

Product datasheet for **SC114145**

EFEMP2 (NM_016938) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFEMP2 (NM_016938) Human Untagged Clone
Tag:	Tag Free
Symbol:	EFEMP2
Synonyms:	ARCL1B; FBLN4; MBP1; UPH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114145 sequence for NM_016938 edited (data generated by NextGen Sequencing)

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ATGCTCCCCTGCGCCTCCTGCCTACCCGGGTCTCTACTGCTCTGGGCGTGCTACTGTTG
CTTTGGGATCAGTTTCTCTCAGGATTCTGAAGAGCCCGACAGCTACACGGAATGCACA
GATGGCTATGAGTGGGACCCAGACAGCCAGCACTGCCGGGATGTCAACGAGTGTCTGACC
ATCCCTGAGGCCGTGCAAGGGGAAATGAAGTGCATCAACCACTACGGGGGCTACTTGTGC
CTGCCCCGCTCCGCTGCCGTATCAACGACCTACACGGCGAGGGACCCCGCCACCAGTG
CCTCCCGCTCAACACCCCAACCCCTGCCACCAGGCTATGAGCCCGACGATCAGGACAGC
TGTGTGGATGTGGACGAGTGTGCCAGGCCCTGCACGACTGTGCCCCAGCCAGGACTGC
CATAACTTGCCTGGCTCCTATCAGTGCACCTGCCCTGATGGTTACCGCAAGATCGGGCCC
GAGTGTGTGGACATAGACGAGTGGCGTACCGCTACTGCCAGCACCGCTGCGTGAACCTG
CCTGGCTCCTTCCGCTGCCAGTGGCAGCCGGGCTTCCAGCTGGGGCTAACAAACCGCTCC
TGTGTTGATGTGAACGAGTGTGACATGGGGCCCCATGCGAGCAGCGCTGCTTCAACTCC
TATGGGACCTTCTGTGCTGCCACCAGGGCTATGAGCTGCATCGGGATGGCTTCTCC
TGCAGTGATATTGATGAGTGTAGCTACTCCAGCTACCTCTGTGACGCTGCCGTCACAC
GAGCCAGGCCGTTTCTCCTGCCACTGCCACAGGGTTACCAGCTGCTGGCCACACGCCTC
TGCCAAGACATTGATGAGTGTGAGTCTGGTGGCACCAGTGTCCGAGGCCCAAACCTGT
GTCAACTTCCATGGGGGCTACCGCTGCCGTGGACACCAACCGCTGCCGTGGAGCCCTACATC
CAGGTCTCTGAGAACCGCTGTCTCTGCCCGGCCTCAACCCCTCTATGTCGAGAGCAGCCT
TCATCCATTGTGCACCGCTACATGACCATCACCTCGGAGCGGAGCGTGCCCGCTGACGTG
TTCCAGATCCAGGCGACCTCCGTCTACCCCGGTGCCTACAATGCCTTTAGATCCGTGCT
GAAACTCGCAGGGGACTTTTACATTAGGCAAATCAACAACGTACGCGCCATGCTGGTC
CTCGCCCCGGCGTGACGGGCCCGGGAGTACGTGCTGGACCTGGAGATGGTCACCATG
AATCCCTCATGAGCTACCGGGCCAGCTCTGACTGAGGCTCACCGTCTTTGTAGGGGCC
TACACCTTCTGA

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Clone variation with respect to NM_016938.4
775 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_016938 unedited

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GGGGGNNGGGGGNNNNNNNTTTTNNNNNNNCGGTTTCAGATTTGTATACAACACTACTAT
AGGCGGCCGCGCTGTGCCGTCCGCCCGTCCGTCTGCCCGCAGCATTGCCCGAGCCAGCCG
AGCCGCCAGAGCCGCGGGCCGCGGGGTGTGCGGGGCCCAACCCAGGAGCTCCCCTGCCG
CCTCCTGCCTACCCGGTCTCTACTGCTCTGGGCGCTGCTACTGTTGCTCTTGGGATCAG
CTTCTCCTCAGGATTCTGAAGAGCCCGACAGCTACACGGAATGCACAGATGGCTATGAGT
GGGACCCAGACAGCCAGCACTGCCGGGATGTCAACGAGTGTCTGACCATCCCTGAGGCCT
GCAAGGGGAAATGAAGTGCATCAACCACTACGGGGGCTACTTGTGCCTGCCCGCTCCG
CTGCCGTATCAACGACCTACACGGCGAGGGACCCCGCCACCAGTGCCTCCCGCTCAAC
ACCCCAACCCCTGCCACCAGGCTATGAGCCCGACGATCAGGACAGCTGTGTGGATGTGG
ACGAGTGTGCCAGGCCCTGCACGACTGTGCCCCAGCCAGGACTGCCATAAATTGCCTG
GCTCCTATCAGTGCACCTGCCCTGATGGTTACCGCAAGATCGGGCCGAGTGTGTGGACA
TAGACGAGTGGCGTACCGCTACTGCCAGCACCGCTGCGTGAACCTGCCTGGCTCCTTCC
GCTGCCAGTGGCAGCCGGGCTTCCAGCTGGGGCCTAACACCGCTCCTGTGTTGATGTGAA
CGAGTGTGACATGGGGGCCCATGCGAGCAGCGCTGCTTCAACTCCTATGGGACCTTCT
GTGTGCTGCCACCANGGCTATGAGCTGCATCGGGATGGCTTCTNCTGCANTGATATTGA
TGAGTGTAGTACTCCAGCTACCTTTGTGAGTACCGCTGCCGTTACAGAGCCA

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016938 unedited CGTTGAGCCATTGGCGATGGTCACTTGCCAGNCCAGNATAGCACTGGGGNAGGGTCACA GGGCATGCCACCCGGGTATCTGTTGCAGGAAAACAGCTATGACCGCGGCCCAATCTAGA GTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAACAGTCCATTTGCCTCGTTTTATA AAAAACAGGCCAGGAACTACTAGGGCTTATCCAAATGTACAGTTTGAGGCAGATTTA GGAATGGAACCCAGGGCTCCTGGCGTGTCCAGAGTGGAGTTTCTTAAGACCCCTGCAA GCCAGCCAAGTCAAATCTCTGGGCCGGGCCTGGAGTCCGCCCTCCTCGTTACCTCCTC TCCTCTCGGGGTGACTGAAGCTCGTGGTGCAAAGCTCCCATCTCCTGTCAATGGGGGCC CTGGGCCTGAACATATAGAGACCCCATTTAGGTGAACTTGGCCTGCCCCCAAGTGCC ACCCTGCCCCAGCCTGAGGCTTCTGCAGTGTGACCCGCCACCTCAGCCACCAGGACTT TCTTTCTCCCTTATTGCCTTCTCATTCTGCCCTCACAAACAGGCTCCTCATCTAGGGT AACTGCAGGGAGGGTGGCTCCCTCCTGCTCCTCAGAAGGTGTAGGCCCTACAAAGACGG TGAGCCTCATTACAGATCTGGCCCGGTAGCTCATGAAGGAATTCATGGTGACCATCTCCA GGTCCAGCACGTACTCCGGAGGCCGTCACCGCCAGGCGAGGACCANCATGGCGCTGA CGTTGTTGATTTGCCTAATGTAAAAGTCCCCTGCGAGTTTCCATCCCGGATCTGAAAGC ATTGTACGCCCCGGGTAGACGGGAGTCGCCTGGATCTGGACACGTCAGCGGGCAGCTCC GCTCCGAGGTGATGTCATGTTACCGTC
Restriction Sites:	NotI-NotI
ACCN:	NM_016938
Insert Size:	2000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_016938.1 , NP_058634.1
RefSeq Size:	1757 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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein.