

Product datasheet for **RG206372**

EML1 (NM_004434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EML1 (NM_004434) 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)



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**ORF Nucleotide
Sequence:**

>RG206372 representing NM_004434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGACGGCTTCTCCAGCTACAGCAGCCTGTACGACACGTCCTCGTCTCCAGTTCTGCAACGATG
 ACAGCGCTTCTGCTGCAAGTAGCATGGAGGTGACAGACCGCATTGCTTCACTGGAGCAGAGAGTCCAGAT
 GCAAGAAGACGACATCCAGCTGCTCAAATCAGCTCTAGCTGATGTGGTTCGGCGGCTGAACATTACTGAG
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 GAACCACGGTCAACAATGGCACTGTGTTACCAAAGAAACCTACTGGCTCTCTACCATCCCCCTCCGGGGT
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 AAAATGTTTCTCGTGGACGCCCTGTTACCATGTACATGCCAAAGATCAAGTGGATTCTTACAGCTTG
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 CATTACTCAGGGTCACACTGATGAGCTCTGGGACTGGCCATCAATGCCTCAAAATCTCAGTTCTTGACC
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 GCGTTAGTGACAACGGGAGGAAGTACACGCGAGTGGGCAAGTGTCTGGGTCACTCCAGCTTCACTACTCA
 CCTGGACTGGTCTGTAAACTCACAGTTCCTCGTGTCAAATCCGGAGACTACGAAATCCTCTACTGGGT
 CCCTCTGCCTGTAAGCAAGTCGTAAGTGTGAAACTACAAGAGACATTGAATGGGCTACCTATACCTGCA
 CTTTGGGATCCATGTTTTGGAGTGTGGCCAGAAGGCTCGGACGGAACCGACATCAATGCCGCTGTGCG
 GGCCCATGAGAAGAAACTCCTGTCAACAGGCGACGACTTTGGCAAAGTGCACCTTCTCATACCCCTGC
 TCGCAGTTCAGGGCTCCAAGCCACATCTACGGCGGGCACAGCAGCCATGTCACCAATGTCGATTTCTCT
 GTGAAGACAGCCACCTCATCTCCACGGCGGGAAAGACACAAGCATCATGCAGTGGCGGTCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206372 representing NM_004434
Red=Cloning site Green=Tags(s)

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MEDGFSSYSSLYDTSSLLQFCNDDASASAASSMEVTDRIASLEQRVQMVEDDIQLLKSALADVRRRLNITE
EQQAVLNRKGPVKARPLMQTLPLRRTVNNGTVLPKKPTGSLPSPSGVRKETAVPATKSNIKRTSSSERVS
PGGRRESNGDSRGNRNRTGSTSSSSSGKKNSESKPKPEVFSAAEEGYVKMFLRGRPVMTMYMPKDQVDSYSL
EAKVELPTKRLKLEWVYGYRGRDCRNLYLLPTGETVYFIASVVVLYNVEEQLQRHYAGHNDVVKLAVH
PDRITIAATGQVAGTSKDGKQLPPHVRIWDSVTLNTHVIGIGFFDRAVTCIAFSKSNGGTNLCAVDDSDND
HVL SVWDWQKEEKLADVKCSNEAVFAADFHPTDTNIIVTCGKSHLYFWTLEGSSLNKKQGLFEKQEKPKF
VLCVTFSENGDTITGDSSGNILVWGKGTNRISYAVQGAHEGGIFALCMLRDGTLVSGGGKDRKLIWSGN
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CGHDKHATLWDAVGHRPVWDKIIEDPAQSSGFHPSGSVAVGTLTGRWFVFDTETKDLVTVHTDGNEQLS
VMRYSPDGNFLAIGSHDNCIYIYGVSDNGRKYTRVGKCSGHSSFITHLDWSVNSQFLVSNSGDYEILYWV
PSACKQVVSVETTRDIEWATYCTLGPHVFGVWPEGSDGTDINAVCRAHEKLLSTGDDFGKVHLFSYPC
SQFRAPSHIYGGHSSHVTNVDLFCEDSHLISTGGKDTSIMQWRVI
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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_004434.2](#), [NP_004425.2](#)

RefSeq Size: 4479 bp

RefSeq ORF: 2448 bp

Locus ID: 2009

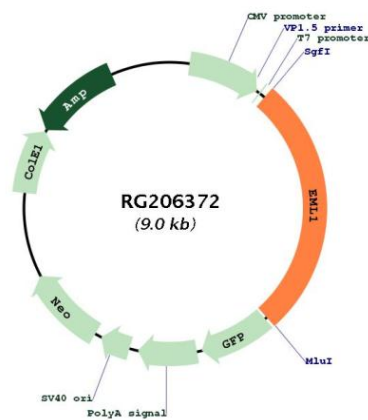
UniProt ID: [O00423](#)

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 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 RG206372