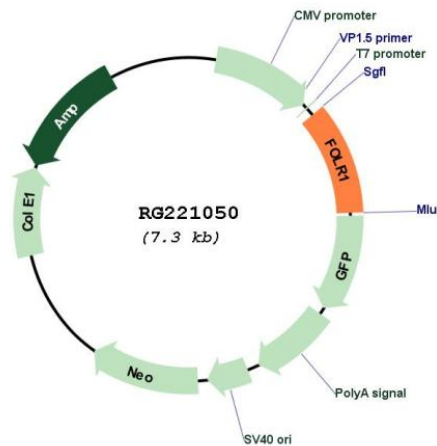
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_016724

**ORF Size:** 771 bp

<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_016724.3</a>
<b>RefSeq Size:</b>	1032 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>Gene Summary:</b>	<p>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]</p>