

## Product datasheet for **RG203726**

### EFEMP2 (NM\_016938) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EFEMP2 (NM_016938) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EFEMP2
Synonyms:	ARCL1B; FBLN4; MBP1; UPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203726 representing NM_016938 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCCCCTGCGCCTCCTGCCTACCCGGGTCTCTACTGCTCTGGGCGTGCTACTGTTGCTCTTGGGAT  
CAGCTTCTCCTCAGGATTCTGAAGAGCCCCGACAGCTACACGGAATGCACAGATGGCTATGAGTGGGACCC  
AGACAGCCAGCACTGCCGGGATGTCAACGAGTGTCTGACCATCCCTGAGGCCTGCAAGGGGGAAATGAAG  
TGCATCAACCACTACGGGGGCTACTTGTGCTGCCCGCTCCGCTGCCGTCATCAACGACCTACACGGCG  
AGGGACCCCCGCCACCAGTGCCTCCCGCTCAACACCCCAACCCCTGCCACCAGGCTATGAGCCCGACGA  
TCAGGACAGCTGTGTGGATGTGGACGAGTGTGCCAGGCCTGCACGACTGTCCGCCAGCCAGGACTGC  
CATAACTTGCTGCTCCTATCAGTGCACCTGCCCTGATGGTTACCGCAAGATCGGGCCCGAGTGTGTGG  
ACATAGACGAGTGCCGCTACCGCTACTGCCAGCACCGCTGCGTGAACCTGCCTGGCTCCTCCGCTGCCA  
GTGCGAGCCGGGCTTCCAGCTGGGGCTAACAACCGCTCCTGTGTGATGTGAACGAGTGTGACATGGGG  
GCCCCATGCGAGCAGCGCTGCTCAACTCCTATGGGACCTTCTGTGCTGCCACCAGGGCTATGAGC  
TGCATCGGGATGGCTTCTCCTGCAGTGATATTGATGAGTGTAGCTACTCCAGTACCTCTGTCAGTACCG  
CTGCGTCAACGAGCCAGGCCGTTTCTCCTGCCACTGCCACAGGGTTACCAGTGTGCTGCCACACGCCTC  
TGCCAAGACATTGATGAGTGTGAGTCTGGTGGCACCAGTGTCCGAGGCCAAACCTGTGTCAACTTCC  
ATGGGGGCTACCGCTGCGTGGACACCAACCGCTGCGTGGAGCCCTACATCCAGGTCTCTGAGAACCGCTG  
TCTCTGCCCGGCTCCAACCTCTATGTGAGAGCAGCCTTCATCCATTGTGCACCCTACATGACCATC  
ACCTCGGAGCGGAGCGTGCCCGTGACGTGTTCCAGATCCAGGCGACCTCCGTCTACCCCGTGCCTACA  
ATGCCTTTCAGATCCGTGCTGAAACTCGCAGGGGACTTTTACATTAGGCAAAATCAACAACGTCAGCGC  
CATGCTGGTCTCGCCCGGCGGTGACGGGCCCGGGAGTACGTGTGGACCTGGAGATGGTACCATG  
AATCCCTCATGAGTACCGGGCCAGCTCTGTACTGAGGCTACCGTCTTTGTAGGGCCTACACCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203726 representing NM\_016938  
Red=Cloning site Green=Tags(s)

MLPCASCLPGSLLLWALLLLLLGSASPQDSEEPDSYTECTDGYEWDPSQHC RDVNECLTIPEACKGEMK  
 CINHYGGYLCLPRSAVINDLHGEGPPPPVPPAQHPNCPGYPDDQDSCVDVDECAQALHDCRPSQDC  
 HNLPGSYQCTCPDGYRKIGPECVDIDECRYRQCQHRVCVNLPGSFRQCCEPGFQLGPNNRSCVDVNECDMG  
 APCEQRCFNSYGTFLCRCHQGYELHRDGFSCSDIDECSYSSYLQYRCVNEPGRFSCHCPQGYQLLATRL  
 CQDIDECESGAHQCEAQT CVNFHGGYRCVDTNRCVEPYIQVSENRLCPASNPLCREQPSIVHRYMTI  
 TSERSVPADVFIQATSYPGAYNAFQIRAGNSQGDFYIRQINNVSAMLVLARPVTGPREYVLDLEMVMT  
 NSLMSYRASSVLRLTVFVGAYTF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016938

**ORF Size:** 1329 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\\_016938.3](#)

**RefSeq Size:** 1939 bp

**RefSeq ORF:** 1332 bp

**Locus ID:** 30008

**UniProt ID:** [O95967](#)

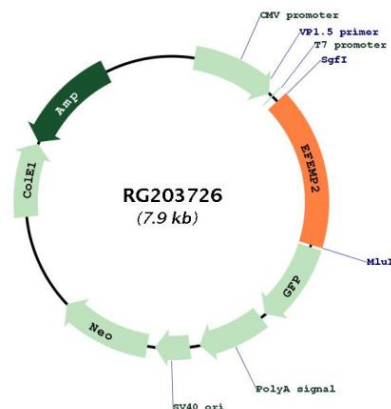
**Cytogenetics:** 11q13.1

**Domains:** EGF\_CA, EGF, EGF

**Protein Families:** Druggable Genome, Secreted Protein

**Gene Summary:** A large number of extracellular matrix proteins have been found to contain variations of the epidermal growth factor (EGF) domain and have been implicated in functions as diverse as blood coagulation, activation of complement and determination of cell fate during development. The protein encoded by this gene contains four EGF2 domains and six calcium-binding EGF2 domains. This gene is necessary for elastic fiber formation and connective tissue development. Defects in this gene are cause of an autosomal recessive cutis laxa syndrome. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Jan 2011]

### Product images:



Circular map for RG203726