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 RC215333

EML1 (NM_001008707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML1 (NM_001008707) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EML1
Synonyms:	BH; ELP79; EMAP; EMAP-1; EMAPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC215333 representing NM_001008707
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGACGGCTTCTCCAGCTACAGCAGCCTGTACGACACGTCCTCGCTGCTCCAGTTCTGCAACGATG
ACAGCGCTTCTGCTGCAAGTAGCATGGAGGTGACAGACCGCATTGCTTCACTGGAGCAGAGAGTCCAGAT
GCAAGAAGACGACATCCAGCTGCTCAAATCAGCTCTAGCTGATGTGGTTCGGCGGCTGAACATTACTGAG
GAACAGCAGGCCGTGCTTAACAGGAAAGGACCTACCAAAGCAAGACCACTGATGCAGACCCTGCCTTTAA
GAACCACGGTCAACAATGGCACTGTGTTACCAAAGAAACCTACTGGCTCTCTACCATCCCCCTCCGGGGT
CAGGAAAGAAACTGCTGTGCCAGCAACCAAAAGATTAAACAGATCTGTGAGTCTTCTCAATGCTTGCAAA
CTGAATAGATCGACACCAAGTAACATCAAGAGGACCAGCTCTTCTGAACGAGTGTCTCCTGGGGGTCGAA
GGGAAAGCAATGGGGATTCCAGAGGAAACCGGAATCGCACAGGCTCCACCAGCAGCTCTTCCAGTGGCAA
AAAGAACAGTGAAAGCAAACCCAAGGAGCCTGTATTCAGTGCAGAAGAAGGCTATGTAAAAATGTTTCTT
CGTGGACGCCCTGTTACCATGTACATGCCCAAAGATCAAGTGGATTCTTACAGCTTGGAAGCAAAAGTAG
AACTTCCAACCAAGAGACTCAAGCTGGAATGGGTCTATGGGTACAGGGGTCGAGACTGCCGTAACAACCT
GTACTTGCTTCCGACGGGAGAGACCGTCTACTTCATCGCATCCGTGGTGGTGTTATACAACGTGGAGGAG
CAACTGCAGAGGCATTACGCTGGCCACAACGATGACGTGAAGTGCCTAGCAGTTCATCCTGATCGGATCA
CGATAGCAACAGGACAAGTTGCGGGCACATCGAAGGATGGAAAACAATTGCCCCCACATGTGCGCATCTG
GGATTCTGTGACATTGAATACTCTCCACGTCATTGGAATAGGTTTTTTTGACCGAGCAGTCACCTGTATT
GCATTCTCAAAATCTAATGGAGGAACCAATCTCTGTGCTGTGGATGACTCCAACGACCATGTGCTCTCTG
TATGGGACTGGCAGAAAGAAGAAAAACTAGCAGATGTGAAGTGCTCTAATGAAGCTGTGTTTGCTGCGGA
TTTCCACCCCACGGACACCAACATCATAGTTACTTGTGGAAAATCACATCTCTACTTTTGGACACTAGAA
GGAAGCTCCCTTAATAAGAAGCAAGGATTATTCGAGAAACAAGAAAAGCCAAAGTTTGTCCTCTGTGTGA
CTTTCTCTGAAAACGGTGACACCATTACTGGAGATTCAAGTGGCAACATCTTAGTATGGGGAAAAGGTAC
AAATCGAATAAGCTATGCAGTTCAGGGGGCCCATGAGGGTGGCATTTTTGCACTTTGTATGTTAAGAGAT
GGCACACTGGTGTCGGGAGGTGGGAAAGACCGAAAGCTCATTTCTTGGAGCGGAAACTATCAAAAACTTC
GTAAAACGGAGATTCCAGAACAGTTTGGTCCAATACGGACAGTGGCCGAGGGGAAAGGCGATGTGATCTT
GATTGGCACAACTCGAAACTTTGTCCTGCAGGGCACTCTGTCAGGGGACTTCACACCCATTACTCAGGGT
CACACTGATGAGCTCTGGGGACTGGCCATCCATGCCTCAAAATCTCAGTTCTTGACCTGTGGGCATGACA
AGCATGCCACTCTCTGGGACGCTGTGGGTCACCGTCCCGTCTGGGACAAAATAATAGAGGATCCAGCTCA
GTCTTCTGGTTTTCATCCTTCAGGGTCTGTGGTTGCAGTCGGAACACTCACTGGGAGGTGGTTTGTGTTT
GACACAGAAACAAAAGACTTGGTCACCGTTCACACAGATGGAAACGAACAGCTCTCTGTAATGCGATACT
CACCAGATGGGAATTTCTTAGCCATAGGCTCACATGACAACTGCATCTATATATATGGCGTTAGTGACAA
CGGGAGGAAGTACACGCGAGTGGGCAAGTGCTCGGGTCATTCCAGCTTCATTACTCACCTGGACTGGTCT
GTAAACTCACAGTTCCTCGTGTCAAATTCCGGAGACTACGAAATCCTCTACTGGGTTCCCTCTGCCTGTA
AGCAAGTCGTAAGTGTGGAAACTACAAGAGACATTGAATGGGCTACCTATACCTGCACTTTGGGATTCCA
TGTTTTTGGAGTGTGGCCAGAAGGCTCGGACGGAACCGACATCAATGCCGTCTGTCGGGCCCATGAGAAG
AAACTCCTGTCAACAGGCGACGACTTTGGCAAAGTGCACCTCTTCTCATACCCCTGCTCGCAGTTCAGGG
CTCCAAGCCACATCTACGGCGGGCACAGCAGCCATGTCACCAATGTCGATTTCCTCTGTGAAGACAGCCA
CCTCATCTCCACGGGCGGGAAAGACACAAGCATCATGCAGTGGCGCGTCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215333 representing NM_001008707
Red=Cloning site Green=Tags(s)

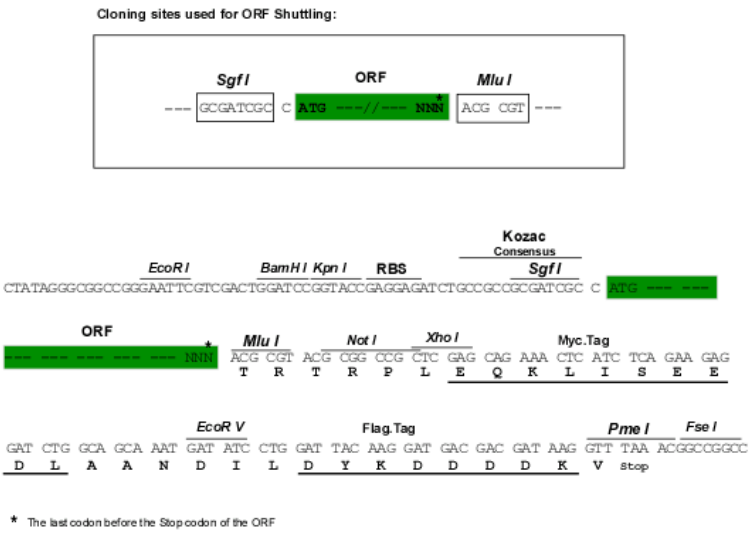
MEDGFSSYSSLYDTSSLLQFCNDDSASAASSMEVTDRIASLEQRVQMQEDDIQLLKSALADVVRRLNITE
EQQAVLNRKGPTKARPLMQTLPLRTTVNNGTVLPKKPTGSLPSPSGVRKETAVPATKRLNRSVSLLNACK
LNRSTPSNIKRTSSSERVSPGGRRESNGDSRGNRNRTGSTSSSSSGKKNSESKPKEPVFSAEEGYVKMFL
RGRPVTMYMPKDQVDSYSLEAKVELPTKRLKLEWVYGYRGRDCRNNLYLLPTGETVYFIASVVVLYNVEE
QLQRHYAGHNDDVKCLAVHPDRITIATGQVAGTSKDGKQLPPHVRIWDSVTLNTLHVIGIGFFDRAVTCI
AFSKSNGGTNLCAVDDSNDHVLSVWDWQKEEKLADVKCSNEAVFAADFHPTDTNIIVTCGKSHLYFWTLE
GSSLNKKQGLFEKQEKPKFVLCVTFSENGDTITGDSSGNILVWGKGTNRISYAVQGAHEGGIFALCMLRD
GTLVSGGGKDRKLISWSGNYQKLRKTEIPEQFGPIRTVAEGKGDVILIGTTRNFVLQGTLSGDFTPITQG
HTDELWGLAIHASKSQFLTCGHDKHATLWDAVGHRPVWDKIIEDPAQSSGFHPSGSVVAVGTLTGRWFVF
DTETKDLVTVHTDGNEQLSVMRYSPDGNFLAIGSHDNCIYIYGVSDNGRKYTRVGKCSGHSSFITHLDWS
VNSQFLVSNSGDYEILYWVPSACKQVVSVETTRDIEWATYTCTLGFHVFGVWPEGSDGTDINAVCRAHEK
KLLSTGDDFGKVHLFSYPCSQFRAPSHIYGGHSSHVTNVDFLCEDSHLISTGGKDTSIMQWRVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2998_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001008707
ORF Size:	2502 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_001008707.2

RefSeq Size: 4536 bp

RefSeq ORF: 2505 bp

Locus ID: 2009

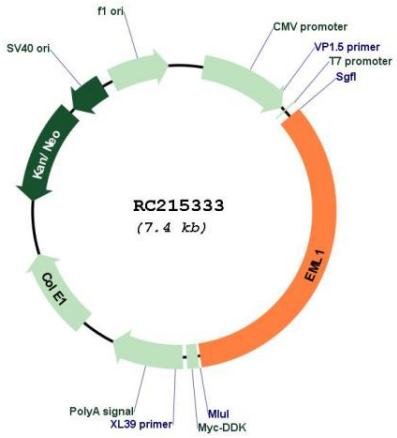
UniProt ID: O00423

Cytogenetics: 14q32.2

MW: 92 kDa

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]

Product images:



Circular map for RC215333