OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC117349

EML1 (NM_004434) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML1 (NM_004434) Human Untagged Clone
Tag:	Tag Free
Symbol:	EML1
Synonyms:	BH; ELP79; EMAP; EMAP-1; EMAPL
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_004434, the custom clone sequence may differ by one or more nucleotides

ATGGAGGACGGCTTCTCCAGCTACAGCAGCCTGTACGACACGTCCTCGCTGCTCCAGTTCTGCAACGATG
ACAGCGCTTCTGCTGCAAGTAGCATGGAGGTGACAGACCGCATTGCTTCACTGGAGCAGAGAGTCCAGAT
GCAAGAAGACGACATCCAGCTGCTCAAATCAGCTCTAGCTGATGTGGTTCGGCGGCTGAACATTACTGAG
GAACAGCAGGCCGTGCTTAACAGGAAAGGACCTACCAAAGCAAGACCACTGATGCAGACCCTGCCTTTAA
GAACCACGGTCAACAATGGCACTGTGTTACCAAAGAAACCTACTGGCTCTCTACCATCCCCCTCCGGGGT
CAGGAAAGAAACTGCTGTGCCAGCAACCAAAAGTAACATCAAGAGGACCAGCTCTTCTGAACGAGTGTCT
CCTGGGGGTCGAAGGGAAAGCAATGGGGATTCCAGAGGAAACCGGAATCGCACAGGCTCCACCAGCAGCT
CTTCCAGTGGCAAAAAGAACAGTGAAAGCAAACCCAAGGAGCCTGTATTCAGTGCAGAAGAAGGCTATGT
AAAAATGTTTCTTCGTGGACGCCCTGTTACCATGTACATGCCCAAAGATCAAGTGGATTCTTACAGCTTG
GAAGCAAAAGTAGAACTTCCAACCAAGAGACTCAAGCTGGAATGGGTCTATGGGTACAGGGGTCGAGACT
GCCGTAACAACCTGTACTTGCTTCCGACGGGAGAGACCGTCTACTTCATCGCATCCGTGGTGGTGTTATA
CAACGTGGAGGAGCAACTGCAGAGGCATTACGCTGGCCACAACGATGACGTGAAGTGCCTAGCAGTTCAT
CCTGATCGGATCACGATAGCAACAGGACAAGTTGCGGGCACATCGAAGGATGGAAAACAATTGCCCCCAC
ATGTGCGCATCTGGGATTCTGTGACATTGAATACTCTCCACGTCATTGGAATAGGTTTTTTTGACCGAGC
AGTCACCTGTATTGCATTCTCAAAATCTAATGGAGGAACCAATCTCTGTGCTGTGGATGACTCCAACGAC
CATGTGCTCTCTGTATGGGACTGGCAGAAAGAAGAAAAACTAGCAGATGTGAAGTGCTCTAATGAAGCTG
TGTTTGCTGCGGATTTCCACCCCACGGACACCAACATCATAGTTACTTGTGGAAAATCACATCTCTACTT
TTGGACACTAGAAGGAAGCTCCCTTAATAAGAAGCAAGGATTATTCGAGAAACAAGAAAAGCCAAAGTTT
GTCCTCTGTGTGACTTTCTCTGAAAACGGTGACACCATTACTGGAGATTCAAGTGGCAACATCTTAGTAT
GGGGAAAAGGTACAAATCGAATAAGCTATGCAGTTCAGGGGGCCCATGAGGGTGGCATTTTTGCACTTTG
TATGTTAAGAGATGGCACACTGGTGTCGGGAGGTGGGAAAGACCGAAAGCTCATTTCTTGGAGCGGAAAC
TATCAAAAACTTCGTAAAACGGAGATTCCAGAACAGTTTGGTCCAATACGGACAGTGGCCGAGGGGAAAG
GCGATGTGATCTTGATTGGCACAACTCGAAACTTTGTCCTGCAGGGCACTCTGTCAGGGGACTTCACACC
CATTACTCAGGGTCACACTGATGAGCTCTGGGGACTGGCCATCCATGCCTCAAAATCTCAGTTCTTGACC
TGTGGGCATGACAAGCATGCCACTCTCTGGGACGCTGTGGGTCACCGTCCCGTCTGGGACAAAATAATAG
AGGATCCAGCTCAGTCTTCTGGTTTTCATCCTTCAGGGTCTGTGGTTGCAGTCGGAACACTCACTGGGAG
GTGGTTTGTGTTTGACACAGAAACAAAAGACTTGGTCACCGTTCACACAGATGGAAACGAACAGCTCTCT
GTAATGCGATACTCACCAGATGGGAATTTCTTAGCCATAGGCTCACATGACAACTGCATCTATATATATG
GCGTTAGTGACAACGGGAGGAAGTACACGCGAGTGGGCAAGTGCTCGGGTCATTCCAGCTTCATTACTCA
CCTGGACTGGTCTGTAAACTCACAGTTCCTCGTGTCAAATTCCGGAGACTACGAAATCCTCTACTGGGTT
CCCTCTGCCTGTAAGCAAGTCGTAAGTGTGGAAACTACAAGAGACATTGAATGGGCTACCTATACCTGCA
CTTTGGGATTCCATGTTTTTGGAGTGTGGCCAGAAGGCTCGGACGGAACCGACATCAATGCCGTCTGTCG
GGCCCATGAGAAGAAACTCCTGTCAACAGGCGACGACTTTGGCAAAGTGCACCTCTTCTCATACCCCTGC
TCGCAGTTCAGGGCTCCAAGCCACATCTACGGCGGGCACAGCAGCCATGTCACCAATGTCGATTTCCTCT
GTGAAGACAGCCACCTCATCTCCACGGGCGGGAAAGACACAAGCATCATGCAGTGGCGCGTCATTTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004434 unedited
CGGCCGCGAATTCGGCACGAGCTGGGTGGGTGACAGCCGCTGAGGCTCTGAGTGACCCTG
CAGGCTGGTGACCAGCCGGCCGCCCATCTTCCACACCATGTCGGACGGCGAGGGCCCCTC
CGCCGATGACAGCGCTTCTGCTGCAAGTAGCATGGAGGTGACAGACCGCATTGCTTCACT
GGAGCAGAGAGTCCAGATGCAAGAAGACGACATCCAGCTGCTCAAATCAGCTCTAGCTGA
TGTGGTTCGGCGGCTGAACATTACTGAGGAACAGCAGGCCGTGCTTAACAGGAAAGGACC
TACCAAAGCAAGACCACTGATGCAGACCCTGCCTTTAAGAACCACGGTCAACAATGGCAC
TGTGTTACCAAAGAAACCTACTGGCTCTCTACCATCCCCCTCCGGGGTCAGGAAAGAAAC
TGCTGTGCCAGCAACCAAAAGTAACATCAAGAGGACCAGCTCTTCTGAACGAGTGTCTCC
TGGGGGTCGAAGGGAAAGCAATGGGGATTCCAGAGGAAACCGGAATCGCACAGGCTCCAC
CAGCAGCTCTTCCAGTGGCANAAAGAACAGTGAAAGCAAACCCAAGGAGCCTGTATTCAG
TGCAGAAGAAGGCTATGTAAAAATGTTTCTTCGTGGACGCCCTGTTACCATGTACATGCC
CAAAGATCAAGTGGATTCTTACAGCTTGGAAGCAAAGTAGAACTTCCACCAAGAGACTCN
AGCTGGAATG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004434 unedited
TCCGGCTCCCCTCCCCCCTTCCACCCCAAACCTTGGTGCGTTTTAACTCTTTTTTTAAAA
ATTGAGATCTTCCCCATGTAACATAAATTCAATCTGTCACACATCGAAATGGATAAGGCC
TTCTTGACAAATTTCTGCCACCTCCGTTTAACGCATCAGAACTCAATCTTATCTCATACT
GTAATGGGTCGCCCATGCACAAAACACAGGAAAAGCAGCTGCCCTTGGTACCTGGTGGAG
CCTTTCGAGACTTCTCTCTGCAGGTTTATGGTGCGCTCGAGAGAGATCTTTCTGACTTGG
TCTACTCGGTCATACATACAAATCTCCCCTGTTCATCAGCCCACCACTTCTAAGCCCTAC
CCTTACATACCTTATTTCGAATCCCTTCAATCCTCTCCTATTTCCACCTCCTCCTCTGCC
CTTCCTTCCTTTCACAATTATGCGTTCACCCTCCTCCCCCACATCACTCCCCCCCCTCCC
AACTAGTTTCCCTATCTTATCCCCCCCAATCTCACCATCTCATCCTTACTATCCCCCCCC
TTTCTTATCACCCTTCTTCCCTCTCCATCTCCCTCCCGATCGTTCCCCTCCCTCTTCTCC
CATAACCTCCCCCCTCCCCATACACACTTACATCCCACCTCCATTCCCACCCTTTCCCTA
CCACTTTCTATTCTACCCTCTAACATAAATATATATATTTCTCCACCCCTCTCCACTTCG
TCCACCCCATCATTTCCCCCTATCTCTACATATCTCTACCATTCTATCCACCCCTCCCCC
CCCCCACACCCTCTCCCTTATCTCTATCCACCCTCCCACTTCCCCATTCTCAAATCACCA
TCCCACTCTACTACATGCACCCCACCCCCTCACATTTACATCATCTCCACCCCCGCCAAA
CCTATCTTTTTATCCCTTCGTCTACCTACATCTCCCTCTTCCTTCTCCCTTCTACTACCT
CTACNCCTCTCCTCCCCCCACCCCTTCTCCCAACCTCTTCTCTCTCACCACATCTCTCAC
TCTTCTCTTTCTCCTCGCACTACTACTTATTCTCCTATCTCCTCTCTCTCCCTCTCCTAT
CCACCTTTCACTCACATCTCCACCCAACACACCACCG

Restriction Sites: NotI-NotI

ACCN: NM_004434

Insert Size: 3890 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:	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_004434.1, NP_004425.1
RefSeq Size:	4479 bp
RefSeq ORF:	4479 bp
Locus ID:	2009
UniProt ID:	O00423
Cytogenetics:	14q32.2
Domains:	WD40, HELP
Gene Summary:	Human echinoderm microtubule-associated protein-like is a strong candidate for the Usher syndrome type 1A gene. Usher syndromes (USHs) are a group of genetic disorders consisting of congenital deafness, retinitis pigmentosa, and vestibular dysfunction of variable onset and severity depending on the genetic type. The disease process in USHs involves the entire brain and is not limited to the posterior fossa or auditory and visual systems. The USHs are catagorized as type I (USH1A, USH1B, USH1C, USH1D, USH1E and USH1F), type II (USH2A and USH2B) and type III (USH3). The type I is the most severe form. Gene loci responsible for these three types are all mapped. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.