

Product datasheet for **MC221810**

Eml1 (NM_001043335) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eml1 (NM_001043335) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eml1
Synonyms:	1110008N23Rik; A930030P13Rik; AA171013; AI847476; AI853955; ELP79; EMAP; EMAPL; heco
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221810 representing NM_001043335
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGACGGCTTCTCCAGCTATAGCAGCCTGTACGACACGTCCTCGTCTGCAGTTCTGCAACGATG
 ACAGCGCTCTGCTGCCAGCAGCATGGAGGTGTACAGCCGCATCGCCTCTCTGGAGCAGCGCTCCAGAT
 GCAGGAGGATGACATTCAACTGCTCAAGTCAGCGCTGGCCGACGTGGTTCGGAGGCTGAACATCACGGAG
 GAGCAACAGGCTGTGCTCAACAGGAAAGGACCTACCAAAGCGAGGCCACTGGGGCAGACCCTGCCATTGA
 GAACCACCGTCAACAATGGCACCCTGTTACCAAAGAAACCCAGTGCCTCCCTCCCGGCACCCTCCGGGGC
 CAGGAAAGAAGTAGTTGTGCCGTAACCAAAAGCATCAATAGGACCAGCTCTCCGAAAGAGTGTCTCCA
 GGTGGCCGGAGGGAGAGCTCTGGGGACTCAAAGGAAGCCGGAACCGCACGGGCTCAACCAGTAGCTCT
 CCAGCGGCAAGAAGAACAGTGAGAGCAAACCAAGGAGCCGCATTTCAGTCCAGAAGAAGGATATGTAAA
 AATGTTTTCTCGAGGCCGTCGGTACCATGTACATGCCCAAAGACCAAGTGGATTTCGTACAGTTTGGAA
 GCAAAAGCTGAGTTACCAACGAAGCGGCTGAAACTGGAGTGGGTCTACGGGTACCGGGGGCAGACTGTC
 GCAATAACTTGTACTTGCTCCCGACCGGGAGACCGTGTACTTCATTGCGTCTGTCTGGTGTCTTACAA
 TGTGGAGGAGCAGCTGCAGAGGCATTACGCGGGCCACAACGATGACGTCAAGTGCCTAGCGGTCCATCCT
 GACAGGATCACCATAGCAACGGGACAAGTGGCGGGCACAATCTAAGGATGGAAAGCAACTGCCACCACATG
 TGCGCATCTGGGACTCTGTGACACTGAACACTCTGCATGTCAATTGGAATAGGCTTTTTTGACCGGGCTGT
 CACCTGCATCGCATTCTCAAAGTCTAACGGAGGAGGCCATCTCTGTGCTGTGGATGATCCAACGATCAC
 GTGCTGTCCGTGTGGGATTGGCAGAAAGAAGAGAGACTGGCCGACGTGAAGTGTTCGAACGAAGCGGAT
 TTGGCGGGGACTTCCACCCACAGACACCAATATCATAGTCACCTGCGGGAAGTACATCTACTTTTTG
 GACCCTAGAAGGAAATCCCTTAACAAGAAGCAAGGGTTGTTTGAGAAACAAGAGAAGCCAAAGTTTGT
 CTCTGCGTGACGTTTTCTGAAAATGGCGACACCATTACTGGAGATTCAAGCGGCAACATCTTGGTGTGGG
 GGAAAGGTACAAATCGGATAAGCTATGCAGTTCAGGGGCCACGAGGGCGGCATTTTTGCACTTTGTAT
 GCTGAGAGACGGGACGCTGGTGTCCGGAGGAGGAAGGACCGGCGACTATTTCTGGAACGGAAACTAT
 CAAAAACTTCACAAAGCAGAGATTCTGAGCAGTTTGGCCCAATACGGACAGTAGCCGAAGGGAAGGGCA
 ACGTCATCTTGATAGGCACTACTAGAACTTTGCTCCTGCAAGGCACCTTGTGAGGGGACTTCACACCCAT
 CACTCAGGGCCACACCGATGAGCTCTGGGGCTAGCCATCCATGCCTCCAAGCCTCAGTTCCTGACTTGT
 GGACATGACAAACATGCCACTCTCTGGGACGCTGTCGGTACCGGCCAGTCTGGGACAAAATCATAGAGG
 ATCCAGCTCAGTCTCTGGTTTTATCCTTCCGGGTCTGTGGTTGCAAGTGGGGACACTGACTGGGAGGTG
 GTTTGTGTTTGACACGGAGACAAAGGACTTGGTACCGTCCACACGGATGGGAATGAGCAGCTGTCCGTG
 ATGCGGTATTCTCCAGATGGGAATCTTAGCAATCGGCTCCCATGACAACTGCATCTACATATATGGAG
 TTACCGACAATGGAAGGAAGTACACACGAGTTGGCAAGTGTCCGGCCATTCCAGCTTATCACCCACTT
 GGACTGGTCCGTGAACACTACAATTCCTGGTGTCAAATTCGGGGACTACGAGATCCTCTACTGGGTTCCG
 TCTGCCTGAAGCAAGTCGTGAGTGTGAAACCACAAGGGACATCGAGTGGGCCACCTATACCTGCACCT
 TGGGATCCACGCTTTTGGAGTGTGGCCGAGGGCTCCGATGGGACAGACATCAACGCCGTCTGCCGGGC
 TCACGAGAGAAAAGCTCTTGTGCACAGGCATGACTTCGGCAAAGTGCACCTCTTCTCATACCCGTCTCA
 CAGTTCCGGGCTCCAAGCCACATCTACAGTGGACACAGCAGCCAGTCAACCAAGTGGACTTCTCTGTG
 AAGACAGCCACCTTATCTCCACGGTGGGAAAGACACAAGCATCATGCAGTGGCGAGTCATTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001043335
Insert Size: 2445 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001043335.1](#), [NP_001036800.1](#)

RefSeq Size: 4160 bp

RefSeq ORF: 2445 bp

Locus ID: 68519

UniProt ID: [Q05BC3](#)

Cytogenetics: 12 59.46 cM

Gene Summary: Modulates the assembly and organization of the microtubule cytoskeleton, and probably plays a role in regulating the orientation of the mitotic spindle and the orientation of the plane of cell division. Required for normal proliferation of neuronal progenitor cells in the developing brain and for normal brain development. Does not affect neuron migration per se. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1).