

Product datasheet for **RG215333**

EML1 (NM_001008707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML1 (NM_001008707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EML1
Synonyms:	BH; ELP79; EMAP; EMAP-1; EMAPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG215333 representing NM_001008707
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGACGGCTTCTCCAGCTACAGCAGCCTGTACGACACGTCCTCGTCTCCAGTTCTGCAACGATG
 ACAGCGCTTCTGCTGCAAGTAGCATGGAGGTGACAGACCGCATTGCTTCACTGGAGCAGAGAGTCCAGAT
 GCAAGAAGACGACATCCAGCTGCTCAAATCAGCTCTAGCTGATGTGGTTCGGCGGCTGAACATTACTGAG
 GAACAGCAGGCCGTGCTTAACAGGAAAGGACCTACCAAAGCAAGACCACTGATGCAGACCCCTGCCTTAA
 GAACCACGGTCAACAATGGCACTGTGTTACCAAAGAAACCTACTGGCTCTCTACCATCCCCCTCCGGGGT
 CAGGAAAGAACTGCTGTGCCAGCAACAAAAGATTAACAGATCTGTGAGTCTTCTCAATGCTTGCAAA
 CTGAATAGATCGACACCAAGTAACATCAAGAGGACCAGCTCTTCTGAACGAGTGTCTCTGGGGTTCGAA
 GGGAAAGCAATGGGGATCCAGAGGAAACCGGAATCGCACAGGCTCCACCAGCAGCTCTCCAGTGGCAA
 AAAGAACAGTGAAGCAAACCAAGGAGCTGTATTCAGTGCAGAGAAGGCTATGTAATAATGTTTCTT
 CGTGGACGCCCTGTTACCATGTACATGCCAAAGATCAAGTGGATTCTTACAGCTTGAAGCAAAAGTAG
 AACTTCCAACCAAGAGACTCAAGCTGGAATGGGTCTATGGGTACAGGGTTCGAGACTGCCGTAACACCT
 GTACTTGCTTCCGACGGGAGAGACCGTCTACTTCATCGCATCCGTGGTGGTGTATACAACGTGGAGGAG
 CAACTGCAGAGGCATTACGCTGGCCACAACGATGACGTGAAGTGCTAGCAGTTCATCCTGATCGGATCA
 CGATAGCAACAGGACAAGTTGCGGGCACATCGAAGGATGGAAAACAATTGCCCCACATGTGCGCATCTG
 GGATTCTGTGACATTGAATACTCTCCACGTCATTGGAATAGGTTTTTTGACCGAGCAGTCACTGTATT
 GCATTTCAAAATCTAATGGAGGAACCAATCTCTGTGCTGTGGATGACTCCAACGACCATGTGCTCTCTG
 TATGGACTGGCAGAAAGAAGAAAACTAGCAGATGTGAAGTGCTCTAATGAAGCTGTGTTGCTGCGGA
 TTTCCACCCACGGACACCAACATCATAGTTACTTGTGGAAAATCACATCTCTACTTTTGGACACTAGAA
 GGAAGCTCCCTTAATAAGAAGCAAGGATTATTCGAGAAAACAAGAAAAGCCAAAGTTTGCCTCTGTGTGA
 CTTTCTCTGAAAACGGTGACACCATTACTGGAGATTCAAGTGGCAACATCTTAGTATGGGAAAAGGTAC
 AAATCGAATAAGCTATGCAGTTCAGGGGCCCCATGAGGGTGGCATTTTTGCACCTTGTATGTTAAGAGAT
 GGCACACTGGTGTGGGAGGTGGGAAAGACCGAAAAGCTCATTCTTGGAGCGGAAACTATCAAAAACCTC
 GTAACACGGAGATTCCAGAACAGTTTGGTCCAATACGGACAGTGGCCGAGGGGAAAGGCGATGTGATCTT
 GATTGGCACAACCGAACTTTGTCTGCAGGGCACTCTGTGAGGGACTTCACACCCATTACTCAGGGT
 CACACTGATGAGCTCTGGGGACTGGCCATCCATGCCTCAAAATCTCAGTCTTGGACTGTGGGCATGACA
 AGCATGCCACTCTCTGGGACGCTGTGGTCCCGTCCCGTCTGGGACAAAATAATAGAGGATCCAGCTCA
 GTCTTCTGGTTTTTCATCCTTCAGGGTCTGTGGTTCAGTTCGGAACACTCACTGGGAGGTGGTTTTGTGTT
 GACACAGAAAACAAAGACTTGGTCACCGTTACACAGATGGAAACGAACAGCTCTCTGTAATGCGTACT
 CACCAGATGGGAATTTCTTAGCCATAGGCTCACATGACAACTGCATCTATATATAGGCGTTAGTGACAA
 CGGGAGGAAGTACACGCGAGTGGCAAGTGTCTGGGTCAATCCAGCTTCACTACTCACCTGGACTGGTCT
 GTAACACTCACAGTTCCTCGTGTCAAATCCGGAGACTACGAAATCCTCTACTGGGTTCCCTCTGCCTGTA
 AGCAAGTCGTAAGTGTGAAAACACAAGAGACATTGAATGGGCTACCTATACCTGCACCTTGGGATCCA
 TGTTTTTGGAGTGTGGCCAGAAGGCTCGGACGGAACCGACATCAATGCCGTCTGTGCGGCCCATGAGAAG
 AAACCTCTGTCAACAGGGGACGACTTTGGCAAAGTGCACCTCTTCTCATACCCCTGCTCGCAGTTACAGG
 CTCCAAGCCACATCTACGGCGGGCACAGCAGCCATGTCACCAATGTGATTTCTCTGTGAAAGACAGCCA
 CCTCATCTCCACGGGCGGAAAGACACAAGCATCATGCAGTGGCGGTCATT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215333 representing NM_001008707
 Red=Cloning site Green=Tags(s)

```

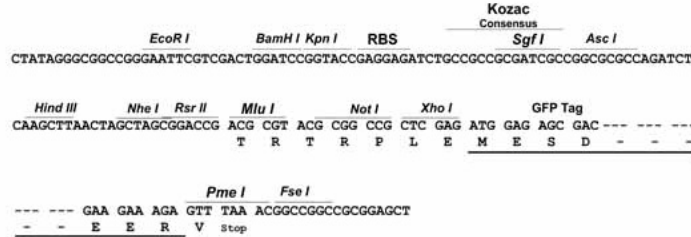
MEDGFSSYSSLYDTSSLLQFCNDDSAASAASSMEVTDRIASLEQRVQMQEDDIQLLKSALADVRRRLNITE
EQQAVLNRKGPVKARPLMQTLPLRRTTVNNGTVLPKKPTGSLPSPSGVRKETAVPATKRLNRSVSLLNACK
LNRSTPSNIKRTSSSERVSPGGRRESNGDSRGNRNRTGSTSSSSSGKKNSESKPKPEVFSAEEGYVKMFL
RGRPVMTMYMPKDQVDSYSLEAKVELPTKRLKLEWVYGYRGRDCRNLYLLPTGETVYFVIASVVVLYNVEE
QLQRHYAGHNDVVKLAVHPDRITIAATGQVAGTSKDGKQLPPHVRIWDSVTLNTHVIGIGFFDRAVTCI
AFSKSNGGTNLCAVDDSNHVLVVDWQKKEKLADVKCSNEAVFAADFHPDTNIIIVTCGKSHLYFWTLE
GSSLNKKQGLFEKQEKPKFVLCVTFSENGDTITGDSSGNILVWGKGTNRISYAVQGAHEGGIFALCMLRD
GTLVSGGGKDRKLISSWGNYSQKLRKTEIPEQFGPIRTVAEGKGDVILIGTTRNFVLQGTLSGDFTPITQG
HTDELWGLAIHASKSQFLTCGHDKHATLWDAVGHPRVWDKIIEDPAQSSGFHPSGSVVAVGTLTGRWFVF
DTETKDLVTVHTDGNEQLSVMRYSPDGNFLAIGSHDNCIYIYGVSDNGRKYTRVGKCSGHSFITHLDWS
VNSQFLVSNSGDYEILYWVPSACKQVSVETTRDIEWATYTCTLGFHFVGVWPEGSDGTDINAVCRAHEK
KLLSTGDDFGKVHLFSYPCSQFRAPSHIYGGHSSHVTNVDFLCEDSHLISTGGKDTSIMQWRVI
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



- 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

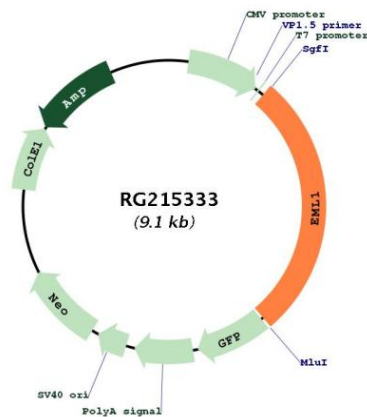
Locus ID: 2009

UniProt ID: [O00423](#)

Cytogenetics: 14q32.2

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 categorized 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 RG215333