

Product datasheet for **RG212993**

FOLR2 (NM_000803) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FOLR2 (NM_000803) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FOLR2
Synonyms:	BETA-HFR; FBP; FBP/PL-1; FOLR1; FR-BETA; FR-P3; FRbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212993 representing NM_000803 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCTGGAAATGGATGCCACTTCTGCTGCTTCTGGTCTGTGTAGCCACCATGTGCAGTGCCCAGGACA
GGACTGATCTCCTCAATGTCTGTATGGATGCCAAGCACCACAAGACAAAGCCAGGTCCTGAGGACAAGCT
GCATGACCAATGCAGTCCCTGGAAGAAGAATGCCTGCTGCACAGCCAGCACCAGCCAGGAGCTGCACAAG
GACACCTCCCGCCTGTACAACTTAACTGGGACCCTGCGCAAGATGGAGCCCGCTGCAAGCGCCACT
TCATCCAGGACACCTGTCTCTATGAGTGCTCACCAACCTGGGGCCCTGGATCCAGCAGGTAATCAGAC
GTGGCGAAAAGAACGCTTCTGGATGTGCCCTTATGCAAAGAGGACTGTCAGCGCTGGTGGGAGGATTGT
CACACCTCCCACACGTGCAAGAGCAACTGGCACAGAGGATGGGACTGGACCTCAGGATTAACAAGTGCC
CAGCTGGGGCTCTCTGCCGCACCTTTGAGTCTACTTCCCCTCCAGCTGCCCTTTGTGAAGGCCTCTG
GAGTCACTCATACAAGGTCAGCAACTACAGCCGAGGGAGCGCCGCTGCATCCAGATGTGGTTTGATTCA
GCCAGGGCAACCCCAACGAGGAAGTGGCGAGGTTCTATGCTGCAGCCATGCATGTGAATGCTGGTGAGA
TGCTTCATGGGACTGGGGTCTCCTGCTCAGTCTGGCCCTGATGCTGCAACTCTGGCTCCTTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212993 representing NM_000803
 Red=Cloning site Green=Tags(s)

MVWKWMPLLLLLVCVATMCSAQDRDILLNVCMDAKHHKTKPGPEDKLHDQCSPWKKNACCTASTSQELHK
 DTSRLYNFNWDHCGKMEPACKRHF IQDTCLYECSNLPWVQVNTWRKERFLDVPLCKEDCQRWWEDC
 HTSHTCKSNWHRGWDWTSVGNKCPAGALCRTFESYFPTPAALCEGLWSHSYKVSNSYRSGSRICIQMWFDS
 AQGNPNEEVARFYAAAMHVNAGEMLHGTGGLLLSLALMLQLWLLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000803

ORF Size: 765 bp

OTI Disclaimer: 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_000803.2](#), [NP_000794.1](#)

RefSeq Size: 1119 bp

RefSeq ORF: 768 bp

Locus ID: 2350

UniProt ID: [P14207](#)

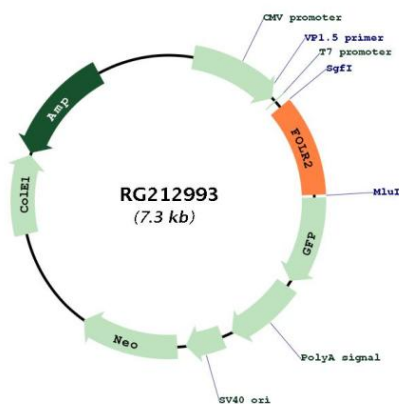
Cytogenetics: 11q13.4

Domains: Folate_rec

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene is a member of the folate receptor (FOLR) family, and these genes exist in a cluster on chromosome 11. Members of this gene family have a high affinity for folic acid and for several reduced folic acid derivatives, and they mediate delivery of 5-methyltetrahydrofolate to the interior of cells. This protein has a 68% and 79% sequence homology with the FOLR1 and FOLR3 proteins, respectively. Although this protein was originally thought to be specific to placenta, it can also exist in other tissues, and it may play a role in the transport of methotrexate in synovial macrophages in rheumatoid arthritis patients. Multiple transcript variants that encode the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG212993