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Product datasheet for SC126895

EFEMP1 (NM_004105) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EFEMP1 (NM_004105) Human Untagged Clone
Tag:	Tag Free
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:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC126895 sequence for NM_004105 edited (data generated by NextGen Sequencing)

ATGTTGAAAGCCCTTTTCCTAACTATGCTGACTCTGGCGCTGGTCAAGTCACAGGACACC
GAAGAAACCATCACGTACACGCAATGCACTGACGGATATGAGTGGGATCCTGTGAGACAG
CAATGCAAAGATATTGATGAATGTGACATTGTCCCAGACGCTTGTAAAGGTGGAATGAAG
TGTGTCAACCACTATGGAGGATACCTCTGCCTTCCGAAAACAGCCCAGATTATTGTCAAT
AATGAACAGCCTCAGCAGGAAACACAACCAGCAGAAGGAACCTCAGGGGCAACCACCGGG
GTTGTAGCTGCCAGCAGCATGGCAACCAGTGGAGTGTTGCCCGGGGGTGGTTTTGTGGCC
AGTGCTGCTGCAGTCGCAGGCCCTGAAATGCAGACTGGCCGAAATAACTTTGTCATCCGG
CGGAACCCAGCTGACCCTCAGCGCATTCCCTCCAACCCTTCCCACCGTATCCAGTGTGCA
GCAGGCTACGAGCAAAGTGAACACAACGTGTGCCAAGACATAGACGAGTGCACTGCAGGG
ACGCACAACTGTAGAGCAGACCAAGTGTGCATCAATTTACGGGGATCCTTTGCATGTCAG
TGCCCTCCTGGATATCAGAAGCGAGGGGAGCAGTGCGTAGACATAGATGAATGTACCATC
TCTCCATATTGCCACCAAAGATGCGTGAATACACCAGGCTCATTTTATTGCCAGTGCAGT
CCTGGGTTTCAATTGGCAGCAAACAACTATACCTGCGTAGATATAAATGAATGTGATGCC
AGCAATCAATGTGCTCAGCAGTGCTACAACATTCTTGGTTCATTCATCTGTCAGTGCAAT
CAAGGATATGAGCTAAGCAGTGACAGGCTCAACTGTGAAGACATTGATGAATGCAGAACC
TCAAGCTACCTGTGTCAATATCAATGTGTCAATGAACCTGGGAAATTCTCATGTATGTGC
CCCCAGGGATACCAAGTGGTGAGAAGTAGAACATGTCAAGATATAAATGAGTGTGAGACC
ACAAATGAATGCCGGGAGGATGAAATGTGTTGGAATTATCATGGCGGCTTCCGTTGTTAT
CCACGAAATCCTTGTCAAGATCCCTACATTCTAACACCAGAGAACCGATGTGTTTGCCCA
GTCTCAAATGCCATGTGCCGAGAACTGCCCCAGTCAATAGTCTACAAATACATGAGCATC
CGATCTGATAGGTCTGTGCCATCAGACATCTTCCAGATACAGGCCACAACTATTTATGCC
AACACCATCAATACTTTTCGGATTAAATCTGGAAATGAAAATGGAGAGTTCTACCTACGA
CAAACAAGTCCTGTAAGTGCAATGCTTGTGCTCGTGAAGTCATTATCAGGACCAAGAGAA
CATATCGTGGACCTGGAGATGCTGACAGTCAGCAGTATAGGGACCTTCCGCACAAGCTCT
GTGTTAAGATTGACAATAATAGTGGGGCCATTTTCATTTTAG

Clone variation with respect to NM_004105.3
661 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004105 unedited
TTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGCTGCCCTCCCCT
GCGCACTCCCCTCGCTGCCCGGGCCCGGAGCGCAGCGCGGCCGCACAGATTCACAATGTT
GAAAGCCCTTTTCCTAACTATGCTGACTCTGGCGCTGGTCAAGTCACAGGACACCGAAGA
AACCATCACGTACACGCAATGCACTGACGGATATGAGTGGGATCCTGTGAGACAGCAATG
CAAAGATATTGATGAATGTGACATTGTCCCAGACGCTTGTAAAGGTGGAATGAAGTGTGT
CAACCACTATGGAGGATACCTCTGCCTTCCGAAAACAGCCCAGATTATTGTCAATAATGA
ACAGCCTCAGCAGGAAACACAACCAGCAGAAGGAACCTCAGGGGCAACCACCGGGGTTGT
AGCTGCCAGCAGCATGGCAACCAGTGGAGTGTTGCCCGGGGGTGGTTTTGTGGCCAGTGC
TGCTGCAGTCGCAGGCCCTGAAATGCAGACTGGCCGAAATAACTTTGTCATCCGGCGGAA
CCCAGCTGACCCTCAGCGCATTCCCTCCAACCCTTCCCACCGTATCCAGTGTGCAGCAGG
CTACGAGCAAAGTGAACACAACGTGTGCCAAGACATAGACGAGTGCACTGCANGGACGCA
CAACTGTAGAGCAGACCAAGTGTGCATCAATTACGGGGATCCTTTGCATGTCAGTGCCCT
CCTGGATATCANAAGCGAGGGGAGCAGTGCGTAAACATAGATGAATGTACCATCTCTTCA
TATTGCCACCAAAGATGCGTGAATACACCANGCTCATTTTATTTGCAGTGCAGTCCTGGG
TTTCAATTGGCAGCAACAACTATACCTGCGTAGATATAATGAATGGGATGCCAGCAATCA
TGTGCTCAGCAGTGCTACAACATTCTTGTTCATCATCTGTCATGCAAN

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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004105 unedited
TGACCGCGGCCGCATCTATAGTCGGTTTTTTTTTTTTTTTTTCTAAAGAAATTATCTTT
ATTGACCTTTTCCATTTTCTTACAAAGCAGTTAAAAACTCATTCTTACCCTTGCATGCTA
TTCAATGGTTATGATGGCTGCCTCCTTATGAGACTGTTAGTGGAGCTCTAGTAAGTTTCC
TTAAGCACCACAGAAGATCATCATTGCTTGGTCCCACTTTTATAGGAAAGAATCCAAGTT
TCACCAGATAGTGTATACTTAGCTCTCTTGAAGAAGACCAGTTTAGTGGATTAATGTCTA
ATTTACATATAGTAATAAAGACAAACTTTGAATCTTTACATATTAAATGCCCACTTTATA
CCATGGTGTAATTGTTTGAATTATGGGTGAGTGTACAGTATAGAGATGTAGATGCACTAG
ATATATCTATAAATAAAATAGGGCTTTAAGGTAACAATATTCTTTGGCTGACTTAAATGC
CTGTGGTTGACTCTTAGAAAAGACTAAAATGAAAATGGCCCCACTATTATTGTCAATCTT
AACACAGAGCTTGTGCGGAAGGTCCCTATACTGCTGACTGTCAGCATCTCCAGGTCCACG
ATATGTTCTCTTGGTCCTGATAATGACTTCACGAGCACAAGCATTGCACTTACAGGACTT
GTTTGTCGTAGGTAGAACTCTCCATTTTCATTTCCAGATTTAATCCCGAAAGTATTGATG
GGTGTGGCATAAATAGTTGTAGCCCTGTATCTGGAAAATGTCTGATGCACANACCTATCA
AATCGGATGCTCATGTATTTGTANACTATTGACTGGGGCAGTTCTGGCACATGGCATTTG
AGACTGGGCAAACACATCGGTCCTTTGGGGTAAAATGTAGGGATCTGACAGGNATTTCCT
GGGTAACACCNAAGCCGCCTGGAATTTCCACCATTTATTCTCCCCGCGTTCCTTGGGGGC
AAACCCATATTTATTGGATGTGTTCCCTTCACCCCTGGGNTNCCGGGGGGCCCTCTGGAA
TATTCACGGTCTTGA

Restriction Sites: NotI-NotI

ACCN: NM_004105

Insert Size: 2050 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

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.

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RefSeq:	NM_004105.2, NP_004096.2
RefSeq Size:	2742 bp
RefSeq ORF:	1482 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 Doyne honeycomb retinal dystrophy. Alternatively spliced transcript variants that encode the same protein have been described. [provided by RefSeq, Nov 2009] Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.

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