

Product datasheet for **RG214953**

EFEMP1 (NM_004105) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFEMP1 (NM_004105) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EFEMP1
Synonyms:	DHRD; DRAD; EGF-containing fibulin-like extracellular matrix protein 1; FBLN3; FBNL; fibrillin-like; fibulin 3; FLJ35535; MGC111353; MLVT; MTLV; S1-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG214953 representing NM_004105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGAAAGCCCTTTCTAATATGCTGACTCTGGCGTGGTCAAGTACAGGACACCGAAGAAACCA
 TCACGTACACGCAATGCACTGACGGATATGAGTGGGATCCTGTGAGACAGCAATGCAAGATATTGATGA
 ATGTGACATTGTCCAGACGCTTGTAAAGTGGAAATGAAGTGTGTCAACCACTATGGAGGATACCTCTGC
 CTTCCGAAAACAGCCAGATTATTGTCAATAATGAACAGCCTCAGCAGGAAACACAACCAGCAGAAGGAA
 CCTCAGGGGAACACCGGGTGTAGCTGCCAGCAGCATGGCAACCAGTGGAGTGTGCCCGGGGTGG
 TTTTGTGGCCAGTGTCTGCAGTCGAGGCCCTGAAATGCAGACTGGCCGAAATAACTTTGTATCCGG
 CGGAACCCAGCTGACCCTCAGCGCATTCCCTCAAACCTTCCACCGTATCCAGTGTGCAGCAGGCTACG
 AGCAAAGTGAACACAACGTGTGCAAGACATAGACGAGTGCAGTGCAGGGACGCACAACGTAGAGCAGA
 CCAAGTGTGCATCAATTTACGGGATCCTTTGCATGTGAGTGCCTCCTGGATATCAGAAGCAGGGGAG
 CAGTGCCTAGACATAGATGAATGTACCATCCCTCCATATTGCCACCAAAGATGCGTGAATACACCAGGCT
 CATTATTGCCAGTGCAGTCTGGGTTCAATTGGCAGCAAACAACCTATACCTGCGTAGATATAAATGA
 ATGTGATGCCAGCAATCAATGTGCTCAGCAGTGTACAACATTCTTGGTTCATTCTGTGAGTGCAT
 CAAGGATATGAGCTAAGCAGTGCAGGCTCAACTGTGAAGACATTGATGAATGCAGAACCTCAAGCTACC
 TGTGTCAATATCAATGTGCAATGAACCTGGGAAATCTCATGTATGTGCCCCAGGGATACCAAGTGGT
 GAGAAGTAGAACATGTCAAGATAAATGAGTGTGAGACCACAAATGAATGCCGGGAGGATGAAATGTGT
 TGAATTATCATGGCGCTTCCGTTGTTATCCACGAAATCCTTGTCAAGATCCCTACATTCTAACACCAG
 AGAACCGATGTGTTGCCAGTCTCAAATGCCATGTGCCGAGAAGTGCCTCAGTCAATATACAATA
 CATGAGCATCCGATCTGATAGGCTGTGCCATCAGACATCTCCAGATACAGGCCACAACCTATTTATGCC
 AACACCATCAATACTTTTCGATTAAATCTGAAATGAAATGGAGAGTTCTACCTACGACAAAACAAGTC
 CTGTAAGTGAATGCTTGTGCTCGTGAAGTCATTATCAGGACCAAGAGAACATATCGTGGACCTGGAGAT
 GCTGACAGTCAGCAGTATAGGGACCTCCGCACAAGCTCTGTGTTAAGATTGACAATAATAGTGGGGCCA
 TTTTCATTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214953 representing NM_004105
 Red=Cloning site Green=Tags(s)

MLKALFLTMLLALVKSQDTEETIITYTQCTDGYEWDVPRQCKDIDECDIVPDACKGGMKCVNHYGGLC
 LPKTAQIIIVNNEQPQETQPAEGTSGATTGVVAASSMATSGVLPGGFVASAAAVAGPEMQTRNNFVIR
 RNPADPQRIPSNPSHRIQCAAGYEQSEHNVCQDIDECTAGTHNCRADQVCINLRGSFACQCPPGYQKRGE
 QCVDIDECTIPPYCHQRCVNTPGSFYQCSPGFQLAANNYTCVDINECDASNQCAQQCYNILGSFICQCN
 QGYELSSDRLNCEDIDECRTSSYLQYQCVNEPGKFSMCPQGYQVRSRTCQDINECETTNECREDEMC
 WNYHGGFRYPRNPCQDPYILTPENRCVCPVSNAMCRELPQSIVYKYSIRSRSVPSDIFQIQATTIYA
 NTINTFRIKSGNENGEFYLRQTSPPVSAMLVLVKSLSGPREHIVDLEMLTVSSIGTFRTSSVLRLLTIIVGP
 FSF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_004105

ORF Size: 1479 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_004105.3](#)

RefSeq Size: 2742 bp

RefSeq ORF: 1481 bp

Locus ID: 2202

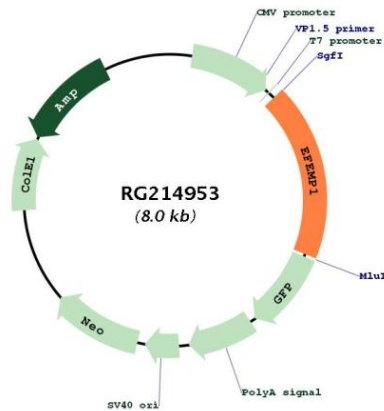
Cytogenetics: 2p16.1

Domains: EGF_CA, EGF, EGF

Protein Families: Secreted Protein

Gene Summary: This gene encodes a member of the fibulin family of extracellular matrix glycoproteins. Like all members of this family, the encoded protein contains tandemly repeated epidermal growth factor-like repeats followed by a C-terminus fibulin-type domain. This gene is upregulated in malignant gliomas and may play a role in the aggressive nature of these tumors. Mutations in this gene are associated with Doyme honeycomb retinal dystrophy. Alternatively spliced transcript variants that encode the same protein have been described. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RG214953