

Product datasheet for **SC318296**

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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC318296 representing NM_004434.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGACGGCTTCTCCAGCTACAGCAGCCTGTACGACACGTCCTCGTCTCCAGTTCTGCAACGAT
GACAGCGCTTCTGCTGCAAGTAGCATGGAGGTGACAGACCGCATTGCTTCACTGGAGCAGAGAGTCCAG
ATGCAAGAAGACGACATCCAGCTGCTCAAATCAGCTCTAGCTGATGTGGTTCGGCGGCTGAACATTACT
GAGGAACAGCAGGCCGTGCTTAACAGGAAAGGACCTACCAAAGCAAGACCACTGATGCAGACCCTGCCT
TTAAGAACCACGGTCAACAATGGCACTGTGTTACCAAAGAAACCTACTGGCTCTCTACCATCCCCCTCC
GGGGTCAGGAAAGAACTGCTGTGCCAGCAACCAAAAGTAACATCAAGAGGACCAGCTCTTCTGAACGA
GTGTCTCTGGGGTTCGAAGGAAAGCAATGGGGATTCCAGAGGAAACCGGAATCGCACAGGCTCCACC
AGCAGCTCTTCCAGTGGCAAAAAGAACAGTGAAAGCAAACCAAGGAGCCTGTATTCAGTGCAGAAGAA
GGCTATGTAAAAATGTTTCTTCTGAGGACCCCTGTTACCATGTACATGCCCAAAGATCAAGTGGATTCT
TACAGCTTGAAGCAAAGTAGAACTTCCAACCAAGAGACTCAAGCTGGAATGGGTCTATGGGTACAGG
GGTCGAGACTGCCGTAAACAACCTGTACTTGTCTCCGACGGGAGAGACCGTCTACTTCATCGCATCCGTG
GTGGTGTATACAACGTGGAGGAGCAACTGCAGAGGCATTACGCTGGCCACAACGATGACGTGAAGTGC
CTAGCAGTTTATCCTGATCGGATCACGATAGCAACAGGACAAGTTGCGGGCACATCGAAGGATGAAAA
CAATTGCCCCACATGTGCGCATCTGGGATTCTGTGACATTGAATACTCTCCACGTCAATTGGAATAGGT
TTTTTTGACCGAGCAGTCACTGTATTGCATTCTCAAATCTAATGGAGGAACCAATCTCTGTGCTGTG
GATGACTCCAACGACCATGTGCTCTCTGTATGGGACTGGCAGAAAGAAGAAAACTAGCAGATGTGAAG
TGCTCTAATGAAGCTGTGTTTGTGCGGATTTCCACCCACGGACCAACATCATAGTTACTTGTGGA
AAATCACATCTTACTTTTGGACACTAGAAGGAAGCTCCCTTAATAAGAAGCAAGGATTATTCGAGAAA
CAAGAAAAGCCAAAGTTTGTCTCTGTGTGACTTCTCTGAAAACGGTGACACCATTACTGGAGATTCA
AGTGGCAACATCTTAGTATGGGAAAAGGTACAAATCGAATAAGCTATGCAGTTACGGGGGCCCATGAG
GGTGGCATTTTTGCATTTGTATGTTAAGAGATGGCACACTGGTGTGGGAGGTGGGAAAGACCGAAAG
CTCATTCTTGGAGCGGAAACTATCAAAAACCTCGTAAAACGGAGATTCCAGAACAGTTTGGTCCAATA
CGGACAGTGGCCGAGGGGAAAGGCGATGTGATCTTGATTGGCACAACCTCGAACTTTGTCTGCAGGGC
ACTCTGTCAGGGGACTTCACACCCATTACTCAGGGTCACACTGATGAGCTCTGGGACTGGCCATCCAT
GCCTCAAAATCTCAGTTCTTGACCTGTGGGCATGACAAGCATGCCACTCTCTGGGACGCTGTGGGTAC
CGTCCCGTCTGGGACAAAATAATAGAGGATCCAGCTCAGTCTTCTGGTTTTTCATCTTCAGGGTCTGTG
GTTGCAGTCGGAACACTCACTGGGAGGTGGTTTGTGTTTGACACAGAAACAAAAGACTTGGTCACCGTT
CACACAGATGGAACGAACAGCTCTCTGTAATGCGATACTCACCAGATGGGAATTTCTTAGCCATAGGC
TCACATGACAACCTGCATCTATATATATGGCGTTAGTGACAACGGGAGGAAGTACACGCGAGTGGGCAAG
TGCTCGGGTCATTCCAGCTTCATTACTCACCTGGACTGGTCTGTAAACTCACAGTTCTCTCGTGTCAAAT
TCCGGAGACTACGAAATCCTCTACTGGTTCCCTCTGCCTGTAAGCAAGTCGTAAGTGTGGAACTACA
AGAGACATTGAATGGGCTACCTATACCTGCACCTTTGGGATTCCATGTTTTTGGAGTGTGGCCAGAAGGC
TCGGACGGAACCGACATCAATGCCGTCTGTGCGGCCCATGAGAAGAACTCCTGTCAACAGGCGACGAC
TTTGGCAAAGTGACCTCTTCTCATACCCCTGCTCGCAGTTACGGGCTCCAAGCCACATCTACGGCGGG
CACAGCAGCCATGTACCAATGTCGATTTCTCTGTGAAGACAGCCACCTCATCTCCACGGCGGGGAAA
GACACAAGCATCATGCAGTGGCGCGTCATTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI
ACCN: NM_004434
Insert Size: 2448 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_004434.2</u>
RefSeq Size:	4479 bp
RefSeq ORF:	2448 bp
Locus ID:	2009
UniProt ID:	<u>O00423</u>
Cytogenetics:	14q32.2
Domains:	WD40, HELP
MW:	89.9 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 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] 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.